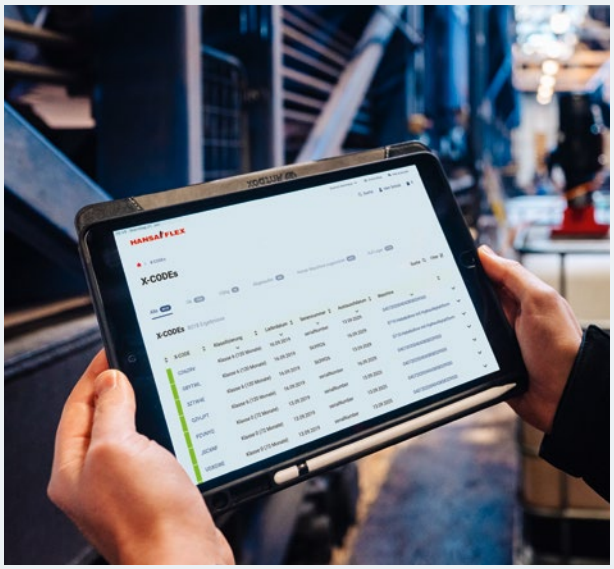
HANSA FLEX

CONNECTION TECHNOLOGY
CATALOGUE | 2024



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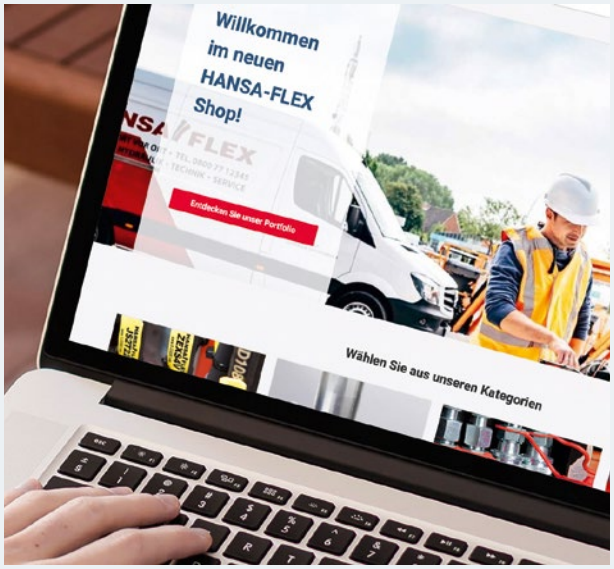
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Connection technology

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Despite careful checking, we cannot exclude the possibility of errors in this document and we accept no liability for the information it contains.

Find the product you need in just a few steps

F

1. Select the desired product area

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2. Limit the selected product area

At the beginning of every chapter, you will find a detailed chapter table of contents, which helps you find your way to the desired products.



Alternative: go straight to the index

The index with a separate headword and product directory offers another quick way to explore the product range – with clear product descriptions.


Product directory

F

3. Use the overview pages to help select a product

Some chapters with complex product areas have additional overview pages. They can be found at the beginning of the relevant chapter after the chapter table of contents. In this catalogue, for example, in chapter 3 Fastening technology.



4. Select products by their construction form and thread type

As soon as you have found the correct page number for the chosen adapter or tube connectors series, you can select from a large variety of different thread types, seals and construction forms.

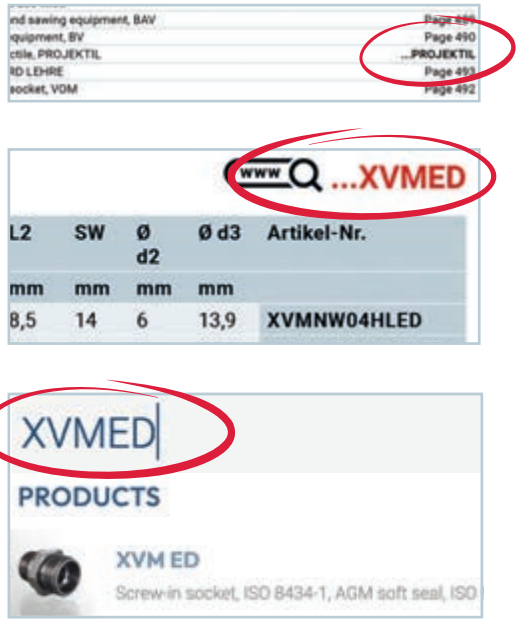


In the case of products and product variants not fully covered in this catalogue, a shortened link is given instead of a page reference. Simply visit our online shop and enter the product's short link directly into the search box.

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Technical Information – Connection Technology



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1. Connection Technology: Technical Information for Tube fittings/24° cone connector

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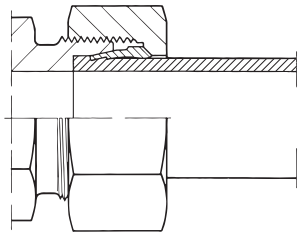
Introduction

Connection technology at HANSA-FLEX means: safe and reliable connections at transitions between different systems or components. This is the case with HANSA-FLEX tube fittings in accordance with ISO 8434-1 or with the wide range of HANSA-FLEX adapters, including connections in accordance with ISO 8434-2, ISO 8434-3 etc.

Whether tube fittings or adapters, the important thing is that all connections perform reliably and provide a safe seal over the long term. This document illustrates and explains HANSA-FLEX connection technology in detail.

1.1 Tube fittings

1.1.1 Design and function of 24° cone connectors



T

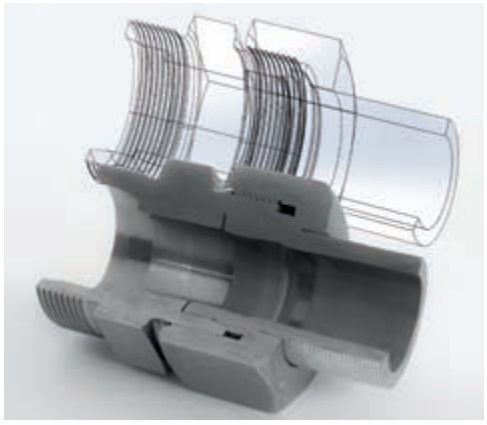
24° cone connectors manufactured by HANSA-FLEX have been used successfully in practical applications for many years. These components from our range of hydraulic connecting equipment are standardised in accordance with ISO 8434-1 and DIN 2353, and their geometrical shape serves to seal hydraulic tubes and fittings simply, reliably and safely.

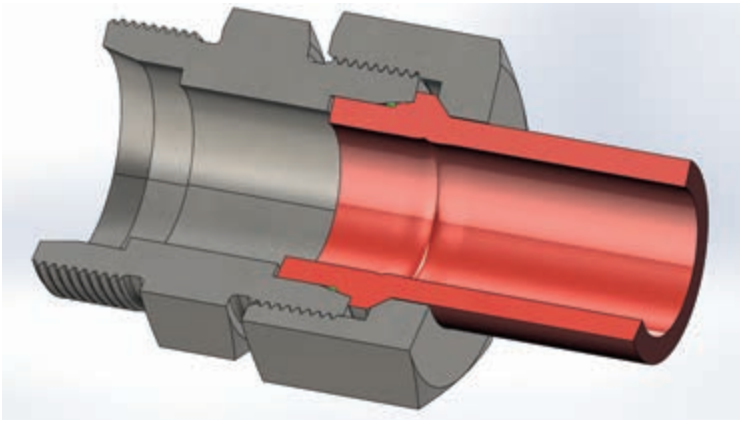
They can be fitted either into threaded connectors or into specially made pre-assembly sockets. In either case, the cutting ring and its edges are moved axially as the union nut is tightened. As the cutting ring moves along an assembly path defined by the thread, its cutting edges are forced into the surface of the hydraulic tube. The tube material raised in front of the cutting edges is cold-hardened. An over-tightening protection developed in-house prevents over-tightening.

The outer surfaces of the cutting ring transfer the active forces evenly over the entire sealing cone of the fitting. The internal contour is shaped so that the cutting ring is wedged between the union nut and the threaded connector and serves as a spring-loaded element. This spring effect damps vibrations and increases the resistance of the fitting to alternating bending loads and surge pressures.

When the assembly instructions are followed, repeat assemblies can be carried out safely and reliably. Cutting rings with an elastomer seal work according to the same functional principle, but they are furnished with additional elastomer seals to further increase operating reliability.

1.2 HF-Form





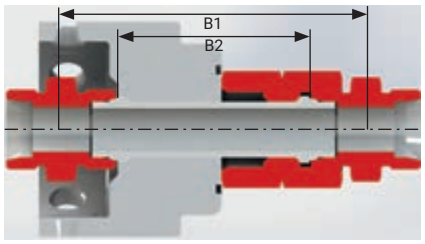
In addition to the above method of connecting tubes, HANSA-FLEX has successfully marketed an in-house developed tube-forming system. Using this system, 24° threaded component bodies can be permanently and reliably connected to hydraulic tubes, without the need to use cutting rings or special functional parts.

The connection system has three sealing zones with designed-in redundancy to provide long-term protection against leaks. In addition to an elastomer seal in the form of an O-ring, two metallic sealing surfaces ensure a highly safe and reliable connection. Even if the O-ring is inadvertently "forgotten", this would have no detrimental effect on the sealing performance.

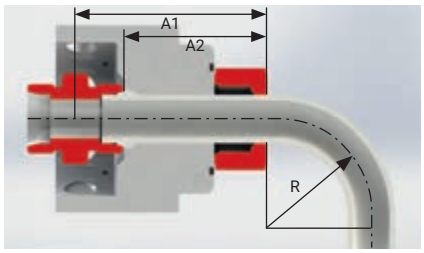
The new HF-Form system can form tubes and tubes in all commonly available grades of ordinary and stainless steel. In addition, with the O-ring being available in many materials, e.g. NBR and Viton, it can be made compatible with the transported medium, which means the tubes can not only carry typical hydraulic oils, but also highly unusual or special media. The O-ring is not available in all forming sizes. For more information, refer to the table in point 1.1.2.1.

1.1.2.1 Tube length determination for HF-Form

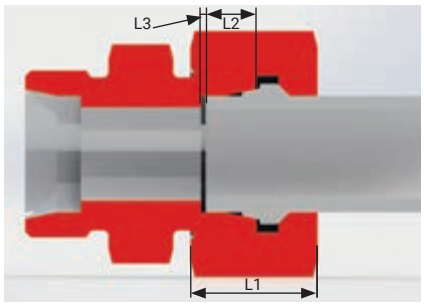
Observe the following minimum lengths for straight and bent tubelines when determining tube lengths for HF-Form.



Minimum length for clamping straight tubes



Minimum length for clamping bent tubes (R ≥ 2 × tube OD)

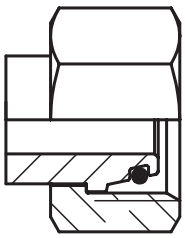


Series	Tube size	Material	Union nut (UEM)	O-ring	Length of UEM	Insertion depth	Gap	Upset length	Straight tubes		Bent tubes	
					L1	L2	L3		B1	B2	A1	A2
L	6x1.5	Steel	UEMNW04L	none	15	2.0	5.0	5.5	70	55	47	39.5
L	6x1.5	S/Steel	UEMNW04LVA	none	15	2.0	5.0	7.5	74	55	49	39.5
L	8x1.5	Steel	UEMNW06L	none	15	5.9	1.1	8.5	87	58	57.5	43
L	8x1.5	S/Steel	UEMNW06LVA	none	15	5.9	1.1	8.5	87	58	57.5	43
L	10x1.5	Steel	UEMNW08L	none	16	5.9	1.1	8.5	86	57	61.5	47
L	10x1.5	S/Steel	UEMNW08LVA	none	16	5.9	1.1	7.5	84	57	60.5	47
L	10x2	Steel	UEMNW08L	none	16	5.9	1.1	6.5	82	57	59.5	47
L	10x2	S/Steel	UEMNW08LVA	none	16	5.9	1.1	6.0	81	57	59	47
L	12x1.5	Steel	UEMNW10L	none	16	5.9	1.1	5.5	82	59	60.5	49
L	12x1.5	S/Steel	UEMNW10LVA	none	16	5.9	1.1	8.0	87	59	63	49
L	12x2	Steel	UEMNW10L	none	16	5.9	1.1	5.5	82	59	60.5	49
L	12x2	S/Steel	UEMNW10LVA	none	16	5.9	1.1	6.0	83	59	61	49
L	12x3	Steel	UEMNW10L	none	16	5.9	1.1	5.5	82	59	60.5	49
L	12x3	S/Steel	UEMNW10LVA	none	16	5.9	1.1	6.0	83	59	61	49
L	15x1.5	Steel	UEMNW13L	none	17.5	6.0	1.0	6.0	95	71	71.5	59.5
L	15x1.5	S/Steel	UEMNW13LVA	none	17.5	6.0	1.0	6.5	96	71	72	59.5
L	15x2	Steel	UEMNW13L	none	17.5	6.0	1.0	6.5	96	71	72	59.5
L	15x2	S/Steel	UEMNW13LVA	none	17.5	6.0	1.0	7.0	97	71	72.5	59.5
L	18x2	Steel	UEMNW16L	none	18.5	6.1	1.4	6.0	105	80.5	74	61.5
L	18x2	S/Steel	UEMNW16LVA	none	18.5	6.1	1.4	6.5	105.5	80	74.5	61.5
S	10x2	Steel	UEMNW06S	none	18	5.9	1.6	6.5	86	61	61.5	49
S	10x2	S/Steel	UEMNW06SVA	none	18	5.9	1.6	6.0	85	61	61	49
S	12x2	Steel	UEMNW08S	none	18	5.9	1.6	5.5	82	59	60.5	49
S	12x2	S/Steel	UEMNW08SVA	none	18	5.9	1.6	6.0	83	59	61	49
S	12x3	Steel	UEMNW08S	none	18	5.9	1.6	5.5	82	59	60.5	49
S	12x3	S/Steel	UEMNW08SVA	none	18	5.9	1.6	6.0	83	59	61	49
S	14x2	Steel	UEMNW10S	none	21	6.5	1.5	6.5	99	73	71.5	58.5
S	14x2	S/Steel	UEMNW10SVA	none	21	6.5	1.5	7.5	101	73	72.5	58.5
S	16x2	Steel	UEMNW13S	none	21	7.5	1.0	6.0	104	77	77	63.5
S	16x2	S/Steel	UEMNW13SVA	none	21	7.5	1.0	7.0	106	77	78	63.5
S	16x2.5	Steel	UEMNW13S	none	21	7.5	1.0	6.0	104	77	77	63.5
S	16x2.5	S/Steel	UEMNW13SVA	none	21	7.5	1.0	7.0	106	77	78	63.5
S	25x3	Steel	UEMNW20S	none	27.5	11.0	1.0	7.5	125.5	88.5	90.5	72
S	25x3	S/Steel	UEMNW20SVA	none	27.5	11.0	1.0	8.0	126.5	88.5	91	72
S	25x4	Steel	UEMNW20S	25x1	27.5	11.0	1.0	7.0	124.5	88.5	90	72
S	25x4	S/Steel	UEMNW20SVA	25x1	27.5	11.0	1.0	7.5	125.5	88.5	90.5	72
S	30x3	Steel	UEMNW25S	25x1	29.5	12.5	1.0	7.5	138	98	101	81
S	30x3	S/Steel	UEMNW25SVA	25x1	29.5	12.5	1.0	8.0	139	98	101.5	81
S	30x4	Steel	UEMNW25S	30x1	29.5	12.5	1.0	8.0	139	98	101.5	81
S	30x4	S/Steel	UEMNW25SVA	30x1	29.5	12.5	1.0	8.5	140	98	102	81
S	30x5	Steel	UEMNW25S	30x1	29.5	12.5	1.0	7.0	137	98	100.5	81
S	30x5	S/Steel	UEMNW25SVA	30x1	29.5	12.5	1.0	6.0	135	98	100	81.5
S	38x5	Steel	UEMNW32S	38x1	33	14.9	1.1	9.5	150	101	107.5	83
S	38x5	S/Steel	UEMNW32SVA	none	33	14.9	1.1	10.0	151	101	108	83

HANSA-FLEX takes into account these required minimum lengths and may amend any customer-supplied drawings if necessary.

HF-Form is continuously developed and extended for use on other tube sizes. If you have any questions about missing tube sizes, please contact our HANSA-FLEX Technical Department in Bremen.

1.1.3 Design and function of 24° sealing cone and welded cone fittings



HANSA-FLEX 24° sealing cone fittings (DKOL/DKOS) provide another option for connecting standardised hydraulic tubes and threaded connectors.

The sealing cone is fitted with an O-ring and is shaped so as to fit precisely inside the mating part of the threaded connector. HANSA-FLEX 24° sealing cone fittings have over-tightening protection which prevents further tightening after full assembly, which could otherwise seriously damage the threaded components.

In addition, the HANSA-FLEX sealing cone fittings achieve a metallic and elastomeric seal, even if disassembled and reassembled.

Welded connections of hydraulic tubes and HANSA-FLEX tube fittings can be made using HANSA-FLEX welded cone fittings.

However, the O-ring must be removed before welding, and any weld splatter must be removed from the O-ring groove and the fitting bore.

1.1.4 General information

All of the tube fittings listed in our catalogue are manufactured in conformance with DIN 2353 or ISO 8434-1 and are intended for applications in hydraulic connection equipment.

The HANSA-FLEX tube fitting product line includes a large number of fitting types that surpass the requirements of these standards. In these special forms, e.g. tube fittings available in a series of sizes which reduce or step-down hose or tubing diameters, the connector dimensions have been adapted to the pertinent standard, so that they can be replaced at any time. Stepped bores are used in some of these fittings to optimise flow rates.

All fittings are designed to withstand the operating pressures specified in the standards, in many cases the requirements of the standard are exceeded by a considerable margin.

However, in order to function properly, our fittings must be assembled in strict compliance with our assembly instructions.

1.1.5 Materials

HANSA-FLEX 24° cone connectors are manufactured from cold-drawn or forged materials and conform to the technical conditions of delivery of tube fittings in accordance with DIN 3859-1 and the requirements of ISO 8434-1. All materials are inspected for cracks.

	Component	Designation	Material	Standard
Steel	Straight screw-in fittings	11SMnPb30+C 11SMn30+C C45	1.0718+C 1.0715+C 1.0503	EN 10277 EN 10277 EN 10277
	Connecting and reducing fittings			
	Bulkhead fittings			
	Screw-in sockets			
	Flange fittings			
	Hollow screws			
	Union nuts	11SMnPb30+C 11SMn30+C C10C	1.0718+C 1.0715+C 1.0214	EN 10277 EN 10277 EN 10263
	Angle, T and L screw-in fittings	C22	1.0402	EN 10250
	Banjo fittings	C45	1.0503	EN 10277
	Welded sockets	S355J2G3 Q235A	1.0570	EN 10250-2 GB/T 700
	Cutting rings	Depends on manufacturer's choice		
Stainless steel	Bar stock	X2CrNiMo17-12-2 X6CrNiMoTi 17-12-2	1.4404 1.4571	EN 10088 EN 10088
	Forged blank	X2CrNiMo17-12-2 X6CrNiMoTi 17-12-2 X5CrNiMo17-12-2	1.4404 1.4571 1.4401	EN 10088 EN 10088 EN 10088
Brass		CuZn35Ni2	2.0540	DIN 17660 ISO 17672

Steels of comparable quality may be used depending on availability.

1.1.6 Surface protection

The surfaces of steel fitting bodies, union nuts and cutting rings are protected from corrosion as standard with a zinc-nickel coating conforming to ISO 19589. Articles that are deformed after they have been galvanised have protection against red rust for 1200 h. Articles that are not deformed after they have been galvanised have protection against red rust for 1500 h. The number of hours relates to a salt spray test in accordance with ISO 9227. The surfaces of HANSA-FLEX welded sockets are phosphated and oiled.

1.1.7 Standardisation

HANSA-FLEX tube fittings are components for use in hydraulic connection equipment and are standardised in accordance with DIN 2353 and ISO 8434 Part 1. Their standard designations are often used to order them. The following list shows a selection of the various designations:

HANSA-FLEX designation	Designation in the standard
XVM NW...HL	Tube fitting ISO 8434-1 – SDS – L...xM... – B
XVM NW...HS	Tube fitting ISO 8434-1 – SDS – S...xM... – B
XVR NW...HL	Tube fitting ISO 8434-1 – SDS – L...xG... – B
XVR NW...HS	Tube fitting ISO 8434-1 – SDS – S...xG... – B
XVM NW...HL ED	Tube fitting ISO 8434-1 – SDS – L...xM... – E
XVM NW...HS ED	Tube fitting ISO 8434-1 – SDS – S...xM... – E
XVR NW...HL ED	Tube fitting ISO 8434-1 – SDS – L...xG... – E
XVR NW...HS ED	Tube fitting ISO 8434-1 – SDS – S...xG... – E
XV NW...HL	Tube fitting ISO 8434-1 – S – L...
XV NW...HS	Tube fitting ISO 8434-1 – S – S...
XWM NW...HL	Fitting DIN 2353 – HL...B – St
XWM NW...HS	Fitting DIN 2353 – HS...B – St
XWR NW...HL	Fitting DIN 2353 – JL...B – St
XWR NW...HS	Fitting DIN 2353 – JS...B – St
XW NW...HL	Tube fitting ISO 8434-1 – E – L...
XW NW...HS	Tube fitting ISO 8434-1 – E – S...
XTM NW...HL	Fitting DIN 2353 – OL...B – St
XTM NW...HS	Fitting DIN 2353 – OS...B – St
XTR NW...HL	Fitting DIN 2353 – PL...B – St
XTR NW...HS	Fitting DIN 2353 – PS...B – St

HANSA-FLEX designation	Designation in the standard
XT NW...HL	Tube fitting ISO 8434-1 – T – L... – B
XT NW...HS	Tube fitting ISO 8434-1 – T – S... – B
XSA NW...HS	Tube fitting ISO 8434-1 – WDS – S... – B
XSA NW...HL	Tube fitting ISO 8434-1 – WDS – L... – B
XSV NW...HS	Tube fitting ISO 8434-1 – BH – S... – B
XSV NW...HL	Tube fitting ISO 8434-1 – BH – L... – B
XSW NW...HS	Tube fitting ISO 8434-1 – BHE – S... – B
XSW NW...HL	Tube fitting ISO 8434-1 – BHE – L... – B
XSE NW...HS	Tube fitting ISO 8434-1 – WDBHS – S... – B
XSE NW...HL	Tube fitting ISO 8434-1 – WDBHS – L... – B
UEM NW...L	Tube fitting ISO 8434-1 – N – L...
UEM NW...S	Tube fitting ISO 8434-1 – N – S...
SR D...	Tube fitting ISO 8434-1 – CR – L... – B
SR D...	Tube fitting ISO 8434-1 – CR – S... – B

Standards relevant to tube fittings:

Technical conditions of delivery	DIN 3859
Assembly instructions	ISO 8434-1
Testing	ISO 19879
DIN fittings (24°)	DIN 2353
	ISO 8434-1
Flare fittings (37°)	ISO 8434-2
ORFS fittings	ISO 8434-3
Cutting rings	DIN 3861
	ISO 8434-1
Seamless precision steel tubes	EN 10305-4
Cyl. metric stud ends and ports	DIN 3852-1
	ISO 9974-2
	ISO 6149-1
	ISO 6149-2
	ISO 6149-3

Imperial cyl. stud ends and ports	DIN 3852-2
	DIN 3852-21
	ISO 1179-2
	ISO 1179-3
Conical stud ends and ports with NPT threads	ANSI/ASME B1.20.1
Cyl. stud ends and ports with UN and/or UNF thread	ISO 11926-2
	ISO 11926-3
	SAE J 1926-2
	SAE J 1926-3
	ISO 725
Metric fine threads	DIN 13, T5-T7
Imperial threads	ISO 228-1

The technical conditions of delivery for 24° cone connectors are given in DIN 3859.

1.1.8 Operating temperatures of 24° cone connectors

The materials of HANSA-FLEX 24° cone connectors manufactured out of steel are designed for a temperature range of -40 °C to +200 °C. However, where fittings with additional elastomer seals are used, the temperature resistance of the seal materials must be taken into account.

When fittings made from ordinary or stainless steel are subjected to high operating temperatures, the following pressure reductions must always be observed:

Material	Pressure reductions for permissible operating temperatures [°C]						
Steel	-40 °C	+20 °C	+50 °C	+100 °C	+120 °C	+150 °C	+200 °C
	0 %	0 %	0 %	0 %	0 %	10 %	20 %
Stainless steel	-60 °C	+20 °C	+50 °C	+100 °C	+200 °C	250 °C	+400 °C
	0 %	0 %	4 %	11 %	20 %	20 %	30 %
NBR*	-40 °C	+120 °C					
	0 %	0 %					
FPM*	-15 °C	+200 °C					
	0 %	0 %					

* Temperature information applies only in connection with HANSA-FLEX tube fittings and adapters made from ordinary steel and stainless steel

Example:
Stainless steel fitting
Pressure: 400 bar
Temperature: 200 °C
➜ Pressure reduction of 20 %
➜ Pressure reduction of 80 bar (400 × 20 %)
➜ Operating pressure of the fitting = 400 – 80 = 320 bar

1.1.9 Operating pressure of 24° cone connectors

The HANSA-FLEX range of fittings is divided into three series according to pressure level and application:

LL: very light series
L: light series
S: heavy series

PN is often used when giving information about the operating pressure for fittings. The designation PN is used internationally.

Instead of operating pressure, the term working pressure is also used. The terms operating pressure and working pressure can be used interchangably.

The operating pressures PN given for HANSA-FLEX 24° cone connectors have a safety factor of 4. Flare fittings in accordance with ISO 8434-2 similarly have a safety factor of 4.

It should be noted that this safety factor is contingent on error-free installation of the fitting and correct routing of the tubeline system.

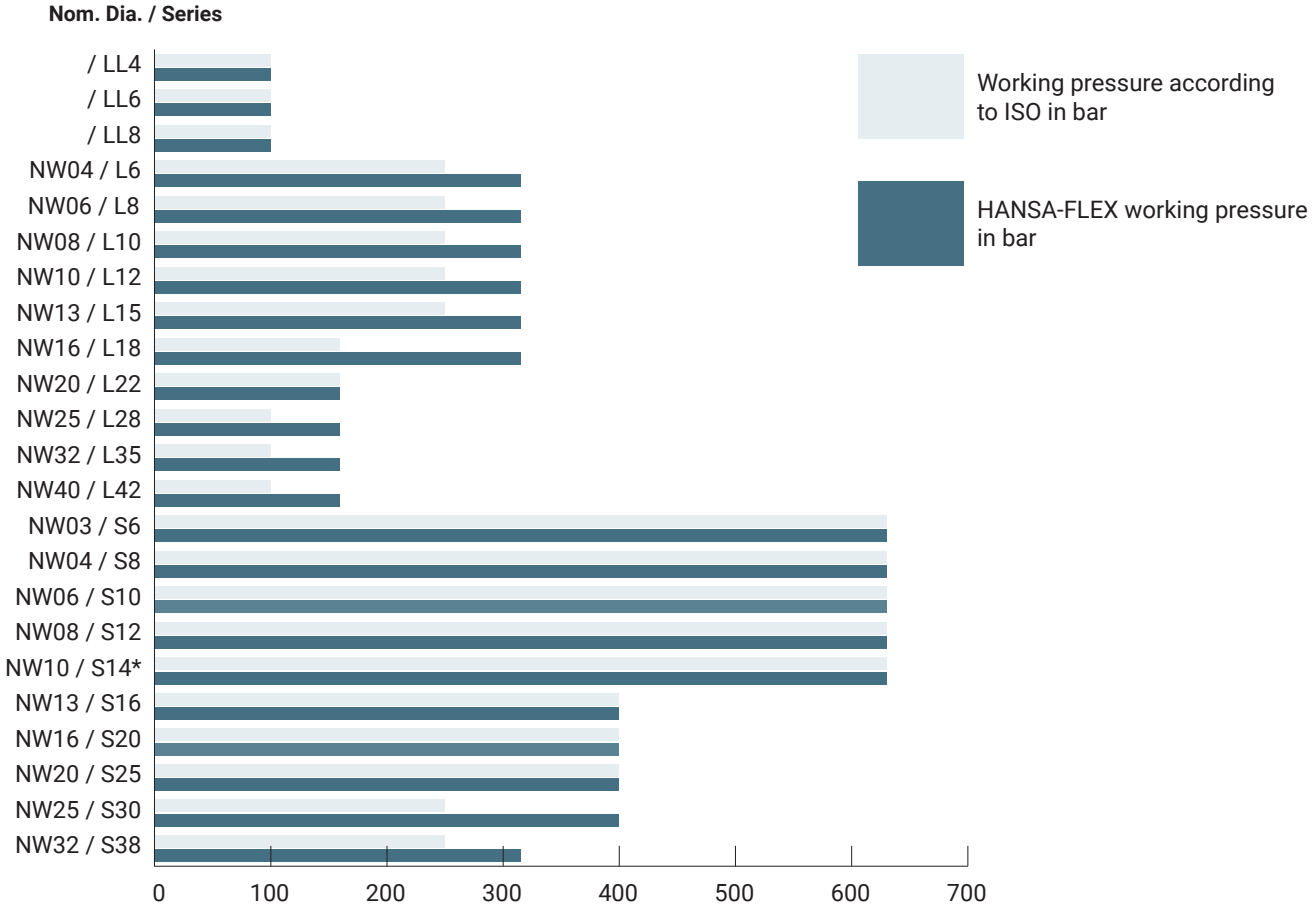
However, HANSA-FLEX 24° cone connectors are designed in such a way that the pressure values required according to ISO 8434-1 for most fittings are exceeded.

The pressure ranges indicated are based on the connector form.

Some of the various screw-in forms may give rise to deviations from the above under certain circumstances. The form with the lowest operating pressure determines the operating pressure for the tube fitting.

If you have any questions, please contact our Technical Department in Bremen.

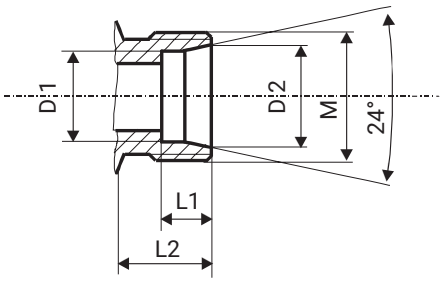
Maximum working pressure of 24° cone connectors



* Size S14 is not standardised

1.1.10 Tube-side connection of 24° cone connectors

The tube-side connection of HANSA-FLEX 24° cone connectors is standardised in accordance with DIN 3861, hole shape W and ISO 8434-1, and thus compatibility with metric fittings for hydraulic hose lines can be guaranteed:

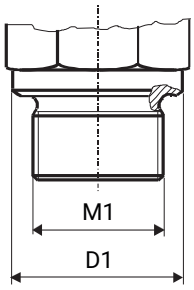


Series	External tube Ø	Nominal pressure PN in bar	M	L1	L2	D1	D2
LL	4	100	M8x1	4	8	4	5
LL	5	100	M10x1	5.5	8	5	6.5
LL	6	100	M10x1	5.5	8	6	7.5
LL	8	100	M12x1	5.5	9	8	9.5
L	6	315	M12x1.5	7	10	6	8.1
L	8	315	M14x1.5	7	10	8	10.1
L	10	315	M16x1.5	7	11	10	12.3
L	12	315	M18x1.5	7	11	12	14.3
L	15	315	M22x1.5	7	12	15	17.3
L	18	315	M26x1.5	7.5	12	18	20.3
L	22	160	M30x2	7.5	14	22	24.3
L	28	160	M35x2	7.5	14	28	30.3
L	35	160	M45x2	10.5	16	35.3	38
L	42	160	M52x2	11	16	42.3	45
S	6	630	M14x1.5	7	12	6	8.1
S	8	630	M16x1.5	7	12	8	10.1
S	10	630	M18x1.5	7.5	12	10	12.3
S	12	630	M20x1.5	7.5	12	12	14.3
S	14	630	M22x1.5	8	14	14	16.3
S	16	400	M24x1.5	8.5	14	16	18.3
S	20	400	M30x2	10.5	16	20	22.9
S	25	400	M36x2	12	18	25	27.9
S	30	400	M42x2	13.5	20	30	33
S	38	315	M52x2	16	22	38.3	41

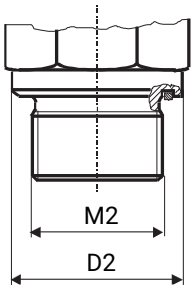
1.2. Stud ends and ports for HANSA-FLEX 24° cone connectors

HANSA-FLEX 24° cone connectors are available with a wide range of standardised screw-in threads, enabling them to be used for an enormous variety of applications.

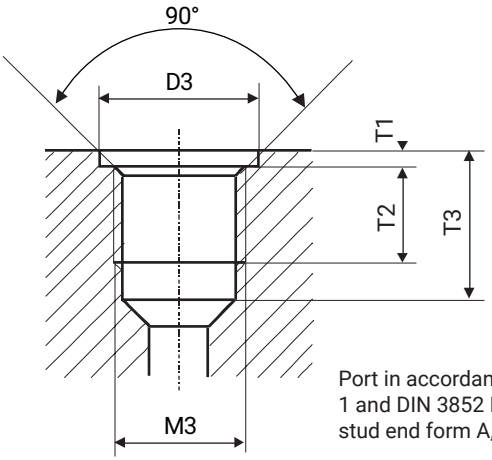
1.2.1 Metric stud ends and ports in accordance with DIN 3852 Part 1, form B, and ISO 9974-2 form E with the associated port form X



DIN 3852 Part 1 form B and ISO 9974-3 sealing by sealing edge



ISO 9974-2 form E sealing by elastomer seal

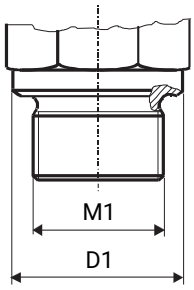


Port in accordance with ISO 9974-1 and DIN 3852 Part 1, form X for stud end form A, B, and E

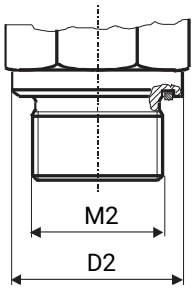
Series	External tube Ø	M1/M2	M3	D1	D2	D3	T1	T2	T3
LL	4	M8x1	M8x1	12	-	13	1	8	13.5
LL	6	M10x1	M10x1	14	13.9	15	1	8	13.5
LL	8	M10x1	M10x1	14	13.9	15	1	8	13.5
L	6	M10x1	M10x1	14	13.9	15	1	8	13.5
L	8	M12x1.5	M12x1.5	17	16.9	18	1.5	12	18.5
L	10	M14x1.5	M14x1.5	19	18.9	20	1.5	14	18.5
L	12	M16x1.5	M16x1.5	21	21.9	23	1.5	12	18.5
L	15	M18x1.5	M18x1.5	23	23.9	25	2	12	18.5
L	18	M22x1.5	M22x1.5	27	26.9	28	2.5	14	20.5
L	22	M26x1.5	M26x1.5	31	31.9	33	2.5	16	22.5
L	28	M33x2	M33x2	39	39.9	41	2.5	18	26
L	35	M42x2	M42x2	49	49.9	51	2.5	20	28
L	42	M48x2	M48x2	55	54.9	56	2.5	22	30
S	6	M12x1.5	M12x1.5	17	16.9	18	1.5	12	18.5
S	8	M14x1.5	M14x1.5	19	18.9	20	1.5	12	18.5
S	10	M16x1.5	M16x1.5	21	21.9	23	1.5	12	18.5
S	12	M18x1.5	M18x1.5	23	23.9	25	2	12	18.5
S	14	M20x1.5	M20x1.5	25	25.9	27	2	14	20.5
S	16	M22x1.5	M22x1.5	27	26.9	28	2.5	14	20.5
S	20	M27x2	M27x2	32	31.9	33	2.5	16	24
S	25	M33x2	M33x2	39	39.9	41	2.5	18	26
S	30	M42x2	M42x2	49	49.9	51	2.5	20	28
S	38	M48x2	M48x2	55	54.9	56	2.5	22	30

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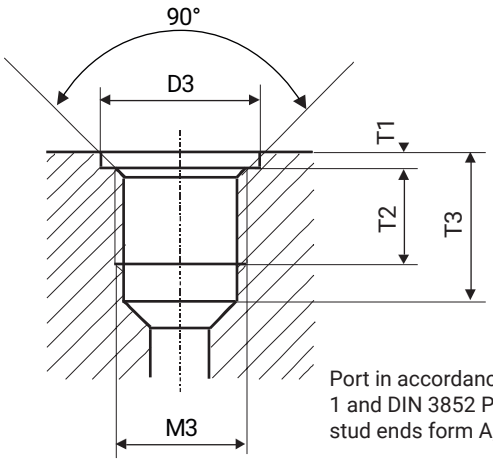
1.2.2 Imperial stud ends and ports according to DIN 3852 Part 2 ISO 9974-3 form B, and ISO 1179-2 form E with the associated port form X



DIN 3852 Part 2 form B and ISO 9974-3 sealing by sealing edge



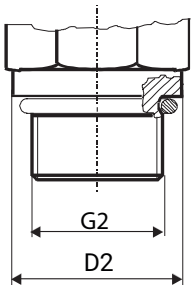
ISO 1179-2 form E sealing by elastomer seal



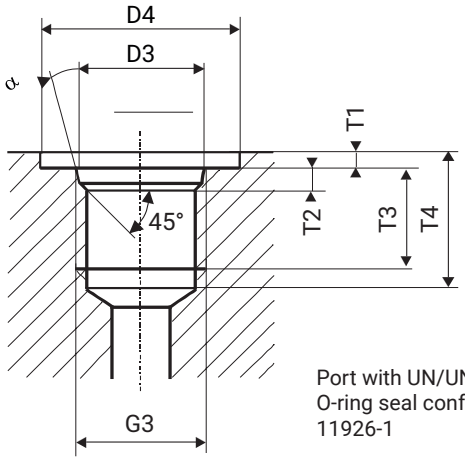
Port in accordance with ISO 9974-1 and DIN 3852 Part 2, form X for stud ends form A, B, and E

Series	External tube Ø	G1/G2	G3	D1	D2	D3	T1	T2	T3
LL	4	G 1/8"A	G 1/8"	14	13.9	15	1	8	13
LL	6	G 1/8"A	G 1/8"	14	13.9	15	1	8	13
LL	8	G 1/8"A	G 1/8"	14	13.9	15	1	8	13
L	6	G 1/8"A	G 1/8"	14	13.9	15	1	8	13
L	8	G ¼"A	G ¼"	18	18.9	20	1.5	12	18.5
L	10	G ¼"A	G ¼"	18	18.9	20	1.5	12	18.5
L	12	G 3/8"A	G 3/8"	22	21.9	23	2	12	18.5
L	15	G ½"A	G ½"	26	26.9	28	2.5	14	22
L	18	G ½"A	G ½"	26	26.9	28	2.5	14	22
L	22	G 3/4"A	G 3/4"	32	31.9	33	2.5	16	24
L	28	G 1"A	G 1"	39	39.9	41	2.5	18	27
L	35	G 1 ¼"A	G 1 ¼"	49	49.9	51	2.5	20	29
L	42	G 11/2"A	G 11/2"	55	54.9	56	2.5	22	31
S	6	G ¼"A	G ¼"	18	18.9	20	1.5	12	18.5
S	8	G ¼"A	G ¼"	18	18.9	20	1.5	12	18.5
S	10	G 3/8"A	G 3/8"	22	21.9	23	2	12	18.5
S	12	G 3/8"A	G 3/8"	22	21.9	23	2	12	18.5
S	14	G ½"A	G ½"	26	26.9	28	2.5	14	22
S	16	G ½"A	G ½"	26	26.9	28	2.5	14	22
S	20	G 3/4"A	G 3/4"	32	31.9	33	2.5	16	24
S	25	G 1"A	G 1"	39	39.9	41	2.5	18	27
S	30	G 1 ¼"A	G 1 ¼"	49	49.9	51	2.5	20	29
S	38	G 11/2"A	G 11/2"	55	54.9	56	2.5	22	31

1.2.3 Stud ends and ports for tube fittings with cylindrical US threaded connections conforming to ISO 11926-2/3



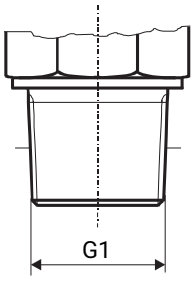
Stud end with UN-UNF-2A thread and O-ring seal conforming to ISO 11926-2 and 3



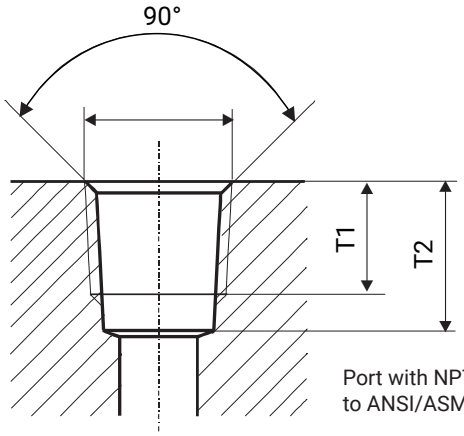
Port with UN/UNF 2B thread for O-ring seal conforming to ISO 11926-1

Series	External tube Ø	G2/G3	D2	D3	D4	T1	T2	T3	T4	α	O-ring
L	6, 8, 10	7/16"-20 UNF	16	12.4	21	1.6	2.4	11.5	14	12°	8.92 x 1.83
L	8	1/2"-20 UNF	17	14	23	1.6	2.4	11.5	14	12°	10.52 x 1.83
L	6, 10, 12	9/16"-18 UNF	17.6	15.6	25	1.6	2.5	12.7	15.5	12°	11.89 x 1.98
L	12, 15, 18	3/4"-16 UNF	22.3	20.6	30	2.4	2.5	14.3	17.5	15°	16.36 x 2.2
L	12, 18, 22	7/8"-14 UNF	25.5	23.9	34	2.4	2.5	16.7	20	15°	19.18 x 2.46
L	22, 28	1 1/16"-12 UN	31.9	29.2	41	2.4	3.3	19	23	15°	23.47 x 2.95
L	22, 28, 35	1 5/16"-12 UN	38.2	35.5	49	3.2	3.3	19	23	15°	29.74 x 2.95
L	35, 42	1 5/8"-12 UN	48	43.5	58	3.2	3.3	19	23	15°	37.47 x 3
L	42	1 7/8"-12 UN	55	49.8	65	3.2	3.3	19	23	15°	43.69 x 3
S	6, 8	7/16"-20 UNF	16	12.4	21	1.6	2.4	11.5	14	15°	8.92 x 1.83
S	6	1/2"-20 UNF	17	14	23	1.6	2.4	11.5	14	15°	10.52 x 1.83
S	10, 12	9/16"-18 UNF	17.6	15.6	25	1.6	2.5	12.7	15.5	15°	11.89 x 1.98
S	12, 14	3/4"-16 UNF	22.3	20.6	30	2.4	2.5	14.3	17.5	15°	16.36 x 2.2
S	16, 20	3/4"-16 UNF	22.3	20.6	30	2.4	2.5	14.3	17.5	15°	16.36 x 2.2
S	16, 20	7/8"-14 UNF	25.5	23.9	34	2.4	2.5	16.7	20	15°	19.18 x 2.46
S	20, 25	1 1/16"-12 UN	31.9	29.2	41	2.4	3.3	19	23	15°	23.47 x 2.95
S	25, 30	1 5/16"-12 UN	38.2	35.5	49	3.2	3.3	19	23	15°	29.74 x 2.95
S	30, 38	1 5/8"-12 UN	48	43.5	58	3.2	3.3	19	23	15°	37.47 x 3
S	38	1 7/8"-12 UN	55	49.8	65	3.2	3.3	19	23	15°	43.69 x 3

1.2.4 Stud ends and ports for tube fittings with NPT thread conforming to ANSI/ ASME B1.20.1



Stud end with NPT screw-in thread conforming to ANSI/ ASME B1.20.1



Port with NPT thread conforming to ANSI/ASME B1.20.1

Series	External tube Ø	G1/G2	T1	T2
L	6	1/8"-27 NPT	6.9	11.6
L	8	1/4"-18 NPT	10	16.4
L	10	1/4"-18 NPT	10	16.4
L	12	3/8"-18 NPT	10.3	17.4
L	15	½"-14 NPT	13.6	22.6
L	18	½"-14 NPT	13.6	22.6
L	22	3/4"-14 NPT	14.1	23.1
L	28	1"-11.5 NPT	16.8	27.8
L	35	1 1/4"-11.5 NPT	17.3	28.3
L	42	1 1/2"-11.5 NPT	17.3	28.3
S	6	1/4"-18 NPT	10	16.4
S	8	1/4"-18 NPT	10	16.4
S	10	3/8"-18 NPT	10.3	17.4
S	12	3/8"-18 NPT	10.3	17.4
S	14	½"-14 NPT	13.6	22.6
S	16	½"-14 NPT	13.6	22.6
S	20	3/4"-14 NPT	14.1	23.1
S	25	1"-11.5 NPT	16.8	27.8
S	30	1 1/4"-11.5 NPT	17.3	28.3
S	38	1 1/2"-11.5 NPT	17.3	28.3

1.3 Tightening torques for HANSA-FLEX 24° cone connectors with stud ends

The tightening torques in the following table apply to stud ends for fittings, blanking screws, and to banjo fittings made from stainless steel and ordinary steel with a HANSA-FLEX zinc nickel coating and to counter-bodies made from the same material.

We recommend reducing the torque by at least 30 % when installing fittings into aluminium bodies.

In order to achieve an optimum seal, conical screw-in threads must be provided with an additional sealing means, e.g. PTFE tape.

Series	Thread	Tightening torque in Nm ISO 1179-2 form E (elastomer soft seal (ED))	Tightening torque in Nm ISO 1179-4 form B (metal sealing edge)	Tightening torque in Nm ISO 1179-3 form G, H (O-ring retaining ring)	Tightening torque in Nm for screw plugs	Tightening torque in Nm for banjo fittings
L	G 1/8"	20	20	25	12	25
L	G 1/4"	50	40	50	18	40
L	G 3/8"	80	80	80	40	80
L	G 1/2"	100	150	105	75	120
L	G 3/4"	200	200	220	110	180
L	G 1"	380	380	370	190	300
L	G 1 1/4"	500	600	500	240	300
L	G 1 1/2"	600	700	600	300	600
S	G 1/8"				12	25
S	G 1/4"	60	60		18	40
S	G 3/8"	90	100		40	80
S	G 1/2"	130	170		75	120
S	G 3/4"	200	320		110	180
S	G 1"	380	380		190	300
S	G 1 1/4"	500	600		240	300
S	G 1 1/2"	600	800		300	600

NOTE: Tightening torques for assembly depend on many factors, including lubrication, coatings and surface treatments.

Series	Thread	Tightening torque in Nm ISO 9974-2 form E (elastomer soft seal (ED))	Tightening torque in Nm ISO 9974-3 form B (metal sealing edge)	Tightening torque in Nm ISO 6149-3 (O-ring seal)	Tightening torque in Nm ISO 6149-2 (O-ring seal)	Tightening torque in Nm for screw plugs	Tightening torque in Nm for banjo fittings
L	M8x1			8			
L	M10x1	20	20	15		12	25
L	M12x1.5	30	30	25		18	30
L	M14x1.5	50	50	35		20	50
L	M16x1.5	60	70	40		35	60
L	M18x1.5	80	90	45		50	70
L	M22x1.5	140	150	60		70	130
L	M26x1.5	200	210			85	140
L	M27x2			100			
L	M33x2	380	380	160		150	280
L	M42x2	500	550	210		260	280
L	M48x2	600	700	260		350	500
L	M60x2			315			
S	M8x1				10		
S	M10x1				20	12	25
S	M12x1.5	45	45		35	18	30
S	M14x1.5	60	60		45	20	50
S	M16x1.5	80	90		55	35	60
S	M18x1.5	100	120		70	50	70
S	M20x1.5	140	170		80	60	110
S	M22x1.5	150	190		100	70	130
S	M26x1.5					85	140
S	M27x2	200	320		170	100	150
S	M30x2				215		
S	M33x2	380	450		310	150	280
S	M42x2	500	600		330	260	280
S	M48x2	600	800		420	350	500
S	M60x2				500		

NOTE: Tightening torques for assembly depend on many factors, including lubrication, coatings and surface treatments.

Series	Thread	Tightening torque in Nm ISO 11926-2 (O-ring seal)	Tightening torque in Nm ISO 11926-3 (O-ring seal)
L	3/8-24 UNF	10	
L	7/16-20 UNF	18	
L	1/2-20 UNF	25	
L	9/16-18 UNF	30	
L	3/4-16 UNF	50	
L	7/8-14 UNF	60	
L	1 1/16-12 UN	95	
L	1 3/16-12 UN	125	
L	1 5/16-12 UN	150	
L	1 5/8-12 UN	200	
L	1 7/8-12 UN	210	
L	2 1/2-12 UN	300	
S	3/8-24 UNF		10
S	7/16-20 UNF		20
S	1/2-20 UNF		25
S	9/16-18 UNF		35
S	3/4-16 UNF		70
S	7/8-14 UNF		100
S	1 1/16-12 UN		170
S	1 3/16-12 UN		215
S	1 5/16-12 UN		270
S	1 5/8-12 UN		285
S	1 7/8-12 UN		370

NOTE: Tightening torques for assembly depend on many factors, including lubrication, coatings and surface treatments.

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CAUTION
Hydraulic lines are capable of causing serious personal injury and environmental damage, but this danger is very often underestimated in practice. Incorrect assembly or improper use of fittings, tubes, and accessories can compromise the product's functional reliability, causing it to fail and possibly pose a threat to people and equipment. In extreme cases, violently spraying oil and ruptured lines can even cause fatal injuries. We therefore strongly recommend that these assembly instructions be strictly followed!

Machinery manufacturers and operators must also fulfil additional obligations.
They are responsible for:

- ensuring that tubelines and fittings are used in compliance with the respective specifications
- ensuring scheduled monitoring and systematic inspections by authorised personnel with the appropriate qualification and knowledge of hose line equipment
- detecting and eliminating defects

This active assumption of responsibility is documented in the legal framework. Tasks are specified further and set out in procedural regulations for those concerned based on the principles of industrial safety, the equipment and product safety act, the machine and pressure device directive and the ordinance on industrial safety and health.

This guide supplements the pertinent standards, guidelines and regulations. It also reflects the current state of the art. No claims are made regarding completeness.

All tools and materials must be checked before each assembly procedure to ensure that they are in good condition.

For full assembly with cutting ring in a pre-assembly socket, always use pre-assembly sockets that have a corresponding depth dimension T!



	T mm ± 0.05		T mm ± 0.05
VOM NW04 HL	7.00	VOM NW03 HS	7.00
VOM NW06 HL	7.00	VOM NW04 HS	7.00
VOM NW08 HL	7.00	VOM NW06 HS	7.50
VOM NW10 HL	7.00	VOM NW08 HS	7.50
VOM NW13 HL	7.00	VOM NW10 HS	8.00
VOM NW16 HL	7.50	VOM NW13 HS	8.50
VOM NW20 HL	7.50	VOM NW16 HS	10.50
VOM NW25 HL	7.50	VOM NW20 HS	12.00
VOM NW32 HL	10.50	VOM NW25 HS	13.50
VOM NW40 HL	11.00	VOM NW32 HS	16.00

LL series tolerances match those of the L series

- Tubes must be cut to size at right angles ±0.5° before all tube fitting operations. Tube cutters or angle grinders may not be used for this purpose.
- Lightly deburr the inside and outside of the tube.
- After deburring, clean the tubes.
- Use reinforcing sleeves for thin-walled tubes.
- Markings (position of the nut) make it easier to determine the number of turns for assembly path-dependent tightening.
- If necessary, use appropriate spanner extensions.

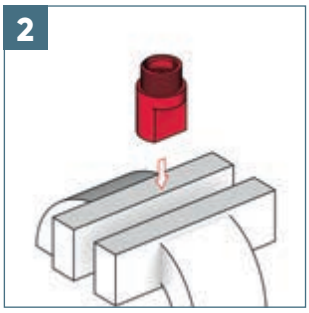
2.1 Assembly with steel cutting ring

2.1.1 Full assembly with cutting ring in hardened pre-assembly socket

This instruction describes the full assembly of a cutting ring (SRD) on the tube in a pre-assembly socket (VOMNW…). This is not pre-assembly!



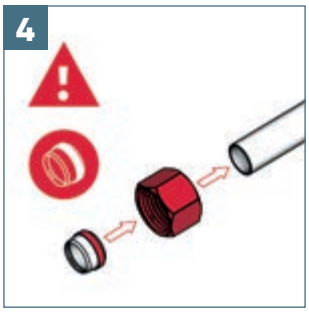
Cut the tube to length at a right angle, deburr and clean.



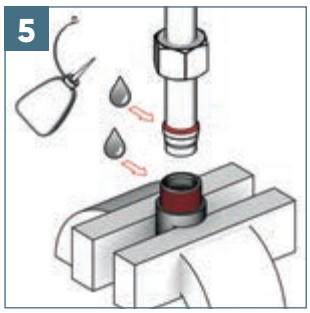
Clamp the pre-assembly socket.



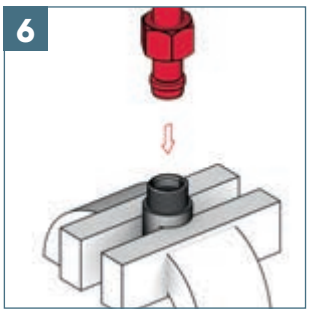
Lightly oil the union nut (thread) and cutting ring.



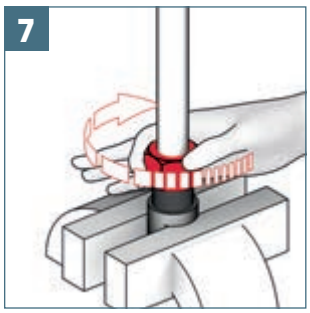
Slide the union nut and cutting ring onto the tube.



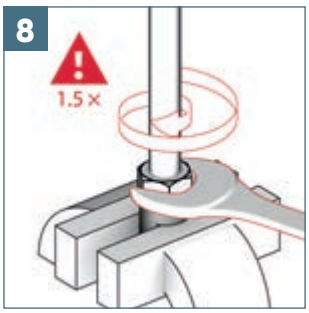
Lightly oil the pre-assembly socket and cutting ring edge.



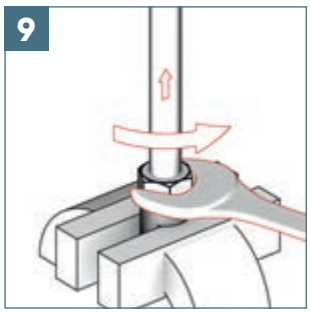
Push the tube into the pre-assembly socket as far as it will go.



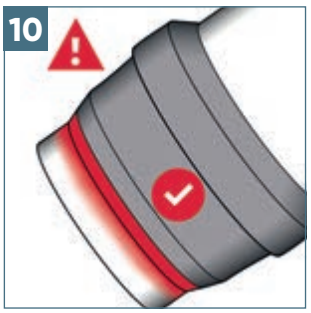
Tighten the union nut until there is a noticeable increase in the force required to turn it.



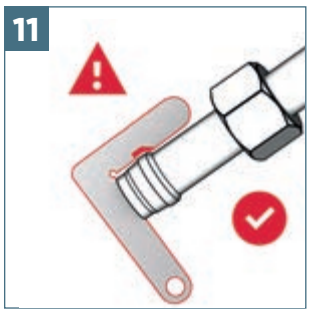
Tighten union nut 1.5 turns (full assembly).



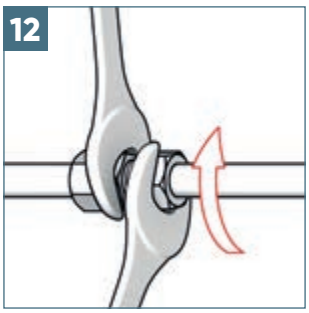
Release union nut, remove tube.



Check the cutting ring for correct seating and shoulder protrusion (the front cutting edge must be evenly and fully covered).



Check cutting ring for correct seating using the cutting ring gauge (SRD LEHRE).

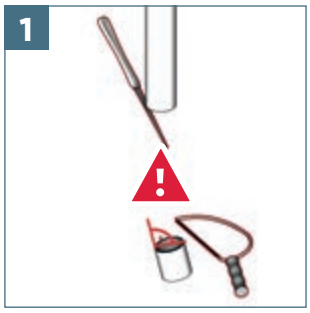


Recomplete assembly using ¼ turn after there is a noticeable increase in the force required to turn the union nut.

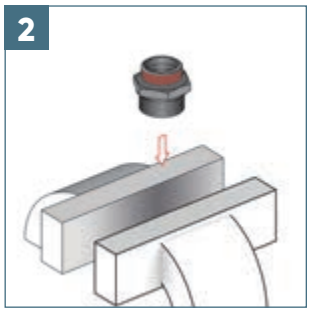
The cones of the pre-assembly socket are subject to normal wear and must be checked at regular intervals with taper gauges.

2.1.2 Full assembly with cutting ring in threaded connector

This instruction describes the full assembly of a cutting ring (SRD) on the tube in a threaded connector. This is not pre-assembly!



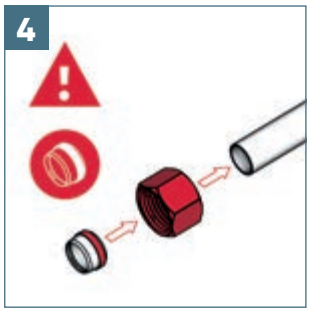
Cut the tube to length at a right angle, deburr and clean.



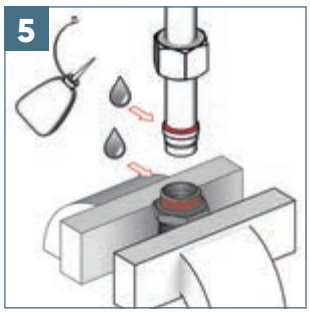
Clamp the threaded connector.



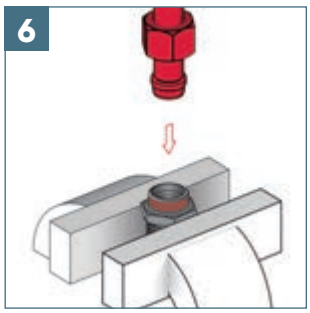
Lightly oil the union nut (thread) and cutting ring.



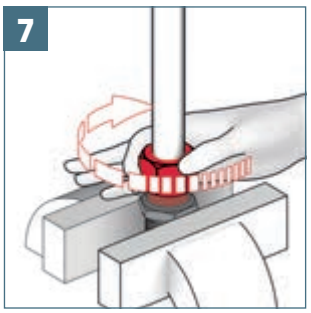
Slide the union nut and cutting ring onto the tube.



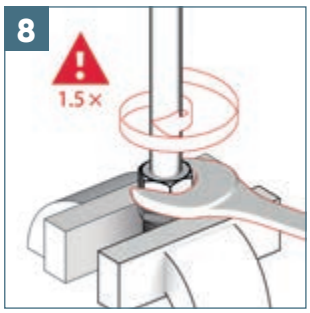
Lightly oil the threaded connector and cutting ring edge.



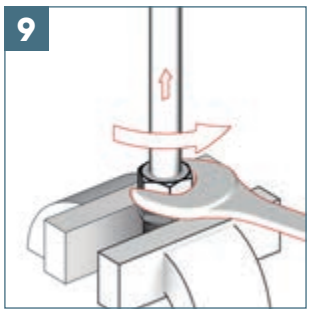
Push the tube into the threaded connector as far as it will go.



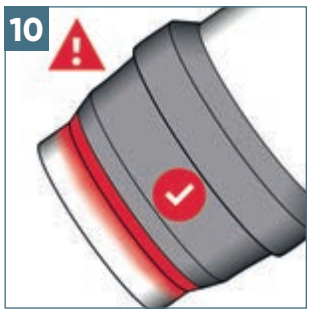
Tighten the union nut until there is a noticeable increase in the force required to turn it.



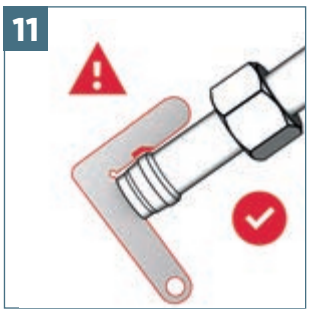
Tighten union nut 1.5 turns (full assembly).



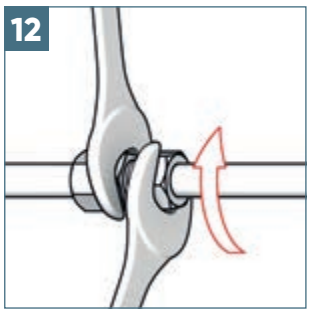
Release union nut, remove tube.



Check the cutting ring for correct seating and shoulder protrusion (the front cutting edge must be evenly and fully covered).



Check cutting ring for correct seating using the cutting ring gauge (SRD LEHRE).



Recomplete assembly using ¼ turn after there is a noticeable increase in the force required to turn the union nut.

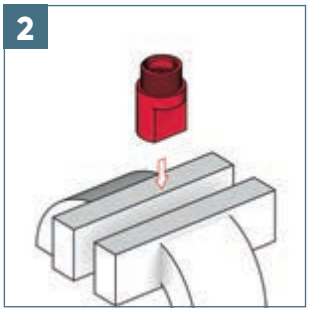
Each threaded connector must be used only once to assemble a cutting ring on the tube; using the same threaded connector again may impair its function. For tubes with a diameter greater than 30 mm, we recommend assembling in a bench vice.

2.1.3 Pre-assembly in assembly socket or threaded connector

This instruction describes the pre-assembly of a cutting ring (SRD) on the tube in a threaded connector or pre-assembly socket.



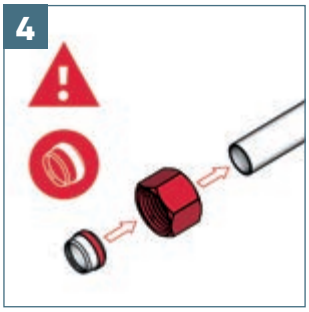
Cut the tube to length at a right angle, deburr and clean.



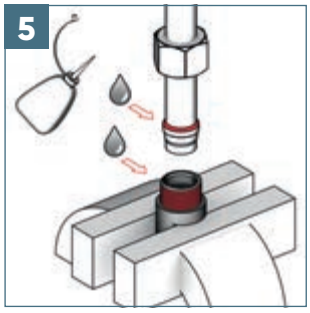
Clamp the pre-assembly socket.



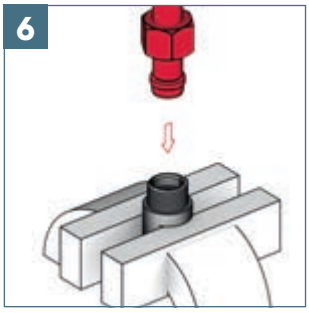
Lightly oil the union nut (thread) and cutting ring.



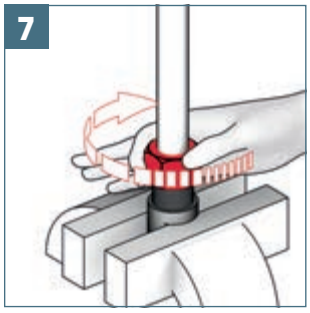
Slide the union nut and cutting ring onto the tube.



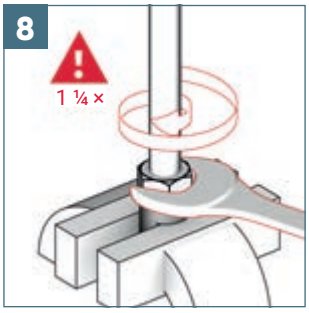
Lightly oil the pre-assembly socket and cutting ring edge.



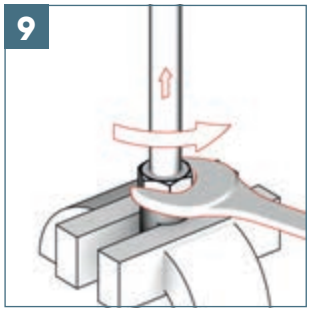
Push the tube into the pre-assembly socket as far as it will go.



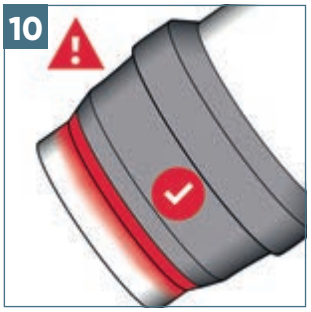
Tighten the union nut until there is a noticeable increase in the force required to turn it.



Tighten union nut 1 ¼ turn.



Release union nut, remove tube.



Check cutting ring for correct seating and shoulder protrusion (approximately 80% of the front cutting edge covered).

Disassemble the tube and check that there is a clearly visible shoulder of cut material in front of the first (front) cutting edge. In this situation, the cutting ring may rotate, but must not move axially.

2.1.4. Finishing assembly of manufacturer-assembled fittings and tubelines in a threaded connector

- In these fittings and tubelines, the cutting ring has been pre-assembled by the manufacturer.
- Check that the cutting ring is positioned and seated correctly, and that the shoulder of the cut material is present.
- Oil the thread of the union nut, the cutting ring and the threaded connector thread.
- Tighten the union nut until there is a noticeable increase in the force* required to turn it.
- Tighten union nut by 1/4 turn, bracing the threaded connector with a spanner.



Recomplete assembly using ¼ turn after there is a noticeable increase in the force required to turn the union nut.

We recommend switching to HANSA-FLEX 24° sealing cone fittings.

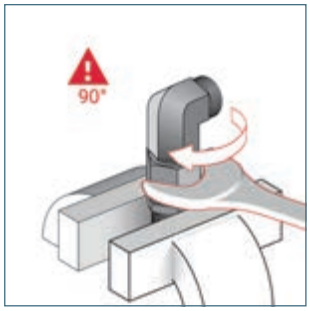
*** Definition of "noticeable increase in force"**

Tighten the union nut until the point at which it becomes noticeably more difficult to turn it. At this point, for example, the resistance due to minor damage on the thread caused by the union nut snagging slightly must be overcome.

2.2 24° sealing cone fittings

2.2.1 Assembling 24° sealing cone fittings (AOL/AOS)

- Lightly oil the cone of the threaded connector and the thread of the union nut.
- Place the screw fitting component (sealing cone) evenly on the fitting.
- Tighten the union nut of the sealing cone fitting onto the fitting body until there is a noticeable increase in the force* required to turn it.
- Turn the union nut of the sealing cone fitting a further 30° to 60° but no more than ¼ turn (90°) with the spanner (tighten / tighten fully).



Recomplete assembly using max. ¼ turn after there is a noticeable increase in the force required to turn the union nut.

*** Definition of "noticeable increase in force"**

Tighten the union nut until the point at which it becomes noticeably more difficult to turn it. At this point, for example, the resistance due to minor damage on the thread caused by the union nut snagging slightly must be overcome.

With sealing cone fittings with O-ring (AOL / AOS), the pre-tensioning of the O-ring must be bridged and the sealing cone must lie metallically flush against the cone of the HL/HS connector.

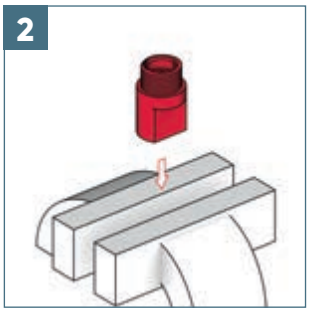
2.3 Assembly with stainless steel cutting ring (VA)

2.3.1 Assembly in hardened pre-assembly socket (VOMNW...)

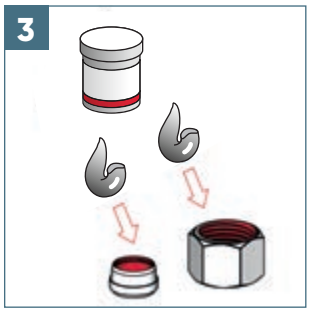
This instruction describes the pre-assembly of a cutting ring (SRD...VA) on the stainless steel tube in the pre-assembly socket and the finishing assembly of the cutting ring in the threaded connector.



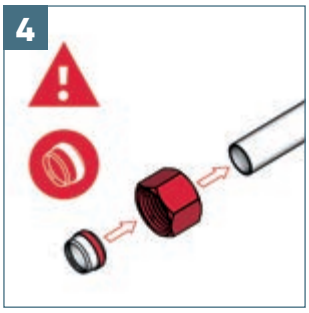
Cut the tube to length at a right angle, deburr and clean.



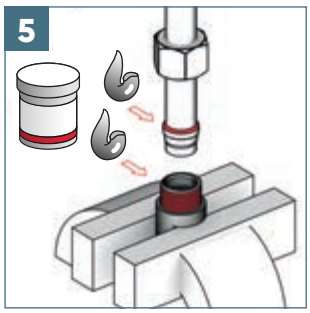
Clamp the pre-assembly socket.



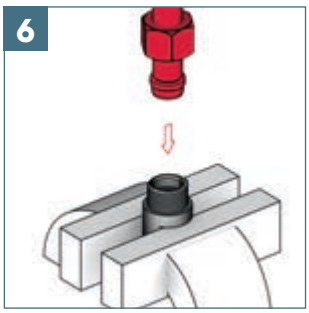
Lightly grease the union nut (thread) and cutting ring.



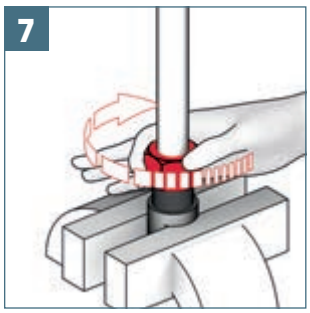
Slide the union nut and cutting ring onto the tube.



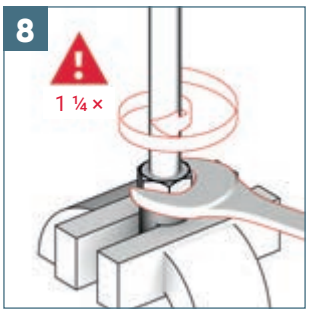
Lightly grease the pre-assembly socket and cutting ring edge.



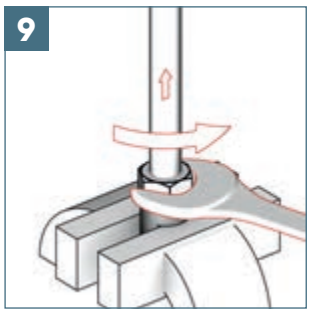
Push the tube into the pre-assembly socket as far as it will go.



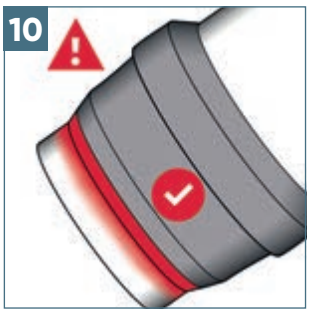
Tighten the union nut until there is a noticeable increase in the force required to turn it.



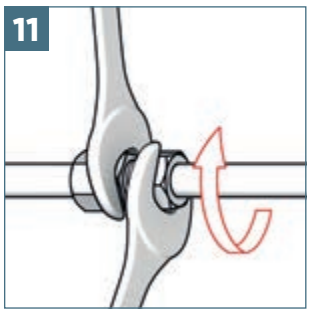
Tighten union nut 1 ¼ turn.



Release union nut, remove tube.



Check cutting ring for correct seating and shoulder protrusion (approximately 80% of the front cutting edge covered).



Recomplete assembly using ½ turn after there is a noticeable increase in the force required to turn the union nut.

The cones of the pre-assembly socket are subject to normal wear and must be checked at regular intervals with taper gauges. Each threaded connector must be used only once for the finishing assembly on the tube; using the same connector again may impair its function.

It is not permitted to carry out pre-assembly in the threaded connector!

2.3.2 Finishing assembly of manufacturer-assembled stainless steel fittings and tubelines in threaded connectors

- In these fittings and tubelines, the cutting ring has been pre-assembled by the manufacturer.
- Check that the cutting ring is positioned and seated correctly, and that the shoulder of cut material is present.
- Grease the thread of the union nut, the cutting ring and the thread of the threaded connector with HANSA-FLEX assembly paste.
- Tighten the union nut until there is a noticeable increase in the force* required to turn it.
- Tighten union nut about 1/2 turn, bracing the threaded connector with a spanner.

We recommend switching to HANSA-FLEX sealing cone fittings.

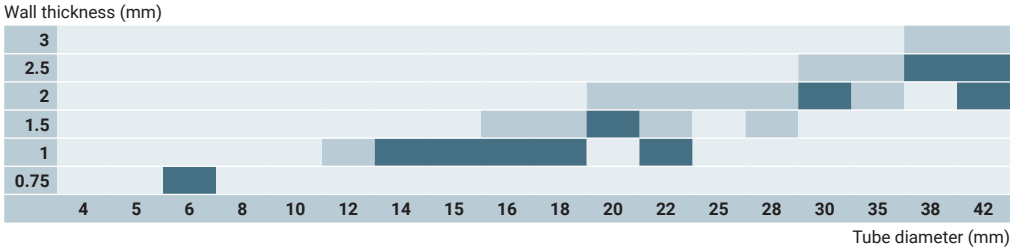


Recomplete assembly using ½ turn after there is a noticeable increase in the force required to turn the union nut.

2.4 Reinforcing sleeves

2.4.1. Correct selection of reinforcing sleeves for thin-walled tubes made from steel and stainless steel

HANSA-FLEX designation VSH..ID
VSH..IDVA

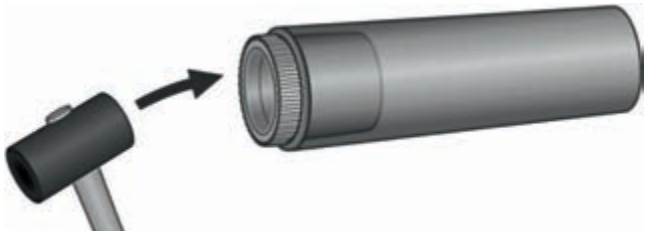


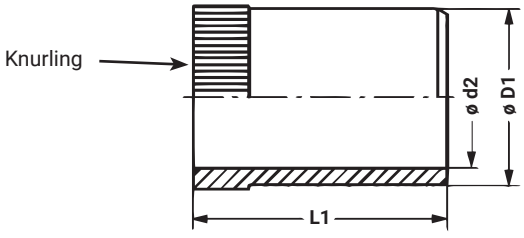
= Use reinforcing sleeves

= Use reinforcing sleeves in the case of vibration, oscillations and when the connection is to be disconnected frequently (harsh operating conditions)

Reinforcing sleeves must be inserted into the tube before cutting ring assembly in all cases.

The unknurled end of the reinforcing sleeve is first inserted and driven in with a soft-faced hammer. After driving in, the end of the reinforcing sleeve must be flush with the end of the tube.

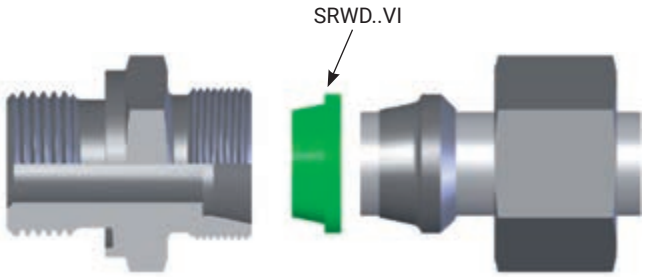




It is not permitted to assemble reinforcing sleeves later!

2.5 SRWD..VI soft seal

2.5.1 Assembling the SRWD..VI soft seal



The SRWD..VI soft seal cannot be assembled unless the cutting ring has already been assembled correctly.

- Disassemble the tube and check that there is a clearly visible shoulder of cut material in front of the first (front) cutting edge.
- Slide the SRWD..VI soft seal over the cutting ring.
- Tighten the union nut on the screw fitting until there is a noticeable increase in the force* required to turn it.



a) **Full assembly with cutting ring:** Turn the union nut of the fitting or tube about 30° to 60° further with the spanner (tighten / tighten fully).

b) **Pre-assembled cutting ring:** Turn the union nut of the threaded connection or tube ¼ turn further with the spanner on pre-assembled cutting rings.

We recommend replacing the SRWD..VI soft seal whenever the connection is disassembled and re-assembled.

Using a longer or shorter assembly path for the cutting rings and tube fittings reduces the pressure load capacity and service life of the connections and fittings.

As a result, the cutting ring could slip off and leaks occur!

3. Connection Technology: Technical Information for Adapters

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Introduction

Adapters are required when hydraulic components with different connections need to be reliably joined in mobile or industrial hydraulics. Adapters create a reliable, sealed transition between different connector types and enable the cost-effective adaptation of hydraulic components of different designs or from different manufacturers.

The available adapter variants can be used in connections involving NPT, UNF, UNS, JIC, BSP and metric threads.

3.1 Adapters

3.1.1 General information

The adapters included in our catalogue are intended for applications in hydraulic connection equipment.

The HANSA-FLEX adapter product line includes a large number of adapter types that go beyond the variants given in the standards. In these special forms, e.g. adapters available in a series of sizes which reduce or step-down hose or tubeline diameters, the connector dimensions have been adapted to the pertinent standard, so that they can be replaced at any time. Stepped bores are used in some of these fittings to optimise flow rates.

For information about surface protection, operating temperatures and materials, please refer to the relevant sections in Technical information Connection technology Tube fittings.

3.1.2 Standardisation

HANSA-FLEX adapters comply with the following standards (among others):
- ISO 8434-2: Metallic tube connections for fluid power and general use – Part 2: 37° flared connectors
- ISO 8434-3: Metallic tube connections for fluid power and general use – Part 3: O-ring face seal connectors
- ISO 8434-6: Metallic tube connections for fluid power and general use – Part 6: 60° cone connectors with or without O-ring
- SAE J 514: Hydraulic Tube Fittings.
- JIS B 8363: 60° end fittings and adapters for hydraulic hose assemblies

3.2 HANSA-FLEX adapter designations

The designation of HANSA-FLEX adapters generally follows the logic set out below:
- If there is a screw-in thread / stud end, it is always named before the connection side.
- An “A” in the designation of a connection side means an internal (female) thread.
- An “H” in the designation of a connection side means an external (male) thread.
- A connection side designated with an “I” always indicates an internal thread (no nut).
- The size reference of HANSA-FLEX adapters relates to the connection and is given in the "Size" value.
- The reference of the metric stud ends is given in the thread value.
  Example:
  W90HMOK16HJ08
  => HMOK16 = M16x1.5
  => HJ08 Size 08

The designation variants listed under points 3.2.1 to 3.2.6.1 are only a selection from the HANSA-FLEX adapter range. You can find other variants in our catalogues – or ask us specifically about the article you require.

3.2.1 Construction – designation variants

HANSA-FLEX designation	Meaning
G	Straight connecting socket
GE	Straight screw-in socket
SV	Straight bulkhead connecting socket
W 45	45° connecting socket
SW 45	45° bulkhead connecting socket
W 90	90° connecting socket
SW 90	90° bulkhead connecting socket
W B	90° tube bend

HANSA-FLEX designation	Meaning
T	Connecting socket, T form
S T	Bulkhead socket, T form
L	Socket, L form
S L	Bulkhead socket, L form
K	Socket, cruciform
VERSCHLUSS	Blanking plug, socket, nut
UEM	Union nut
Stützring	Support sleeve, ring

3.2.2 Connection form / stud end – designation variants

HANSA-FLEX designation	Meaning
H	Metric external thread (male) with 60° cone
M	Metric external thread (male) with sealing edge
AB	Union nut (female) with BSPP thread and 60° cone
HB	BSPP external thread (male) and 60° cone
AJ	Union nut (female) with UNF thread (JIC) 37° cone
HJ	UNF external thread (male) (JIC) 37° cone
AN	Union nut (female) with NPSM thread
HN	NPT/F screw-in thread (male)
AJF	Union nut (female) ORFS flat sealing
HJOF	UNF external thread (male) with ORFS sealing surface (flat sealing with O-ring fitted into the sealing surface)
HRO	BSPP screw-in thread with O-ring seal

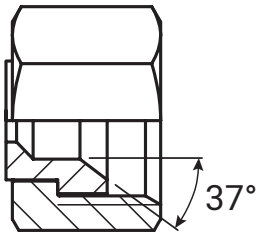
HANSA-FLEX designation	Meaning
HROK	BSPP screw-in thread with retaining ring, O-ring seal
HRED	BSPP stud end in accordance with ISO 1179-2 form E and elastomer seal (WD)
HRK	Tapered BSPT screw-in thread
HMO	Metric screw-in thread with O-ring seal
HMOK	Metric screw-in thread with retaining ring, O-ring seal
HMED	Metric screw-in thread in accordance with ISO 9974-2 form E and elastomer seal (WD)
GE O	UNF / UN screw-in thread ISO 11926-2 with O-ring
IN	NPT internal thread
IR	BSPP internal thread

3.2.3 HANSA-FLEX AJ/HJ (ISO 8434-2)

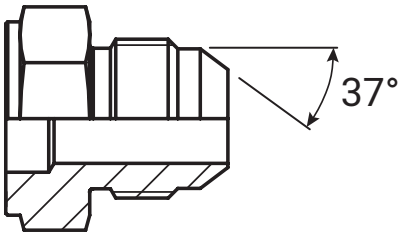
Series AJ/HJ HANSA-FLEX adapters are the familiar flare adapters with a 37° cone and UNF/UN thread. These adapters are also described as JIC adapters, which were originally standardised as "Joint Industrial Council". They are often used for mobile applications with medium operating pressures. AJ/HJ connections achieve their seal through metallic sealing surfaces.

The design and function of the flare is explained in more detail in Technical information Connection technology Tubelines. Using an additional HANSA-FLEX ZROO spacer ring in accordance with DIN 3949, UEM B union nut and DRD pressure ring (full designation: BOOK), a form-fitting (i.e. positive) connection to a 24° tube fitting in accordance with ISO 8434-1 can be achieved.

An AJ connection (DKJ) consists of a sealing surface in the form of a 37° inner cone with a union nut (female) with a UNF/UN internal thread.



The HJ connection (AGJ) with its sealing surface in the form of a 37° outer cone and the UNF external thread (male) form the counterpart to the AJ connection.



3.2.3.1 Size reference of HANSA-FLEX adapters with connection form AJ/HJ

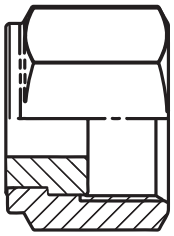
	Connection thread	
Size	**AJ (DKJ)**	**HJ (AGJ)**
4	7/16-20 UNF	
5	1/2-20 UNF	
6	9/16-18 UNF	
8	3/4-16 UNF	
10	7/8-14 UNF	
12	1 1/16-12 UN	
14	1 3/16-12 UN	
16	1 5/16-12 UN	
20	1 5/8-12 UN	
24	1 7/8-12 UN	
32	2 1/2-12 UN	

3.2.4 HANSA-FLEX AJF/ HJOF (ISO 8434-3)

HANSA-FLEX series AJF/HJOF adapters are also known as ORFS (O-Ring Face Seal) adapters. They are sealed at the end with an O-ring with both flat faces of the adapter screwed up to one another. The connection threads are UNF/UN (UNS).

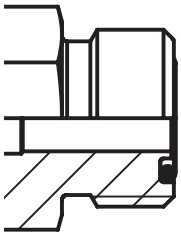
They are often used for mobile applications with high operating pressures. The use of the O-ring in the HJOF connections makes them absolutely reliable and tight.

The sealing surface of an AJF connection (DK ORFS) is metallic and flat. The union (female) nut has a UNF internal thread for attachment.



Flat sealing

The HJOF connection (AG ORFS) has a UNF external thread (male) and achieves a seal with an O-ring fitted into the groove of the flat metallic sealing surface of the AJF connection.



Flat sealing with O-ring

3.2.4.1 Size reference of HANSA-FLEX adapters with connection form AJF/HJOF

	Connection thread	
Size	**AJF (DK ORFS)**	**HJOF (AG ORFS)**
4	9/16 -18 UNF	
5	5/8-18 UNF	
6	11/16-16 UN	
8	13/16-16 UN	
10	1-14 UNS	
12	1 3/16-12 UN	
14	1 5/16-12 UN	
16	1 7/16-12 UN	
20	1 11/16-12 UN	
24	2-12 UN	
32	2 1/2-12 UN	

3.2.5 HANSA-FLEX AB/ HB (ISO 8434-6)

HANSA-FLEX series AB/HB adapters have a 59°/60° sealing cone and a BSPP thread (British Standard Tube Thread Parallel). The seal is fully metallic through the 60° sealing cone.

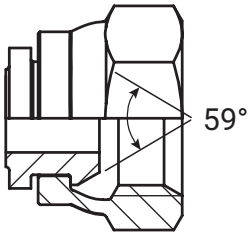
This type of adapter is used mainly in United Kingdom and was originally standardised only in BS 5200. Later it was included in ISO 8434-6 with a BSPP thread and 60° sealing cone.

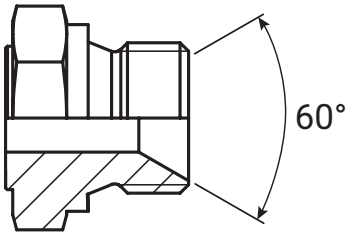
The operating pressures of AB/HB adapters are not very high and therefore they generally find use in simple hydraulic systems.

HB connections with BSPP external thread are primarily used for straight adapters or as screw-in variants as long as they have an additional seal, e.g. Usit rings (08BS).

The sealing surface of an AB connection (DKR female) is a 59° outer cone that makes a metallic seal when the BSPP nut thread is tightened. The difference between the 59° outer cone and the 60° inner cone creates a better seal.

The counterpart is the HB connection (AGR male), which has a sealing surface in the form of a 60° inner cone. The HB connection makes a metallic seal in combination with an AB connection.





3.2.5.1. Size reference of HANSA-FLEX adapters with connection form AB/HB

	Connection thread	
Size	**AB (DKR)**	**HB (AGR)**
2	G 1/8 A	
4	G 1/4 A	
6	G 3/8 A	
8	G 1/2 A	
10	G 5/8 A	
12	G 3/4 A	
16	G 1 A	
20	G 1 1/4 A	
24	G 1 1/2 A	
32	G 2 A	

3.2.6 HANSA-FLEX AN/HN (SAE J 514)

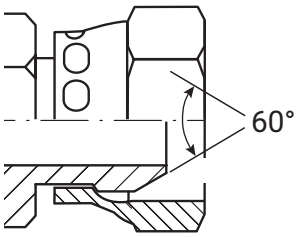
HANSA-FLEX series AN/HN adapters have an NPSM thread on the AN side and NPT/NPTF thread on the HN side.

The NPT thread is available as a tapered external or internal thread. This thread achieves its seal by the external thread flanks, which have a 60° angle between adjacent flank faces (thread angle). Achieving a seal on a screw-in variant requires an additional means of sealing (e.g. PTFE tape).

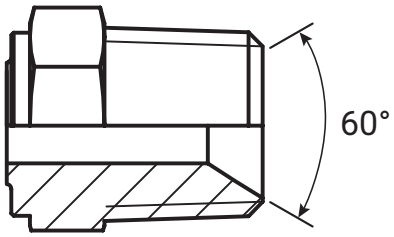
NPTF threads are interfering taper threads and achieve a leakproof seal when they are first assembled because their thread flanks deform. No additional means of sealing is required for leak-free assembly on a screw-in variant. NPTF threads are generally not used by HANSA-FLEX for adapters made from stainless steel.

HANSA-FLEX adapters with an NPT/NPTF external thread normally have a 60° inner cone so that they can be used as screw-in variants as well as in combination with an AN (NPSM) connection.

The AN connection (DKN female) consists of a 60° outer cone with an NPSM nut thread. Unlike NPT and NPTF threads, NPSM connections do not achieve a seal using the thread flanks.



The counterpart is the HN connection (AGN male), which has a sealing surface in the form of a 60° inner cone. The HN connection makes a metallic seal in combination with an AN connection.



3.2.6.1. Size reference of HANSA-FLEX adapters with connection form AN/HN

	Connection thread	
Size	**AN**	**HN**
2		1/8" - 27
4		1/4" - 18
6		3/8" - 18
8		1/2" - 14
12		3/4" - 14
16		1" - 11.5
20		1 1/4" - 11.5
24		1 1/2" - 11.5
32		2" - 11.5

3.3 Operating pressure of HANSA-FLEX adapters

The adapters are designed for the operating pressures in the standards. Depending on the application, the adapters can be selected based on the operating pressure. The connection with the lowest operating pressure always determines the operating pressure of the whole adapter. The connection form and screw-in form must be taken into account in this. The values given relate to HANSA-FLEX ordinary steel and stainless steel adapters.

Pressure values for screw-on connectors are derived from Table 1 (connection form):

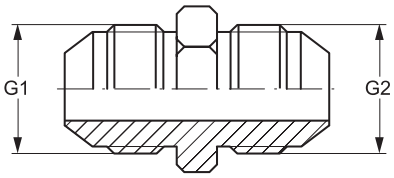
Table 1: Connection form

Maximum permissible operating pressure (bar) of adapters related to connection form

HANSA-FLEX designation	Standard	NW03	NW04	NW06	NW08	NW10	NW13	NW16	NW20	NW25	NW32	NW40	NW50	NW60
		1/8"		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 3/8"
		Size 02	Size 03	Size 04	Size 05	Size 06	Size 08	Size 10	Size 12	Size 16	Size 20	Size 24	Size 32	Size 38
AB / IR	ISO 8434-6	350		350		350	315	315	250	200	160	125	80	
AOB / HB	ISO 8434-6 O-ring			400		400	350	350	315	250	200	160	125	
A	DIN 20078 **								63	63	63	63	40	40
AJ / AOJ / HJ	ISO 8434-2			350	350	350	310	240	240	210	170	140	105	
SF 3	SAE J 518 (3000 psi)						345		345	345	276	207	207	
SF 6	SAE J 518 (6000 psi)						414		414	414	414	414	414	
AJF / HJOF	ISO 8434-3			630		630	630	400	400	400	250	250		
AN / HN	J 514 C		345	345		276	241		155	138	112	86	78	

** DIN 20078 has been withdrawn without a replacement

Example: GHJ06HJ08



Connection form G1: Size HJ06 = 350 bar
Connection form G2: Size HJ08 = 310 bar

Result: Operating pressure GHJ06HJ08 = 310 bar

Pressure values for screw-in connectors must be selected by combining Table 1 and Table 2. When doing this, it is important to note that the screw-in forms for the relevant connection form are defined in different standards. Hence, for example, the HMO side for an HJOF adapter is defined in accordance with standard ISO 6149-2 S series (heavy series), while the HMO side for an HJ adapter is defined in accordance with standard ISO 6149-3 L series (light series).

For this reason, the relevant connection form must be observed in Table 2 (see following example).

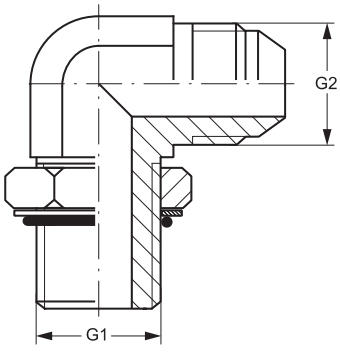
Table 2: Screw-in form

Maximum permissible operating pressure (bar) of adapters related to screw-in forms

HANSA-FLEX designation Screw-in form			HMED	HMO HMOK*	HMO HMOK*	HMO HMOK*	HMO HMOK*	HRED	HRO** HROK	HRO** HROK	GEO	W**O	GEO	W**O	HRK
HANSA-FLEX designation Connection form			HJ/ HJOF/ HB	HJOF	HJOF	HJ/HB	HJ/HB	HJ/ HJOF/ HB	HJ/ HJOF/ HB	HJ/ HJOF/ HB	HJ	HJ	HJOF	HJOF	
Thread screw-in side			Metric	Metric	Metric	Metric	Metric	BSPP	BSPP	BSPP	UNF/UN	UNF/UN	UNF/UN	UNF/UN	BSPT
BSPP/ BSPT	Metric	UNF/UN	ISO 9974-2 S (hd)	ISO 6149-2 S (hd)	ISO 6149-2 S (hd) RE	ISO 6149-3 L (ld))	ISO 6149-3 L (ld) RE	ISO 1179-2 S (hd)	ISO 1179-3 L (ld)	ISO 1179-3 L (ld) RE	ISO 11926-3 L (ld)	ISO 11926-3 L (ld) RE	ISO 11926-2 S (hd)	ISO 11926-2 S (hd) RE	Pressure values ISO 1179-3 L (ld)
1/8"		5/16 UNF							315	200	315				315
		3/8-24 UNF									315	315	630	400	
	M8x1			630	400	400	315								
1/4"	M10x1	7/16-20 UNF		630	400	400	315	630	315	200	315	315	630	400	315
5/16"	M12x1.5	1/2-20 UNF	630	630	400	400	315				315	315	630	400	
3/8"	M14x1.5	9/16-18 UNF	630	630	400	400	315	630	315	200	315	250	630	400	315
1/2"	M16x1.5	3/4-16 UNF	630	630	400	315	250	400	250	200	315	250	630	400	250
	M18x1.5		630	630	400	315	250								
	M20x1.5			400											
5/8"	M22x1.5	7/8-14 UNF	400	630	400	315	250				250	200	630	400	
	M26x1.5														
3/4"	M27x2	1 1/16-12 UN	400	400	400	200	160	400	250	200	200	200	400	400	250
		1 3/16-12 UN									200	160	400	400	
	M30x2			400	350	200	160								
1"	M33x2	1 5/16-12 UN	400	400	350	200	160	400	250	200	200	160	400	315	250
1 1/4"	M42x2	1 5/8-12 UN	250	250	250	200	160	250	160	160	160	125	250	250	160
1 1/2"	M48x2	1 7/8-12 UN	250	250	200	200	160	250	160	160	160	125	250	250	160
2"	M60x2	2 1/2-12 UN		250	160	160	100	250			160	100	210	(175)	

* The HMOK (retaining ring) connection is not defined in ISO 6149-2 / 3. Pressure values taken from ISO 6149-2 / 3
**The HRO connection is not defined in ISO 1179- 3. Pressure values taken from ISO 1179-3
S (hd) = heavy series (heavy duty)
L (ld) = light series (light duty)
RE = direction can be set

Example: W90HMO16HJ08



Connection form

Screw-in form

Connection form (HJ08): G2 = 3/4 - 16 UNF Size 08 (HJ)

Table 1: Connection form

Maximum permissible operating pressure (bar) of adapters related to connection form

HANSA-FLEX designation	Standard	NW03	NW04	NW06	NW08	NW10	NW13
		1/8"		1/4"	5/16"	3/8"	1/2"
		Size 02	Size 03	Size 04	Size 05	Size 06	Size 08
AB	ISO 8434-6	350		350		350	315
AOB / HB / IR	ISO 8434-6 O-ring			400		400	350
A	DIN 20078 **						
AJ / AOJ / HJ	ISO 8434-2			350	350	350	310

= 310 bar

Screw-in form (HMO16): G1 = M16 x 1.5

Table 2: Screw-in form

Maximum permissible operating pressure (bar) of adapters related to screw-in form.

HANSA-FLEX designation Screw-in form			HMED	HMO HMOK*	HMO HMOK*	HMO HMOK*	HMO HMOK*
HANSA-FLEX designation Connection form			HJ/ HJOF/ HB	HJOF	HJOF	HJ/HB	HJ/HB
Thread screw-in side			Metric	Metric	Metric	Metric	Metric
BSPP/ BSPT	Metric	UNF/UN	ISO 9974-2 S (hd)	ISO 6149-2 S (hd)	ISO 6149-2 S (hd) RE	ISO 6149-3 L (ld))	ISO 6149-3 L (ld) RE
1/8"		5/16 UNF					
		3/8-24 UNF					
	M8x1			630	400	400	315
1/4"	M10x1	7/16-20 UNF		630	400	400	315
5/16"	M12x1.5	1/2-20 UNF	630	630	400	400	315
3/8"	M14x1.5	9/16-18 UNF	630	630	400	400	315
1/2"	M16x1.5	3/4-16 UNF	630	630	400	315	250

= 250 bar

Result: Operating pressure W90HMO16HJ08 = 250 bar

This assumes correct installation of the adapter. Should you have any questions, please get in touch with your contact at HANSA-FLEX.

3.4. Tightening torques for various connection forms and threads of HANSA-FLEX adapters

The tightening torques in the following table apply to the connection forms of adapters made from stainless steel and ordinary steel with a HANSA-FLEX zinc nickel coating and to counter-bodies made from the same material.

HANSA-FLEX generally recommends assembly path-dependent installation. The listed torques are provided purely as guidance values. Adapter installation is affected by various factors, such as:

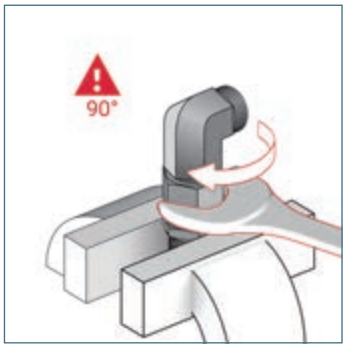
- Thread pitch
- Thread friction
- Plastic deformation of surfaces
- Component tolerances
- Component coatings

During every installation, the required assembly path after the noticeable increase in force* required for tightening must be observed. HANSA-FLEX recommends the components are assembled in a lightly oiled condition and HANSA-FLEX assembly paste applied in the case of stainless steel.

*** Definition of "noticeable increase in force":**
Tighten the union nut until the point at which it becomes noticeably more difficult to turn it. At this point, for example, the resistance due to minor damage on the thread caused by the union nut snagging slightly must be overcome. For adapters with O-rings, the pre-stressing of the O-ring must be bridged and the sealing cone must lie metallically flush against the cone of the connector.

3.4.1 Torques for connection form AJ/HJ

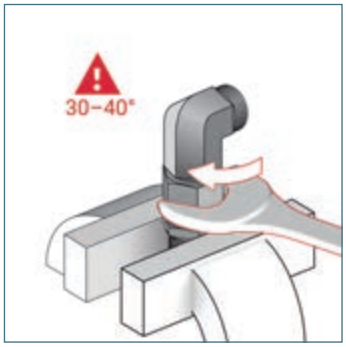
	Connection thread		Min. torque
Size	**AJ (DKJ)**	**HJ (AGJ)**	**Nm**
4	7/16-20 UNF		15
5	1/2-20 UNF		19
6	9/16-18 UNF		24
8	3/4-16 UNF		49
10	7/8-14 UNF		77
12	1 1/16-12 UN		107
16	1 5/16-12 UN		147
20	1 5/8-12 UN		172
24	1 7/8-12 UN		215
32	2 1/2-12 UN		332



In order to ensure correct installation, the recommended minimum torques should not be exceeded by more than 30 % during assembly.

3.4.2 Torques for connection form AJF/HJOF

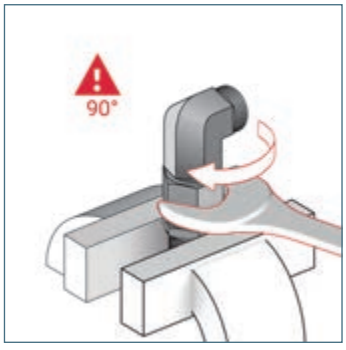
	Connection thread		Min. torque
Size	**AJF (DK ORFS)**	**HJOF (AG ORFS)**	**Nm**
4	9/16 -18 UNF		25
	5/8-18 UNF		30
6	11/16 - 16 UN		40
8	13/16 - 16 UN		55
10	1" - 14 UNS		60
12	1 3/16 - 12 UN		90
	1 5/16-12 UN		115
16	1 7/16 - 12 UN		125
20	1 11/16 - 12 UN		170
24	2 - 12 UN		200



In order to ensure correct installation, the recommended minimum torques should not be exceeded by more than 30 % during assembly.

3.4.3 Torques for connection form AB/HB

	Connection thread		Min. torque
Size	**AB (DKR)**	**HB (AGR)**	**Nm**
2	G 1/8 A		10
4	G 1/4 A		20
6	G 3/8 A		35
8	G 1/2 A		60
10	G 5/8 A		70
12	G 3/4 A		115
16	G 1 A		140
20	G 1 1/4 A		210
24	G 1 1/2 A		290
32	G 2 A		400



In order to ensure correct installation, the recommended minimum torques should not be exceeded by more than 10 % during assembly.

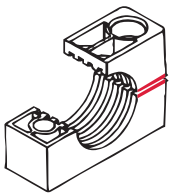
Tightening torques for the stud ends can be found in Technical information Connection technology Tube fittings.

4. Connection Technology: Technical Information for Fastening Technology

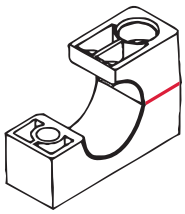
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4.2 **Installation** 39
4.3 **Screw tightening torques and radial tube retaining forces** 40
4.4 **Recommended clamp spacing** 41
4.5 **Tube bend installation** 41
4.6 **PARA system – Tube and hose in the same clamp** 42
4.7 **PARA system connection matrix – How the individual components fit together** 41

4.1. General information



Tube clamp



Hose clamp

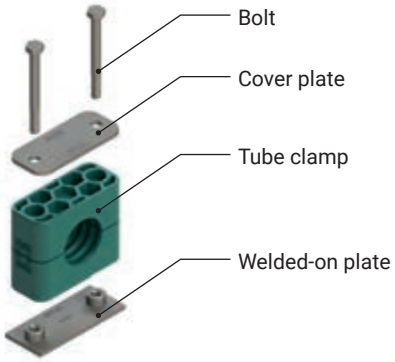
Tube clamps hold and guide individual and multiple tubings. They must reliably absorb the occurring forces and either prevent, dampen or specifically guide the movements of the tubings. The function and arrangement of the clamps along a length of tubeline determine their design as anchor or guide points.

Webs in the inner surface of the clamps dampen impacts and vibrations and absorb forces along the tube axis. A gap between the two halves allows pre-tensioning of the blocks and a resulting compressive force on the tube.

The use of clamps with a smooth inner surface and without pre-tension is recommended for retaining hoses and cables. These versions have different bore diameters, which are matched to the outside diameter of the hose.

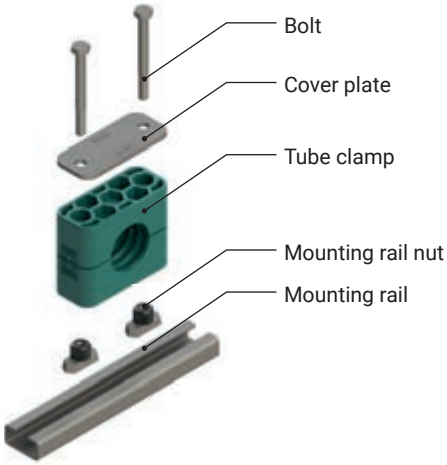
4.2 Installation

Installation on welded-on plates



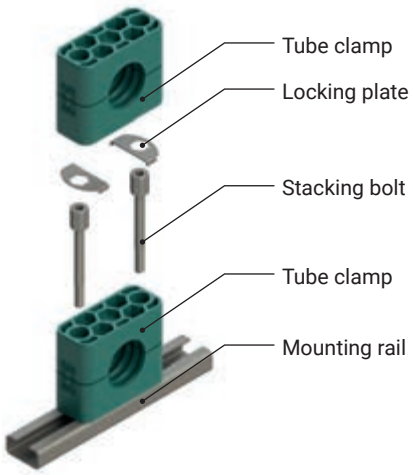
Weld the welded-on plates to a supporting surface strong enough to carry the applied loads. Take the alignment of the clamps into account. Fit the bottom clamp-half onto the welded-on plate, place the tube into it, fit the second clamp-half and tighten with the bolts. Avoid pre-tensioning the blocks (the clamp halves should not touch after installation)! Do not weld with the plastic clamps in place! Elongated welded-on plates can be attached to the supporting surface with threaded fasteners.

Installation on mounting rails



Mounting rails are available in four different heights and can be supplied in 1 or 2 m lengths as required. Weld mounting rails into place or screw them into place with fastening angles. Slide the mounting rails nuts into position and tighten them as far as they will go. No tightening is necessary for the heavy series. Fit the bottom clamp-half onto the mounting rail nuts, place the tube into it, fit the second clamp-half and tighten with the bolts. The position of the clamp can be adjusted before tightening the bolts. Avoid pre-tensioning the blocks (the clamp halves should not touch after installation)!

Stacked installation



The system allows several clamps to be stacked one upon the other. They can be clamps of the same size or for different tube diameters. A stacked installation uses special stacking bolts with locking plates to prevent them from rotating. Fit the bottom clamp-half onto the welded-on plate or mounting rail, place the tube into it, fit the second clamp-half and tighten with the stacking bolts. The stacking bolts project beyond the top clamp-half. Put on the locking plates to prevent the stacking bolts from rotating. Fit the second tube clamp onto the stacking bolts, and continue as above.

4.3 Screw tightening torques and radial tube retaining forces



The screw tightening torques and axial tube retaining forces given below relate to installations with welded-on plates, cover plates and hex-headed bolts in accordance with ISO 4014/4017 (DIN 931/933). The axial tube retaining force (in accordance with DIN 3015 Part 10) is an average value, calculated from three tests at 23 °C with a grade St 37 steel tube in accordance with DIN 2448 in which static friction is assumed. When the clamp is subjected to the given test force (F) in the axial direction of the tube, the tube does not slip in the clamp.

Tube clamps in accordance with DIN 3015-1, light series

Size	Mounting bolt ISO 4014/4017 (DIN 931/933)	Polypropylene		Polyamide		Aluminium	
		Bolt tightening torque	Tube retaining force F	Bolt tightening torque	Tube retaining force F	Bolt tightening torque	Tube retaining force F
	mm	Nm	kN	Nm	kN	Nm	kN
0	M6	8	0.6	10	0.6		
1	M6	8	1.1	10	0.7	12	4.2
2	M6	8	1.2	10	0.8	12	4.3
3	M6	8	1.4	10	1.6	12	4.8
4	M6	8	1.5	10	1.7	12	5.0
5	M6	8	1.9	10	2.0	12	7.3
6	M6	8	2.0	10	2.5	12	8.9

Tube clamps in accordance with DIN 3015-2, heavy series

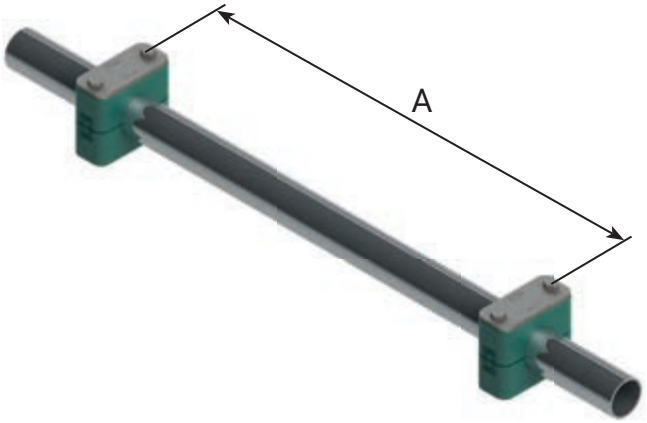
Size	Mounting bolt ISO 4014/4017 (DIN 931/933)	Polypropylene		Polyamide		Aluminium	
		Bolt tightening torque	Tube retaining force F	Bolt tightening torque	Tube retaining force F	Bolt tightening torque	Tube retaining force F
	mm	Nm	kN	Nm	kN	Nm	kN
1	M10	12	1.6	20	4.2	30	12.1
2	M10	12	2.9	20	4.5	30	15.1
3	M10	15	3.3	25	5.1	35	15.5
4	M12	30	8.2	40	9.3	55	29.4
5	M16	45	11.0	55	15.8	120	34.8
6	M20	80	14.0	150	21.0	220	50.0
7	M24	110	28.0	200	32.0	250	70.6
8	M30	180	40.0	350	48.0	500	84.5
9	M30	200	119.0	370	125.0	500	181.5
10	M30	270	168.0	450	180.0	600	244.5

Tube clamps in accordance with DIN 3015-3 (double clamps)

Size	Mounting bolt ISO 4014/4017 (DIN 931/933)	Polypropylene		Polyamide	
		Bolt tightening torque	Tube retaining force F	Bolt tightening torque	Tube retaining force F
	mm	Nm	kN	Nm	kN
1	M6	5	0.9	6	0.9
2	M8	12	2.1	12	2.2
3	M8	12	1.9	12	2.0
4	M8	12	2.7	12	2.9
5	M8	8	1.7	8	2.5

4.4 Recommended clamp spacing

The clamp spacing given for each tube outside diameter range is a guidance value based on static loading.



Outside tube diameter	Clamp spacing A
mm	m
6.0 – 12.7	1.0
12.7 – 22.0	1.2
22.0 – 32.0	1.5
32.0 – 38.0	2.0
38.0 – 57.0	2.7
57.0 – 75.0	3.0
75.0 – 76.1	3.5
76.1 – 88.9	3.7
88.9 – 102.0	4.0
102.0 – 114.0	4.5
114.0 – 168.0	5.0
168.0 – 219.0	6.0
219.0 – 324.0	6.7
324.0 – 356.0	7.0
356.0 – 406.0	7.5

4.5 Tube bend installation



The installation of tube bends usually involves attaching the tube bend with tube clamps immediately before and after the bend. This arrangement ensures the stability and safety of the whole tubeline. The clamps keep the tube in place and minimise potential movements or vibrations. It is essential that the tube clamps are correctly attached to ensure that the tubeline functions properly and no loads or stresses are transferred onto the tube, which otherwise could lead to damage. Moreover, it is important that the tube bend is mounted in a way that allows enough space for the thermal expansion of the tube. This can often be achieved through the use of compensation loops or flexible tube connections that allow the tube to move without exerting loads on the tube, the mountings or the supporting surface.

4.6 PARA system

Tube and hose in the same clamp

Practically tool-free line installation is finally a reality: the SRS PARA Clamp by HANSA-FLEX has a unique click system to allow secure premounting of tubings and hose lines in a matter of seconds. Line installation using this system could not be quicker, easier or more secure – and it can be done by a single installer.

The clever offset split insertion system with engagement hooks allows secure premounting of lines. They are held absolutely securely until final system installation. The modular design allows lines of different diameters to be mounted on the same multi-hole clamp. Grooved and smooth inserts for tube and hose lines allow the two types of line to be efficiently mounted parallel to one another in the same tube run.

Installation could not be easier:



1. Attach clamp base and compatible insert



2. Click the tube or hose line into the clamp

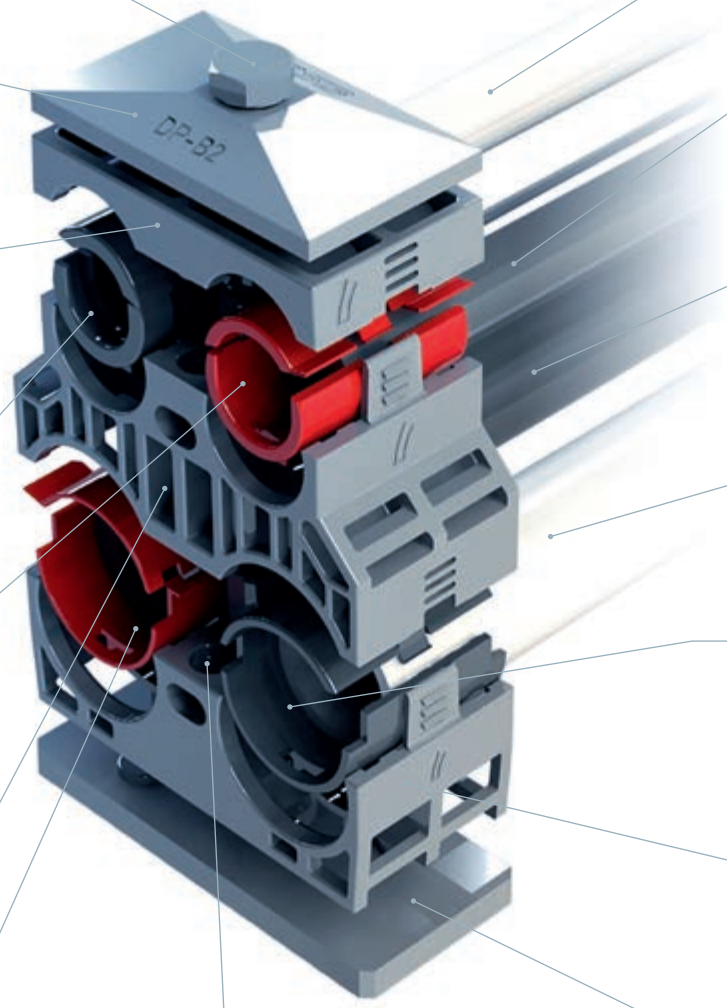


3. Click in a suitable counter-piece



4. The lines are held absolutely securely until final system installation

Typical example set-up of the modular PARA system



SRS AS 3 D
Hexagon bolt double tube
BG 3

SRS DP 2 D
Cover plate for double tube
clamp BG 2

SRS O TR 218 D PARA
Double tube clamp
ø 18 mm BG 2 top

SRS EIN R 212 PARA
Insert for BG 2, grooved
for ø 12 mm tube

SRS EIN S 213.5 PARA
Insert BG 2, smooth
for ø 13.5 mm hose

SRS MK TR 325 218 D PARA
Double tube clamp
ø 18/25 mm BG 2/3
combination

SRS EIN S 323 PARA
Insert for BG 2, smooth
for ø 23 mm hose

SRS AF 3 PARA
Assembly bolt
PARA-clamp BG 3

Tubing
ø 12 mm

Hose line
ø 13.5 mm

Hose line
ø 23 mm

Tubing
ø 22 mm

SRS EIN R 322 PARA
Insert for BG 3, grooved
for ø 22 mm tube

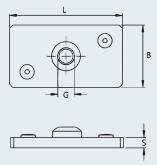
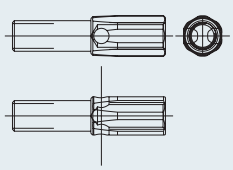
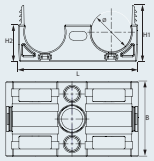
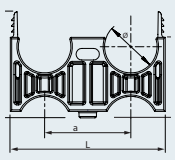
SRS U TR 325 D PARA
Double tube clamp
ø 25 mm BG 3 bottom

SRS SP 3 D VZ
Welded-on base plate
Double tube BG 3

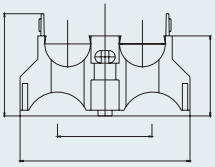
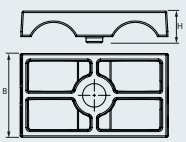
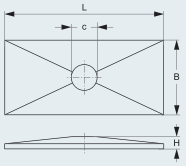
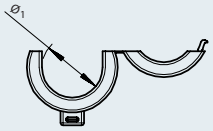
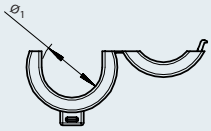
4.7 PARA system connection matrix
How the individual components fit together

				BG 2		
				Clamp bottom part	Clamp top part	
				SRS U TR 218 D PARA	SRS O TR 218 D PARA	
BG 2	Tube	ø 15 mm	SRS EIN R 215 PARA	✓	✓	
	Tube	ø 12 mm	SRS EIN R 212 PARA	✓	✓	
	Hose	ø 13.5 mm	SRS EIN S 213.5 PARA	✓	✓	
	Hose	ø 17.3 mm	SRS EIN S 217.3 PARA			
BG 3	Tube	ø 18 mm	SRS EIN R 318 PARA			
	Tube	ø 20 mm	SRS EIN R 320 PARA			
	Tube	ø 22 mm	SRS EIN R 322 PARA			
	Tube	ø 15 mm	SRS EIN R 315 PARA			
	Hose	ø 23 mm	SRS EIN S 323 PARA			
	Hose	ø 18 mm	SRS EIN S 318 PARA			
	Hose	ø 17.3 mm	SRS EIN S 317.3 PARA			
	Hose	ø 20 mm	SRS EIN S 320 PARA			
BG 2	Clamp bottom part	ø 18 mm	SRS U TR 218 D PARA		✓	
	Clamp top part	ø 18 mm	SRS O TR 218 D PARA	✓		
	Clamp middle part	ø 18 mm	SRS M TR 218 D PARA	✓		
	Assembly bolt		SRS AF 2 PARA	✓		
BG 3	Clamp bottom part	ø 25 mm	SRS U TR 325 D PARA			
	Clamp top part	ø 25 mm	SRS O TR 325 D PARA			
	Clamp middle part	ø 25 mm	SRS M TR 325 D PARA			
	Assembly bolt		SRS AF 3 PARA			
BG 2 / BG 3	Clamp middle combination part		SRS MK TR 325 218 D PARA		✓	
BG 2	Bolt		SRS AS 2 D (M8 x 35)	✓	✓	
	Bolt		SRS IS 2 D (M8 x 35)	✓	✓	
	Bolt		SRS AS 5 D (M8 x 60)	✓	✓	
	Bolt		SRS IS 5 D (M8 x 60)	✓	✓	
BG 3	Bolt		SRS AS 3 D (M8 x 45)			
	Bolt		SRS IS 3 D (M8 x 45)			

Individual components of the PARA system

Welded-on plate	Assembly bolt	Clamp bottom part	Clamp middle part	
				
Product No.	**Product No.**	**Product No.**	**Product No.**	
SRS SP D	SRS AF PARA	SRS U TR D PARA	SRS M TR D PARA	

BG 2	BG 3			BG 2 / BG 3
Clamp middle part	**Clamp bottom part**	**Clamp top part**	**Clamp middle part**	**Clamp middle combination part**
SRS M TR 218 D PARA	SRS U TR 325 D PARA	SRS O TR 325 D PARA	SRS M TR 325 D PARA	SRS MK TR 325 218 D PARA
✓				✓
✓				✓
✓				✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
	✓	✓	✓	✓
✓				
✓			✓	✓
✓			✓	✓
✓				
		✓	✓	✓
	✓		✓	
	✓		✓	
	✓		✓	✓
✓	✓		✓	
✓				
✓				
	✓	✓		
	✓	✓		

Clamp combination part	Clamp top part	Cover plate	Insert for hose	Insert for tube
				
Product No.	**Product No.**	**Product No.**	**Product No.**	**Product No.**
SRS MK TR D PARA	SRS O TR D PARA	SRS DP D	SRS EIN S PARA	SRS EIN R PARA

5. Connection Technology: Technical Information for Tubings

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5.1 Tubings

Tubings are used to transfer energy to hydraulic systems. They are used in stationary and mobile hydraulic equipment.

The design of tubings must consider the many loads applied to them that could affect the length of their service lives.

These include loads from:
- Pressure
- The layout and design of the tubeline system
- Temperature
- Thermal expansion

Keeping within the limits for all parameters can considerably effect the durability of tubes and tubings and increases the safety of personnel and the surroundings.

5.1.1 Material

Tubes made from seamless, cold-drawn precision steel tube are used for hydraulic and pneumatic pressure lines in conjunction with tube fittings and cutting ring connections. This tube is notable for its precisely defined dimensional tolerances and specified maximum surface roughness.

Types of steel used:

Material	Tube	Designation	Material	Standard
Steel	PR (M)*	E235+N	1.0308	EN 10305-4
Steel	PR VZ CF (M)*	E235+N	1.0308	EN 10305-4
Steel	PR ST52 (M)*	E355+N	1.0580	EN 10305-4
Stainless steel	PR V1 (M)*	X5CrNi18-10	1.4301	EN 10216-5
Stainless steel	PR V2 (M)*	X6CrNiTi18-10	1.4541	EN 10216-5
Stainless steel	PR V4 (M)*	X6CrNiMoTi17-12-2	1.4571	EN 10216-5

* M = metric tubes

5.1.2 Standardisation and pressure calculation

Various standards and codes of practice are available for the layout and design of tubings.

For example:
- DIN 2413: Seamless steel tubes for oil- and water-hydraulic systems – Calculation rules for tubes and elbows for dynamic loads
- DIN ISO 10763: Hydraulic fluid power. Plain-end, seamless and welded precision steel tubes. Dimensions and nominal working pressures
- DIN EN 13480-3: Metallic industrial tubing – Part 3: Design and calculation
- DIN EN 13480-4: Metallic industrial tubing – Part 4: Fabrication and installation
- DIN 2445-2: Seamless steel tubes subjected to dynamic loads – Part 2: Precision tubes for use in fluid power systems, rated for pressures from 100 bar to 500 bar

The pressure values given in our catalogues relate to the calculation principles in DIN 2413 Load Case I for predominantly static loads up to 120 °C and Load Case III for dynamic /pulsating loads up to 120 °C.

The pressure values relate to straight tubes. The appropriate wall thicknesses need to be calculated for tubes with bends as stipulated in DIN EN 13480-4.

The pressure values given in our catalogues are for guidance only and must be checked or calculated separately by the user/customer.

The manufacture of tubings must also take into account the pressure values of the connections and connecting elements. The component with the lowest operating pressure determines the operating pressure for the whole tubing.

5.1.3 Design

The design of tubings must take into account not only the maximum operating pressure of the tubing but also the desired pressure loss. This is mainly determined by the flow velocity. Too high a flow velocity creates turbulence, which leads to large pressure losses and increased temperatures. This is reflected in the cost and energy efficiencies of the hydraulic system.

As a rule, the following flow velocities must not be exceeded:
- Pressure lines: max. 6 m/s
- Return lines: max. 3 m/s
- Suction lines: max. 1 m/s

Further information about pressure loss in tubings can be found in point 2 “Determination of pressure loss in tubings”.

5.1.4 Layout

The design of tubings must take into account the linear expansion and contraction due to temperature changes because the forces they create can lead to leakage at the connections between tubes and at connections to equipment.

The following material-related coefficients of thermal expansion can be used as the basis for calculation:

Material	Coefficient of linear thermal expansion α [10-6 K-1 or µm/mK]			
	20 °C	100 °C	150 °C	200 °C
Steel	11.9	12.70	13.20	13.70
Stainless steel	16.80	17.70	18.21	18.67

Example calculation:

$\Delta L = L_0 \times \alpha \times \Delta t$



ΔL = Change in length
L_0 = Initial tube length (metre)
α = Coefficient of thermal expansion
Δt = Change in temperature

T

L_0 = 1 metre
α = 11.9 (steel, 20 °C)
Δt = 60 °C or 60 K (Celsius and kelvin are interchangeable in this context)

$$\Delta L = 1\ m \times \frac{11.9}{10^6\ K} \times 60\ °C = 0.000714\ m = 0.714\ mm$$

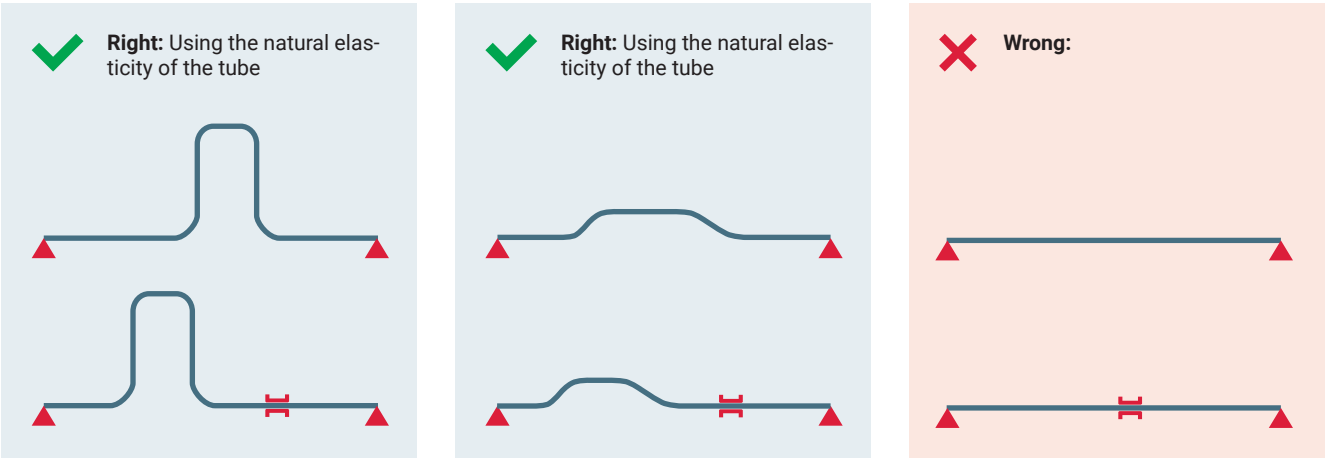
This means a tubing with an initial length of 1000 mm can change in length by 0.714 mm in response to a temperature change of 60° C.

For the fixings to accommodate thermal movements efficiently, the layout should be in accordance with the following principles.

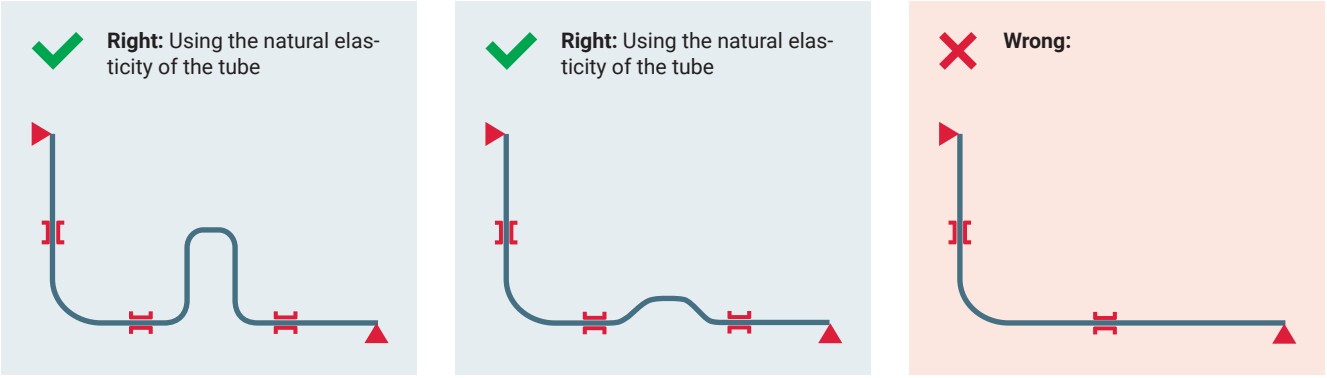
Symbols for diagrams of layout principles:

Symbol	Meaning
▲	Anchor point (fixed bearing)
][	Guide point (sliding bearing)

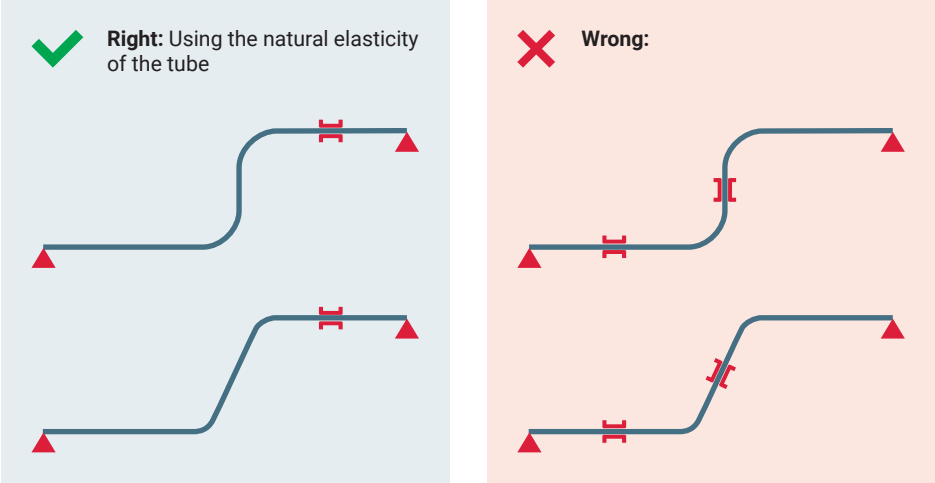
Straight tube:



Bent tube:



Tube levels:

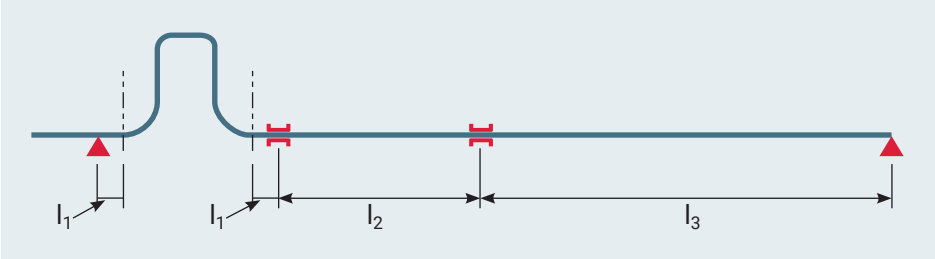


5.1.5 Fixings

Tubeline fixings (e.g. SRS clamps) hold and guide tubelines. They must absorb the generated forces and prevent or dampen movements.

The correct selection and determination of the required clamp spacing over the length of the tubes is based on specific principles and can be calculated using approximation formulae.

Recommendations for the distances between fixing points:



l_1 = Expansion compensation loop – guide point/anchor point = 2 × D* (mm)
l_2 = Guide point – guide point = 0.7 × l_3 (mm)
l_3 = Guide point – anchor point = 400 × √ D (mm)

* D = Outer tube diameter

Rounded guidance values:

Outer diameter	l_1	l_2	l_3
D (mm)	Compensation loop – guide / anchor point	Guide point - guide point	Guide point - anchor point
6	30*	700	1000
8	30*	800	1150
10	30*	900	1300
12	30*	1000	1400
15	30	1100	1550
16	35	1150	1600
18	40	1200	1700
20	40	1300	1800
22	50	1350	1900
25	50	1400	2000
28	60	1500	2150
30	60	1600	2200
35	70	1700	2400
38	80	1750	2500
42	85	1800	2600

* Take the size of the clamps into account when determining the spacing l_1

5.2 Determination of pressure loss in tubings

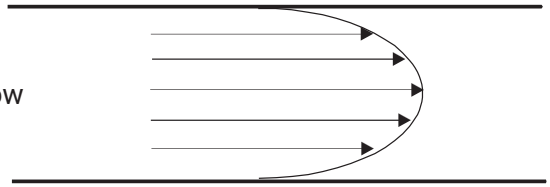
The pressure losses that inevitably occur in tubing systems can be determined either by metering or by calculation.

Determination of these losses precisely by calculation is impossible without considerable effort, but the few simple equations we give here can be used to determine approximate pressure losses in straight tubings and fittings.

Pressure losses and flow resistance in a line system depend on the internal diameter of the tube, the flow velocity and the properties of the hydraulic oil (density and viscosity). Pressure losses are caused by "fluid friction", i.e. the friction between the oil and the tube walls, and the internal friction within the fluid.

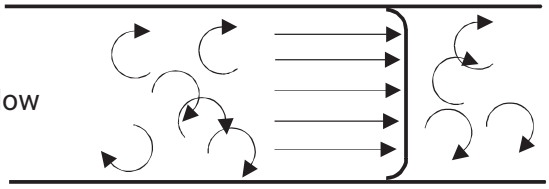
Above a certain velocity, the laminar flow of the oil becomes a turbulent flow. Turbulent flows lead to greater heat generation in the system, with consequential losses of pressure and performance.

Laminar flow



The behaviour of the flow is also characterised by the Reynolds number Re.

Turbulent flow



When this Re number exceeds a given value, the laminar oil flow becomes a turbulent flow.

In tubings, laminar flow is desirable. Turbulent flow occurs most often in valves, couplings and ball valves.

Pressure losses in straight tubings can be determined approximately using the following equations:

$$\Delta p = \lambda \times \frac{l \times \rho \times V^2 \times 10}{d \times 2} \text{ in bar}$$

Δp = Pressure loss in a straight tubing (laminar or turbulent flow) in bar
λ = Tube friction factor
ρ = Density of the hydraulic oil in kg/dm^3, ρ = 0.89 kg/dm^3 = 890 kg/m^3
l = Line length in metres m
V = Flow velocity of the oil in the line in m/s
d = Internal diameter of the line in mm
v = Kinematic viscosity in cSt or mm^2/s
Q = Volumetric flow in the line in l/min

Tube friction factor for laminar flow — Re<2320

$$\lambda_{lam} = 64/Re$$

Tube friction factor for turbulent flow — Re>2320

$$\lambda_{turb.} = \frac{0.316}{\sqrt[4]{Re}}$$

Reynolds number

$$Re = \frac{V \times d}{v} \times 10^3$$

Flow velocity

$$V = \frac{Q}{6 \times d^2 \times \frac{\pi}{4}} \times 10^2$$

Example:

For a straight tubing of length l = 1 m and inner diameter d = 25 mm.

The volumetric flow Q is 150 l/min and the flow velocity of the oil is 5 m/s.

A standard hydraulic oil HLP 46 with a kinematic viscosity of v = 46 mm^2/s = 46 cSt and a density of 0.89 kg/dm^3 is used.

Calculate the pressure loss occurring over the total length of 1 m.

Solution:

1. Determination of Reynolds number Re:

$$Re = \frac{V \times d}{v} \times 10^3 = \frac{5\ m/s \times 25\ mm}{46\ mm^2/s} \times 10^3 = 2713$$

In this case, the Reynolds number is greater than 2320, so turbulent flow conditions exist.

2. Determination of the tube friction factor for turbulent flow

$$\lambda_{turb.} = \frac{0.316}{\sqrt[4]{Re}} = \frac{0.316}{\sqrt[4]{2713}} = 0.0437$$

3. Calculation of pressure loss over the total length

$$\Delta p = \lambda \times \frac{l \times \rho \times V^2 \times 10}{d \times 2} = 0.0437 \times \frac{1\ m \times 0.89\ kg/dm \times (5\ m/s)^2 \times 10}{25\ mm \times 2} = 0.194\ bar$$

However, it should be noted that these equations are valid only for straight tubing sections. But a tubing system consists of straight and bent sections, as well as fittings and other hydraulic connection technology products.

Therefore the pressure losses of the individual components must be considered separately. This is done by calculation or by metering the components and the results added together to give a total pressure loss.

For the purpose of determining the approximate pressure losses in individual components a drag coefficient ξ is assumed.

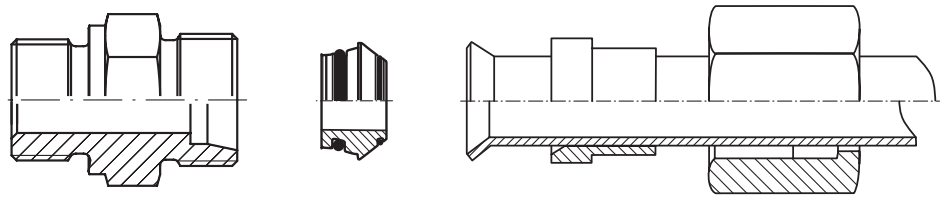
The pressure loss in a component can be determined using the following equation:

$$\Delta p = \xi \times \rho \times \frac{1}{2} v^2$$

Δp = Pressure loss in the component in bar
ξ = Drag coefficient (dimensionless)
ρ = Density of the hydraulic oil in kg/dm^3, ρ = 0.89 kg/dm^3 = 890 kg/m^3
v = Flow velocity of the oil in the line in m/s

It should be noted that the pressure losses can be affected by many other factors occurring in the components discussed here, and these calculations allow only an approximate determination. Therefore, in important situations, tests should be carried out on a test bench.

5.3 Design and function of flare fittings



T

HANSA-FLEX flare fittings are designed for high pressures and are used widely in applications where there are strong vibrations.

They can be assembled using standard threaded connectors. However, in preparation for assembly, the tube ends must be given a standardised 37° flare cone.

A flare fitting consists of the threaded connector, the formed 37° tubeline, the support ring or pressure ring and a union nut.

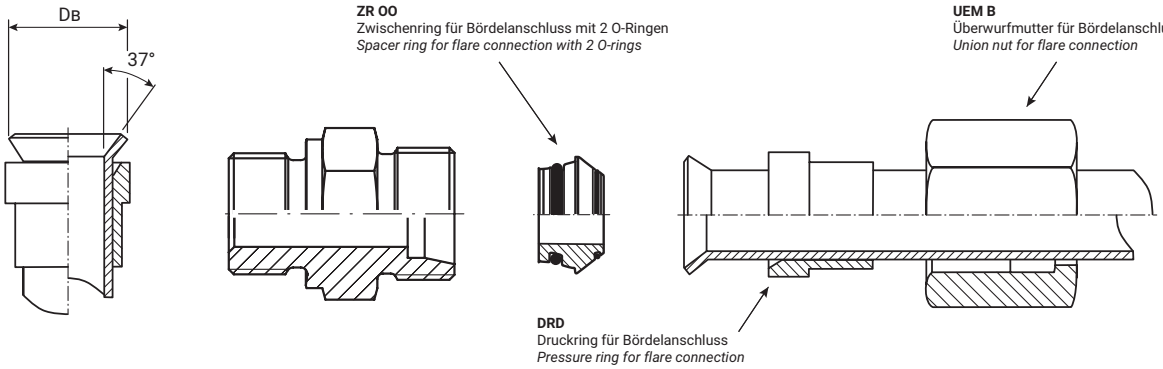
Using an additional HANSA-FLEX ZROO spacer ring in accordance with DIN 3949, UEM B union nut and DRD pressure ring (full designation: BOOK), a form-fitting (i.e. positive) connection to a 24° tube fitting in accordance with ISO 8434-1 can be achieved.

Sealing is ensured on the fitting side by the O-ring of the spacer ring, and on the tube side sealing is normally provided by the metal surfaces of the flare cone and the spacer ring.

The HANSA-FLEX flare system can also be used directly with HANSA-FLEX HJ (JIC) series adapters.

It should be noted that the flare (DB), the support ring (pressure ring) and the union nut differ depending on whether they are used with the ZROO or the HJ (JIC) adapter, and the 37° flare is further deformed. Refer to table in 5.3.1.

5.3.1 37° flare form using the HANSA-FLEX ZROO double conical ring



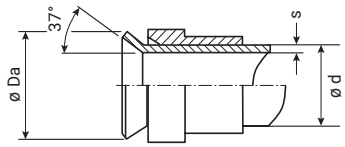
Tube outer diameter	6	8	10	12	15	16	18	20	22	25	28	30	35	38	42
DB min	9.1	11.3	13.1	15.3	19.1	20.6	23.2	25.6	26.5	31.1	32.7	37.0	41.8	46.0	48.8
DB max	10.0	12.0	14.0	16.0	20.0	22.0	24.0	26.8	27.5	33.0	33.3	38.7	42.7	47.2	49.8

Assembly with double conical ring:
Insert the double conical ring (ZROO) into the body of the screw fitting. Using a suitable wrench, apply approximately ¼ turn to the mounted union nut (UEM B), flared tube and pressure ring (DR D). This presses the double conical ring tightly into the body of the screw fitting. Repeat assemblies can be done without exerting a high degree of force.

5.3.2 Determination of tube lengths for 37° flare fittings

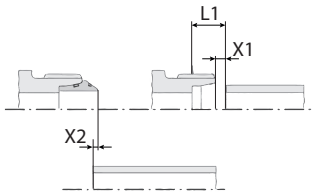
When using HANSA-FLEX flare fittings with a spacer ring (BOOK), the following cut-off factors must be adopted when determining the tube lengths.

The diameter of the flare must fulfil the requirements shown.



Kontrolldurchmesser
(Da min, Da max.)

Check diameter
(Da min., Da max.)



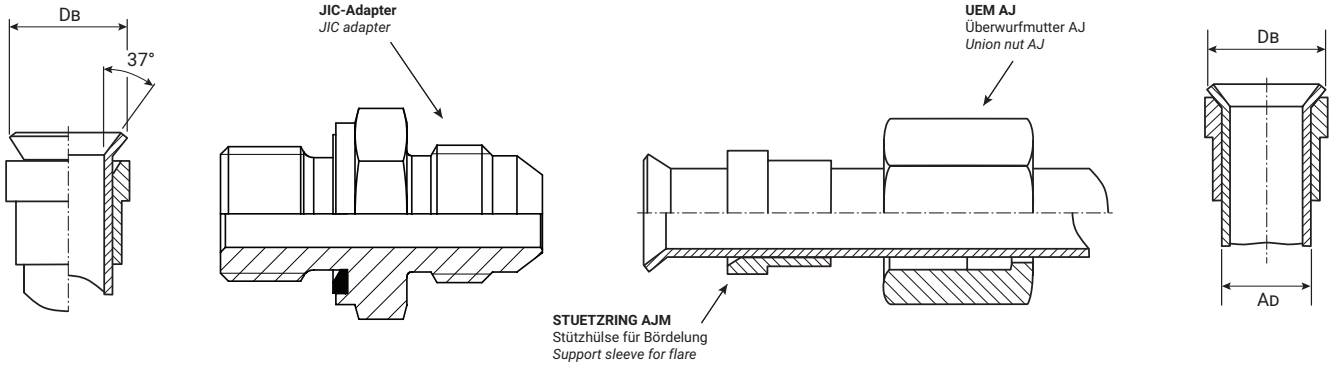
Rohrlängenbestimmung (X1, X2, L1)

Tube length determination (X1, X2, L1)

d	s	X1	X2	L1	Da min	Da max
mm	mm	mm	mm	mm	mm	mm
6	1	1	3.5	8	9.1	10
	1.5	2	2.5	9		
8	1	1	4	8	11.3	12
	1.5	2	3	9		
	2	2.5	2.5	9.5		
10	1	1	4.5	8	13.1	14
	1.5	2	3.5	9		
	2	3	2.5	10		
12	1	1	4.5	8	15.3	16
	1.5	2	3.5	9		
	2	3	2.5	10		
14	1.5	0.5	5.5	8.5	18.6	19.6
	2	1	4	9		
	2.5	2	4	10		
	3	3	3	11		
15	1.5	1	4.5	8	19.1	20
	2	2	3.5	9		
	2.5	3	2.5	10		
16	1.5	0	6.5	8.5	20.6	22
	2	1	5.5	9.5		
	2.5	1.5	5	10		
	3	2.5	4	11		
18	1.5	0	5.5	7.5	23.2	24
	2	1	4.5	8.5		
	2.5	1.5	4	9		
20	2	1	7	11.5	25.6	26.8
	2.5	2	6	12.5		
	3	3	5	13.5		
	3.5	4	4	14.5		

d	s	X1	X2	L1	Da min	Da max
mm	mm	mm	mm	mm	mm	mm
22	1.5	1	5.7	8.5	26.5	27.5
	2	2	4.7	9.5		
	2.5	3	3.7	10.5		
	3	3.5	3.2	11		
25	2	1	7	13	31.1	33
	2.5	1.5	6.5	13.5		
	3	2.5	5.5	14.5		
	4	4	4	16		
28	2	1.5	5.7	9	32.7	33.3
	2.5	2.5	4.7	10		
	3	3	4.2	10.5		
30	2	-0.5	9	13	37	38.7
	2.5	0.5	8	14		
	3	1	7.5	14.5		
	4	3	5.5	16.5		
	5	4.5	4	18		
35	2	1.5	6.5	12	41.8	42.7
	2.5	2	6	12.5		
	3	3	5	13.5		
	4	4.5	3.5	15		
38	2.5	0	10	16	46	47.2
	3	0.5	9.5	16.5		
	4	2	8	18		
	5	4	6	20		
	6	2.5	7.5	18.5	46	48
42	2	1.5	7	12.5	48.8	49.8
	3	3	6.5	14		
	4	4.5	5	15.5		

5.3.3 37° flare form flare fitting ISO 8434-2



Tube outer diameter	6	8	10	12	15	16	18	20	22	25	28	30	35	38	42
DB min	8.6	10.2	11.7	16.0	19.3	19.3	23.4	23.4	26.5	29.7	37.6	37.6	43.2	43.2	52.0
DB max	9.7	11.3	12.7	17.3	20.2	20.2	24.7	24.7	27.8	31.0	38.9	38.9	45.3	45.3	54.8

5.3.4 37° flare form preparations for assembly and installation

- Cut the tube to length at right angles ±0.5°. Do not use a tube cutter for this.
- Gently deburr the inside and outside of the tube, e.g. with the HANSA-FLEX ROHR ENTGRATER tube deburrer.
- Push the union nut and pressure ring/support sleeve over the tube (see figures).
- Flare the tube with an appropriate flaring tool.
- The flare must be at right angles and central to the sleeve. The resulting 37° cone of the tube must not have any defects such as grooves or cracks.
- The appropriate dimensional tolerances given in points 5.3.2 and 5.3.3 must be observed for the flare diameter DB.
- In addition, in the case of the 37° flare form (JIC) flare fitting ISO 8434-2, the flare diameter DB must not be larger than the outer diameter of the support sleeve and not smaller than the inner diameter of the support sleeve at the end face.

24° / ISO 8434-1 tube fittings



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Tube elbows

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Plug screws

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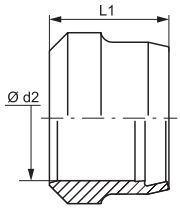
Cutting ring, ISO 8434-1, DIN 3861, LL/L/S, steel



Construction type: cutting ring
Standard: DIN 3861 shape B
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

www ...SRD



Series	L1	Ø d2	Item no.
	mm	mm	
LL	6.0	4	**SRD04LL**
LL	7.0	5	**SRD05LL**
LL	7.0	6	**SRD06LL**
LL	7.0	8	**SRD08LL**
LL	7.0	10	**SRD10LL**
LL	7.5	12	**SRD12LL**
LL	9.0	16	**SRD16LL**
LS	9.5	6	**SRD06**
LS	9.5	8	**SRD08**
LS	10.0	10	**SRD10**
LS	10.0	12	**SRD12**
L	10.0	15	**SRD15**
L	10.0	18	**SRD18**
L	11.5	22	**SRD22**
L	11.5	28	**SRD28**
L	13.5	35	**SRD35**
L	13.5	42	**SRD42**
S	10.5	14	**SRD14**
S	10.5	16	**SRD16**
S	12.5	20	**SRD20**
S	12.5	25	**SRD25**
S	13.5	30	**SRD30**
S	13.5	38	**SRD38**

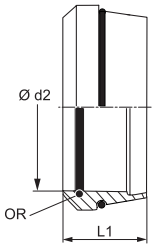
Product variants:

Cutting ring, ISO 8434-1, DIN 3861, LL/L/S, brass, SRD MG	**...SRDMG**
Cutting ring, ISO 8434-1, DIN 3861, LL/L/S, stainless steel, SRD VA	**...SRDVA**



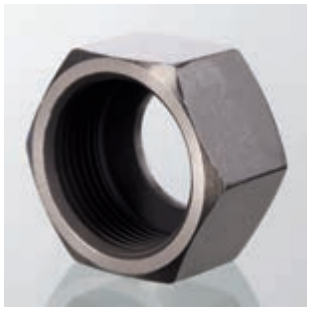
Cutting ring with OR, ISO 8434-1, L/S, steel

Construction type: cutting ring with O-ring
Standard: DIN 3861
Surface: electro galvanised
Material: steel



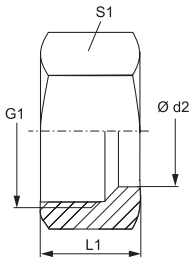
...SRDOV

Tube outer Ø	Series	OR	L1	Ø d2	Item no.
mm			mm	mm	
6	LS	6 x 1	8.8	6	SRDO06V
8	LS	8 x 1	8.8	8	SRDO08V
10	LS	10 x 1	9.8	10	SRDO10V
12	LS	12 x 1	9.8	12	SRDO12V
15	L	15 x 1	10.2	15	SRDO15V
18	L	18 x 1	10.2	18	SRDO18V
22	L	22 x 1	11.5	22	SRDO22V
28	L	28 x 1	11.5	28	SRDO28V
35	L	35 x 1	13.5	35	SRDO35V
42	L	42 x 1	13.5	42	SRDO42V
14	S	14 x 1	10.2	14	SRDO14V
16	S	16 x 1	10.2	16	SRDO16V
20	S	20 x 1	12.5	20	SRDO20V
25	S	25 x 1	12.5	25	SRDO25V
30	S	30 x 1	13.5	30	SRDO30V
38	S	38 x 1	13.5	38	SRDO38V



Tube nut, ISO 8434-1, DIN 3870, LL/L/S, steel

Connection 1: metric nut thread
Construction type: tube nut
Standard: DIN 3870
ISO 8434-1
Surface: electro galvanised
Material: steel



...UEM

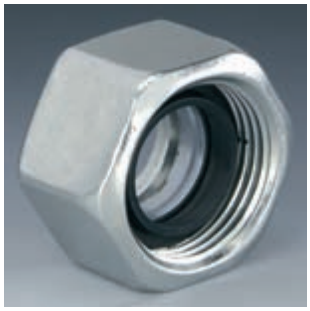
Series	G1	L1	S1	Ø d2	Item no.
		mm		mm	
LL	M 8 x 1	11.5	10	4.0	UEM04LL
LL	M 10 x 1	12.0	12	5.0	UEM05LL
LL	M 10 x 1	12.0	12	6.0	UEM06LL
LL	M 12 x 1	12.5	14	8.0	UEM08LL
LL	M 14 x 1	13.5	17	10.0	UEM10LL
LL	M 16 x 1	13.5	19	12.0	UEM12LL
LL	M 22 x 1.5	17.5	27	16.0	UEM16LL
L	M 12 x 1.5	15.0	14	6.0	UEMNW04L
L	M 14 x 1.5	15.0	17	8.0	UEMNW06L
L	M 16 x 1.5	16.0	19	10.0	UEMNW08L
L	M 18 x 1.5	16.0	22	12.0	UEMNW10L
L	M 22 x 1.5	17.5	27	15.0	UEMNW13L
L	M 26 x 1.5	18.5	32	18.0	UEMNW16L
L	M 27 x 2	18.0	32	18.0	UEMNW16L27
L	M 30 x 2	20.5	36	22.0	UEMNW20L
L	M 36 x 2	21.5	41	28.0	UEMNW25L
L	M 45 x 2	24.5	50	35.0	UEMNW32L
L	M 52 x 2	24.5	60	42.0	UEMNW40L
S	M 14 x 1.5	17.0	17	6.0	UEMNW03S
S	M 16 x 1.5	17.0	19	8.0	UEMNW04S
S	M 18 x 1.5	18.0	22	10.0	UEMNW06S

Series	G1	L1	S1	Ø d2	Item no.
		mm		mm	
S	M 20 x 1.5	18.0	24	12.0	**UEMNW08S**
S	M 22 x 1.5	21.0	27	14.0	**UEMNW10S**
S	M 24 x 1.5	21.0	30	16.0	**UEMNW13S**
S	M 30 x 2	24.5	36	20.0	**UEMNW16S**
S	M 36 x 2	27.5	46	25.0	**UEMNW20S**
S	M 42 x 2	29.5	50	30.0	**UEMNW25S**
S	M 52 x 2	33.0	60	38.0	**UEMNW32S**

Product variants:

Tube nut, ISO 8434-1, DIN 3870, LL/L/S, brass, UEM MG	**...UEMMG**
Tube nut, ISO 8434-1, DIN 3870, LL/L/S, stainless steel, UEM VA	**...UEMVA**

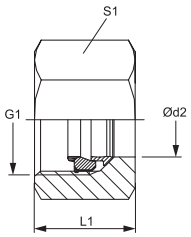
Functional nut, ISO 8434-1, L/S, steel



Connection 1: metric nut thread
Construction type: functional nut
Scope of supply: Union nut
retaining ring (steel)
soft seal NBR
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

www ...UEMFM



Tube outer Ø	Series	Working pressure	G1	L1	S1	Ø d2	Item no.
mm				mm		mm	
4	LL	PN 100	M 8 x 1	11.0	10	4	**UEM04FMLL**
6	LL	PN 100	M 10 x 1	11.5	12	6	**UEM06FMLL**
6	L	PN 500	M 12 x 1.5	14.5	14	6	**UEMNW04FML**
8	L	PN 500	M 14 x 1.5	14.5	17	8	**UEMNW06FML**
10	L	PN 500	M 16 x 1.5	15.5	19	10	**UEMNW08FML**
12	L	PN 400	M 18 x 1.5	15.5	22	12	**UEMNW10FML**
15	L	PN 400	M 22 x 1.5	17.0	27	15	**UEMNW13FML**
18	L	PN 400	M 26 x 1.5	18.0	32	18	**UEMNW16FML**
22	L	PN 250	M 30 x 2	20.0	36	22	**UEMNW20FML**
28	L	PN 250	M 36 x 2	21.0	41	28	**UEMNW25FML**
35	L	PN 250	M 45 x 2	24.0	50	35	**UEMNW32FML**
42	L	PN 250	M 52 x 2	24.0	60	42	**UEMNW40FML**
6	S	PN 800	M 14 x 1.5	16.5	17	6	**UEMNW03FMS**
8	S	PN 800	M 16 x 1.5	16.5	19	8	**UEMNW04FMS**
10	S	PN 800	M 18 x 1.5	17.5	22	10	**UEMNW06FMS**
12	S	PN 630	M 20 x 1.5	17.5	24	12	**UEMNW08FMS**
14	S	PN 630	M 22 x 1.5	20.5	27	14	**UEMNW10FMS**
16	S	PN 630	M 24 x 1.5	20.5	30	16	**UEMNW13FMS**
20	S	PN 420	M 30 x 2	24.0	36	20	**UEMNW16FMS**
25	S	PN 420	M 36 x 2	27.0	46	25	**UEMNW20FMS**
30	S	PN 420	M 42 x 2	29.0	50	30	**UEMNW25FMS**
38	S	PN 420	M 52 x 2	32.5	60	38	**UEMNW32FMS**

Product variants:

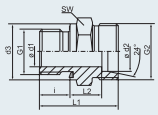
Functional nut, ISO 8434-1, L/S, stainless steel, UEM FM VA	**...UEMFMVA**

Accessories:

Soft seal for UEM...FM, WD NW FM	**...WDNWFM**

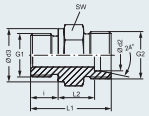
Stud connectors (24° / ISO 8434-1 fittings)

Metric



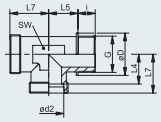
Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, CEL/CES 24°, straight, steel

XVMED Page 65



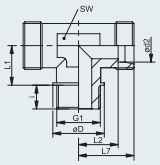
Stud connector, ISO 8434-1, AGM, DIN 3852-1, type B, CELL/CEL/CES 24°, straight, steel

XVM Page 66



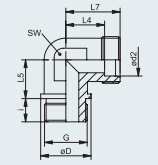
Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, L-shape, steel

XLM Page 68



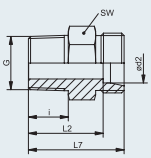
Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, T-shape, steel

XTM Page 68



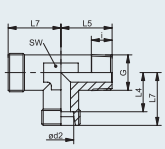
Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, elbow 90°, steel

XWM Page 69



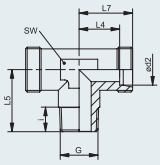
Stud connector, ISO 8434-1, AGM tapered, CELL/CEL/CES 24°, straight, steel

XVMK Page 70



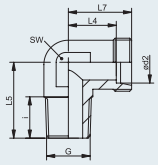
Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, L-shape, steel

XLMK Page 71



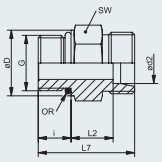
Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, T-shape, steel

XTMK Page 71



Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, elbow 90°, steel

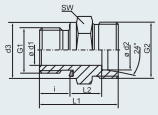
XWMK Page 72



Stud connector, ISO 8434-1, AGM OR, ISO 6149, CELL/CEL/CES 24°, straight, steel

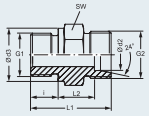
XVMO Page 73

BSP



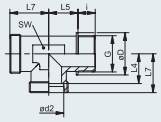
Stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, CELL/CEL/CES 24°, straight, steel

XVRED Page 74



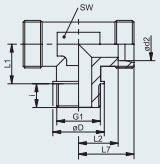
Stud connector, ISO 8434-1, AGR, ISO 1179, type B, CEL/CES 24°, straight, steel

XVR Page 76



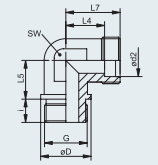
Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, L-shaped, steel

XLR Page 78



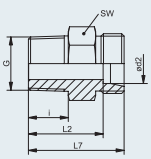
Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, T-shaped, steel

XTR Page 78



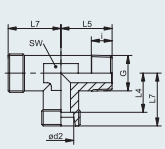
Stud connector, EN 2353, AGR, ISO 1179, type B,CEL/CES 24°, elbow 90°, steel

XWR Page 79



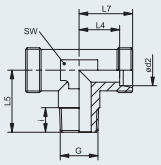
Stud connector, ISO 8434-1, AGR tapered, DIN 3852-2, type C, CELL/CEL/CES 24°, straight, steel

XVRK Page 80



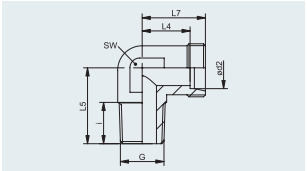
Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, L-shape, steel

XLRK Page 81



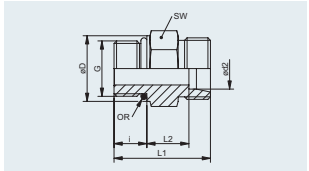
Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, T-shape, steel

XTRK Page 82



Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, elbow 90°, steel

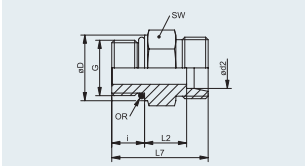
XWRK Page 82



Stud connector, ISO 8434-1, AGR, OR, CEL/CES 24°, straight, steel

XVRO Page 83

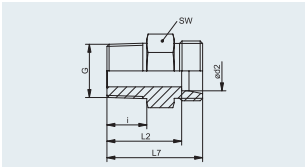
UN / UNF



Stud connector, ISO 8434-1, AG UNF-OR, ISO 11926, CEL/CES 24°, steel

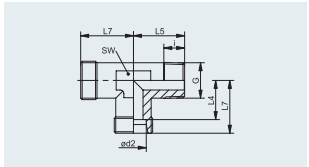
XVU Page 84

NPT



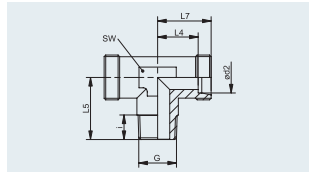
Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, straight, steel

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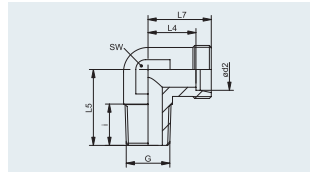
Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, L shape, steel

XLN Page 87



Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, T shape, steel

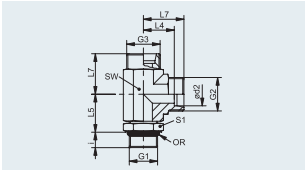
XTN Page 88



Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, elbow 90°, steel

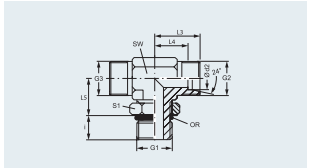
XWN Page 89

Adjustable



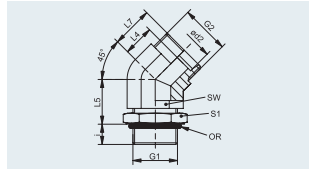
Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, L-shaped, steel

XELOM Page 90



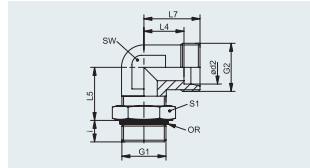
Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, T shape, steel

XETOM Page 91



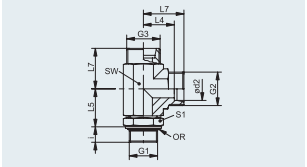
Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, elbow 45°, steel

XEWOM45 Page 91



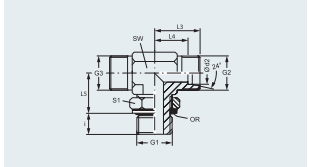
Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, elbow 90°, steel

XEWOM Page 92



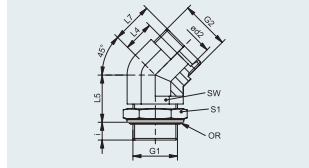
Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, L shape, steel

XELOMK Page 93



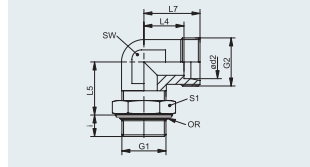
Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, T shape, steel

XETOMK Page 94



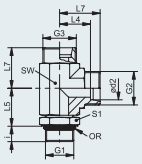
Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, elbow 45°, steel

XEWOMK45 Page 94



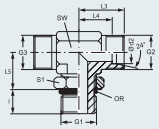
Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, elbow 90°, steel

XEWOMK Page 95



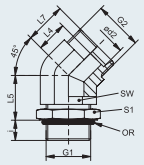
Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, L-shape, steel

XELOR Page 96



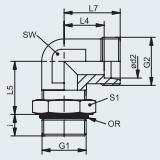
Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, T-shape, steel

XETOR Page 97



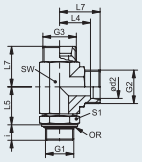
Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, elbow 45°, steel

XEWOR45 Page 97



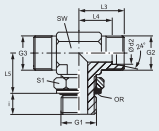
Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, elbow 90°, steel

XEWOR Page 98



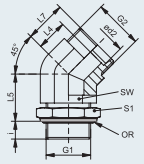
Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, L-shape, steel

XELORK Page 99



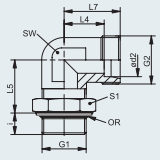
Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, T-shape, steel

XETORK Page 100



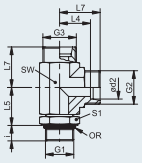
Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, elbow 45°, steel

XEWORK45 Page 100



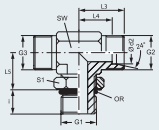
Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, elbow 90°, steel

XEWORK Page 101



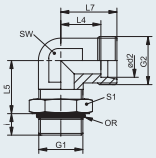
Stud connector, ISO 8434-1, UNF-OR, ISO 11926, adjustable, L type CEL/CES 24°, steel

XELO Page 102



Stud connector, ISO 8434-1, UNF-OR, ISO 11926, adjustable, T-shape, CEL/CES 24°, steel

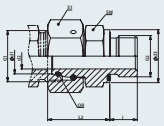
XETO Page 103



Stud connector, ISO 8434-1, AG UNF-OR, ISO 11926, adjustable, elbow 90°, CEL/CES 24°, steel

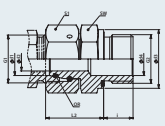
XEWO Page 103

Sealing cones



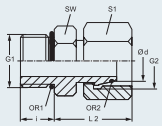
Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, DKOL/DKOS 24°, steel

AOVMED Page 104



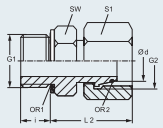
Stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, DKOL/DKOS 24°, steel

AOVRED Page 105



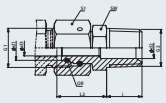
Stud connector, ISO 8434-1, AGR, OR, DKOL/DKOS 24°, steel

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Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, DKOS 24°, steel

AOVROK Page 107



Stud connector, ISO 8434-1, AGN, SAE J 514, DKOL/DKOS 24°, steel

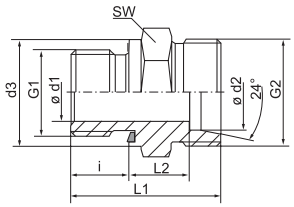
AOVN Page 107

Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, CEL/CES 24°, straight, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 9974-2
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	d3 Ø	Item no.
mm					mm	mm	mm	mm	mm	
6	L	PN 315	M 12 x 1.5	M 10 x 1	8	8.5	14	6	13.9	**XVMNW04HLED**
6	L	PN 315	M 12 x 1.5	M 12 x 1.5	12	9.0	17	6	16.9	**XVMNW04HL12ED**
8	L	PN 315	M 14 x 1.5	M 10 x 1	8	9.5	17	8	13.9	**XVMNW06HL10ED**
8	L	PN 315	M 14 x 1.5	M 12 x 1.5	12	10.0	17	8	16.9	**XVMNW06HLED**
8	L	PN 315	M 14 x 1.5	M 14 x 1.5	12	10.0	19	8	18.9	**XVMNW06HL14ED**
8	L	PN 315	M 14 x 1.5	M 16 x 1.5	12	11.5	22	8	21.9	**XVMNW06HL16ED**
8	L	PN 315	M 14 x 1.5	M 18 x 1.5	12	11.5	24	8	23.9	**XVMNW06HL18ED**
10	L	PN 315	M 16 x 1.5	M 10 x 1	8	10.5	17	10	13.9	**XVMNW08HL10ED**
10	L	PN 315	M 16 x 1.5	M 12 x 1.5	12	11.0	19	10	16.9	**XVMNW08HL12ED**
10	L	PN 315	M 16 x 1.5	M 14 x 1.5	12	11.0	19	10	18.9	**XVMNW08HLED**
10	L	PN 315	M 16 x 1.5	M 16 x 1.5	12	12.5	22	10	21.9	**XVMNW08HL16ED**
10	L	PN 315	M 16 x 1.5	M 18 x 1.5	12	12.5	24	10	23.9	**XVMNW08HL18ED**
10	L	PN 315	M 16 x 1.5	M 22 x 1.5	14	14.0	27	10	26.9	**XVMNW08HL22ED**
12	L	PN 315	M 18 x 1.5	M 14 x 1.5	12	12.5	22	12	18.9	**XVMNW10HL14ED**
12	L	PN 315	M 18 x 1.5	M 16 x 1.5	12	12.5	22	12	21.9	**XVMNW10HLED**
12	L	PN 315	M 18 x 1.5	M 18 x 1.5	12	13.0	24	12	23.9	**XVMNW10HL18ED**
12	L	PN 315	M 18 x 1.5	M 22 x 1.5	14	14.0	27	12	26.9	**XVMNW10HL22ED**
15	L	PN 315	M 22 x 1.5	M 16 x 1.5	12	13.0	24	15	21.9	**XVMNW13HL16ED**
15	L	PN 315	M 22 x 1.5	M 18 x 1.5	12	13.5	24	15	23.9	**XVMNW13HLED**
15	L	PN 315	M 22 x 1.5	M 22 x 1.5	14	14.0	27	15	26.9	**XVMNW13HL22ED**
18	L	PN 315	M 26 x 1.5	M 18 x 1.5	12	14.0	27	18	23.9	**XVMNW16HL18ED**
18	L	PN 315	M 26 x 1.5	M 22 x 1.5	14	14.5	27	18	26.9	**XVMNW16HLED**
22	L	PN 160	M 30 x 2	M 22 x 1.5	14	16.5	32	22	26.9	**XVMNW20HL22ED**
22	L	PN 160	M 30 x 2	M 26 x 1.5	16	16.5	32	22	31.9	**XVMNW20HLED**
28	L	PN 160	M 36 x 2	M 33 x 2	18	17.5	41	28	39.9	**XVMNW25HLED**
35	L	PN 160	M 45 x 2	M 42 x 2	20	17.5	50	35	49.9	**XVMNW32HLED**
42	L	PN 160	M 52 x 2	M 48 x 2	22	19.0	55	42	54.9	**XVMNW40HLED**
6	S	PN 630	M 14 x 1.5	M 12 x 1.5	12	13.0	17	6	16.9	**XVMNW03HSED**
8	S	PN 630	M 16 x 1.5	M 14 x 1.5	12	15.0	19	8	18.9	**XVMNW04HSED**
10	S	PN 630	M 18 x 1.5	M 16 x 1.5	12	15.0	22	10	21.9	**XVMNW06HSED**
12	S	PN 630	M 20 x 1.5	M 18 x 1.5	12	17.0	24	12	23.9	**XVMNW08HSED**
12	S	PN 400	M 20 x 1.5	M 22 x 1.5	14	17.5	27	12	26.9	**XVMNW08HS22ED**
14	S	PN 630	M 22 x 1.5	M 20 x 1.5	14	19.0	27	14	25.9	**XVMNW10HSED**
16	S	PN 400	M 24 x 1.5	M 18 x 1.5	12	18.0	27	16	23.9	**XVMNW13HS18ED**
16	S	PN 400	M 24 x 1.5	M 22 x 1.5	14	18.5	27	16	26.9	**XVMNW13HSED**
20	S	PN 400	M 30 x 2	M 27 x 2	16	20.5	32	20	31.9	**XVMNW16HSED**
25	S	PN 400	M 36 x 2	M 33 x 2	18	23.0	41	25	39.9	**XVMNW20HSED**
30	S	PN 400	M 42 x 2	M 42 x 2	20	23.5	50	30	49.9	**XVMNW25HSED**
38	S	PN 315	M 52 x 2	M 48 x 2	22	26.0	55	38	54.9	**XVMNW32HSED**

Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, CEL/CES 24°, straight, stainless steel, XVM ED VA	**...XVMEDVA**



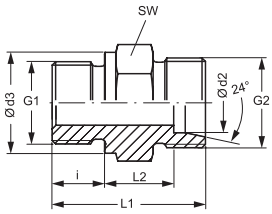




Stud connector, ISO 8434-1, AGM, DIN 3852-1, type B, CELL/CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Construction type: screw-in fitting
Sealing form 1: type B
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Stud connector, ISO 8434-1, AGM, DIN 3852-1, type B, CELL/CEL/CES 24°, straight, steel

Connection 2: metric cylindrical outer thread
Type: straight
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 9974-3
Standard: DIN 2353
ISO 8434-1

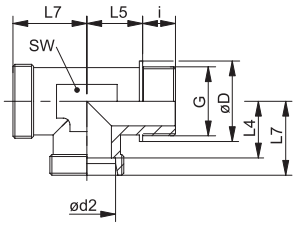
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Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
16	LL	PN 100	M 22 x 1.5	M 18 x 1.5	12	14.5	24	16	**XVM16LL18-1.5**
16	LL	PN 100	M 22 x 1.5	M 22 x 1.5	14	15.5	27	16	**XVM16LL**
6	L	PN 315	M 12 x 1.5	M 10 x 1	8	8.5	14	6	**XVMNW04HL**
6	L	PN 315	M 12 x 1.5	M 12 x 1.5	12	9.0	17	6	**XVMNW04HL12**
6	L	PN 315	M 12 x 1.5	M 14 x 1.5	12	9.0	19	6	**XVMNW04HL14**
6	L	PN 315	M 12 x 1.5	M 16 x 1.5	12	9.0	22	6	**XVMNW04HL16**
6	L	PN 315	M 12 x 1.5	M 18 x 1.5	12	9.5	24	6	**XVMNW04HL18**
6	L	PN 315	M 12 x 1.5	M 22 x 1.5	14	10.0	27	6	**XVMNW04HL22**
8	L	PN 315	M 14 x 1.5	M 10 x 1	8	9.5	17	8	**XVMNW06HL10**
8	L	PN 315	M 14 x 1.5	M 12 x 1.5	12	10.0	17	8	**XVMNW06HL**
8	L	PN 315	M 14 x 1.5	M 14 x 1.5	12	10.0	19	8	**XVMNW06HL14**
8	L	PN 315	M 14 x 1.5	M 16 x 1.5	12	10.0	22	8	**XVMNW06HL16**
8	L	PN 315	M 14 x 1.5	M 18 x 1.5	12	10.5	24	8	**XVMNW06HL18**
8	L	PN 315	M 14 x 1.5	M 22 x 1.5	14	11.0	27	8	**XVMNW06HL22**
10	L	PN 315	M 16 x 1.5	M 12 x 1.5	12	11.0	17	10	**XVMNW08HL12**
10	L	PN 315	M 16 x 1.5	M 14 x 1.5	12	11.0	19	10	**XVMNW08HL**
10	L	PN 315	M 16 x 1.5	M 16 x 1.5	12	11.0	22	10	**XVMNW08HL16**
10	L	PN 315	M 16 x 1.5	M 18 x 1.5	12	11.5	24	10	**XVMNW08HL18**
10	L	PN 315	M 16 x 1.5	M 22 x 1.5	14	12.0	27	10	**XVMNW08HL22**
12	L	PN 315	M 18 x 1.5	M 12 x 1.5	12	12.5	19	12	**XVMNW10HL12**
12	L	PN 315	M 18 x 1.5	M 14 x 1.5	12	12.5	22	12	**XVMNW10HL14**
12	L	PN 315	M 18 x 1.5	M 16 x 1.5	12	12.5	22	12	**XVMNW10HL**
12	L	PN 315	M 18 x 1.5	M 18 x 1.5	12	13.0	24	12	**XVMNW10HL18**
12	L	PN 315	M 18 x 1.5	M 22 x 1.5	14	13.5	27	12	**XVMNW10HL22**
12	L	PN 315	M 18 x 1.5	M 24 x 1.5	14	13.5	32	12	**XVMNW10HL24**
12	L	PN 315	M 18 x 1.5	M 26 x 1.5	16	13.5	32	12	**XVMNW10HL26**
15	L	PN 315	M 22 x 1.5	M 14 x 1.5	12	13.0	24	15	**XVMNW13HL14**
15	L	PN 315	M 22 x 1.5	M 16 x 1.5	12	13.0	24	15	**XVMNW13HL16**

Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
15	L	PN 315	M 22 x 1.5	M 18 x 1.5	12	13.5	24	15	**XVMNW13HL**
15	L	PN 250	M 22 x 1.5	M 20 x 1.5	14	13.5	27	15	**XVMNW13HL20**
15	L	PN 315	M 22 x 1.5	M 22 x 1.5	14	14.0	27	15	**XVMNW13HL22**
15	L	PN 315	M 22 x 1.5	M 26 x 1.5	16	14.0	32	15	**XVMNW13HL26**
15	L	PN 315	M 22 x 1.5	M 30 x 2	16	14.0	41	15	**XVMNW13HL30**
18	L	PN 315	M 26 x 1.5	M 18 x 1.5	12	14.0	27	18	**XVMNW16HL18**
18	L	PN 315	M 26 x 1.5	M 22 x 1.5	14	14.5	27	18	**XVMNW16HL**
18	L	PN 315	M 26 x 1.5	M 26 x 1.5	16	14.5	32	18	**XVMNW16HL26**
18	L	PN 315	M 26 x 1.5	M 27 x 2	16	14.5	32	18	**XVMNW16HL27**
18	L	PN 315	M 26 x 1.5	M 30 x 1.5	16	14.5	41	18	**XVMNW16HL30-1.5**
22	L	PN 160	M 30 x 2	M 18 x 1.5	12	16.0	32	22	**XVMNW20HL18**
22	L	PN 160	M 30 x 2	M 22 x 1.5	14	16.5	32	22	**XVMNW20HL22**
22	L	PN 160	M 30 x 2	M 26 x 1.5	16	16.5	32	22	**XVMNW20HL**
22	L	PN 160	M 30 x 2	M 30 x 1.5	16	16.5	41	22	**XVMNW20HL30-1.5**
28	L	PN 160	M 36 x 2	M 22 x 1.5	14	17.5	41	28	**XVMNW25HL22**
28	L	PN 160	M 36 x 2	M 26 x 1.5	16	17.5	41	28	**XVMNW25HL26**
28	L	PN 160	M 36 x 2	M 27 x 2	16	17.5	41	28	**XVMNW25HL27**
28	L	PN 160	M 36 x 2	M 33 x 2	18	17.5	41	28	**XVMNW25HL**
28	L	PN 160	M 36 x 2	M 42 x 2	22	17.5	50	28	**XVMNW25HL42**
35	L	PN 160	M 45 x 2	M 42 x 2	20	17.5	50	35	**XVMNW32HL**
42	L	PN 160	M 52 x 2	M 48 x 2	22	19.0	55	42	**XVMNW40HL**
6	S	PN 400	M 14 x 1.5	M 12 x 1.5	12	13.0	17	6	**XVMNW03HS**
6	S	PN 400	M 14 x 1.5	M 16 x 1.5	12	13.0	22	6	**XVMNW03HS16**
6	S	PN 400	M 14 x 1.5	M 18 x 1.5	12	13.5	24	6	**XVMNW03HS18**
6	S	PN 400	M 14 x 1.5	M 22 x 1.5	14	14.0	27	6	**XVMNW03HS22**
8	S	PN 400	M 16 x 1.5	M 14 x 1.5	12	15.0	19	8	**XVMNW04HS**
10	S	PN 400	M 18 x 1.5	M 16 x 1.5	12	15.0	22	10	**XVMNW06HS**
10	S	PN 400	M 18 x 1.5	M 18 x 1.5	12	15.5	24	10	**XVMNW06HS18**
10	S	PN 400	M 18 x 1.5	M 22 x 1.5	14	16.0	27	10	**XVMNW06HS22**
12	S	PN 400	M 20 x 1.5	M 14 x 1.5	12	16.5	22	12	**XVMNW08HS14**
12	S	PN 400	M 20 x 1.5	M 16 x 1.5	12	16.5	22	12	**XVMNW08HS16**
12	S	PN 400	M 20 x 1.5	M 18 x 1.5	12	17.0	24	12	**XVMNW08HS**
12	S	PN 400	M 20 x 1.5	M 22 x 1.5	14	17.5	27	12	**XVMNW08HS22**
14	S	PN 400	M 22 x 1.5	M 16 x 1.5	12	18.5	24	14	**XVMNW10HS16**
14	S	PN 400	M 22 x 1.5	M 18 x 1.5	12	19.0	24	14	**XVMNW10HS18**
14	S	PN 400	M 22 x 1.5	M 20 x 1.5	14	19.0	27	14	**XVMNW10HS**
14	S	PN 400	M 22 x 1.5	M 22 x 1.5	14	19.5	27	14	**XVMNW10HS22**
16	S	PN 400	M 24 x 1.5	M 16 x 1.5	12	17.5	27	16	**XVMNW13HS16**
16	S	PN 400	M 24 x 1.5	M 18 x 1.5	12	18.0	27	16	**XVMNW13HS18**
16	S	PN 400	M 24 x 1.5	M 22 x 1.5	14	18.5	27	16	**XVMNW13HS**
16	S	PN 400	M 24 x 1.5	M 26 x 1.5	16	18.5	32	16	**XVMNW13HS26**
20	S	PN 400	M 30 x 2	M 22 x 1.5	14	20.5	32	20	**XVMNW16HS22**
20	S	PN 400	M 30 x 2	M 26 x 1.5	16	20.5	32	20	**XVMNW16HS26**
20	S	PN 400	M 30 x 2	M 27 x 2	16	20.5	32	20	**XVMNW16HS**
20	S	PN 400	M 30 x 2	M 30 x 1.5	16	20.5	36	20	**XVMNW16HS30-1.5**
25	S	PN 250	M 36 x 2	M 26 x 1.5	16	20.0	41	25	**XVMNW20HS26**
25	S	PN 250	M 36 x 2	M 27 x 2	16	23.0	41	25	**XVMNW20HS27**
25	S	PN 250	M 36 x 2	M 30 x 1.5	16	23.0	41	25	**XVMNW20HS30-1.5**
25	S	PN 250	M 36 x 2	M 33 x 2	18	23.0	41	25	**XVMNW20HS**
30	S	PN 160	M 42 x 2	M 30 x 1.5	16	23.5	50	30	**XVMNW25HS30-1.5**
30	S	PN 160	M 42 x 2	M 38 x 1.5	16	19.5	46	30	**XVMNW25HS38-1.5**
30	S	PN 160	M 42 x 2	M 42 x 2	20	23.5	50	30	**XVMNW25HS**
38	S	PN 160	M 52 x 2	M 38 x 1.5	20	26.0	50	38	**XVMNW32HS38-1.5**
38	S	PN 160	M 52 x 2	M 45 x 1.5	22	26.0	55	38	**XVMNW32HS45-1.5**
38	S	PN 160	M 52 x 2	M 48 x 2	22	26.0	55	38	**XVMNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGM, DIN 3852-1, type B, CELL/CEL/CES 24°, straight, stainless steel, XVM VA	**...XVMVA**



Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, L-shape, steel

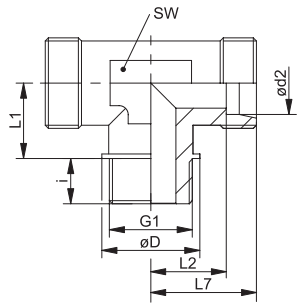
Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

...XLM

Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	mm	
22	L	PN 160	M 26 x 1.5	16	27.5	26	35	27	31.0	22	**XLMNW20HL**
28	L	PN 160	M 33 x 2	18	30.5	30	38	36	39.0	28	**XLMNW25HL**
35	L	PN 160	M 42 x 2	20	34.5	34	45	41	49.0	35	**XLMNW32HL**
42	L	PN 160	M 48 x 2	22	40.0	39	51	50	55.0	42	**XLMNW40HL**
20	S	PN 400	M 27 x 2	16	26.5	26	37	27	32.0	20	**XLMNW16HS**
25	S	PN 400	M 33 x 2	18	30.0	30	42	36	39.0	25	**XLMNW20HS**
30	S	PN 250	M 42 x 2	20	35.5	34	49	41	49.0	30	**XLMNW25HS**
38	S	PN 250	M 48 x 2	22	41.0	39	57	50	55.0	38	**XLMNW32HS**

Product variants:

Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, L-shaped, stainless steel, **...XLMVA**
XLM VA



Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, T-shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

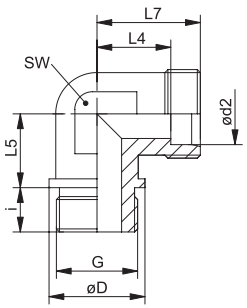
...XTM

Tube outer Ø	Series	Working pressure	G	i	L1	L2	L7	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	mm	
22	L	PN 160	M 26 x 1.5	16	26	27.5	35	27	31.0	22	**XTMNW20HL**
28	L	PN 160	M 33 x 2	18	30	30.5	38	36	39.0	28	**XTMNW25HL**
35	L	PN 160	M 42 x 2	20	34	34.5	45	41	49.0	35	**XTMNW32HL**
42	L	PN 160	M 48 x 2	22	39	41.0	51	50	55.0	42	**XTMNW40HL**
20	S	PN 400	M 27 x 2	16	26	26.5	39	27	32.0	20	**XTMNW16HS**
25	S	PN 250	M 33 x 2	18	30	30.0	42	36	39.0	25	**XTMNW20HS**
30	S	PN 160	M 42 x 2	20	34	35.5	49	41	49.0	30	**XTMNW25HS**
38	S	PN 160	M 48 x 2	22	39	41.0	57	50	55.0	38	**XTMNW32HS**

Product variants:

Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, T-shaped, stainless steel, **...XTMVA**
XTM VA

Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, elbow 90°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	D	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm			mm		mm	mm	mm	mm	mm	mm	
22	L	PN 160	31	M 26 x 1.5	16	27.5	26	35	27	22	**XWMNW20HL**
28	L	PN 160	39	M 33 x 2	18	30.5	30	38	36	28	**XWMNW25HL**
35	L	PN 160	49	M 42 x 2	20	34.5	34	45	41	35	**XWMNW32HL**
42	L	PN 160	55	M 48 x 2	22	40.0	39	51	50	42	**XWMNW40HL**
20	S	PN 400	32	M 27 x 2	16	26.5	26	37	27	20	**XWMNW16HS**
25	S	PN 250	39	M 33 x 2	18	30.0	30	42	36	25	**XWMNW20HS**
30	S	PN 160	49	M 42 x 2	20	35.5	34	49	41	30	**XWMNW25HS**
38	S	PN 160	55	M 48 x 2	22	41.0	39	57	50	38	**XWMNW32HS**

Product variants:

Stud connector, EN 2353, AGM, DIN 3852-1, type B, CEL/CES 24°, elbow 90°, stainless steel, XWM VA **...XWMVA**



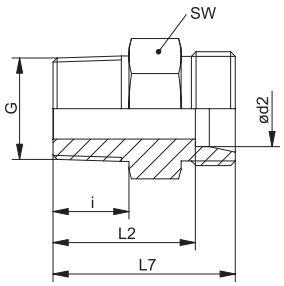




Stud connector, ISO 8434-1, AGM tapered, DIN 3852-1, type C, CELL/CEL/CES 24°, steel

Connection 1: metric conical outer thread
Construction type: screw-in fitting
Sealing form 1: thread seal
Scope of supply: connector without union nut and cutting ring
Standard connection 1: DIN 3852-1
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Stud connector, ISO 8434-1, AGM tapered, CELL/CEL/CES 24°, straight, steel

Connection 2: metric cylindrical outer thread
Type: straight
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

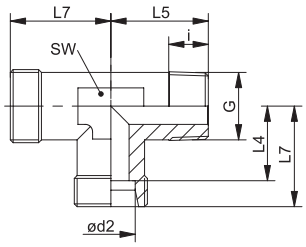
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Tube outer Ø	Series	Working pressure	G	i	L2	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
4	LL	PN 100	M 6 x 1 K	8	16.0	20	9	4	**XVM04LL6**
4	LL	PN 100	M 8 x 1 K	8	16.0	20	9	4	**XVM04LL**
4	LL	PN 100	M 10 x 1 K	8	16.0	20	11	4	**XVM04LL10**
5	LL	PN 100	M 8 x 1 K	8	14.5	20	11	5	**XVM05LL**
6	LL	PN 100	M 6 x 1 K	8	14.5	20	11	6	**XVM06LL6**
6	LL	PN 100	M 8 x 1 K	8	14.5	20	11	6	**XVM06LL8**
6	LL	PN 100	M 10 x 1 K	8	14.5	20	11	6	**XVM06LL**
8	LL	PN 100	M 10 x 1 K	8	16.5	22	12	8	**XVM08LL**
12	LL	PN 100	M 16 x 1.5 K	12	21.0	27	19	12	**XVM12LL**
6	L	PN 315	M 10 x 1 K	8	15.0	22	12	6	**XVMKNW04HL**
8	L	PN 315	M 12 x 1.5 K	12	20.0	27	14	8	**XVMKNW06HL**
10	L	PN 315	M 14 x 1.5 K	12	21.0	28	17	10	**XVMKNW08HL**
12	L	PN 315	M 16 x 1.5 K	12	22.0	29	19	12	**XVMKNW10HL**
15	L	PN 315	M 18 x 1.5 K	12	23.0	30	24	15	**XVMKNW13HL**
18	L	PN 315	M 22 x 1.5 K	14	25.5	33	27	18	**XVMKNW16HL**
22	L	PN 160	M 26 x 1.5 K	18	31.5	39	32	22	**XVMKNW20HL**
28	L	PN 160	M 33 x 2 K	20	34.5	42	41	28	**XVMKNW25HL**
35	L	PN 160	M 42 x 2 K	21	35.5	46	46	35	**XVMKNW32HL**
42	L	PN 160	M 48 x 2 K	22	38.0	49	55	42	**XVMKNW40HL**
6	S	PN 630	M 12 x 1.5 K	12	24.0	31	14	6	**XVMKNW03HS**

Product variants:

Stud connector, ISO 8434-1, AGM tapered, CELL/CEL/CES 24°, straight, stainless steel, XVMK VA **...XVMKVA**

Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, L-shape, steel



Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

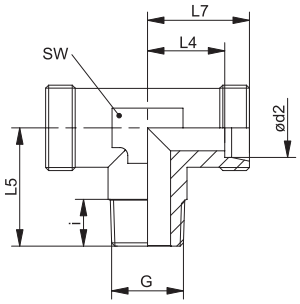
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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	M 8 x 1 K	8	11.0	17	15	9	4	**XLM04LL**
5	LL	PN 100	M 8 x 1 K	8	9.5	17	15	11	5	**XLM05LL**
6	LL	PN 100	M 10 x 1 K	8	9.5	17	15	9	6	**XLM06LL**
8	LL	PN 100	M 10 x 1 K	8	11.5	20	17	12	8	**XLM08LL**
6	L	PN 315	M 10 x 1 K	8	12.0	20	19	12	6	**XLMNW04HL**
8	L	PN 315	M 12 x 1.5 K	12	14.0	26	21	12	8	**XLMNW06HL**
10	L	PN 315	M 14 x 1.5 K	12	15.0	27	22	14	10	**XLMNW08HL**
12	L	PN 315	M 16 x 1.5 K	12	17.0	28	24	17	12	**XLMNW10HL**
15	L	PN 316	M 18 x 1.5 K	12	21.0	32	26	19	15	**XLMNW13HL**
18	L	PN 315	M 22 x 1.5 K	14	23.5	36	31	24	18	**XLMNW16HL**
6	S	PN 400	M 12 x 1.5 K	12	16.0	26	23	12	6	**XLMNW03HS**
8	S	PN 400	M 14 x 1.5 K	12	17.0	27	24	14	8	**XLMNW04HS**
10	S	PN 400	M 16 x 1.5 K	12	17.5	28	25	17	10	**XLMNW06HS**
12	S	PN 400	M 18 x 1.5 K	12	21.5	28	29	17	12	**XLMNW08HS**
14	S	PN 400	M 20 x 1.5 K	14	22.0	32	30	19	14	**XLMNW10HS**
16	S	PN 400	M 22 x 1.5 K	14	24.5	32	33	24	16	**XLMNW13HS**

Product variants:

Stud connector, EN 2353, AGM tapered, CEL/CES 24°, L-shaped, stainless steel, XLMK VA **...XLMKVA**

Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, T-shape, steel



Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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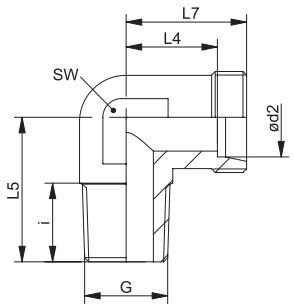
Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	M 8 x 1 K	8	11.0	17	15	9	4	**XTM04LL**
5	LL	PN 100	M 8 x 1 K	8	9.5	17	15	9	5	**XTM05LL**
6	LL	PN 100	M 10 x 1 K	8	9.5	17	15	9	6	**XTM06LL**
8	LL	PN 100	M 10 x 1 K	8	11.5	20	17	12	8	**XTM08LL**
6	L	PN 315	M 10 x 1 K	8	12.0	20	19	12	6	**XTMNW04HL**
8	L	PN 315	M 12 x 1.5 K	12	14.0	26	21	12	8	**XTMNW06HL**
10	L	PN 315	M 14 x 1.5 K	12	15.0	27	22	14	10	**XTMNW08HL**
12	L	PN 315	M 16 x 1.5 K	12	17.0	28	24	17	12	**XTMNW10HL**
15	L	PN 315	M 18 x 1.5 K	12	21.0	32	28	19	15	**XTMNW13HL**
18	L	PN 315	M 22 x 1.5 K	14	23.5	34	31	24	18	**XTMNW16HL**
6	S	PN 400	M 12 x 1.5 K	12	16.0	26	23	12	6	**XTMNW03HS**
8	S	PN 400	M 14 x 1.5 K	12	17.0	26	24	14	8	**XTMNW04HS**
10	S	PN 400	M 16 x 1.5 K	12	17.5	27	25	17	10	**XTMNW06HS**

Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
12	S	PN 400	M 18 x 1.5 K	12	21.5	28	29	19	12	**XTMNW08HS**
14	S	PN 400	M 20 x 1.5 K	14	22.0	32	30	19	14	**XTMNW10HS**
16	S	PN 400	M 22 x 1.5 K	14	24.5	32	33	24	16	**XTMNW13HS**

Product variants:

Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, T-shaped, stainless steel, XTMK VA **...XTMKVA**

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Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, elbow 90°, steel

Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	M 8 x 1 K	8.0	11.0	17	15	9	4	**XWM04LL**
4	LL	PN 100	M 6 x 1 K	8.0	11.0	17	15	9	4	**XWM04LL6**
5	LL	PN 100	M 8 x 1 K	8.0	9.5	17	15	9	5	**XWM05LL**
6	LL	PN 100	M 10 x 1 K	9.0	9.5	17	15	9	6	**XWM06LL**
6	LL	PN 100	M 6 x 1 K	7.0	9.5	17	15	9	6	**XWM06LL6**
6	LL	PN 100	M 8 x 1 K	8.0	9.5	17	15	9	6	**XWM06LL8**
8	LL	PN 100	M 10 x 1 K	10.0	11.5	20	17	12	8	**XWM08LL**
6	L	PN 315	M 10 x 1 K	8.0	12.0	20	19	12	6	**XWMNW04HL**
6	L	PN 315	M 12 x 1.5 K	12.0	12.0	22	19	12	6	**XWMNW04HL12**
8	L	PN 315	M 12 x 1.5 K	12.0	14.0	26	21	12	8	**XWMNW06HL**
10	L	PN 315	M 14 x 1.5 K	11.5	15.0	27	22	14	10	**XWMNW08HL**
10	L	PN 315	M 16 x 1.5 K	11.5	15.0	28	22	14	10	**XWMNW08HL16**
12	L	PN 315	M 16 x 1.5 K	11.5	17.0	28	24	17	12	**XWMNW10HL**
15	L	PN 315	M 18 x 1.5 K	13.5	21.0	32	28	19	15	**XWMNW13HL**
18	L	PN 315	M 22 x 1.5 K	15.0	23.5	36	31	24	18	**XWMNW16HL**
6	S	PN 400	M 12 x 1.5 K	12.0	16.0	26	23	12	6	**XWMNW03HS**
8	S	PN 400	M 14 x 1.5 K	12.0	17.0	27	24	14	8	**XWMNW04HS**
10	S	PN 400	M 16 x 1.5 K	12.0	17.5	28	25	17	10	**XWMNW06HS**
12	S	PN 400	M 18 x 1.5 K	12.0	21.5	28	29	17	12	**XWMNW08HS**
14	S	PN 400	M 20 x 1.5 K	14.0	22.0	32	30	19	14	**XWMNW10HS**
16	S	PN 400	M 22 x 1.5 K	14.0	24.5	32	33	24	16	**XWMNW13HS**

Product variants:

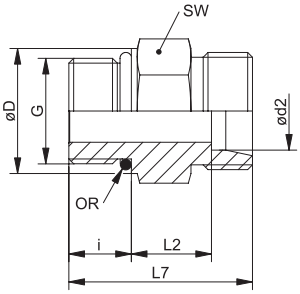
Stud connector, EN 2353, AGM tapered, CELL/CEL/CES 24°, elbow 90°, stainless steel, XWMK VA **...XWMKVA**

Stud connector, ISO 8434-1, AGM OR, ISO 6149, CELL/ CEL/CES 24°, straight, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type F
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 6149
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

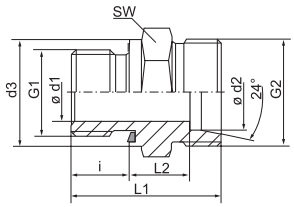
Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Tube outer Ø	Series	Working pressure	OR	G	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
4	LL	PN 100	6.1 x 1.6	M 8 x 1	6.5	9.5	11	4	**XVMO04LL**
4	LL	PN 100	8.0 x 1.5	M 10 x 1	6.5	9.5	13	4	**XVMO04LL10**
6	LL	PN 100	8.0 x 1.5	M 10 x 1	6.5	8.0	13	6	**XVMO06LL**
6	L	PN 315	8.0 x 1.5	M 10 x 1	8.5	8.5	14	6	**XVMONW04HL**
8	L	PN 315	9.3 x 2.4	M 12 x 1.5	11.0	10.0	17	8	**XVMONW06HL**
10	L	PN 315	11.3 x 2.4	M 14 x 1.5	11.0	11.0	19	10	**XVMONW08HL**
12	L	PN 315	13.3 x 2.4	M 16 x 1.5	11.5	12.5	22	12	**XVMONW10HL**
12	L	PN 250	15.3 x 2.4	M 18 x 1.5	12.0	12.5	24	12	**XVMONW10HL18**
12	L	PN 315	19.3 x 2.2	M 22 x 1.5	13.0	14.0	27	12.0	**XVMONW10HL22**
15	L	PN 250	15.3 x 2.4	M 18 x 1.5	12.5	13.5	24	15	**XVMONW13HL**
15	L	PN 250	19.3 x 2.4	M 22 x 1.5	13.0	15.0	27	15	**XVMONW13HL22**
18	L	PN 160	19.3 x 2.4	M 22 x 1.5	13.0	14.5	27	18	**XVMONW16HL**
18	L	PN 160	23.6 x 2.9	M 27 x 2	16.0	14.5	27	18	**XVMONW16HL27**
22	L	PN 160	23.3 x 2.4	M 26 x 1.5	16.0	17.5	41	22	**XVMONW20HL**
22	L	PN 160	23.6 x 2.9	M 27 x 2	16.0	16.5	32	22	**XVMONW20HL27**
28	L	PN 160	29.5 x 3.0	M 33 x 2	16.0	17.5	41	28	**XVMONW25HL**
35	L	PN 160	38.0 x 3.0	M 42 x 2	16.0	17.5	50	35	**XVMONW32HL**
42	L	PN 160	44.6 x 3.0	M 48 x 2	17.5	19.0	55	42	**XVMONW40HL**
6	S	PN 630	9.3 x 2.4	M 12 x 1.5	11.0	13.0	17	6	**XVMONW03HS**
8	S	PN 630	11.3 x 2.4	M 14 x 1.5	11.0	15.0	19	8	**XVMONW04HS**
10	S	PN 630	13.3 x 2.4	M 16 x 1.5	12.5	15.0	22	10	**XVMONW06HS**
12	S	PN 630	15.3 x 2.4	M 18 x 1.5	14.0	17.0	24	12	**XVMONW08HS**
16	S	PN 400	19.3 x 2.4	M 22 x 1.5	15.0	18.5	27	16	**XVMONW13HS**
20	S	PN 400	23.5 x 3.0	M 27 x 2	18.5	20.5	32	20	**XVMONW16HS**
25	S	PN 400	29.5 x 3.0	M 33 x 2	18.5	23.0	41	25	**XVMONW20HS**
30	S	PN 250	38.0 x 3.0	M 42 x 2	19.0	23.5	50	30	**XVMONW25HS**
38	S	PN 315	46.7 x 2.8	M 48 x 2	21.5	26.0	55	38	**XVMONW32HS**





Stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, CELL/CEL/CES 24°, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-2
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
4	LL	PN 100	M 8 x 1	G 1/8" -28	8	9.5	14	4	XVR04LLED
6	LL	PN 100	M 10 x 1	G 1/8" -28	8	8.0	14	6	XVR06LLED
6	L	PN 315	M 12 x 1.5	G 1/8" -28	8	8.5	14	6	XVRNW04HLED
6	L	PN 315	M 12 x 1.5	G 1/4" -19	12	10.0	19	6	XVRNW04HL1/4ED
6	L	PN 315	M 12 x 1.5	G 3/8" -19	12	10.5	22	6	XVRNW04HL3/8ED
6	L	PN 315	M 12 x 1.5	G 1/2" -14	14	12.0	27	6	XVRNW04HL1/2ED
8	L	PN 315	M 14 x 1.5	G 1/8" -28	8	9.5	14	8	XVRNW06HL1/8ED
8	L	PN 315	M 14 x 1.5	G 1/4" -19	12	10.0	19	8	XVRNW06HLED
8	L	PN 315	M 14 x 1.5	G 3/8" -19	12	11.5	22	8	XVRNW06HL3/8ED
8	L	PN 315	M 14 x 1.5	G 1/2" -14	14	12.0	27	8	XVRNW06HL1/2ED
10	L	PN 315	M 16 x 1.5	G 1/8" -28	8	10.5	19	10	XVRNW08HL1/8ED
10	L	PN 315	M 16 x 1.5	G 1/4" -19	12	11.0	19	10	XVRNW08HLED
10	L	PN 315	M 16 x 1.5	G 3/8" -19	12	12.5	22	10	XVRNW08HL3/8ED
10	L	PN 315	M 16 x 1.5	G 1/2" -14	14	13.0	27	10	XVRNW08HL1/2ED
12	L	PN 315	M 18 x 1.5	G 1/4" -19	12	12.5	22	12	XVRNW10HL1/4ED
12	L	PN 315	M 18 x 1.5	G 3/8" -19	12	12.5	22	12	XVRNW10HLED
12	L	PN 315	M 18 x 1.5	G 1/2" -14	14	13.0	27	12	XVRNW10HL1/2ED
12	L	PN 250	M 18 x 1.5	G 3/4" -14	16	13.0	32	12	XVRNW10HL3/4ED
15	L	PN 315	M 22 x 1.5	G 3/8" -19	12	14.0	27	15	XVRNW13HL3/8ED
15	L	PN 315	M 22 x 1.5	G 1/2" -14	14	14.0	27	15	XVRNW13HLED
15	L	PN 250	M 22 x 1.5	G 3/4" -14	16	15.0	32	15	XVRNW13HL3/4ED
18	L	PN 315	M 26 x 1.5	G 3/8" -19	12	14.0	27	18	XVRNW16HL3/8ED
18	L	PN 315	M 26 x 1.5	G 1/2" -14	14	14.5	27	18	XVRNW16HLED
18	L	PN 250	M 26 x 1.5	G 3/4" -14	16	14.5	32	18	XVRNW16HL3/4ED
22	L	PN 160	M 30 x 2	G 1/2" -14	14	16.5	32	22	XVRNW20HL1/2ED
22	L	PN 160	M 30 x 2	G 3/4" -14	16	16.5	32	22	XVRNW20HLED
22	L	PN 160	M 30 x 2	G 1" -11	18	16.5	41	22	XVRNW20HL1ED
28	L	PN 160	M 36 x 2	G 3/4" -14	16	17.5	41	28	XVRNW25HL3/4ED
28	L	PN 160	M 36 x 2	G 1" -11	18	17.5	41	28	XVRNW25HLED
28	L	PN 160	M 36 x 2	G 1.1/4" -11	20	18.5	50	28	XVRNW25HL11/4ED
35	L	PN 160	M 45 x 2	G 1" -11	18	17.5	50	35	XVRNW32HL1ED
35	L	PN 160	M 45 x 2	G 1.1/4" -11	20	17.5	50	35	XVRNW32HLED
35	L	PN 160	M 45 x 2	G 1.1/2"	22	19.5	55	35	XVRNW32HL11/2ED
42	L	PN 160	M 52 x 2	G 1.1/4" -11	20	19.0	55	42	XVRNW40HL11/4ED
42	L	PN 160	M 52 x 2	G 1.1/2" -11	22	19.0	55	42	XVRNW40HLED
6	S	PN 630	M 14 x 1.5	G 1/4" -19	12	13.0	19	6	XVRNW03HSED
6	S	PN 630	M 14 x 1.5	G 1/2" -14	14	18.0	27	6	XVRNW03HS1/2ED
8	S	PN 630	M 16 x 1.5	G 1/4" -19	12	15.0	19	8	XVRNW04HSED
8	S	PN 630	M 16 x 1.5	G 3/8" -19	12	15.5	22	8	XVRNW04HS3/8ED
10	S	PN 630	M 18 x 1.5	G 1/4" -19	12	14.5	22	10	XVRNW06HS1/4ED
10	S	PN 630	M 18 x 1.5	G 3/8" -19	12	15.0	22	10	XVRNW06HSED

Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
10	S	PN 630	M 18 x 1.5	G 1/2" -14	14	17.5	27	10	**XVRNW06HS1/2ED**
12	S	PN 630	M 20 x 1.5	G 1/4" -19	12	16.5	22	12	**XVRNW08HS1/4ED**
12	S	PN 630	M 20 x 1.5	G 3/8" -19	12	17.0	22	12	**XVRNW08HSED**
12	S	PN 630	M 20 x 1.5	G 1/2" -14	14	17.5	27	12	**XVRNW08HS1/2ED**
14	S	PN 630	M 22 x 1.5	G 3/8" -19	12	18.5	27	14	**XVRNW10HS3/8ED**
14	S	PN 630	M 22 x 1.5	G 1/2" -14	14	19.0	27	14	**XVRNW10HSED**
14	S	PN 630	M 22 x 1.5	G 3/4" -14	16	21.0	32	14	**XVRNW10HS3/4ED**
16	S	PN 400	M 24 x 1.5	G 3/8" -19	12	18.0	27	16	**XVRNW13HS3/8ED**
16	S	PN 400	M 24 x 1.5	G 1/2" -14	14	18.5	27	16	**XVRNW13HSED**
16	S	PN 400	M 24 x 1.5	G 3/4" -14	16	20.5	32	16	**XVRNW13HS3/4ED**
16	S	PN 400	M 24 x 1.5	G 1"	18	18.8	41	16	**XVRNW13HS1ED**
20	S	PN 400	M 30 x 2	G 1/2" -14	14	20.5	32	20	**XVRNW16HS1/2ED**
20	S	PN 400	M 30 x 2	G 3/4" -14	16	20.5	32	20	**XVRNW16HSED**
20	S	PN 400	M 30 x 2	G 1" -11	18	22.5	41	20	**XVRNW16HS1ED**
25	S	PN 400	M 36 x 2	G 1/2" -14	14	23.0	41	25	**XVRNW20HS1/2ED**
25	S	PN 400	M 36 x 2	G 3/4" -14	16	23.0	41	25	**XVRNW20HS3/4ED**
25	S	PN 400	M 36 x 2	G 1" -11	18	23.0	41	25	**XVRNW20HSED**
30	S	PN 400	M 42 x 2	G 1" -11	18	23.5	50	30	**XVRNW25HS1ED**
30	S	PN 400	M 42 x 2	G 1.1/4" -11	20	23.5	50	30	**XVRNW25HSED**
38	S	PN 315	M 52 x 2	G 1.1/4" -11	20	26.0	55	38	**XVRNW32HS11/4ED**
38	S	PN 315	M 52 x 2	G 1.1/2" -11	22	26.0	55	38	**XVRNW32HSED**

Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, CEL/CES 24°, straight, stain-less steel, XVR ED VA	**...XVREDVA**



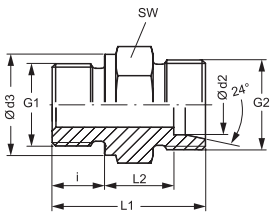




Stud connector, ISO 8434-1, AGR, ISO 1179, type B, CEL/CES 24°, steel

Connection 1: BSPP male thread, cylindric
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Construction type: screw-in fitting
Sealing form 1: type B
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Stud connector, ISO 8434-1, AGR, ISO 1179, type B, CEL/CES 24°, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type B
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-4
Standard: DIN 2353
ISO 8434-1
Material: steel

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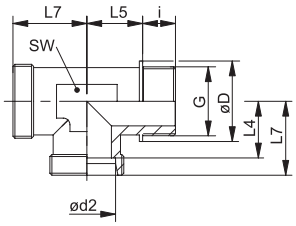
Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	d3 Ø	Item no.
mm					mm	mm	mm	mm	mm	
6	L	PN 315	M 12 x 1.5	G 1/8" -28	8	8.5	14	6	14	**XVRNW04HL**
8	L	PN 315	M 14 x 1.5	G 1/8" -28	8	9.0	14	8	14	**XVRNW06HL1/8**
6	L	PN 315	M 12 x 1.5	G 1/4" -19	12	10.0	19	6	18	**XVRNW04HL1/4**
6	L	PN 315	M 12 x 1.5	G 3/8" -19	12	11.5	22	6	22	**XVRNW04HL3/8**
6	L	PN 315	M 12 x 1.5	G 1/2" -14	14	12.0	27	6	26	**XVRNW04HL1/2**
8	L	PN 315	M 14 x 1.5	G 1/4" -19	12	10.0	19	8	18	**XVRNW06HL**
8	L	PN 315	M 14 x 1.5	G 3/8" -19	12	11.5	22	8	22	**XVRNW06HL3/8**
8	L	PN 315	M 14 x 1.5	G 1/2" -14	14	12.0	27	8	26	**XVRNW06HL1/2**
10	L	PN 315	M 16 x 1.5	G 1/8" -28	8	10.5	17	10	14	**XVRNW08HL1/8**
10	L	PN 315	M 16 x 1.5	G 1/4" -19	12	11.0	19	10	18	**XVRNW08HL**
10	L	PN 315	M 16 x 1.5	G 3/8" -19	12	12.5	22	10	22	**XVRNW08HL3/8**
10	L	PN 315	M 16 x 1.5	G 1/2" -14	14	13.0	27	10	26	**XVRNW08HL1/2**
12	L	PN 315	M 18 x 1.5	G 1/8" -28	8	11.5	19	12	14	**XVRNW10HL1/8**
12	L	PN 315	M 18 x 1.5	G 1/4" -19	12	12.0	19	12	18	**XVRNW10HL1/4**
12	L	PN 315	M 18 x 1.5	G 3/8" -19	12	12.5	22	12	22	**XVRNW10HL**
12	L	PN 315	M 18 x 1.5	G 1/2" -14	14	13.0	27	12	26	**XVRNW10HL1/2**
12	L	PN 315	M 18 x 1.5	G 3/4" -14	16	14.0	32	12	32	**XVRNW10HL3/4**
15	L	PN 315	M 22 x 1.5	G 1/4" -19	12	13.0	24	15	18	**XVRNW13HL1/4**
15	L	PN 250	M 22 x 1.5	G 3/8" -19	12	14.0	24	15	22	**XVRNW13HL3/8**
15	L	PN 250	M 22 x 1.5	G 1/2" -14	14	14.0	27	15	26	**XVRNW13HL**
15	L	PN 250	M 22 x 1.5	G 3/4" -14	16	15.0	32	15	32	**XVRNW13HL3/4**
15	L	PN 250	M 22 x 1.5	G 1" -11	18	17.5	41	15	39	**XVRNW13HL1**
18	L	PN 250	M 26 x 1.5	G 3/8" -19	12	14.0	27	18	22	**XVRNW16HL3/8**
18	L	PN 250	M 26 x 1.5	G 1/2" -14	14	14.5	27	18	26	**XVRNW16HL**



Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	d3 Ø	Item no.
mm					mm	mm	mm	mm	mm	
18	L	PN 250	M 26 x 1.5	G 3/4" -14	16	14.5	32	18	32	**XVRNW16HL3/4**
18	L	PN 250	M 26 x 1.5	G 1" -11	18	15.0	41	18	39	**XVRNW16HL1**
22	L	PN 160	M 30 x 2	G 1/2" -14	14	16.5	32	22	26	**XVRNW20HL1/2**
22	L	PN 160	M 30 x 2	G 3/4" -14	16	16.5	32	22	32	**XVRNW20HL**
22	L	PN 160	M 30 x 2	G 1" -11	18	17.5	41	22	39	**XVRNW20HL1**
28	L	PN 160	M 36 x 2	G 1/2" -14	14	18.5	41	28	26	**XVRNW25HL1/2**
28	L	PN 160	M 36 x 2	G 3/4" -14	16	17.5	41	28	32	**XVRNW25HL3/4**
28	L	PN 160	M 36 x 2	G 1" -11	18	17.5	41	28	39	**XVRNW25HL**
28	L	PN 160	M 36 x 2	G 1.1/4" -11	20	18.3	50	28	49	**XVRNW25HL11/4**
35	L	PN 160	M 45 x 2	G 3/4" -14	16	18.5	46	35	32	**XVRNW32HL3/4**
35	L	PN 160	M 45 x 2	G 1" -11	18	18.5	50	35	39	**XVRNW32HL1**
35	L	PN 160	M 45 x 2	G 1.1/4" -11	20	17.5	50	35	49	**XVRNW32HL**
35	L	PN 160	M 45 x 2	G 1.1/2" -11	22	18.5	55	35	55	**XVRNW32HL11/2**
42	L	PN 160	M 52 x 2	G 1.1/4" -11	20	19.0	55	42	49	**XVRNW40HL11/4**
42	L	PN 160	M 52 x 2	G 1.1/2" -11	22	19.0	55	42	55	**XVRNW40HL**
6	S	PN 400	M 14 x 1.5	G 1/8" -28	8	12.5	14	6	14	**XVRNW03HS1/8**
6	S	PN 400	M 14 x 1.5	G 1/4" -19	12	13.0	19	6	18	**XVRNW03HS**
6	S	PN 400	M 14 x 1.5	G 3/8" -19	12	13.5	22	6	22	**XVRNW03HS3/8**
6	S	PN 400	M 14 x 1.5	G 1/2" -14	14	14.0	27	6	26	**XVRNW03HS1/2**
8	S	PN 400	M 16 x 1.5	G 1/4" -19	12	15.0	19	8	18	**XVRNW04HS**
8	S	PN 400	M 16 x 1.5	G 3/8" -19	12	15.5	22	8	22	**XVRNW04HS3/8**
8	S	PN 400	M 16 x 1.5	G 1/2" -14	14	16.0	27	8	26	**XVRNW04HS1/2**
10	S	PN 400	M 18 x 1.5	G 1/4" -19	12	14.5	19	10	18	**XVRNW06HS1/4**
10	S	PN 400	M 18 x 1.5	G 3/8" -19	12	15.0	22	10	22	**XVRNW06HS**
10	S	PN 400	M 18 x 1.5	G 1/2" -14	14	17.5	27	10	26	**XVRNW06HS1/2**
12	S	PN 400	M 20 x 1.5	G 1/4" -19	12	16.5	22	12	18	**XVRNW08HS1/4**
12	S	PN 400	M 20 x 1.5	G 3/8" -19	12	17.0	22	12	22	**XVRNW08HS**
12	S	PN 400	M 20 x 1.5	G 1/2" -14	14	17.5	27	12	26	**XVRNW08HS1/2**
12	S	PN 400	M 20 x 1.5	G 3/4" -14	16	17.5	32	12	32	**XVRNW08HS3/4**
14	S	PN 400	M 22 x 1.5	G 3/8" -19	12	18.5	27	14	22	**XVRNW10HS3/8**
14	S	PN 400	M 22 x 1.5	G 1/2" -14	14	19.0	27	14	27	**XVRNW10HS**
14	S	PN 400	M 22 x 1.5	G 3/4" -14	16	19.0	32	14	32	**XVRNW10HS3/4**
16	S	PN 400	M 24 x 1.5	G 1/4" -19	12	18.5	27	16	22	**XVRNW13HS1/4**
16	S	PN 400	M 24 x 1.5	G 3/8" -19	12	18.5	27	16	22	**XVRNW13HS3/8**
16	S	PN 400	M 24 x 1.5	G 1/2" -14	14	18.5	27	16	26	**XVRNW13HS**
16	S	PN 400	M 24 x 1.5	G 3/4" -14	16	20.5	32	16	32	**XVRNW13HS3/4**
20	S	PN 400	M 30 x 2	G 1/2" -14	14	20.5	32	20	26	**XVRNW16HS1/2**
20	S	PN 400	M 30 x 2	G 3/4" -14	18	20.5	32	20	39	**XVRNW16HS**
20	S	PN 250	M 30 x 2	G 1" -11	18	21.5	41	20	39	**XVRNW16HS1**
25	S	PN 250	M 36 x 2	G 1/2" -14	14	23.0	41	25	26	**XVRNW20HS1/2**
25	S	PN 250	M 36 x 2	G 3/4" -14	16	23.5	41	25	32	**XVRNW20HS3/4**
25	S	PN 250	M 36 x 2	G 1" -11	18	23.0	41	25	39	**XVRNW20HS**
25	S	PN 160	M 36 x 2	G 1.1/4" -11	20	24.0	50	25	49	**XVRNW20HS11/4**
30	S	PN 160	M 42 x 2	G 3/4" -14	16	23.5	46	30	32	**XVRNW25HS3/4**
30	S	PN 160	M 42 x 2	G 1" -11	18	23.5	46	30	39	**XVRNW25HS1**
30	S	PN 160	M 42 x 2	G 1.1/4" -11	20	23.5	50	30	49	**XVRNW25HS**
30	S	PN 160	M 42 x 2	G 1.1/2" -11	22	23.5	55	30	55	**XVRNW25HS11/2**
38	S	PN 160	M 52 x 2	G 1" -11	18	26.0	55	38	39	**XVRNW32HS1**
38	S	PN 160	M 52 x 2	G 1.1/4" -11	20	26.0	55	38	49	**XVRNW32HS11/4**
38	S	PN 160	M 52 x 2	G 1.1/2" -11	22	26.0	55	38	55	**XVRNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGR, ISO 1179, type B, CEL/CES 24°, straight, stainless steel, XVR VA	**...XVRVA**



Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, L-shaped, steel

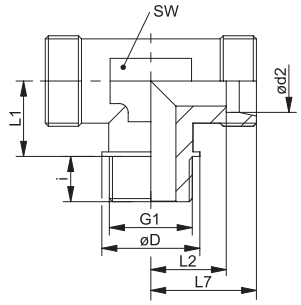
Connection 1: BSPP male thread, cylindric
Connection 2 + 3: metric cylindrical outer thread
Construction type: screw-in fitting
Type: L shape
Sealing form 1: type B
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
Material: steel

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	mm	
22	L	PN 160	G 3/4" -14	16	27.5	26	35	27	32.0	22	**XLRNW20HL**
28	L	PN 160	G 1" -11	18	30.5	30	38	36	39.0	28	**XLRNW25HL**
35	L	PN 160	G 1.1/4" -11	20	34.5	34	45	41	49.0	35	**XLRNW32HL**
42	L	PN 160	G 1.1/2" -11	22	40.0	39	51	50	55.0	42	**XLRNW40HL**
20	S	PN 400	G 3/4" -14	16	26.5	26	37	27	32.0	20	**XLRNW16HS**
25	S	PN 400	G 1" -11	18	30.0	30	42	36	39.0	25	**XLRNW20HS**
30	S	PN 250	G 1.1/4" -11	20	35.5	34	49	41	49.0	30	**XLRNW25HS**
38	S	PN 250	G 1.1/2" -11	22	41.0	39	57	50	55.0	38	**XLRNW32HS**

Product variants:

Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, L-shaped, stainless steel, XLR VA **...XLRVA**



Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, T-shaped, steel

Connection 1: BSPP male thread, cylindric
Connection 2 + 3: metric cylindrical outer thread
Construction type: screw-in fitting
Type: T shape
Sealing form 1: type B
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Material: steel

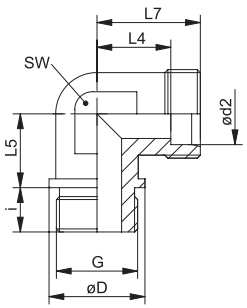
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Tube outer Ø	Series	Working pressure	G1	i	L1	L2	L7	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	mm	
22	L	PN 160	G 3/4" -14	16	26	27.5	35	27	31.0	22	**XTRNW20HL**
28	L	PN 160	G 1" -11	18	30	30.5	38	36	39.0	28	**XTRNW25HL**
35	L	PN 160	G 1.1/4" -11	20	34	34.5	45	41	49.0	35	**XTRNW32HL**
42	L	PN 160	G 1.1/2" -11	22	39	40.0	51	50	55.0	42	**XTRNW40HL**
20	S	PN 400	G 3/4" -14	16	26	26.5	37	27	32.0	20	**XTRNW16HS**
25	S	PN 250	G 1" -11	18	30	30.0	42	36	39.0	25	**XTRNW20HS**
30	S	PN 160	G 1.1/4" -11	20	34	35.5	49	41	49.0	30	**XTRNW25HS**
38	S	PN 160	G 1.1/2" -11	22	39	41.0	57	50	55.0	38	**XTRNW32HS**

Product variants:

Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, T-shaped, stainless steel, XTR VA **...XTRVA**

Stud connector, EN 2353, AGR, ISO 1179, type B,CEL/CES 24°, elbow 90°, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: angle 90°
Sealing form 1: type B
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Material: steel

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	mm	
22	L	PN 160	G 3/4" -14	16	27.5	26	35	27	32	22	**XWRNW20HL**
28	L	PN 160	G 1" -11	18	30.5	30	38	36	39	28	**XWRNW25HL**
35	L	PN 160	G 1.1/4" -11	20	34.5	34	45	41	49	35	**XWRNW32HL**
42	L	PN 160	G 1.1/2" -11	22	40.0	39	51	50	55	42	**XWRNW40HL**
20	S	PN 160	G 3/4" -14	16	26.5	26	32	27	32	20	**XWRNW16HS**
25	S	PN 160	G 1" -11	18	30.0	30	42	36	39	25	**XWRNW20HS**
30	S	PN 160	G 1.1/4" -11	20	35.5	34	49	41	49	30	**XWRNW25HS**
38	S	PN 160	G 1.1/2" -11	22	41.0	39	57	50	55	38	**XWRNW32HS**

Product variants:

Stud connector, EN 2353, AGR, ISO 1179, type B, CEL/CES 24°, elbow 90°, stainless steel, XWR VA **...XWRVA**



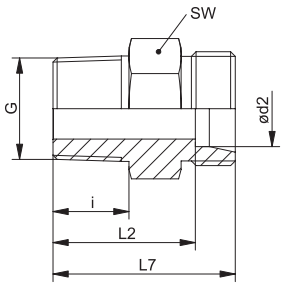




Stud connector, ISO 8434-1, AGR tapered, DIN 3852-2, type C, CEL/CES 24°, straight, steel

Connection 1: BSPT conical external threads
Construction type: screw-in fitting
Sealing form 1: thread seal
Scope of supply: connector without union nut and cutting ring
Standard connection 1: DIN 3852-2
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Stud connector, ISO 8434-1, AGR tapered, DIN 3852-2, type C, CELL/CEL/CES 24°, straight, steel

Connection 2: metric cylindrical outer thread
Type: straight
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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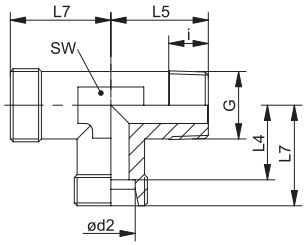
Tube outer Ø	Series	Working pressure	G	i	L2	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
4	LL	PN 100	R 1/8" K	8.0	16.0	20.0	11	4	XVR04LL
5	LL	PN 100	R 1/8" K	8.0	14.5	20.0	11	5	XVR05LL
6	LL	PN 100	R 1/8" K	8.0	14.5	20.0	11	6	XVR06LL
6	LL	PN 100	R 1/4" K	12.0	14.5	20.0	12	6	XVR06LL1/4
8	LL	PN 100	R 1/8" K	8.0	16.5	22.0	12	8	XVR08LL
8	LL	PN 100	R 1/4" K	12.0	20.5	26.0	14	8	XVR08LL1/4
10	LL	PN 100	R 1/4" K	12.0	20.5	26.0	14	10	XVR10LL
12	LL	PN 100	R 1/4" K	12.0	20.0	26.0	17	12	XVR12LL
12	LL	PN 100	R 3/8" K	12.0	20.0	26.0	17	12	XVR12LL3/8
6	L	PN 315	R 1/8" K	10.5	17.5	24.5	12	6	XVRKNW04HL
6	L	PN 315	R 1/4" K	14.0	22.0	29.0	17	6	XVRKNW04HL1/4
8	L	PN 315	R 1/4" K	14.0	22.0	29.0	17	8	XVRKNW06HL
8	L	PN 315	R 1/2" K	18.5	27.5	34.5	22	8	XVRKNW06HL1/2
8	L	PN 315	R 1/8" K	10.5	18.5	25.5	14	8	XVRKNW06HL1/8
8	L	PN 315	R 3/8" K	14.5	22.5	30.5	19	8	XVRKNW06HL3/8
10	L	PN 315	R 1/4" K	14.0	23.0	30.0	17	10	XVRKNW08HL
10	L	PN 315	R 1/2" K	18.5	28.5	35.5	22	10	XVRKNW08HL1/2
10	L	PN 315	R 1/8" K	10.5	19.5	26.5	17	10	XVRKNW08HL1/8
10	L	PN 315	R 3/8" K	14.5	24.5	31.5	19	10	XVRKNW08HL3/8
12	L	PN 315	R 3/8" K	14.5	24.5	31.5	19	12	XVRKNW10HL
12	L	PN 315	R 1/2" K	18.5	28.5	35.5	24	12	XVRKNW10HL1/2
12	L	PN 315	R 1/4" K	14.0	24.0	31.0	19	12	XVRKNW10HL1/4
15	L	PN 315	R 1/2" K	18.5	29.5	36.5	24	15	XVRKNW13HL
15	L	PN 315	R 3/8" K	14.5	25.5	33.0	24	15	XVRKNW13HL3/8
18	L	PN 315	R 1/2" K	18.5	30.0	37.5	27	18	XVRKNW16HL
18	L	PN 160	R 3/4" K	20.0	31.5	39.0	32	18	XVRKNW16HL3/4
18	L	PN 315	R 3/8" K	14.5	26.0	33.5	27	18	XVRKNW16HL3/8
22	L	PN 160	R 3/4" K	20.0	33.5	41.0	32	22	XVRKNW20HL
22	L	PN 160	R 1/2" K	18.5	32.0	39.5	32	22	XVRKNW20HL1/2
28	L	PN 160	R 1" K	24.0	38.5	46.0	41	28	XVRKNW25HL

Tube outer Ø	Series	Working pressure	G	i	L2	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
35	L	PN 160	R 1.1/4" K	26.0	42.5	53.0	46	35	**XVRKNW32HL**
35	L	PN 160	R 1" K	24.0	40.5	51.0	46	35	**XVRKNW32HL1**
42	L	PN 160	R 1.1/2" K	27.0	43.0	54.0	55	42	**XVRKNW40HL**
6	S	PN 400	R 1/4" K	14.0	27.0	34.0	17	6	**XVRKNW03HS**
8	S	PN 400	R 1/4" K	14.0	27.0	34.0	17	8	**XVRKNW04HS**
10	S	PN 400	R 3/8" K	14.5	27.0	34.5	19	10	**XVRKNW06HS**
10	S	PN 400	R 1/4" K	14.0	26.5	34.0	19	10	**XVRKNW06HS1/4**
12	S	PN 400	R 3/8" K	14.5	29.0	36.5	22	12	**XVRKNW08HS**
12	S	PN 400	R 1/2" K	18.5	33.0	40.5	22	12	**XVRKNW08HS1/2**
12	S	PN 400	R 1/4" K	14.0	28.5	36.0	22	12	**XVRKNW08HS1/4**
14	S	PN 400	R 1/2" K	18.5	34.5	42.5	24	14	**XVRKNW10HS**
14	S	PN 400	R 3/8" K	14.5	30.5	38.5	24	14	**XVRKNW10HS3/8**
16	S	PN 400	R 1/2" K	18.5	31.5	42.5	27	16	**XVRKNW13HS**
16	S	PN 400	R 3/8" K	14.5	30.0	38.5	27	16	**XVRKNW13HS3/8**
20	S	PN 400	R 3/4" K	20.0	37.5	48.0	32	20	**XVRKNW16HS**
25	S	PN 400	R 1" K	24.0	43.0	55.0	41	25	**XVRKNW20HS**
30	S	PN 400	R 1.1/4" K	26.0	45.5	59.0	46	30	**XVRKNW25HS**
30	S	PN 400	R 1" K	24.0	43.5	57.0	46	30	**XVRKNW25HS1**
38	S	PN 315	R 1.1/2" K	27.0	49.0	65.0	55	38	**XVRKNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, straight, stainless steel, XVRK VA **...XVRKVA**

Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, L-shape, steel



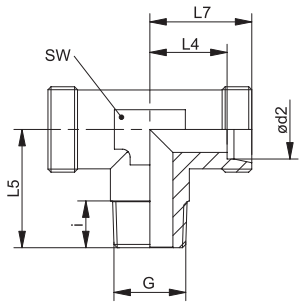
Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	R 1/8" K	8	11.0	17	15	9	4	**XLR04LL**
5	LL	PN 100	R 1/8" K	8	9.5	17	15	9	5	**XLR05LL**
6	LL	PN 100	R 1/8" K	8	9.5	17	15	9	6	**XLR06LL**
8	LL	PN 100	R 1/8" K	8	11.5	20	17	12	8	**XLR08LL**
6	L	PN 315	R 1/8" K	8	12.0	20	19	12	6	**XLRNW04HL**
8	L	PN 315	R 1/4" K	12	14.0	26	21	12	8	**XLRNW06HL**
10	L	PN 315	R 1/4" K	12	15.0	27	22	14	10	**XLRNW08HL**
12	L	PN 315	R 3/8" K	12	17.0	28	24	17	12	**XLRNW10HL**
15	L	PN 315	R 1/2" K	14	21.0	34	26	19	15	**XLRNW13HL**
18	L	PN 315	R 1/2" K	14	23.5	36	31	24	18	**XLRNW16HL**
6	S	PN 400	R 1/4" K	12	16.0	26	23	14	6	**XLRNW03HS**
8	S	PN 400	R 1/4" K	12	17.0	27	24	17	8	**XLRNW04HS**
10	S	PN 400	R 3/8" K	12	17.5	28	25	17	10	**XLRNW06HS**
12	S	PN 400	R 3/8" K	12	21.5	28	29	19	12	**XLRNW08HS**
14	S	PN 400	R 1/2" K	14	22.0	32	30	19	14	**XLRNW10HS**
16	S	PN 400	R 1/2" K	14	24.5	32	33	24	16	**XLRNW13HS**

Product variants:

Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, L-shaped, stainless steel, XLRK VA **...XLRKVA**



Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, T-shape, steel

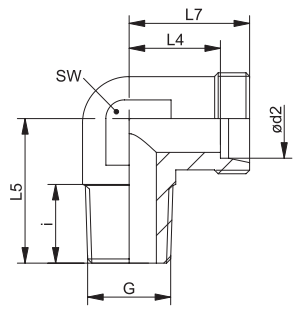
Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	R 1/8" K	8	11.0	17	15	9	4	**XTR04LL**
5	LL	PN 100	R 1/8" K	8	9.5	17	15	9	5	**XTR05LL**
6	LL	PN 100	R 1/8" K	8	9.5	17	15	9	6	**XTR06LL**
8	LL	PN 100	R 1/8" K	8	11.5	20	17	12	8	**XTR08LL**
10	LL	PN 100	R 1/4" K	12	12.5	23	16	14	10	**XTR10LL**
12	LL	PN 100	R 1/4" K	12	13.0	23	17	17	12	**XTR12LL**
6	L	PN 315	R 1/8" K	8	12.0	20	19	12	6	**XTRNW04HL**
8	L	PN 315	R 1/4" K	12	14.0	26	21	12	8	**XTRNW06HL**
10	L	PN 315	R 1/4" K	12	15.0	27	22	14	10	**XTRNW08HL**
12	L	PN 315	R 3/8" K	12	17.0	28	24	17	12	**XTRNW10HL**
15	L	PN 315	R 1/2" K	14	21.0	34	28	19	15	**XTRNW13HL**
18	L	PN 315	R 1/2" K	14	23.5	34	31	24	18	**XTRNW16HL**
6	S	PN 400	R 1/4" K	12	16.0	26	23	12	6	**XTRNW03HS**
8	S	PN 400	R 1/4" K	12	17.0	26	24	14	8	**XTRNW04HS**
10	S	PN 400	R 3/8" K	12	17.5	27	25	17	10	**XTRNW06HS**
12	S	PN 400	R 3/8" K	12	21.5	28	29	19	12	**XTRNW08HS**
14	S	PN 400	R 1/2" K	14	22.0	32	30	19	14	**XTRNW10HS**
16	S	PN 400	R 1/2" K	14	24.5	32	33	24	16	**XTRNW13HS**

Product variants:

Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, T-shaped, stainless steel, XTRK VA **...XTRKVA**



Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, elbow 90°, steel

Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	R 1/8" K	8	11.0	17.0	15.0	9	4	**XWR04LL**
5	LL	PN 100	R 1/8" K	8	8.0	17.0	13.5	9	5	**XWR05LL**
6	LL	PN 100	R 1/8" K	8	9.5	17.0	15.0	9	6	**XWR06LL**
8	LL	PN 100	R 1/8" K	8	11.5	20.0	17.0	12	8	**XWR08LL**
10	LL	PN 100	R 1/4" K	12	15.5	26.0	21.0	14	10	**XWR10LL**
12	LL	PN 100	R 1/4" K	12	12.0	21.5	18.0	17	12	**XWR12LL**
22	L	PN 160	R 3/4" K	16	27.5	42.0	35.0	27	22	**XWRKNW20HL**
6	L	PN 315	R 1/8" K	8	12.0	20.0	19.0	12	6	**XWRNW04HL**
6	L	PN 315	R 1/4" K	12	14.0	26.0	21.0	12	6	**XWRNW04HL1/4**
6	L	PN 315	R 3/8" K	12	17.0	28.0	24.0	17	6	**XWRNW04HL3/8**

Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
8	L	PN 315	R 1/4" K	12	14.0	26.0	21.0	12	8	**XWRNW06HL**
8	L	PN 315	R 1/2" K	13	20.0	34.0	27.0	19	8	**XWRNW06HL1/2**
8	L	PN 315	R 1/8" K	8	14.0	26.0	21.0	12	8	**XWRNW06HL1/8**
8	L	PN 315	R 3/8" K	12	19.0	28.0	26.0	17	8	**XWRNW06HL3/8**
10	L	PN 315	R 1/4" K	12	15.0	27.0	22.0	14	10	**XWRNW08HL**
10	L	PN 316	R 1/2" K	14	23.0	34.0	30.0	19	10	**XWRNW08HL1/2**
10	L	PN 315	R 1/8" K	8	15.0	27.0	22.0	14	10	**XWRNW08HL1/8**
10	L	PN 315	R 3/8" K	12	17.0	28.0	24.0	17	10	**XWRNW08HL3/8**
12	L	PN 315	R 3/8" K	12	17.0	28.0	24.0	17	12	**XWRNW10HL**
12	L	PN 315	R 1/2" K	14	23.0	34.0	30.0	19	12	**XWRNW10HL1/2**
12	L	PN 315	R 1/4" K	12	17.0	28.0	24.0	17	12	**XWRNW10HL1/4**
12	L	PN 315	R 3/4" K	16	28.0	42.0	35.0	27	12	**XWRNW10HL3/4**
15	L	PN 315	R 1/2" K	14	21.0	34.0	28.0	19	15	**XWRNW13HL**
15	L	PN 315	R 1/4" K	12	21.0	34.0	28.0	19	15	**XWRNW13HL1/4**
15	L	PN 315	R 3/8" K	12	21.0	34.0	28.0	19	15	**XWRNW13HL3/8**
18	L	PN 315	R 1/2" K	14	23.5	36.0	31.0	24	18	**XWRNW16HL**
18	L	PN 315	R 3/4" K	16	27.5	42.0	35.0	27	18	**XWRNW16HL3/4**
18	L	PN 315	R 3/8" K	12	23.5	36.0	31.0	24	18	**XWRNW16HL3/8**
6	S	PN 400	R 1/4" K	12	16.0	26.0	23.0	12	6	**XWRNW03HS**
8	S	PN 400	R 1/4" K	12	17.0	27.0	24.0	14	8	**XWRNW04HS**
10	S	PN 400	R 3/8" K	12	17.5	28.0	25.0	17	10	**XWRNW06HS**
12	S	PN 400	R 3/8" K	12	21.5	28.0	29.0	17	12	**XWRNW08HS**
12	S	PN 400	R 1/2" K	14	23.5	34.0	31.0	19	12	**XWRNW08HS1/2**
14	S	PN 400	R 1/2" K	14	22.0	32.0	30.0	19	14	**XWRNW10HS**
16	S	PN 400	R 1/2" K	14	24.5	32.0	33.0	24	16	**XWRNW13HS**
16	S	PN 400	R 3/8" K	12	24.5	32.0	33.0	24	16	**XWRNW13HS3/8**
20	S	PN 400	R 1/2" K	14	26.5	42.0	37.0	27	20	**XWRNW16HS1/2**

Product variants:

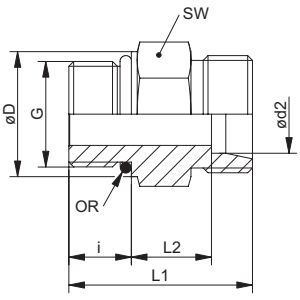
Stud connector, EN 2353, AGR tapered, DIN 3852-2, type C,CELL/CEL/CES 24°, elbow 90°, **...XWRKVA** stainless steel, XWRK VA

Stud connector, ISO 8434-1, AGR, OR, CEL/CES 24°, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type G
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



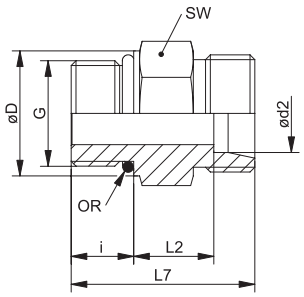


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Tube outer Ø	Series	Working pressure	G1	G2	i	L1	L2	SW	Item no.
mm					mm	mm	mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	8	31.0	8.5	14	**XVRONW04HL**
8	L	PN 315	G 1/4" -19	M 14 x 1.5	12	28.0	10.0	19	**XVRONW06HL**
8	L	PN 315	G 1/8" -28	M 14 x 1.5	8	33.0	8.5	19	**XVRONW06HL1/8**
8	L	PN 315	G 3/8" -19	M 14 x 1.5	12	37.0	10.0	22	**XVRONW06HL3/8**
10	L	PN 315	G 1/4" -19	M 16 x 1.5	12	29.0	11.0	19	**XVRONW08HL**

Tube outer Ø	Series	Working pressure	G1	G2	i	L1	L2	SW	Item no.
mm					mm	mm	mm	mm	
12	L	PN 315	G 3/8" -19	M 18 x 1.5	12	30.3	12.5	22	XVRONW10HL
15	L	PN 315	G 1/2" -14	M 22 x 1.5	14	36.7	14.0	27	XVRONW13HL
15	L	PN 315	G 3/8" -19	M 22 x 1.5	12	31.3	14.0	22	XVRONW13HL3/8
18	L	PN 315	G 1/2" -14	M 26 x 1.5	14	36.7	14.5	27	XVRONW16HL
22	L	PN 160	G 3/4" -14	M 30 x 2	16	39.6	16.5	32	XVRONW20HL
28	L	PN 160	G 1" -11	M 36 x 2	18	52.0	17.5	41	XVRONW25HL
35	L	PN 160	G 1.1/4" -11	M 45 x 2	20	59.0	17.5	50	XVRONW32HL
42	L	PN 160	G 1.1/2" -11	M 52 x 2	22	64.0	19.0	55	XVRONW40HL
6	S	PN 630	G 1/4" -19	M 14 x 1.5	12	40.0	13.0	19	XVRONW03HS
8	S	PN 630	G 1/4" -19	M 16 x 1.5	12	42.0	15.0	19	XVRONW04HS
10	S	PN 630	G 3/8" -19	M 18 x 1.5	12	43.0	15.0	22	XVRONW06HS
12	S	PN 630	G 3/8" -19	M 20 x 1.5	12	31.3	17.0	22	XVRONW08HS
14	S	PN 630	G 1/2" -14	M 22 x 1.5	14	51.0	19.0	27	XVRONW10HS
16	S	PN 500	G 1/2" -14	M 24 x 1.5	14	51.0	18.5	27	XVRONW13HS
20	S	PN 400	G 3/4" -14	M 30 x 2	16	41.6	20.5	32	XVRONW16HS
25	S	PN 400	G 1" -11	M 36 x 2	18	48.4	23.0	41	XVRONW20HS
30	S	PN 400	G 1.1/4" -11	M 42 x 2	20	70.0	23.5	50	XVRONW25HS
38	S	PN 315	G 1.1/2" -11	M 52 x 2	22	79.0	26.0	55	XVRONW32HS





Stud connector, ISO 8434-1, AG UNF-OR, ISO 11926, CEL/CES 24°, steel

Connection 1: UN/UNF external threads
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type F
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 11926-3
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Tube outer Ø	Series	Working pressure	G	i	L2	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
6	L	PN 315	1/2" -20 UNF	9.1	9.9	17	16.8	6	XVUNW04HL1/2
6	L	PN 315	7/16" -20 UNF	9.1	9.9	17	14.4	6	XVUNW04HL7/16
6	L	PN 315	9/16" -18 UNF	10.0	11.0	19	17.6	6	XVUNW04HL9/16
8	L	PN 315	1/2" -20 UNF	9.1	12.9	17	16.8	8	XVUNW06HL1/2
8	L	PN 315	7/16" -20 UNF	9.1	12.9	17	14.4	8	XVUNW06HL7/16
8	L	PN 315	9/16" -18 UNF	10.0	13.0	19	17.6	8	XVUNW06HL9/16
10	L	PN 315	3/4" -16 UNF	11.1	14.9	24	22.3	10	XVUNW08HL3/4
10	L	PN 315	7/16" -20 UNF	9.1	13.9	17	14.4	10	XVUNW08HL7/16
10	L	PN 315	9/16" -18 UNF	10.0	14.0	19	17.6	10	XVUNW08HL9/16
12	L	PN 315	3/4" -16 UNF	11.1	12.9	24	22.3	12	XVUNW10HL3/4
12	L	PN 315	7/8" -14 UNF	12.7	14.3	27	25.5	12	XVUNW10HL7/8
12	L	PN 315	9/16" -18 UNF	10.0	12.0	19	17.6	12	XVUNW10HL9/16
15	L	PN 315	3/4" -16 UNF	11.1	13.9	24	22.3	15	XVUNW13HL3/4
15	L	PN 315	7/8" -14 UNF	12.7	15.8	27	25.5	15	XVUNW13HL7/8
15	L	PN 315	9/16" -18 UNF	10.0	14.0	24	17.6	15	XVUNW13HL9/16
18	L	PN 315	1.1/16" -12 UN	15.1	14.4	32	31.9	18	XVUNW16HL11/16

Tube outer Ø	Series	Working pressure	G	i	L2	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
18	L	PN 315	3/4" -16 UNF	11.1	14.4	27	22.3	18	**XVUNW16HL3/4**
18	L	PN 315	7/8" -14 UNF	12.7	14.5	27	25.5	18	**XVUNW16HL7/8**
22	L	PN 160	1.1/16" -12 UN	15.1	16.4	32	31.9	22	**XVUNW20HL11/16**
22	L	PN 160	1.5/16" -12 UN	15.1	17.4	41	38.2	22	**XVUNW20HL15/16**
22	L	PN 160	7/8" -14 UNF	12.7	16.8	32	25.5	22	**XVUNW20HL7/8**
28	L	PN 160	1.1/16" -12 UN	15.1	17.4	41	31.9	28	**XVUNW25HL11/16**
28	L	PN 160	1.5/16" -12 UN	15.1	17.4	41	38.2	28	**XVUNW25HL15/16**
28	L	PN 160	7/8" -14 UNF	12.7	19.8	41	25.5	28	**XVUNW25HL7/8**
35	L	PN 160	1.5/16" -12 UN	15.1	17.4	46	38.2	35	**XVUNW32HL15/16**
35	L	PN 160	1.5/8" -12 UN	15.1	17.4	50	47.7	35	**XVUNW32HL15/8**
42	L	PN 160	1.5/8" -12 UN	15.1	18.9	55	47.7	42	**XVUNW40HL15/8**
42	L	PN 160	1.7/8" -12 UN	15.1	18.9	60	53.8	42	**XVUNW40HL17/8**
6	S	PN 630	7/16" -20 UNF	9.1	14.9	17	14.4	6	**XVUNW03HS7/16**
8	S	PN 630	1/2" -20 UNF	9.1	14.9	19	16.8	8	**XVUNW04HS1/2**
8	S	PN 630	7/16" -20 UNF	9.1	14.9	17	14.4	8	**XVUNW04HS7/16**
8	S	PN 630	9/16" -18 UNF	10.0	15.0	19	17.6	8	**XVUNW04HS9/16**
10	S	PN 630	3/4" -16 UNF	11.1	14.4	24	22.3	10	**XVUNW06HS3/4**
10	S	PN 630	9/16" -18 UNF	10.0	14.5	19	17.6	10	**XVUNW06HS9/16**
12	S	PN 630	3/4" -16 UNF	11.1	17.4	24	22.3	12	**XVUNW08HS3/4**
12	S	PN 630	7/8" -14 UNF	12.7	17.8	27	25.5	12	**XVUNW08HS7/8**
12	S	PN 630	9/16" -18 UNF	10.0	14.5	22	17.6	12	**XVUNW08HS9/16**
14	S	PN 630	3/4" -16 UNF	11.1	15.9	24	22.3	14	**XVUNW10HS3/4**
16	S	PN 400	1.1/16" -12 UN	15.1	20.4	32	31.9	16	**XVUNW13HS11/16**
16	S	PN 400	3/4" -16 UNF	11.1	15.4	24	22.3	16	**XVUNW13HS3/4**
16	S	PN 400	7/8" -14 UNF	12.7	18.8	27	25.5	16	**XVUNW13HS7/8**
20	S	PN 400	1.1/16" -12 UN	15.1	20.4	32	31.9	20	**XVUNW16HS11/16**
20	S	PN 400	3/4" -16 UNF	11.1	20.4	32	22.3	20	**XVUNW16HS3/4**
20	S	PN 400	7/8" -14 UNF	12.7	20.8	32	25.5	20	**XVUNW16HS7/8**
25	S	PN 400	1.1/16" -12 UN	15.1	22.9	41	31.9	25	**XVUNW20HS11/16**
25	S	PN 400	1.5/16" -12 UN	15.1	22.9	41	38.2	25	**XVUNW20HS15/16**
30	S	PN 400	1.5/16" -12 UN	15.1	23.4	46	38.2	30	**XVUNW25HS15/16**
30	S	PN 400	1.5/8" -12 UN	15.1	23.4	50	47.7	30	**XVUNW25HS15/8**
38	S	PN 315	1.5/8" -12 UN	15.1	25.9	55	47.7	38	**XVUNW32HS15/8**
38	S	PN 315	1.7/8" -12 UN	15.1	25.9	60	53.8	38	**XVUNW32HS17/8**

Product variants:

Stud connector, ISO 8434-1, AG UNF-OR, ISO 11926, CEL/CES 24°, stainless steel, XVU VA **...XVUVA**



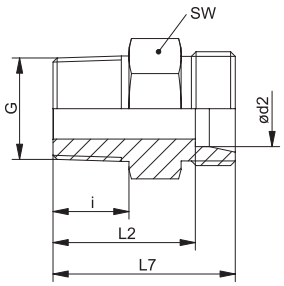




Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, steel

Connection 1: NPT external threads
Construction type: screw-in fitting
Sealing form 1: thread seal
Standard connection 1: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, straight, steel

Connection 2: metric cylindrical outer thread
Type: straight
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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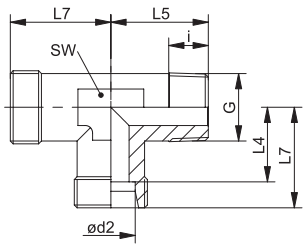
Tube outer Ø	Series	Working pressure	G	i	L2	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
4	LL	PN 100	1/8" -27 NPT	10.0	18.0	22.0	11	4	XVN04LL
5	LL	PN 100	1/8" -27 NPT	10.0	16.5	22.0	11	5	XVN05LL
6	LL	PN 100	1/8" -27 NPT	10.0	16.5	22.0	11	6	XVN06LL
8	LL	PN 100	1/8" -27 NPT	10.0	18.5	24.0	12	8	XVN08LL
6	L	PN 315	1/8" -27 NPT	10.0	17.0	24.0	12	6	XVNNW04HL
6	L	PN 315	1/4" -18 NPT	15.0	23.0	30.0	17	6	XVNNW04HL1/4
6	L	PN 315	3/8" -18 NPT	15.3	24.0	31.0	19	6	XVNNW04HL3/8
6	L	PN 315	1/2" -14 NPT	20.0	29.0	36.0	24	6	XVNNW04HL1/2
8	L	PN 315	1/8" -27 NPT	10.0	18.0	25.0	17	8	XVNNW06HL1/8
8	L	PN 315	1/4" -18 NPT	15.0	23.0	30.0	17	8	XVNNW06HL
8	L	PN 315	3/8" -18 NPT	15.3	24.0	31.0	19	8	XVNNW06HL3/8
8	L	PN 315	1/2" -14 NPT	20.0	29.0	36.0	24	8	XVNNW06HL1/2
10	L	PN 315	1/8" -27 NPT	10.0	19.0	26.0	17	10	XVNNW08HL1/8
10	L	PN 315	1/4" -18 NPT	15.0	24.0	31.0	17	10	XVNNW08HL
10	L	PN 315	3/8" -18 NPT	15.3	25.0	32.0	19	10	XVNNW08HL3/8
10	L	PN 315	1/2" -14 NPT	20.0	30.0	37.0	24	10	XVNNW08HL1/2
12	L	PN 315	1/8" -27 NPT	10.0	19.5	26.5	19	12	XVNNW10HL1/8
12	L	PN 315	1/4" -18 NPT	15.0	25.0	32.0	19	12	XVNNW10HL1/4
12	L	PN 315	3/8" -18 NPT	15.3	25.0	32.0	19	12	XVNNW10HL
12	L	PN 315	1/2" -14 NPT	20.0	30.0	37.0	24	12	XVNNW10HL1/2
12	L	PN 315	3/4" -14 NPT	20.2	31.0	38.0	27	12	XVNNW10HL3/4
15	L	PN 315	1/4" -18 NPT	15.0	26.0	33.0	24	15	XVNNW13HL1/4
15	L	PN 315	3/8" -18 NPT	15.3	26.5	33.5	24	15	XVNNW13HL3/8
15	L	PN 315	1/2" -14 NPT	20.0	31.0	38.0	24	15	XVNNW13HL
15	L	PN 315	3/4" -14 NPT	20.2	32.0	39.0	27	15	XVNNW13HL3/4
18	L	PN 315	1/4" -18 NPT	15.0	26.5	34.0	27	18	XVNNW16HL1/4
18	L	PN 315	1/2" -14 NPT	20.0	31.5	39.0	27	18	XVNNW16HL
18	L	PN 315	3/4" -14 NPT	20.2	31.5	39.0	27	18	XVNNW16HL3/4
22	L	PN 160	1/2" -14 NPT	20.0	33.5	41.0	32	22	XVNNW20HL1/2
22	L	PN 160	3/4" -14 NPT	20.2	33.5	41.0	32	22	XVNNW20HL

Tube outer Ø	Series	Working pressure	G	i	L2	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
28	L	PN 160	1" -11.5 NPT	25.0	39.5	47.0	41	28	**XVNNW25HL**
35	L	PN 160	1" -11.5 NPT	25.0	40.0	50.5	46	35	**XVNNW32HL1**
35	L	PN 160	1.1/4" -11.5 NPT	25.6	40.5	51.0	46	35	**XVNNW32HL**
42	L	PN 160	1.1/2" -11.5 NPT	26.0	42.0	53.0	55	42	**XVNNW40HL**
6	S	PN 630	1/4" -18 NPT	15.0	28.0	35.0	17	6	**XVNNW03HS**
6	S	PN 630	1/2" -14 NPT	20.0	35.0	42.0	24	6	**XVNNW03HS1/2**
8	S	PN 630	1/4" -18 NPT	15.0	28.0	35.0	17	8	**XVNNW04HS**
8	S	PN 630	3/8" -18 NPT	15.3	28.0	35.0	19	8	**XVNNW04HS3/8**
10	S	PN 630	1/4" -18 NPT	15.0	27.5	35.0	19	10	**XVNNW06HS1/4**
10	S	PN 630	3/8" -18 NPT	15.3	27.5	35.0	19	10	**XVNNW06HS**
10	S	PN 630	1/2" -14 NPT	20.0	34.5	42.0	24	10	**XVNNW06HS1/2**
12	S	PN 630	1/4" -18 NPT	15.0	29.0	36.5	22	12	**XVNNW08HS1/4**
12	S	PN 630	3/8" -18 NPT	15.3	29.5	37.0	22	12	**XVNNW08HS**
12	S	PN 630	1/2" -14 NPT	20.0	34.5	42.0	24	12	**XVNNW08HS1/2**
14	S	PN 630	3/8" -18 NPT	15.3	31.5	39.5	24	14	**XVNNW10HS3/8**
14	S	PN 630	1/2" -14 NPT	20.0	36.0	44.0	24	14	**XVNNW10HS**
16	S	PN 400	1/2" -14 NPT	20.0	35.5	44.0	27	16	**XVNNW13HS**
16	S	PN 400	3/4" -14 NPT	20.2	37.5	46.0	32	16	**XVNNW13HS3/4**
20	S	PN 400	1/2" -14 NPT	20.0	37.5	48.0	32	20	**XVNNW16HS1/2**
20	S	PN 400	3/4" -14 NPT	20.2	37.5	48.0	32	20	**XVNNW16HS**
20	S	PN 400	1" -11.5 NPT	25.0	44.5	55.0	41	20	**XVNNW16HS1**
25	S	PN 400	3/4" -14 NPT	20.2	40.0	52.0	41	25	**XVNNW20HS3/4**
25	S	PN 400	1" -11.5 NPT	25.0	45.0	57.0	41	25	**XVNNW20HS**
25	S	PN 400	1.1/4" -11.5 NPT	25.6	46.0	58.0	46	25	**XVNNW20HS11/4**
30	S	PN 400	1" -11.5 NPT	25.0	46.0	59.5	46	30	**XVNNW25HS1**
30	S	PN 400	1.1/4" -11.5 NPT	25.6	46.5	60.0	46	30	**XVNNW25HS**
38	S	PN 315	1.1/2" -11.5 NPT	26.0	49.0	65.0	55	38	**XVNNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, straight, stainless steel, XVN VA	**...XVNVA**

Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, L shape, steel



Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

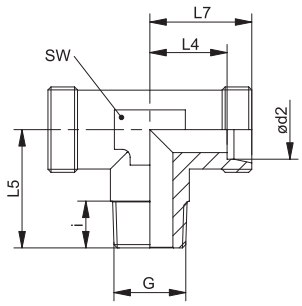
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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	1/8" -27 NPT	8	11.0	17	15	9	4	**XLN04LL**
6	LL	PN 100	1/8" -27 NPT	8	9.5	17	15	9	6	**XLN06LL**
8	LL	PN 100	1/8" -27 NPT	8	11.5	20	17	12	8	**XLN08LL**
6	L	PN 315	1/8" -27 NPT	8	12.0	20	19	12	6	**XLNNW04HL**
8	L	PN 315	1/4" -18 NPT	12	14.0	26	21	12	8	**XLNNW06HL**
10	L	PN 315	1/4" -18 NPT	12	15.0	27	22	14	10	**XLNNW08HL**
12	L	PN 315	3/8" -18 NPT	12	17.0	28	24	17	12	**XLNNW10HL**
15	L	PN 315	1/2" -14 NPT	14	21.0	34	28	19	15	**XLNNW13HL**
18	L	PN 315	1/2" -14 NPT	14	23.5	36	31	24	18	**XLNNW16HL**
22	L	PN 160	3/4" -14 NPT	16	27.5	42	35	27	22	**XLNNW20HL**
28	L	PN 160	1" -11.5 NPT	18	30.5	48	38	36	28	**XLNNW25HL**

Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
35	L	PN 160	1.1/4" -11.5 NPT	20	34.5	54	45	41	35	**XLNNW32HL**
42	L	PN 160	1.1/2" -11.5 NPT	22	40.0	61	51	50	42	**XLNNW40HL**
6	S	PN 630	1/4" -18 NPT	12	16.0	26	23	12	6	**XLNNW03HS**
8	S	PN 630	1/4" -18 NPT	12	17.0	27	24	14	8	**XLNNW04HS**
10	S	PN 630	3/8" -18 NPT	12	17.5	28	25	17	10	**XLNNW06HS**
12	S	PN 630	3/8" -18 NPT	12	21.5	31	29	17	12	**XLNNW08HS**
14	S	PN 630	1/2" -14 NPT	14	22.0	32	30	19	14	**XLNNW10HS**
16	S	PN 400	1/2" -14 NPT	14	24.5	32	33	24	16	**XLNNW13HS**
20	S	PN 400	3/4" -14 NPT	16	26.5	42	37	27	20	**XLNNW16HS**
25	S	PN 400	1" -11.5 NPT	18	30.0	48	42	36	25	**XLNNW20HS**
30	S	PN 400	1.1/4" -11.5 NPT	20	35.5	54	49	41	30	**XLNNW25HS**
38	S	PN 315	1.1/2" -11.5 NPT	22	41.0	61	57	50	38	**XLNNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGN, SAE J 514, CEL/CES 24°, L-shaped, stainless steel, XLN VA **...XLNVA**



Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, T shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

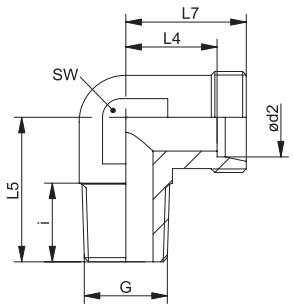
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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	1/8" -27 NPT	8	11.0	17	15	9	4	**XTN04LL**
5	LL	PN 100	1/8" -27 NPT	8	9.5	17	15	9	5	**XTN05LL**
6	LL	PN 100	1/8" -27 NPT	8	9.5	17	15	9	6	**XTN06LL**
8	LL	PN 100	1/8" -27 NPT	8	11.5	20	17	12	8	**XTN08LL**
6	L	PN 315	1/8" -27 NPT	8	12.0	20	19	12	6	**XTNNW04HL**
6	L	PN 315	1/4" -18 NPT	12	12.0	25	19	12	6	**XTNNW04HL1/4**
8	L	PN 315	1/4" -18 NPT	12	14.0	26	21	12	8	**XTNNW06HL**
10	L	PN 315	1/4" -18 NPT	12	15.0	27	22	14	10	**XTNNW08HL**
12	L	PN 315	3/8" -18 NPT	12	17.0	28	24	17	12	**XTNNW10HL**
15	L	PN 315	1/2" -14 NPT	14	21.0	34	26	19	15	**XTNNW13HL**
18	L	PN 315	1/2" -14 NPT	14	23.5	36	31	24	18	**XTNNW16HL**
22	L	PN 160	3/4" -14 NPT	16	27.5	42	35	27	22	**XTNNW20HL**
28	L	PN 160	1" -11.5 NPT	18	30.5	48	38	36	28	**XTNNW25HL**
35	L	PN 160	1.1/4" -11.5 NPT	20	34.5	54	45	41	35	**XTNNW32HL**
42	L	PN 160	1.1/2" -11.5 NPT	22	40.0	61	51	50	42	**XTNNW40HL**
6	S	PN 630	1/4" -18 NPT	12	16.0	26	23	12	6	**XTNNW03HS**
8	S	PN 630	1/4" -18 NPT	12	17.0	27	24	14	8	**XTNNW04HS**
10	S	PN 630	3/8" -18 NPT	12	17.5	28	35	17	10	**XTNNW06HS**
12	S	PN 630	3/8" -18 NPT	12	21.5	31	30	17	12	**XTNNW08HS**
14	S	PN 630	1/2" -14 NPT	14	22.0	32	30	19	14	**XTNNW10HS**
16	S	PN 400	1/2" -14 NPT	14	24.5	32	33	24	16	**XTNNW13HS**
20	S	PN 400	3/4" -14 NPT	16	26.5	42	37	27	20	**XTNNW16HS**
25	S	PN 400	1" -11.5 NPT	18	30.0	48	42	36	25	**XTNNW20HS**
30	S	PN 400	1.1/4" -11.5 NPT	20	35.5	54	49	41	30	**XTNNW25HS**
38	S	PN 315	1.1/2" -11.5 NPT	22	41.0	61	57	50	38	**XTNNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, T-shaped, stainless steel, XTN VA **...XTNVA**

Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, elbow 90°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	G	i	L4	L5	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	
4	LL	PN 100	1/8" -27 NPT	8.0	11.0	17	15.0	9	4	**XWN04LL**
5	LL	PN 100	1/8" -27 NPT	8.0	11.0	17	15.0	9	5	**XWN05LL**
6	LL	PN 100	1/8" -27 NPT	8.0	9.5	17	15.0	9	6	**XWN06LL**
8	LL	PN 100	1/8" -27 NPT	10.0	11.5	20	17.0	12	8	**XWN08LL**
6	L	PN 315	1/8" -27 NPT	10.0	12.0	20	19.0	12	6	**XWNNW04HL**
6	L	PN 315	1/2" -14 NPT	17.0	23.0	34	30.0	19	6	**XWNNW04HL1/2**
6	L	PN 315	1/4" -18 NPT	12.0	14.0	26	21.0	12	6	**XWNNW04HL1/4**
8	L	PN 315	1/4" -18 NPT	12.0	14.0	26	21.0	12	8	**XWNNW06HL**
8	L	PN 315	1/2" -14 NPT	17.5	15.0	26	22.0	12	8	**XWNNW06HL1/2**
8	L	PN 315	3/8" -18 NPT	15.2	11.5	20	18.5	12	8	**XWNNW06HL3/8**
10	L	PN 315	1/4" -18 NPT	14.0	15.0	27	22.0	14	10	**XWNNW08HL**
10	L	PN 315	3/8" -18 NPT	15.2	15.0	27	22.0	14	10	**XWNNW08HL3/8**
12	L	PN 315	3/8" -18 NPT	12.5	17.0	28	24.0	17	12	**XWNNW10HL**
12	L	PN 315	1/2" -14 NPT	19.0	23.0	34	30.0	19	12	**XWNNW10HL1/2**
12	L	PN 315	1/4" -18 NPT	14.0	17.0	28	24.0	17	12	**XWNNW10HL1/4**
15	L	PN 315	1/2" -14 NPT	18.5	21.0	34	28.0	19	15	**XWNNW13HL**
15	L	PN 315	3/8" -18 NPT	13.0	21.0	34	28.0	19	15	**XWNNW13HL3/8**
18	L	PN 315	1/2" -14 NPT	20.0	23.5	36	31.0	24	18	**XWNNW16HL**
18	L	PN 315	3/4" -14 NPT	18.5	23.5	40	31.0	24	18	**XWNNW16HL3/4**
22	L	PN 160	3/4" -14 NPT	18.5	27.5	42	35.0	27	22	**XWNNW20HL**
28	L	PN 160	1" -11.5 NPT	24.0	30.5	48	38.0	36	28	**XWNNW25HL**
35	L	PN 160	1.1/4" -11.5 NPT	25.5	34.5	54	45.0	41	35	**XWNNW32HL**
42	L	PN 160	1.1/2" -11.5 NPT	26.0	40.0	61	51.0	50	42	**XWNNW40HL**
6	S	PN 630	1/4" -18 NPT	12.0	16.0	26	23.0	12	6	**XWNNW03HS**
8	S	PN 630	1/4" -18 NPT	15.0	17.0	27	24.0	14	8	**XWNNW04HS**
10	S	PN 630	3/8" -18 NPT	12.0	17.5	28	25.0	17	10	**XWNNW06HS**
12	S	PN 630	3/8" -18 NPT	12.5	21.5	28	29.0	17	12	**XWNNW08HS**
14	S	PN 630	1/2" -14 NPT	18.0	22.0	34	30.0	19	14	**XWNNW10HS**
16	S	PN 400	1/2" -14 NPT	19.0	24.5	36	33.0	24	16	**XWNNW13HS**
16	S	PN 400	3/4" -14 NPT	20.0	24.5	40	33.0	24	16	**XWNNW13HS3/4**
20	S	PN 400	3/4" -14 NPT	20.0	26.6	42	37.0	27	20	**XWNNW16HS**
25	S	PN 400	1" -11.5 NPT	24.0	30.0	48	42.0	36	25	**XWNNW20HS**
30	S	PN 400	1.1/4" -11.5 NPT	25.5	35.5	54	49.0	41	30	**XWNNW25HS**
38	S	PN 315	1.1/2" -11.5 NPT	26.0	41.0	61	57.0	50	38	**XWNNW32HS**

Product variants:

Stud connector, ISO 8434-1, AGN, SAE J 514, CELL/CEL/CES 24°, elbow 90°, stainless steel, XWN VA **...XWNVA**



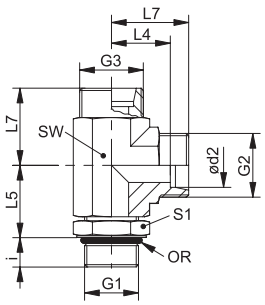




Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Construction type: adjustable direction screw-in fitting
Sealing form 1: O-ring seal, on screw-in socket
Standard connection 1: ISO 6149
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



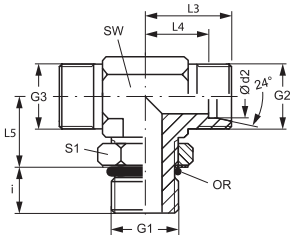
Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, L-shaped, steel

Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L4	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	7	14	14	14	6	**XELOMNW04HL**
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	10	16	17	14	8	**XELOMNW06HL**
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	10	17	19	19	10	**XELOMNW08HL**
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	10	19	22	19	12	**XELOMNW10HL**
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	11	21	24	22	15	**XELOMNW13HL**
18	L	PN 315	M 22 x 1.5	M 26 x 1.5	12	24	27	27	18	**XELOMNW16HL**
22	L	PN 160	M 27 x 2	M 30 x 2	14	28	32	30	22	**XELOMNW20HL27**
28	L	PN 160	M 33 x 2	M 36 x 2	14	31	41	36	28	**XELOMNW25HL**
35	L	PN 160	M 42 x 2	M 45 x 2	14	38	50	50	35	**XELOMNW32HL**
42	L	PN 160	M 48 x 2	M 52 x 2	16	38	55	50	42	**XELOMNW40HL**
6	S	PN 400	M 12 x 1.5	M 14 x 1.5	10	15	17	14	6	**XELOMNW03HS**
8	S	PN 400	M 14 x 1.5	M 16 x 1.5	10	17	19	19	8	**XELOMNW04HS**
10	S	PN 400	M 16 x 1.5	M 18 x 1.5	11	18	22	19	10	**XELOMNW06HS**
12	S	PN 400	M 18 x 1.5	M 20 x 1.5	12	22	24	22	12	**XELOMNW08HS**
14	S	PN 250	M 20 x 1.5	M 22 x 1.5	14	22	27	24	14	**XELOMNW10HS**
16	S	PN 400	M 22 x 1.5	M 24 x 1.5	14	25	27	27	16	**XELOMNW13HS**
20	S	PN 400	M 27 x 2	M 30 x 2	16	28	32	30	20	**XELOMNW16HS**
25	S	PN 315	M 33 x 2	M 36 x 2	16	30	41	36	25	**XELOMNW20HS**
30	S	PN 250	M 42 x 2	M 42 x 2	17	36	50	50	30	**XELOMNW25HS**
38	S	PN 200	M 48 x 2	M 52 x 2	19	34	55	50	38	**XELOMNW32HS**

Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, T shape, steel

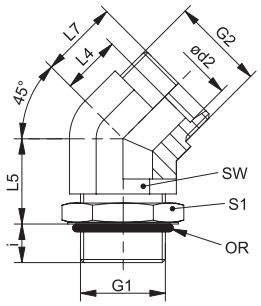


Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L3	L5	S1	SW	Ø d2	Item no.
mm					mm	mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	7	21	20	14	14	6	**XETOMNW04HL**
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	10	23	22	17	14	8	**XETOMNW06HL**
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	10	24	25	19	19	10	**XETOMNW08HL**
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	10	26	26	22	19	12	**XETOMNW10HL**
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	11	28	30	24	22	15	**XETOMNW13HL**
18	L	PN 315	M 22 x 1.5	M 26 x 1.5	12	31	33	27	27	18	**XETOMNW16HL**
22	L	PN 160	M 27 x 2	M 30 x 2	14	35	35	32	30	22	**XETOMNW20HL27**
28	L	PN 160	M 33 x 2	M 36 x 2	14	38	38	41	36	28	**XETOMNW25HL**
35	L	PN 160	M 42 x 2	M 45 x 2	14	48	48	50	50	35	**XETOMNW32HL**
42	L	PN 160	M 48 x 2	M 52 x 2	16	49	49	55	50	42	**XETOMNW40HL**
6	S	PN 400	M 12 x 1.5	M 14 x 1.5	10	22	22	17	14	6	**XETOMNW03HS**
8	S	PN 400	M 14 x 1.5	M 16 x 1.5	10	24	26	19	19	8	**XETOMNW04HS**
10	S	PN 400	M 16 x 1.5	M 18 x 1.5	11	25	27	22	19	10	**XETOMNW06HS**
12	S	PN 400	M 18 x 1.5	M 20 x 1.5	12	29	31	24	22	12	**XETOMNW08HS**
14	S	PN 250	M 20 x 1.5	M 22 x 1.5	14	33	35	27	27	14	**XETOMNW10HS**
16	S	PN 400	M 22 x 1.5	M 24 x 1.5	14	33	35	27	27	16	**XETOMNW13HS**
20	S	PN 400	M 27 x 2	M 30 x 2	16	38	39	32	30	20	**XETOMNW16HS**
25	S	PN 315	M 33 x 2	M 36 x 2	16	42	44	41	36	25	**XETOMNW20HS**
30	S	PN 250	M 42 x 2	M 42 x 2	17	49	51	50	50	30	**XETOMNW25HS**
38	S	PN 200	M 48 x 2	M 52 x 2	19	50	54	55	50	38	**XETOMNW32HS**

Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, elbow 45°, steel



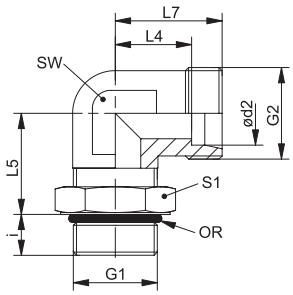
Connection 2: metric cylindrical outer thread
Type: angle 45°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	8	16	14	14	6	**XEWOM45NW04HL**
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	11	19	17	14	8	**XEWOM45NW06HL**
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	11	19	19	19	10	**XEWOM45NW08HL**
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	11	21	22	19	12	**XEWOM45NW10HL**
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	12	24	24	22	15	**XEWOM45NW13HL**
18	L	PN 315	M 22 x 1.5	M 26 x 1.5	12	24	27	27	18	**XEWOM45NW16HL**
22	L	PN 160	M 27 x 2	M 30 x 2	15	26	32	30	22	**XEWOM45NW20HL27**
28	L	PN 160	M 33 x 2	M 36 x 2	15	31	41	36	28	**XEWOM45NW25HL**
35	L	PN 160	M 42 x 2	M 45 x 2	15	37	50	50	35	**XEWOM45NW32HL**
42	L	PN 160	M 48 x 2	M 52 x 2	17	37	55	50	42	**XEWOM45NW40HL**
6	S	PN 400	M 12 x 1.5	M 14 x 1.5	11	16	17	14	6	**XEWOM45NW03HS**
8	S	PN 400	M 14 x 1.5	M 16 x 1.5	11	19	19	19	8	**XEWOM45NW04HS**
10	S	PN 400	M 16 x 1.5	M 18 x 1.5	12	21	22	19	10	**XEWOM45NW06HS**

→

Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
12	S	PN 400	M 18 x 1.5	M 20 x 1.5	14	24	24	22	12	**XEWOM45NW08HS**
14	S	PN 400	M 20 x 1.5	M 22 x 1.5	14	24	27	27	14	**XEWOM45NW10HS**
16	S	PN 400	M 22 x 1.5	M 24 x 1.5	14	24	27	27	16	**XEWOM45NW13HS**
20	S	PN 400	M 27 x 2	M 30 x 2	18	27	32	30	20	**XEWOM45NW16HS**
25	S	PN 315	M 33 x 2	M 36 x 2	18	31	41	36	25	**XEWOM45NW20HS**
30	S	PN 250	M 42 x 2	M 42 x 2	18	37	50	50	30	**XEWOM45NW25HS**
38	S	PN 200	M 48 x 2	M 52 x 2	21	37	55	50	38	**XEWOM45NW32HS**



Stud connector, ISO 8434-1, AGM, OR, ISO 6149, adjustable, CEL/CES 24°, elbow 90°, steel

Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
4	LL	PN 100	M 8 x 1	M 8 x 1	7.1	15	12	12	4	**XEWOM04LL**
4	LL	PN 100	M 10 x 1	M 8 x 1	7.1	15	14	11	4	**XEWOM04LL10**
6	LL	PN 100	M 10 x 1	M 10 x 1	7.1	15	14	14	6	**XEWOM06LL**
6	LL	PN 100	M 12 x 1.5	M 10 x 1	9.6	18	17	14	6	**XEWOM06LL12-1.5**
6	L	PN 250	M 10 x 1	M 12 x 1.5	7.0	21	14	14	6	**XEWOMNW04HL**
8	L	PN 250	M 12 x 1.5	M 14 x 1.5	10.0	23	17	14	8	**XEWOMNW06HL**
10	L	PN 250	M 14 x 1.5	M 16 x 1.5	10.0	24	19	19	10	**XEWOMNW08HL**
12	L	PN 250	M 16 x 1.5	M 18 x 1.5	10.0	26	22	19	12	**XEWOMNW10HL**
15	L	PN 250	M 18 x 1.5	M 22 x 1.5	11.0	28	24	22	15	**XEWOMNW13HL**
15	L	PN 315	M 22 x 1.5	M 22 x 1.5	12.0	24	27	22	15	**XEWOMNW13HL22**
18	L	PN 160	M 22 x 1.5	M 26 x 1.5	12.0	31	27	27	18	**XEWOMNW16HL**
22	L	PN 160	M 26 x 1.5	M 30 x 2	14.0	35	32	27	22	**XEWOMNW20HL**
22	L	PN 160	M 27 x 2	M 30 x 2	14.0	35	32	30	22	**XEWOMNW20HL27**
28	L	PN 100	M 33 x 2	M 36 x 2	14.0	38	41	36	28	**XEWOMNW25HL**
35	L	PN 100	M 42 x 2	M 45 x 2	14.0	48	50	50	35	**XEWOMNW32HL**
42	L	PN 100	M 48 x 2	M 52 x 2	16.0	49	55	50	42	**XEWOMNW40HL**
6	S	PN 630	M 12 x 1.5	M 14 x 1.5	10.0	22	17	14	6	**XEWOMNW03HS**
8	S	PN 630	M 14 x 1.5	M 16 x 1.5	10.0	24	19	19	8	**XEWOMNW04HS**
10	S	PN 630	M 16 x 1.5	M 18 x 1.5	11.0	25	22	19	10	**XEWOMNW06HS**
12	S	PN 630	M 18 x 1.5	M 20 x 1.5	12.0	29	24	22	12	**XEWOMNW08HS**
14	S	PN 630	M 20 x 1.5	M 22 x 1.5	14.0	31	27	27	14	**XEWOMNW10HS**
16	S	PN 400	M 22 x 1.5	M 24 x 1.5	14.0	33	27	27	16	**XEWOMNW13HS**
20	S	PN 400	M 27 x 2	M 30 x 2	16.0	38	32	30	20	**XEWOMNW16HS**
25	S	PN 315	M 33 x 2	M 36 x 2	16.0	42	41	36	25	**XEWOMNW20HS**
30	S	PN 250	M 42 x 2	M 42 x 2	17.0	49	50	50	30	**XEWOMNW25HS**
38	S	PN 200	M 48 x 2	M 52 x 2	19.0	50	55	50	38	**XEWOMNW32HS**

Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Construction type: adjustable direction screw-in fitting
Sealing form 1: O-ring and retaining ring
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 6149
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

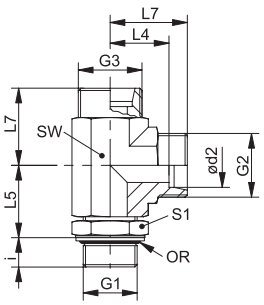
Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





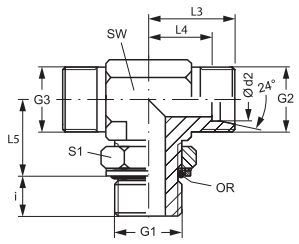
Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, L shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone



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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	7	21	13	14	6	**XELOMKNW04HL**
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	10	23	17	14	8	**XELOMKNW06HL**
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	9	24	17	19	10	**XELOMKNW08HL**
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	9	26	19	19	12	**XELOMKNW10HL**
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	11	28	22	22	15	**XELOMKNW13HL**
18	L	PN 315	M 22 x 1.5	M 26 x 1.5	11	31	27	27	18	**XELOMKNW16HL**
22	L	PN 160	M 26 x 1.5	M 30 x 2	16	35	32	30	22	**XELOMKNW20HL**
22	L	PN 160	M 27 x 2	M 30 x 2	14	35	36	30	22	**XELOMKNW20HL27**
28	L	PN 160	M 33 x 2	M 36 x 2	14	38	38	36	28	**XELOMKNW25HL**
35	L	PN 160	M 42 x 2	M 45 x 2	14	48	50	50	35	**XELOMKNW32HL**
42	L	PN 160	M 48 x 2	M 52 x 2	16	49	55	50	42	**XELOMKNW40HL**
6	S	PN 315	M 12 x 1.5	M 14 x 1.5	10	22	17	14	6	**XELOMKNW03HS**
8	S	PN 315	M 14 x 1.5	M 16 x 1.5	10	24	17	19	8	**XELOMKNW04HS**
10	S	PN 315	M 16 x 1.5	M 18 x 1.5	11	25	19	19	10	**XELOMKNW06HS**
12	S	PN 315	M 18 x 1.5	M 20 x 1.5	12	29	22	22	12	**XELOMKNW08HS**
14	S	PN 315	M 20 x 1.5	M 22 x 1.5	14	33	27	27	14	**XELOMKNW10HS**
16	S	PN 315	M 22 x 1.5	M 24 x 1.5	14	33	27	27	16	**XELOMKNW13HS**
20	S	PN 315	M 27 x 2	M 30 x 2	16	38	32	30	20	**XELOMKNW16HS**
25	S	PN 315	M 33 x 2	M 36 x 2	16	42	38	36	25	**XELOMKNW20HS**
30	S	PN 250	M 42 x 2	M 42 x 2	17	49	50	50	30	**XELOMKNW25HS**
38	S	PN 200	M 48 x 2	M 52 x 2	19	50	55	50	38	**XELOMKNW32HS**

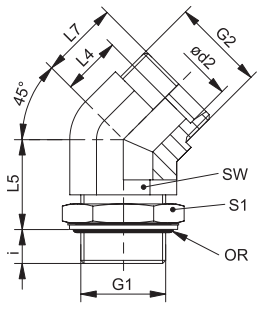


Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, T shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone

...XETOMK

Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L3	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	7	21	13	14	6	XETOMKNW04HL
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	10	23	17	14	8	XETOMKNW06HL
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	9	24	17	19	10	XETOMKNW08HL
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	9	26	19	19	12	XETOMKNW10HL
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	11	28	22	22	15	XETOMKNW13HL
18	L	PN 315	M 22 x 1.5	M 26 x 1.5	11	31	27	27	18	XETOMKNW16HL
22	L	PN 160	M 26 x 1.5	M 30 x 2	16	35	36	30	22	XETOMKNW20HL
22	L	PN 160	M 27 x 2	M 30 x 2	14	35	32	30	22	XETOMKNW20HL27
28	L	PN 160	M 33 x 2	M 36 x 2	14	38	38	36	28	XETOMKNW25HL
35	L	PN 160	M 42 x 2	M 45 x 2	14	48	50	50	35	XETOMKNW32HL
42	L	PN 160	M 48 x 2	M 52 x 2	16	49	55	50	42	XETOMKNW40HL
6	S	PN 400	M 12 x 1.5	M 14 x 1.5	10	22	17	14	6	XETOMKNW03HS
8	S	PN 400	M 14 x 1.5	M 16 x 1.5	10	20	17	19	8	XETOMKNW04HS
10	S	PN 400	M 16 x 1.5	M 18 x 1.5	11	25	19	19	10	XETOMKNW06HS
12	S	PN 400	M 18 x 1.5	M 20 x 1.5	12	29	22	22	12	XETOMKNW08HS
14	S	PN 400	M 20 x 1.5	M 22 x 1.5	14	33	27	22	14	XETOMKNW10HS
16	S	PN 400	M 22 x 1.5	M 24 x 1.5	14	33	27	27	16	XETOMKNW13HS
20	S	PN 400	M 27 x 2	M 30 x 2	16	38	32	30	20	XETOMKNW16HS
25	S	PN 315	M 33 x 2	M 36 x 2	16	42	38	36	25	XETOMKNW20HS
30	S	PN 250	M 42 x 2	M 42 x 2	17	49	50	50	30	XETOMKNW25HS
38	S	PN 200	M 48 x 2	M 52 x 2	19	50	55	50	38	XETOMKNW32HS



Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, elbow 45°, steel

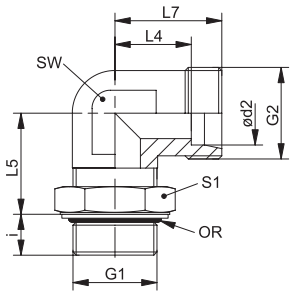
Connection 2: metric cylindrical outer thread
Type: angle 45°
Sealing form 2: 24° inner cone

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	8	16	13	14	6	XEWOMK45NW04HL
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	11	19	17	14	8	XEWOMK45NW06HL
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	11	19	17	19	10	XEWOMK45NW08HL
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	11	21	19	19	12	XEWOMK45NW10HL
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	12	24	22	22	15	XEWOMK45NW13HL
18	L	PN 250	M 22 x 1.5	M 26 x 1.5	12	24	27	27	18	XEWOMK45NW16HL
22	L	PN 160	M 26 x 1.5	M 30 x 2	16	26	32	27	22	XEWOMK45NW20HL
22	L	PN 160	M 27 x 2	M 30 x 2	15	26	32	30	22	XEWOMK45NW20HL27
28	L	PN 160	M 33 x 2	M 36 x 2	15	31	38	36	28	XEWOMK45NW25HL
35	L	PN 160	M 42 x 2	M 45 x 2	15	37	50	50	35	XEWOMK45NW32HL
42	L	PN 160	M 48 x 2	M 52 x 2	17	37	55	50	42	XEWOMK45NW40HL
6	S	PN 315	M 12 x 1.5	M 14 x 1.5	11	16	17	14	6	XEWOMK45NW03HS
8	S	PN 315	M 14 x 1.5	M 16 x 1.5	11	19	17	19	8	XEWOMK45NW04HS
10	S	PN 315	M 16 x 1.5	M 18 x 1.5	12	21	19	19	10	XEWOMK45NW06HS
12	S	PN 315	M 18 x 1.5	M 20 x 1.5	14	24	22	22	12	XEWOMK45NW08HS

Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
14	S	PN 250	M 20 x 1.5	M 22 x 1.5	14	24	27	27	14	**XEWOMK45NW10HS**
16	S	PN 250	M 22 x 1.5	M 24 x 1.5	14	24	27	27	16	**XEWOMK45NW13HS**
20	S	PN 250	M 27 x 2	M 30 x 2	18	27	32	30	20	**XEWOMK45NW16HS**
25	S	PN 160	M 33 x 2	M 36 x 2	18	31	36	38	25	**XEWOMK45NW20HS**
30	S	PN 160	M 42 x 2	M 42 x 2	18	37	50	50	30	**XEWOMK45NW25HS**
38	S	PN 160	M 48 x 2	M 52 x 2	21	37	55	50	38	**XEWOMK45NW32HS**

Stud connector, ISO 8434-1, AGM, ORK, ISO 6149, adjustable, CEL/CES 24°, elbow 90°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone

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Tube outer Ø	Series	Working pressure	G1	G2	i	L4	L7	S1	SW	Ø d2	Item no.
mm					mm	mm	mm		mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	7	14	21	13	14	6	**XEWOMKNW04HL**
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	10	16	23	17	14	8	**XEWOMKNW06HL**
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	10	17	24	17	19	10	**XEWOMKNW08HL**
12	L	PN 315	M 16 x 1.5	M 18 x 1.5	10	19	26	19	19	12	**XEWOMKNW10HL**
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	11	21	28	22	22	15	**XEWOMKNW13HL**
18	L	PN 250	M 22 x 1.5	M 26 x 1.5	12	24	31	27	27	18	**XEWOMKNW16HL**
22	L	PN 160	M 26 x 1.5	M 30 x 2	14	28	35	32	30	22	**XEWOMKNW20HL**
22	L	PN 160	M 27 x 2	M 30 x 2	14	28	35	32	30	22	**XEWOMKNW20HL27**
28	L	PN 160	M 33 x 2	M 36 x 2	14	31	38	38	36	28	**XEWOMKNW25HL**
35	L	PN 160	M 42 x 2	M 42 x 2	14	38	48	50	50	35	**XEWOMKNW32HL**
42	L	PN 160	M 48 x 2	M 52 x 2	16	38	49	55	50	42	**XEWOMKNW40HL**
6	S	PN 315	M 12 x 1.5	M 14 x 1.5	10	15	22	17	14	6	**XEWOMKNW03HS**
8	S	PN 315	M 14 x 1.5	M 16 x 1.5	10	17	24	17	19	8	**XEWOMKNW04HS**
10	S	PN 315	M 16 x 1.5	M 18 x 1.5	11	18	25	19	19	10	**XEWOMKNW06HS**
12	S	PN 315	M 18 x 1.5	M 20 x 1.5	12	22	29	22	22	12	**XEWOMKNW08HS**
14	S	PN 250	M 20 x 1.5	M 22 x 1.5	14	25	33	27	27	14	**XEWOMKNW10HS**
16	S	PN 250	M 22 x 1.5	M 24 x 1.5	14	25	33	27	27	16	**XEWOMKNW13HS**
20	S	PN 250	M 27 x 2	M 30 x 2	16	28	38	32	30	20	**XEWOMKNW16HS**
25	S	PN 160	M 33 x 2	M 36 x 2	16	30	42	38	36	25	**XEWOMKNW20HS**
30	S	PN 160	M 42 x 2	M 42 x 2	17	36	49	50	50	30	**XEWOMKNW25HS**
38	S	PN 160	M 48 x 2	M 52 x 2	19	34	50	55	50	38	**XEWOMKNW32HS**



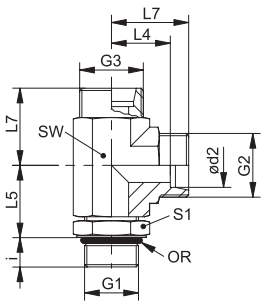




Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, steel

Connection 1: BSPP male thread, cylindric
Construction type: adjustable direction screw-in fitting
Sealing form 1: type G
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



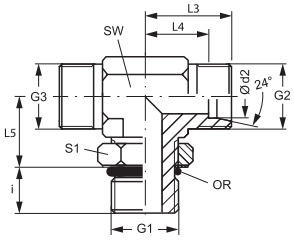
Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, L-shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9.5	23	19	14	8	**XELORNW06HL**
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9.5	24	19	19	10	**XELORNW08HL**
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9.5	26	22	19	12	**XELORNW10HL**
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13.0	28	27	22	15	**XELORNW13HL**
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13.0	31	27	27	18	**XELORNW16HL**
22	L	PN 160	G 3/4" -14	M 30 x 2	13.0	35	36	30	22	**XELORNW20HL**
28	L	PN 160	G 1" -11	M 36 x 2	16.0	38	41	36	28	**XELORNW25HL**
35	L	PN 160	G 1.1/4" -11	M 45 x 2	16.0	48	50	50	35	**XELORNW32HL**
42	L	PN 160	G 1.1/2" -11	M 52 x 2	16.0	49	55	50	42	**XELORNW40HL**
38	S	PN 160	G 1.1/2" -11	M 52 x 2	16.0	50	55	50	38	**XELORNW32HS**

Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, T-shape, steel

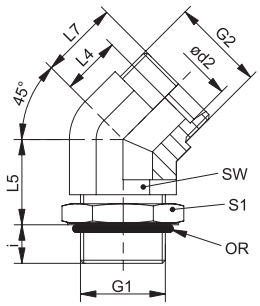


Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1:
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	S1	SW	Ø d2	Item no.
mm					mm		mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	7	14	14	6	XETORNW04HL
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9	19	14	8	XETORNW06HL
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9	19	19	10	XETORNW08HL
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9	22	19	12	XETORNW10HL
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13	27	22	15	XETORNW13HL
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13	27	27	18	XETORNW16HL
22	L	PN 160	G 3/4" -14	M 30 x 2	13	36	30	22	XETORNW20HL
28	L	PN 160	G 1" -11	M 36 x 2	15	41	36	28	XETORNW25HL
35	L	PN 160	G 1.1/4" -11	M 45 x 2	15	50	50	35	XETORNW32HL
42	L	PN 160	G 1.1/2" -11	M 52 x 2	15	50	50	42	XETORNW40HL
6	S	PN 315	G 1/4" -19	M 14 x 1.5	9	19	14	6	XETORNW03HS
8	S	PN 315	G 1/4" -19	M 16 x 1.5	9	19	19	8	XETORNW04HS
10	S	PN 250	G 3/8" -19	M 18 x 1.5	9	22	19	10	XETORNW06HS
12	S	PN 250	G 3/8" -19	M 20 x 1.5	9	22	22	12	XETORNW08HS
14	S	PN 250	G 1/2" -14	M 22 x 1.5	13	27	27	14	XETORNW10HS
16	S	PN 250	G 1/2" -14	M 24 x 1.5	13	27	27	16	XETORNW13HS
20	S	PN 250	G 3/4" -14	M 30 x 2	12	36	30	20	XETORNW16HS
25	S	PN 250	G 1" -11	M 36 x 2	14	41	36	25	XETORNW20HS
30	S	PN 160	G 1.1/4" -11	M 42 x 2	15	50	50	30	XETORNW25HS
38	S	PN 160	G 1.1/2" -11	M 52 x 2	15	55	50	38	XETORNW32HS

Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, elbow 45°, steel



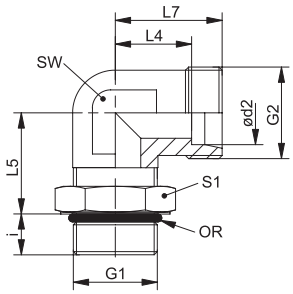
Connection 2: metric cylindrical outer thread
Type: angle 45°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	8	16.0	14	14	6	XEWOR45NW04HL
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9	19.0	19	14	8	XEWOR45NW06HL
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9	19.0	19	19	10	XEWOR45NW08HL
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9	21.0	22	19	12	XEWOR45NW10HL
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13	24.0	27	22	15	XEWOR45NW13HL
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13	24.5	27	27	18	XEWOR45NW16HL
22	L	PN 160	G 3/4" -14	M 30 x 2	13	26.5	36	30	22	XEWOR45NW20HL
28	L	PN 160	G 1" -11	M 36 x 2	15	30.5	41	36	28	XEWOR45NW25HL
35	L	PN 160	G 1.1/4" -11	M 45 x 2	15	37.5	50	50	35	XEWOR45NW32HL

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
42	L	PN 160	G 1.1/2" -11	M 52 x 2	15	37.0	55	50	42	**XEWOR45NW40HL**
6	S	PN 315	G 1/4" -19	M 14 x 1.5	9	16.0	19	14	6	**XEWOR45NW03HS**
8	S	PN 315	G 1/4" -19	M 16 x 1.5	9	19.0	19	19	8	**XEWOR45NW04HS**
10	S	PN 250	G 3/8" -19	M 16 x 1.5	9	20.5	22	19	10	**XEWOR45NW06HS**
12	S	PN 250	G 3/8" -19	M 20 x 1.5	9	24.5	22	22	12	**XEWOR45NW08HS**
14	S	PN 250	G 1/2" -14	M 22 x 1.5	13	24.5	27	27	14	**XEWOR45NW10HS**
16	S	PN 250	G 1/2" -14	M 24 x 1.5	13	24.5	27	27	16	**XEWOR45NW13HS**
20	S	PN 250	G 3/4" -14	M 30 x 2	12	26.5	36	30	20	**XEWOR45NW16HS**
25	S	PN 250	G 1" -11	M 36 x 2	14	31.0	41	36	25	**XEWOR45NW20HS**
30	S	PN 160	G 1.1/4" -11	M 42 x 2	15	37.5	50	50	30	**XEWOR45NW25HS**
38	S	PN 160	G 1.1/2" -11	M 52 x 2	15	37.0	55	50	38	**XEWOR45NW32HS**



Stud connector, ISO 8434-1, AGR, OR, adjustable, CEL/CES 24°, elbow 90°, steel

Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 250	G 1/8" -28	M 12 x 1.5	8	19	14	12	6	**XEWORNW04HL**
8	L	PN 250	G 1/4" -19	M 14 x 1.5	12	21	19	14	8	**XEWORNW06HL**
8	L	PN 250	G 3/8" -19	M 14 x 1.5	12	24	22	17	8	**XEWORNW06HL3/8**
10	L	PN 250	G 1/4" -19	M 16 x 1.5	12	22	19	14	10	**XEWORNW08HL**
12	L	PN 250	G 3/8" -19	M 18 x 1.5	12	24	22	17	12	**XEWORNW10HL**
15	L	PN 250	G 1/2" -14	M 22 x 1.5	14	28	27	19	15	**XEWORNW13HL**
18	L	PN 160	G 1/2" -14	M 26 x 1.5	14	31	27	24	18	**XEWORNW16HL**
22	L	PN 160	G 3/4" -14	M 30 x 2	16	35	36	27	22	**XEWORNW20HL**
28	L	PN 100	G 1" -11	M 36 x 2	18	38	41	36	28	**XEWORNW25HL**
35	L	PN 100	G 1.1/4" -11	M 45 x 2	20	45	50	41	35	**XEWORNW32HL**
42	L	PN 100	G 1.1/2" -11	M 52 x 2	22	51	55	50	42	**XEWORNW40HL**
6	S	PN 630	G 1/4" -19	M 14 x 1.5	12	22	19	12	6	**XEWORNW03HS**
8	S	PN 630	G 1/4" -19	M 16 x 1.5	12	24	19	14	8	**XEWORNW04HS**
10	S	PN 630	G 3/8" -19	M 18 x 1.5	12	25	22	17	10	**XEWORNW06HS**
12	S	PN 630	G 3/8" -19	M 20 x 1.5	12	29	22	19	12	**XEWORNW08HS**
14	S	PN 630	G 1/2" -14	M 22 x 1.5	14	30	27	19	14	**XEWORNW10HS**
16	S	PN 400	G 1/2" -14	M 24 x 1.5	14	33	27	24	16	**XEWORNW13HS**
20	S	PN 400	G 3/4" -14	M 30 x 2	16	39	32	27	20	**XEWORNW16HS**
25	S	PN 400	G 1" -11	M 36 x 2	18	42	41	36	25	**XEWORNW20HS**
30	S	PN 250	G 1.1/4" -11	M 42 x 2	20	49	50	41	30	**XEWORNW25HS**
38	S	PN 250	G 1.1/2" -11	M 52 x 2	22	57	55	50	38	**XEWORNW32HS**

Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, steel

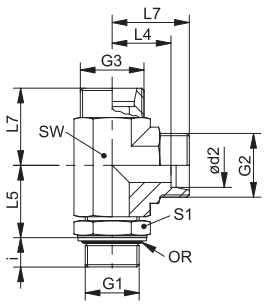




Connection 1: BSPP male thread, cylindric
Construction type: adjustable direction screw-in fitting
Sealing form 1: O-ring and retaining ring
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

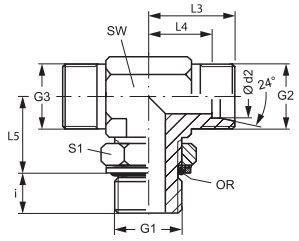
Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, L-shape, steel



Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179
Standard: ISO 8434-1

...XELORK

Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L7	S1	S2	SW	Ø d2	Item no.
mm					mm	mm			mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	7	21	14	14	14	6	XELORKNW04HL
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9	23	19	17	14	8	XELORKNW06HL
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9	24	19	19	19	10	XELORKNW08HL
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9	26	22	22	19	12	XELORKNW10HL
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13	28	27	27	22	15	XELORKNW13HL
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13	31	27	32	27	18	XELORKNW16HL
22	L	PN 160	G 3/4" -14	M 30 x 2	13	35	36	36	30	22	XELORKNW20HL
28	L	PN 160	G 1" -11	M 36 x 2	15	38	41	41	36	28	XELORKNW25HL
35	L	PN 160	G 1.1/4" -11	M 45 x 2	15	48	50	50	50	35	XELORKNW32HL
42	L	PN 160	G 1.1/2" -11	M 52 x 2	15	49	55	60	50	42	XELORKNW40HL
6	S	PN 315	G 1/4" -19	M 14 x 1.5	9	22	19	17	14	6	XELORKNW03HS
8	S	PN 315	G 1/4" -19	M 16 x 1.5	9	24	19	19	19	8	XELORKNW04HS
10	S	PN 250	G 3/8" -19	M 18 x 1.5	9	25	22	22	19	10	XELORKNW06HS
12	S	PN 250	G 3/8" -19	M 20 x 1.5	9	29	22	24	22	12	XELORKNW08HS
14	S	PN 250	G 1/2" -14	M 22 x 1.5	13	33	27	27	27	14	XELORKNW10HS
16	S	PN 250	G 1/2" -14	M 24 x 1.5	13	33	27	30	27	16	XELORKNW13HS
20	S	PN 250	G 3/4" -14	M 30 x 2	12	38	36	36	30	20	XELORKNW16HS
25	S	PN 250	G 1" -11	M 36 x 2	14	42	41	46	36	25	XELORKNW20HS
30	S	PN 160	G 1.1/4" -11	M 42 x 2	15	51	50	50	50	30	XELORKNW25HS
38	S	PN 160	G 1.1/2" -11	M 52 x 2	15	50	55	60	50	38	XELORKNW32HS

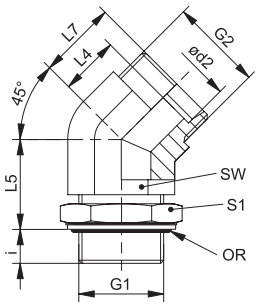


Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, T-shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179
Standard: ISO 8434-1

...XETORK

Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L3	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	7	21	14	14	6	XETORKNW04HL
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9	23	19	14	8	XETORKNW06HL
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9	24	19	19	10	XETORKNW08HL
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9	26	22	19	12	XETORKNW10HL
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13	28	27	22	15	XETORKNW13HL
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13	31	27	27	18	XETORKNW16HL
22	L	PN 160	G 3/4" -14	M 30 x 2	13	35	36	30	22	XETORKNW20HL
28	L	PN 160	G 1" -11	M 36 x 2	15	38	41	36	28	XETORKNW25HL
35	L	PN 160	G 1.1/4" -11	M 45 x 2	15	48	50	50	35	XETORKNW32HL
42	L	PN 160	G 1.1/2" -11	M 52 x 2	15	49	50	50	42	XETORKNW40HL
6	S	PN 315	G 1/4" -19	M 14 x 1.5	9	22	19	14	6	XETORKNW03HS
8	S	PN 315	G 1/4" -19	M 16 x 1.5	9	24	19	19	8	XETORKNW04HS
10	S	PN 250	G 3/8" -19	M 18 x 1.5	9	25	22	19	10	XETORKNW06HS
12	S	PN 250	G 3/8" -19	M 20 x 1.5	9	29	22	22	12	XETORKNW08HS
14	S	PN 250	G 1/2" -14	M 22 x 1.5	13	33	27	27	14	XETORKNW10HS
16	S	PN 250	G 1/2" -14	M 24 x 1.5	13	33	27	27	16	XETORKNW13HS
20	S	PN 250	G 3/4" -14	M 30 x 2	12	38	36	30	20	XETORKNW16HS
25	S	PN 250	G 1" -11	M 36 x 2	14	42	41	36	25	XETORKNW20HS
30	S	PN 160	G 1.1/4" -11	M 42 x 2	15	49	50	50	30	XETORKNW25HS
38	S	PN 160	G 1.1/2" -11	M 52 x 2	15	50	55	50	38	XETORKNW32HS



Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, elbow 45°, steel

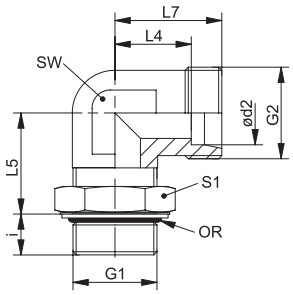
Connection 2: metric cylindrical outer thread
Type: angle 45°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-1

...XEWORK45

Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	7	16	14	14	6	XEWORK45NW04HL
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9	19	19	14	8	XEWORK45NW06HL
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9	19	19	19	10	XEWORK45NW08HL
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9	21	22	19	12	XEWORK45NW10HL
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13	24	27	22	15	XEWORK45NW13HL
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13	24	27	27	18	XEWORK45NW16HL
22	L	PN 160	G 3/4" -14	M 30 x 2	13	26	36	30	22	XEWORK45NW20HL
22	L	PN 160	G 3/4" -14	M 27 x 2	13	26	36	30	22	XEWORK45NW20HL27
28	L	PN 160	G 1" -11	M 36 x 2	15	31	41	36	28	XEWORK45NW25HL

Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
35	L	PN 160	G 1.1/4" -11	M 45 x 2	15	37	50	50	35	**XEWORK45NW32HL**
42	L	PN 160	G 1.1/2" -11	M 52 x 2	15	37	55	50	42	**XEWORK45NW40HL**
6	S	PN 315	G 1/4" -19	M 14 x 1.5	9	16	19	14	6	**XEWORK45NW03HS**
8	S	PN 315	G 1/4" -19	M 16 x 1.5	9	19	19	19	8	**XEWORK45NW04HS**
10	S	PN 250	G 3/8" -19	M 18 x 1.5	9	21	22	19	10	**XEWORK45NW06HS**
12	S	PN 250	G 3/8" -19	M 20 x 1.5	9	24	22	22	12	**XEWORK45NW08HS**
14	S	PN 250	G 1/2" -14	M 22 x 1.5	13	24	27	27	14	**XEWORK45NW10HS**
16	S	PN 250	G 1/2" -14	M 24 x 1.5	13	24	27	27	16	**XEWORK45NW13HS**
20	S	PN 250	G 3/4" -14	M 30 x 2	12	27	36	30	20	**XEWORK45NW16HS**
25	S	PN 250	G 1" -11	M 36 x 2	14	31	41	36	25	**XEWORK45NW20HS**
30	S	PN 160	G 1.1/4" -11	M 42 x 2	15	37	50	50	30	**XEWORK45NW25HS**
38	S	PN 160	G 1.1/2" -11	M 52 x 2	15	37	55	50	38	**XEWORK45NW32HS**

Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, adjustable, CEL/CES 24°, elbow 90°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2	i	L7	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
4	LL	PN 250	G 1/8" -28	M 8 x 1	7.1	15	14	11	4	**XEWORK04LL**
6	LL	PN 250	G 1/8" -28	M 10 x 1	7.1	15	14	11	6	**XEWORK06LL**
6	L	PN 315	G 1/8" -28	M 12 x 1.5	7.0	21	14	14	6	**XEWORKNW04HL**
8	L	PN 315	G 1/4" -19	M 14 x 1.5	9.0	23	19	14	8	**XEWORKNW06HL**
10	L	PN 315	G 1/4" -19	M 16 x 1.5	9.0	24	19	19	10	**XEWORKNW08HL**
12	L	PN 250	G 3/8" -19	M 18 x 1.5	9.0	26	22	19	12	**XEWORKNW10HL**
15	L	PN 250	G 1/2" -14	M 22 x 1.5	13.0	28	27	22	15	**XEWORKNW13HL**
18	L	PN 250	G 1/2" -14	M 26 x 1.5	13.0	31	27	27	18	**XEWORKNW16HL**
22	L	PN 160	G 3/4" -14	M 30 x 2	13.0	35	36	30	22	**XEWORKNW20HL**
28	L	PN 160	G 1" -11	M 36 x 2	15.0	38	41	36	28	**XEWORKNW25HL**
35	L	PN 160	G 1.1/4" -11	M 45 x 2	15.0	48	50	50	35	**XEWORKNW32HL**
42	L	PN 160	G 1.1/2" -11	M 52 x 2	15.0	49	55	50	42	**XEWORKNW40HL**
6	S	PN 315	G 1/4" -19	M 14 x 1.5	9.0	22	19	14	6	**XEWORKNW03HS**
8	S	PN 315	G 1/4" -19	M 16 x 1.5	9.0	24	19	19	8	**XEWORKNW04HS**
10	S	PN 250	G 3/8" -19	M 18 x 1.5	9.0	25	22	19	10	**XEWORKNW06HS**
12	S	PN 250	G 3/8" -19	M 20 x 1.5	9.0	29	22	22	12	**XEWORKNW08HS**
14	S	PN 250	G 1/2" -14	M 22 x 1.5	13.0	33	27	27	14	**XEWORKNW10HS**
16	S	PN 250	G 1/2" -14	M 24 x 1.5	13.0	33	27	27	16	**XEWORKNW13HS**
20	S	PN 250	G 3/4" -14	M 30 x 2	12.0	38	36	30	20	**XEWORKNW16HS**
25	S	PN 250	G 1" -11	M 36 x 2	14.0	42	41	36	25	**XEWORKNW20HS**
30	S	PN 160	G 1.1/4" -11	M 42 x 2	15.0	49	50	50	30	**XEWORKNW25HS**
38	S	PN 160	G 1.1/2" -11	M 52 x 2	15.0	50	55	50	38	**XEWORKNW32HS**





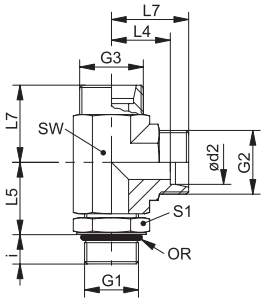


Stud connector, ISO 8434-1, UNF-OR, ISO 11926, adjustable, CEL/CES 24°, steel

Connection 1: UN/UNF external threads
Construction type: adjustable direction screw-in fitting
Sealing form 1: O-ring seal, on screw-in socket
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

1



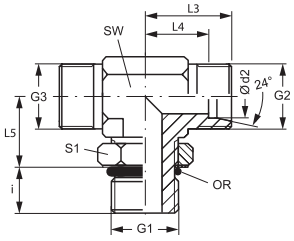
Stud connector, ISO 8434-1, UNF-OR, ISO 11926, adjustable, L type CEL/CES 24°, steel

Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L4	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	7/16" -20 UNF	M 12 x 1.5	10	14	14	14	6	**XELONW04HL7/16**
8	L	PN 315	1/2" -20 UNF	M 14 x 1.5	10	16	19	14	8	**XELONW06HL1/2**
8	L	PN 315	7/16" -20 UNF	M 14 x 1.5	10	16	14	14	8	**XELONW06HL7/16**
8	L	PN 315	9/16" -18 UNF	M 14 x 1.5	10	16	17	19	8	**XELONW06HL9/16**
10	L	PN 315	9/16" -18 UNF	M 16 x 1.5	10	17	17	19	10	**XELONW08HL9/16**
12	L	PN 315	3/4" -16 UNF	M 18 x 1.5	13	19	22	19	12	**XELONW10HL3/4**
12	L	PN 315	9/16" -18 UNF	M 18 x 1.5	11	19	17	19	12	**XELONW10HL9/16**
15	L	PN 315	3/4" -16 UNF	M 22 x 1.5	13	21	22	22	15	**XELONW13HL3/4**
15	L	PN 315	7/8" -14 UNF	M 22 x 1.5	15	21	27	22	15	**XELONW13HL7/8**
18	L	PN 315	1.1/16" -12 UN	M 26 x 1.5	17	24	32	30	18	**XELONW16HL11/16**
18	L	PN 315	7/8" -14 UNF	M 26 x 1.5	15	24	27	27	18	**XELONW16HL7/8**
22	L	PN 160	1.1/16" -12 UN	M 30 x 2	17	28	32	30	22	**XELONW20HL11/16**
28	L	PN 160	1.5/16" -12 UN	M 36 x 2	17	31	41	36	28	**XELONW25HL15/16**
35	L	PN 160	1.5/8" -12 UN	M 45 x 2	17	38	50	50	35	**XELONW32HL15/8**
42	L	PN 160	1.7/8" -12 UN	M 52 x 2	17	38	55	50	42	**XELONW40HL17/8**
6	S	PN 400	7/16" -20 UNF	M 14 x 1.5	12	15	14	14	6	**XELONW03HS7/16**
8	S	PN 400	1/2" -20 UNF	M 16 x 1.5	12	15	17	14	8	**XELONW04HS1/2**
8	S	PN 400	9/16" -18 UNF	M 16 x 1.5	12	17	17	19	8	**XELONW04HS9/16**
10	S	PN 400	9/16" -18 UNF	M 18 x 1.5	12	18	17	19	10	**XELONW06HS9/16**
12	S	PN 400	3/4" -16 UNF	M 20 x 1.5	14	22	22	22	12	**XELONW08HS3/4**
14	S	PN 250	7/8" -14 UNF	M 22 x 1.5	16	25	27	27	14	**XELONW10HS7/8**
16	S	PN 400	7/8" -14 UNF	M 24 x 1.5	16	25	27	27	16	**XELONW13HS7/8**
20	S	PN 400	1.1/16" -12 UN	M 30 x 2	19	28	32	30	20	**XELONW16HS11/16**
25	S	PN 400	1.1/16" -12 UN	M 36 x 2	19	30	32	36	25	**XELONW20HS11/16**
25	S	PN 400	1.5/16" -12 UN	M 36 x 2	19	33	33	38	25	**XELONW20HS15/16**
30	S	PN 250	1.5/8" -12 UN	M 42 x 2	19	36	50	50	30	**XELONW25HS15/8**
38	S	PN 250	1.7/8" -12 UN	M 52 x 2	19	34	55	50	38	**XELONW32HS17/8**

Stud connector, ISO 8434-1, UNF-OR, ISO 11926, adjustable, T-shape, CEL/CES 24°, steel

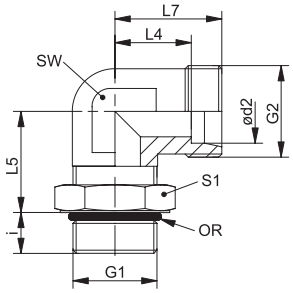


Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 11926
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G1	G2 + G3	i	L3	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	7/16" -20 UNF	M 12 x 1.5	10	29	14	14	6	**XETONW04HL7/16**
8	L	PN 315	1/2" -20 UNF	M 14 x 1.5	10	31	17	14	8	**XETONW06HL1/2**
8	L	PN 315	7/16" -20 UNF	M 14 x 1.5	10	31	14	14	8	**XETONW06HL7/16**
8	L	PN 315	9/16" -18 UNF	M 14 x 1.5	10	31	19	17	8	**XETONW06HL9/16**
10	L	PN 315	9/16" -18 UNF	M 16 x 1.5	10	32	19	17	10	**XETONW08HL9/16**
12	L	PN 315	3/4" -16 UNF	M 18 x 1.5	13	34	19	22	12	**XETONW10HL3/4**
12	L	PN 315	9/16" -18 UNF	M 18 x 1.5	11	34	19	17	12	**XETONW10HL9/16**
15	L	PN 315	3/4" -16 UNF	M 22 x 1.5	13	36	22	22	15	**XETONW13HL3/4**
15	L	PN 315	7/8" -14 UNF	M 22 x 1.5	15	36	22	27	15	**XETONW13HL7/8**
18	L	PN 315	1.1/16" -12 UN	M 26 x 1.5	17	40	30	32	18	**XETONW16HL11/16**
18	L	PN 315	7/8" -14 UNF	M 26 x 1.5	15	40	27	27	18	**XETONW16HL7/8**
22	L	PN 160	1.1/16" -12 UN	M 30 x 2	17	44	30	32	22	**XETONW20HL11/16**
28	L	PN 160	1.5/16" -12 UN	M 36 x 2	17	47	36	41	28	**XETONW25HL15/16**
35	L	PN 160	1.5/8" -12 UN	M 45 x 2	17	59	50	50	35	**XETONW32HL15/8**
42	L	PN 160	1.7/8" -12 UN	M 52 x 2	17	61	50	55	42	**XETONW40HL17/8**
6	S	PN 400	7/16" -20 UNF	M 14 x 1.5	12	30	14	14	6	**XETONW03HS7/16**
8	S	PN 400	1/2" -20 UNF	M 16 x 1.5	12	32	17	19	8	**XETONW04HS1/2**
8	S	PN 400	9/16" -18 UNF	M 16 x 1.5	12	32	17	19	8	**XETONW04HS9/16**
10	S	PN 400	9/16" -18 UNF	M 18 x 1.5	12	34	19	17	10	**XETONW06HS9/16**
12	S	PN 400	3/4" -16 UNF	M 20 x 1.5	14	38	22	22	12	**XETONW08HS3/4**
14	S	PN 250	7/8" -14 UNF	M 22 x 1.5	13	34	27	27	14	**XETONW10HS7/8**
16	S	PN 400	7/8" -14 UNF	M 24 x 1.5	16	43	27	27	16	**XETONW13HS7/8**
20	S	PN 400	1.1/16" -12 UN	M 30 x 2	19	49	30	32	20	**XETONW16HS11/16**
25	S	PN 400	1.1/16" -12 UN	M 36 x 2	19	54	36	32	25	**XETONW20HS11/16**
25	S	PN 250	1.5/16" -12 UN	M 36 x 2	19	54	41	36	25	**XETONW20HS15/16**
30	S	PN 250	1.5/8" -12 UN	M 42 x 2	19	62	50	50	30	**XETONW25HS15/8**
38	S	PN 250	1.7/8" -12 UN	M 52 x 2	19	65	50	55	38	**XETONW32HS17/8**

Stud connector, ISO 8434-1, AG UNF-OR, ISO 11926, adjustable, elbow 90°, CEL/CES 24°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 11926
Standard: ISO 8434-1

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Series	Working pressure	G1	G2	i	Tube outer Ø	S1	SW	Ø d2	Item no.
				mm	mm		mm	mm	
L	PN 315	7/16" UNF	M 12 x 1.5	10	6	14	14	6	**XEWONW04HL7/16**
L	PN 315	1/2" UNF	M 14 x 1.5	10	8	17	14	8	**XEWONW06HL1/2**

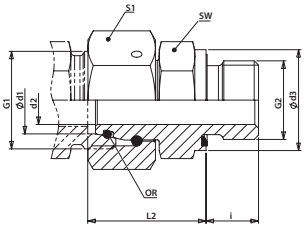
Series	Working pressure	G1	G2	i	Tube outer Ø	S1	SW	Ø d2	Item no.
				mm	mm		mm	mm	
L	PN 315	7/16" UNF	M 14 x 1.5	10	8	14	14	8	XEWONW06HL7/16
L	PN 315	9/16" UNF	M 14 x 1.5	10	8	17	19	8	XEWONW06HL9/16
S	PN 400	9/16" UNF	M 18 x 1.5	12	10	17	19	10	XEWONW06HS9/16
L	PN 315	9/16" UNF	M 16 x 1.5	10	10	17	19	10	XEWONW08HL9/16
L	PN 315	3/4" UNF	M 18 x 1.5	13	12	22	19	12	XEWONW10HL3/4
L	PN 315	9/16" UNF	M 18 x 1.5	11	12	17	19	12	XEWONW10HL9/16
L	PN 315	3/4" UNF	M 22 x 1.5	13	15	22	22	15	XEWONW13HL3/4
L	PN 315	7/8" UNF	M 22 x 1.5	15	15	27	22	15	XEWONW13HL7/8
L	PN 315	1.1/16" UN	M 26 x 1.5	17	18	32	30	18	XEWONW16HL11/16
L	PN 315	7/8" UNF	M 26 x 1.5	15	18	27	27	18	XEWONW16HL7/8
L	PN 160	1.1/16" UN	M 30 x 2	17	22	32	30	22	XEWONW20HL11/16
L	PN 160	1.5/16" UN	M 36 x 2	17	28	41	36	28	XEWONW25HL15/16
L	PN 160	1.5/8" UN	M 45 x 2	17	35	50	50	35	XEWONW32HL15/8
L	PN 160	1.7/8" UN	M 52 x 2	17	42	55	50	42	XEWONW40HL17/8
S	PN 400	7/16" UNF	M 14 x 1.5	12	6	14	14	6	XEWONW03HS7/16
S	PN 400	1/2" UNF	M 16 x 1.5	11	8	17	14	8	XEWONW04HS1/2
S	PN 400	9/16" UNF	M 16 x 1.5	12	8	17	19	8	XEWONW04HS9/16
S	PN 400	3/4" UNF	M 20 x 1.5	14	12	22	22	12	XEWONW08HS3/4
S	PN 400	7/8" UNF	M 22 x 1.5	16	14	24	27	14	XEWONW10HS7/8
S	PN 400	7/8" UNF	M 24 x 1.5	16	16	27	27	16	XEWONW13HS7/8
S	PN 400	1.1/16" UN	M 30 x 2	19	20	32	30	20	XEWONW16HS11/16
S	PN 400	1.1/16" UN	M 36 x 2	19	25	32	36	25	XEWONW20HS11/16
S	PN 400	1.5/16" UN	M 36 x 2	19	25	36	41	25	XEWONW20HS15/16
S	PN 250	1.5/8" UN	M 42 x 2	19	30	50	50	30	XEWONW25HS15/8
S	PN 250	1.7/8" UN	M 52 x 2	19	38	55	50	38	XEWONW32HS17/8



Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, DKOL/DKOS 24°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric nut thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: type E
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Series	Working pressure	G2	G1	i	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm	mm		mm	mm	mm	mm	
L	PN 315	M 10 x 1	M 12 x 1.5	8	24.5	14	14	6	2.5	13.9	AOVMNW04LED
L	PN 315	M 12 x 1.5	M 14 x 1.5	12	26.5	17	17	8	4.5	16.9	AOVMNW06LED
L	PN 315	M 14 x 1.5	M 16 x 1.5	12	27.5	19	19	10	6	18.9	AOVMNW08LED
L	PN 315	M 16 x 1.5	M 18 x 1.5	12	30.5	22	22	12	8	21.9	AOVMNW10LED
L	PN 315	M 18 x 1.5	M 22 x 1.5	12	31.5	27	24	15	10	23.9	AOVMNW13LED
L	PN 315	M 22 x 1.5	M 26 x 1.5	14	31.5	32	27	18	13	26.9	AOVMNW16LED
L	PN 160	M 26 x 1.5	M 30 x 2	16	32.5	36	32	22	17	31.9	AOVMNW20LED
L	PN 160	M 33 x 2	M 36 x 2	18	35.0	41	41	28	22	39.9	AOVMNW25LED
L	PN 160	M 42 x 2	M 45 x 2	20	42.5	50	50	35	28	49.9	AOVMNW32LED
L	PN 160	M 48 x 2	M 52 x 2	22	46.5	60	55	42	34	54.9	AOVMNW40LED
S	PN 630	M 12 x 1.5	M 14 x 1.5	12	27.0	17	17	6	2.5	16.9	AOVMNW03SED
S	PN 630	M 14 x 1.5	M 16 x 1.5	12	29.5	19	19	8	4	18.9	AOVMNW04SED
S	PN 630	M 16 x 1.5	M 18 x 1.5	12	32.0	22	22	10	6	21.9	AOVMNW06SED

Series	Working pressure	G2	G1	i	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm	mm		mm	mm	mm	mm	
S	PN 630	M 18 x 1.5	M 20 x 1.5	12	34.0	24	24	12	8	23.9	**AOVMNW08SED**
S	PN 630	M 20 x 1.5	M 22 x 1.5	14	36.5	27	27	14	9	25.9	**AOVMNW10SED**
S	PN 400	M 22 x 1.5	M 24 x 1.5	14	37.0	30	27	16	11	26.9	**AOVMNW13SED**
S	PN 400	M 27 x 2	M 30 x 2	16	43.0	36	32	20	14	31.9	**AOVMNW16SED**
S	PN 400	M 33 x 2	M 36 x 2	18	48.0	46	41	25	18	39.9	**AOVMNW20SED**
S	PN 400	M 42 x 2	M 42 x 2	20	51.0	50	50	30	23	49.9	**AOVMNW25SED**
S	PN 315	M 48 x 2	M 52 x 2	22	60.0	60	55	38	30	54.9	**AOVMNW32SED**

Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

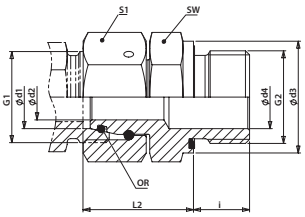
Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, DKOL/DKOS 24°, stainless steel, AOVM ED VA	**...AOVMEDVA**

Stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, DKOL/DKOS 24°, steel



Connection 1: metric nut thread
Connection 2: BSPP male thread, cylindric
Construction type: screw-in fitting
Type: straight
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: type E
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Series	Working pressure	G2	G1	i	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm	mm		mm	mm	mm	mm	
L	PN 315	G 1/8" -28	M 12 x 1.5	8	24.5	14	14	6	2.5	13.9	**AOVRNW04LED**
L	PN 315	G 1/4" -19	M 14 x 1.5	12	29.5	17	19	8	4	18.9	**AOVRNW06LED**
L	PN 315	G 1/4" -19	M 16 x 1.5	12	27.5	19	19	10	6	18.9	**AOVRNW08LED**
L	PN 315	G 3/8" -19	M 16 x 1.5	12	28.4	19	22	10	6	21.9	**AOVRNW08L3/8ED**
L	PN 315	G 1/4" -19	M 18 x 1.5	12	30.0	22	19	12	6	18.9	**AOVRNW10L1/4ED**
L	PN 315	G 3/8" -19	M 18 x 1.5	12	34.0	22	22	12	8	21.9	**AOVRNW10LED**
L	PN 315	G 1/2" -14	M 18 x 1.5	14	34.0	22	27	12	8	26.9	**AOVRNW10L1/2ED**
L	PN 315	G 1/2" -14	M 22 x 1.5	14	32.0	27	27	15	10	26.9	**AOVRNW13LED**
L	PN 315	G 1/2" -14	M 26 x 1.5	14	31.5	32	27	18	13	26.9	**AOVRNW16LED**
L	PN 315	G 3/4" -14	M 26 x 1.5	16	31.5	32	32	18	13	31.9	**AOVRNW16L3/4ED**
L	PN 160	G 3/4" -14	M 30 x 2	16	32.5	36	32	22	17	31.9	**AOVRNW20LED**
L	PN 160	G 1" -11	M 36 x 2	18	35.0	41	41	28	22	39.9	**AOVRNW25LED**
L	PN 160	G 1" -11	M 45 x 2	18	56.3	50	41	35	28	39.9	**AOVRNW32L1ED**
L	PN 160	G 1.1/4" -11	M 45 x 2	20	42.5	50	50	35	28	49.9	**AOVRNW32LED**
L	PN 160	G 1.1/2" -11	M 52 x 2	22	46.5	60	55	42	34	54.9	**AOVRNW40LED**
S	PN 630	G 1/4" -19	M 14 x 1.5	12	27.0	17	19	6	2.5	18.9	**AOVRNW03SED**
S	PN 630	G 1/4" -19	M 16 x 1.5	12	29.5	19	19	8	4	18.9	**AOVRNW04SED**
S	PN 630	G 3/8" -19	M 16 x 1.5	12	41.5	19	22	8	4	21.9	**AOVRNW04S3/8ED**
S	PN 630	G 3/8" -19	M 18 x 1.5	12	32.0	22	22	10	6	21.9	**AOVRNW06SED**
S	PN 630	G 3/8" -19	M 20 x 1.5	12	34.0	24	22	12	8	21.9	**AOVRNW08SED**
S	PN 630	G 1/2" -14	M 20 x 1.5	14	35.0	24	27	12	8	26.9	**AOVRNW08S1/2ED**
S	PN 630	G 1/2" -14	M 22 x 1.5	14	36.5	27	27	14	9	26.9	**AOVRNW10SED**
S	PN 400	G 1/2" -14	M 24 x 1.5	14	37.0	30	27	16	11	26.9	**AOVRNW13SED**
S	PN 400	G 3/4" -14	M 30 x 2	16	43.0	36	32	20	14	31.9	**AOVRNW16SED**

Series	Working pressure	G2	G1	i	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm	mm		mm	mm	mm	mm	
S	PN 400	G 1" -11	M 36 x 2	18	48.0	46	41	25	18	39.9	**AOVRNW20SED**
S	PN 400	G 1.1/4" -11	M 42 x 2	20	51.0	50	50	30	23	49.9	**AOVRNW25SED**
S	PN 315	G 1.1/2" -11	M 52 x 2	22	60.0	60	55	38	30	54.9	**AOVRNW32SED**

Spare parts:

Soft seal for ED fittings, WD **...WD**

Product variants:

Stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, DKOL/DKOS 24°, stainless steel, AOVR ED VA **...AOVREDVA**

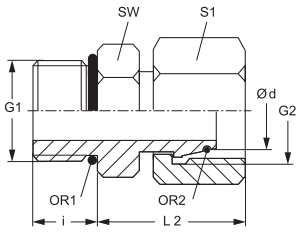
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Stud connector, ISO 8434-1, AGR, OR, DKOL/DKOS 24°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric nut thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: type G
Sealing form 2: 24° outer cone with O-ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Series	Working pressure	OR1	G1	G2	i	L2	S1	SW	Ø d	Item no.
					mm	mm		mm	mm	
S	PN 630	9.30 x 2.30	G 1/4" -19	M 14 x 1.5	12	26.0	17	19	6	**AOVRONW03S**
S	PN 630	11.30 x 2.30	G 1/4" -19	M 16 x 1.5	12	28.0	19	19	8	**AOVRONW04S**
S	PN 630	13.30 x 2.30	G 3/8" -19	M 18 x 1.5	12	30.5	22	22	10	**AOVRONW06S**
S	PN 630	15.30 x 2.30	G 3/8" -19	M 20 x 1.5	12	32.5	24	22	12	**AOVRONW08S**
S	PN 630	17.86 x 2.62	G 1/2" -14	M 22 x 1.5	14	36.0	27	27	14	**AOVRONW10S**
S	PN 400	12.00 x 2.00	G 1/2" -14	M 24 x 1.5	14	36.5	30	27	16	**AOVRONW13S**
S	PN 400	23.50 x 3.00	G 3/4" -14	M 30 x 2	16	40.5	36	32	20	**AOVRONW16S**
S	PN 400	29.50 x 3.00	G 1" -11	M 36 x 2	18	46.0	46	41	25	**AOVRONW20S**
S	PN 250	38.00 x 3.00	G 1.1/4" -11	M 42 x 2	20	48.0	50	50	30	**AOVRONW25S**
S	PN 250	44.04 x 3.53	G 1.1/2" -11	M 52 x 2	22	55.0	55	55	38	**AOVRONW32S**

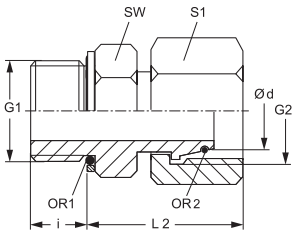
Stud connector, ISO 8434-1, AGR, ORK, ISO 1179, DKOS 24°, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric nut thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: O-ring and retaining ring
Sealing form 2: 24° outer cone with O-ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Series	Working pressure	OR1	G1	G2	i	L2	S1	SW	Ø d	Item no.
					mm	mm		mm	mm	
S	PN 630	9.30 x 2.30	G 1/4" -19	M 14 x 1.5	10.5	27.5	17	19	6	**AOVROKNW03S**
S	PN 630	11.30 x 2.30	G 1/4" -19	M 16 x 1.5	10.5	29.5	19	19	8	**AOVROKNW04S**
S	PN 630	13.30 x 2.30	G 3/8" -19	M 18 x 1.5	10.5	32.0	22	22	10	**AOVROKNW06S**
S	PN 630	15.30 x 2.30	G 3/8" -19	M 20 x 1.5	10.5	34.0	24	22	12	**AOVROKNW08S**
S	PN 630	17.86 x 2.62	G 1/2" -14	M 22 x 1.5	12.0	38.0	27	27	14	**AOVROKNW10S**
S	PN 400	12.00 x 2.00	G 1/2" -14	M 24 x 1.5	12.0	38.5	30	27	16	**AOVROKNW13S**
S	PN 400	23.50 x 3.00	G 3/4" -14	M 30 x 2	14.0	42.5	36	32	20	**AOVROKNW16S**
S	PN 400	29.50 x 3.00	G 1" -11	M 36 x 2	15.5	48.5	46	41	25	**AOVROKNW20S**
S	PN 250	44.04 x 3.53	G 1.1/2" -11	M 52 x 2	19.5	57.5	60	55	38	**AOVROKNW32S**

Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**

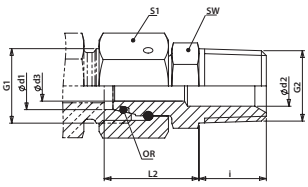
Stud connector, ISO 8434-1, AGN, SAE J 514, DKOL/DKOS 24°, steel



Connection 1: NPT external threads
Connection 2: metric nut thread
Construction type: screw-in fitting
Type: straight
Sealing form 1: thread seal
Sealing form 2: 24° outer cone with O-ring
Standard connection 1: SAE J 514
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Series	Working pressure	G1	G2	i	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm	mm		mm	mm	mm	mm	
L	PN 315	M 12 x 1.5	1/8" -27 NPT	10.0	22	14	11	6	4.5	2.5	**AOVNNW04L**
L	PN 315	M 14 x 1.5	1/4" -18 NPT	15	22.5	17	14	8	6	4	**AOVNNW06L**
L	PN 315	M 16 x 1.5	1/4" -18 NPT	15	23	19	14	10	6	6	**AOVNNW08L**
L	PN 315	M 18 x 1.5	3/8" -18 NPT	15	23	22	19	12	8	8	**AOVNNW10L**
L	PN 315	M 22 x 1.5	1/2" -14 NPT	20	25.5	27	22	15	12	10	**AOVNNW13L**
L	PN 315	M 26 x 1.5	1/2" -14 NPT	20	27	32	24	18	12	12	**AOVNNW16L**
L	PN 160	M 30 x 2	3/4" -14 NPT	20	29.5	36	27	22	16.5	16.5	**AOVNNW20L**
L	PN 160	M 36 x 2	1" -11.5 NPT	25	30.5	41	36	28	21.5	21.5	**AOVNNW25L**
L	PN 160	M 45 x 2	1.1/4" -11.5 NPT	25.5	36.5	50	46	35	28	28	**AOVNNW32L**
L	PN 160	M 52 x 2	1.1/2" -11.5 NPT	26.0	38.5	60	50	42	34	34	**AOVNNW40L**
S	PN 630	M 14 x 1.5	1/4" -18 NPT	15	24	17	14	6	6	2.5	**AOVNNW03S**
S	PN 630	M 16 x 1.5	1/4" -18 NPT	15	24	19	14	8	6	4	**AOVNNW04S**

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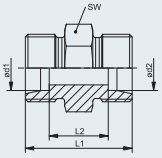
Series	Working pressure	G1	G2	i	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm	mm		mm	mm	mm	mm	
S	PN 630	M 18 x 1.5	3/8" -18 NPT	15	24.5	22	19	10	9	6	**AOVNNW06S**
S	PN 630	M 20 x 1.5	3/8" -18 NPT	15	24.5	24	19	12	8	8	**AOVNNW08S**
S	PN 630	M 22 x 1.5	1/2" -14 NPT	20	28	27	22	14	12	9	**AOVNNW10S**
S	PN 400	M 24 x 1.5	1/2" -14 NPT	20	28.4	30	22	16	11	11	**AOVNNW13S**
S	PN 400	M 30 x 2	3/4" -14 NPT	20	34	36	27	20	16.5	14	**AOVNNW16S**
S	PN 400	M 36 x 2	1" -11.5 NPT	25	37.5	46	36	25	21.5	18	**AOVNNW20S**
S	PN 400	M 42 x 2	1.1/4" -11.5 NPT	25.5	47.7	50	46	30	28.5	23	**AOVNNW25S**
S	PN 315	M 52 x 2	1.1/2" -11.5 NPT	26.0	47.5	60	50	38	35	30	**AOVNNW32S**

Product variants:

Stud connector, ISO 8434-1, AGN, SAE J 514, DKOL/DKOS 24°, stainless steel, AOVN VA **...AOVNVA**

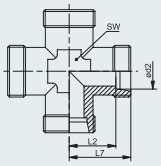
Union connectors

Connection parts



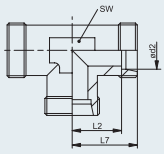
Union connector, ISO 8434-1, CELL/CEL/CES 24°, straight, steel

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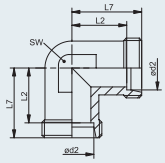
Union connector, ISO 8434-1, CELL/CEL/CES 24°, cross shape, steel

XK Page 112



Union connector, ISO 8434-1, CELL/CEL/CES 24°, T shape, steel

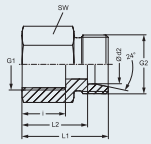
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Union connector, ISO 8434-1, CELL/CEL/CES 24°, elbow 90°, steel

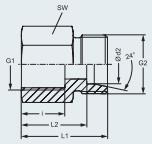
XW Page 114

Screw-on fitting



Screw-on fitting, EN 8431-1, IGM, CEL/CES 24°, steel

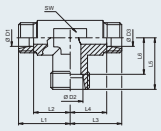
XGAM Page 115



Screw-on fitting, EN 8431-1, IGR, CEL/CES 24°, steel

XGAR Page 116

Reducing sockets



Reducing fitting, ISO 8434-1, CELL/CEL/CES 24°, T-shaped, steel

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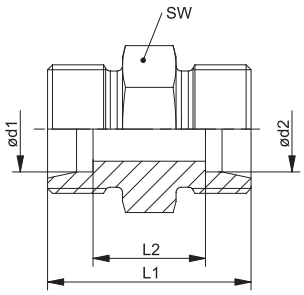




Union connector, ISO 8434-1, CELL/CEL/CES 24°, steel

Construction type: connection socket
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Union connector, ISO 8434-1, CELL/CEL/CES 24°, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: connection socket
Type: straight
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

www ...XV

Series	Working pressure	L1	L2	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
LL	PN 100	20	12.0	9	4	4	**XV04LL**
LL	PN 100	20	9.0	11	5	5	**XV05LL**
LL	PN 100	20	10.5	11	6	4	**XV06LL04**
LL	PN 100	20	9.0	11	6	6	**XV06LL**
LL	PN 100	22	12.5	12	8	4	**XV08LL04**
LL	PN 100	22	11.0	12	8	6	**XV08LL06**
LL	PN 100	23	12.0	12	8	8	**XV08LL**
LL	PN 100	23	12.0	14	10	10	**XV10LL**
LL	PN 100	23	11.0	17	12	12	**XV12LL**
L	PN 315	24	10.0	12	6	6	**XVNW04HL**
L	PN 315	25	11.0	14	8	8	**XVNW06HL**
L	PN 315	27	13.0	17	10	10	**XVNW08HL**
L	PN 315	25	11.0	14	8	6	**XVNW06HL04**
L	PN 315	26	12.0	17	10	6	**XVNW08HL04**
L	PN 315	26	12.0	17	10	8	**XVNW08HL06**
L	PN 315	27	13.0	19	12	6	**XVNW10HL04**
L	PN 315	27	13.0	19	12	8	**XVNW10HL06**
L	PN 315	28	14.0	19	12	10	**XVNW10HL08**
L	PN 315	28	14.0	19	12	12	**XVNW10HL**
L	PN 315	28	14.0	24	15	6	**XVNW13HL04**
L	PN 315	28	14.0	24	15	8	**XVNW13HL06**
L	PN 315	29	15.0	24	15	10	**XVNW13HL08**
L	PN 315	29	15.0	24	15	12	**XVNW13HL10**
L	PN 315	30	16.0	24	15	15	**XVNW13HL**
L	PN 315	29	14.5	27	18	6	**XVNW16HL04**
L	PN 315	29	14.5	27	18	8	**XVNW16HL06**
L	PN 315	30	15.5	27	18	10	**XVNW16HL08**
L	PN 315	30	15.5	27	18	12	**XVNW16HL10**
L	PN 315	32	17.5	27	18	12	**XVNW16HL1027**

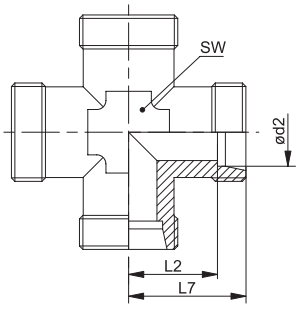


Series	Working pressure	L1	L2	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
L	PN 315	31	16.5	27	18	15	**XVNW16HL13**
L	PN 315	31	16.0	27	18	18	**XVNW16HL**
L	PN 315	35	20.0	27	18	18	**XVNW16HL27**
L	PN 160	31	16.5	32	22	8	**XVNW20HL06**
L	PN 160	32	17.5	32	22	10	**XVNW20HL08**
L	PN 160	32	17.5	32	22	12	**XVNW20HL10**
L	PN 160	33	18.5	32	22	15	**XVNW20HL13**
L	PN 160	33	18.0	32	22	18	**XVNW20HL16**
L	PN 160	35	20.0	32	22	22	**XVNW20HL**
L	PN 160	35	20.0	32	22	18	**XVNW20HL1627**
L	PN 160	33	18.5	41	28	8	**XVNW25HL06**
L	PN 160	34	19.5	41	28	10	**XVNW25HL08**
L	PN 160	34	19.5	41	28	12	**XVNW25HL10**
L	PN 160	35	20.5	41	28	15	**XVNW25HL13**
L	PN 160	35	20.0	41	28	18	**XVNW25HL16**
L	PN 160	37	22.0	41	28	22	**XVNW25HL20**
L	PN 160	36	21.0	41	28	28	**XVNW25HL**
L	PN 160	39	21.0	46	35	22	**XVNW32HL20**
L	PN 160	39	21.0	46	35	28	**XVNW32HL25**
L	PN 160	41	20.0	46	35	35	**XVNW32HL**
L	PN 160	41	22.5	55	42	28	**XVNW40HL25**
L	PN 160	43	21.5	55	42	35	**XVNW40HL32**
L	PN 160	43	21.0	55	42	42	**XVNW40HL**
S	PN 630	30	16.0	14	6	6	**XVNW03HS**
S	PN 630	32	18.0	17	8	6	**XVNW04HS03**
S	PN 630	32	18.0	17	8	8	**XVNW04HS**
S	PN 630	32	17.5	19	10	6	**XVNW06HS03**
S	PN 630	32	17.5	19	10	8	**XVNW06HS04**
S	PN 630	32	17.0	19	10	10	**XVNW06HS**
S	PN 630	34	19.0	22	12	12	**XVNW08HS**
S	PN 630	34	19.5	22	12	6	**XVNW08HS03**
S	PN 630	34	19.5	22	12	8	**XVNW08HS04**
S	PN 630	34	19.0	22	12	10	**XVNW08HS06**
S	PN 630	38	22.0	24	14	14	**XVNW10HS**
S	PN 630	36	21.0	24	14	6	**XVNW10HS03**
S	PN 630	36	21.0	24	14	8	**XVNW10HS04**
S	PN 630	36	20.5	24	14	10	**XVNW10HS06**
S	PN 630	36	20.5	24	14	12	**XVNW10HS08**
S	PN 400	38	21.0	27	16	16	**XVNW13HS**
S	PN 400	36	20.5	27	16	6	**XVNW13HS03**
S	PN 400	36	20.5	27	16	8	**XVNW13HS04**
S	PN 400	36	20.0	27	16	10	**XVNW13HS06**
S	PN 400	36	20.0	27	16	12	**XVNW13HS08**
S	PN 400	38	21.5	27	16	14	**XVNW13HS10**
S	PN 400	44	23.0	32	20	20	**XVNW16HS**
S	PN 400	40	22.0	32	20	10	**XVNW16HS06**
S	PN 400	40	22.0	32	20	12	**XVNW16HS08**
S	PN 400	42	23.5	32	20	14	**XVNW16HS10**
S	PN 400	42	23.0	32	20	16	**XVNW16HS13**
S	PN 400	50	26.0	41	25	25	**XVNW20HS**
S	PN 400	46	25.5	41	25	16	**XVNW20HS13**
S	PN 400	48	25.5	41	25	20	**XVNW20HS16**
S	PN 400	54	27.0	46	30	30	**XVNW25HS**
S	PN 400	48	26.0	46	30	16	**XVNW25HS13**
S	PN 400	50	26.0	46	30	20	**XVNW25HS16**
S	PN 400	52	26.5	46	30	25	**XVNW25HS20**
S	PN 315	61	29.0	55	38	38	**XVNW32HS**
S	PN 315	53	28.5	55	38	16	**XVNW32HS13**
S	PN 315	57	29.0	55	38	25	**XVNW32HS20**
S	PN 315	59	29.5	55	38	30	**XVNW32HS25**

Series	Working pressure	L1	L2	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
LS	PN 315	33	17.0	27	18	16	**XVNW16HL13HS**
S L	PN 315	36	20.5	27	16	15	**XVNW13HS13HL**
S L	PN 315	40	22.5	32	20	15	**XVNW16HS13HL**
S L	PN 315	40	22.0	32	20	18	**XVNW16HS16HL**
S L	PN 150	46	26.5	41	25	22	**XVNW20HS20HL**

Product variants:

Union connector, ISO 8434-1, CELL/CEL/CES 24°, straight, stainless steel, XV VA **...XVVA**



Union connector, ISO 8434-1, CELL/CEL/CES 24°, cross shape, steel

Sealing form 1 - 4: 24° inner cone
Connection 1 - 4: metric cylindrical outer thread
Construction type: connection socket
Type: cross shape
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

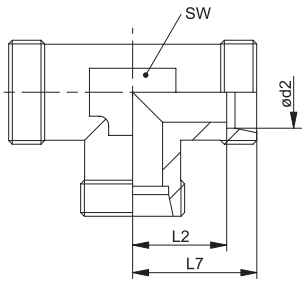
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Tube outer Ø	Series	Working pressure	L2	L7	SW	Ø d2	Item no.
mm			mm	mm	mm	mm	
4	LL	PN 100	11.0	15.0	9	4	**XK04LL**
5	LL	PN 100	9.5	15.0	9	5	**XK05LL**
6	LL	PN 100	9.5	15.0	9	6	**XK06LL**
8	LL	PN 100	11.5	17.0	12	8	**XK08LL**
6	L	PN 315	12.0	19.0	12	6	**XKNW04HL**
8	L	PN 315	14.0	21.0	12	8	**XKNW06HL**
10	L	PN 315	15.0	22.0	14	10	**XKNW08HL**
12	L	PN 315	17.0	24.0	17	12	**XKNW10HL**
15	L	PN 315	21.0	28.0	19	15	**XKNW13HL**
18	L	PN 315	23.5	31.0	24	18	**XKNW16HL**
22	L	PN 160	27.5	35.0	27	22	**XKNW20HL**
28	L	PN 160	30.5	38.0	36	28	**XKNW25HL**
35	L	PN 160	34.5	45.0	41	35	**XKNW32HL**
42	L	PN 160	40.0	51.0	50	42	**XKNW40HL**
6	S	PN 630	16.0	23.0	12	6	**XKNW03HS**
8	S	PN 630	17.0	24.0	14	8	**XKNW04HS**
10	S	PN 630	17.5	25.0	17	10	**XKNW06HS**
12	S	PN 630	21.5	29.0	17	12	**XKNW08HS**
14	S	PN 630	22.0	30.0	19	14	**XKNW10HS**
16	S	PN 400	24.5	33.0	24	16	**XKNW13HS**
20	S	PN 400	26.5	37.0	27	20	**XKNW16HS**
25	S	PN 400	30.0	42.0	36	25	**XKNW20HS**
30	S	PN 400	35.5	49.0	41	30	**XKNW25HS**
38	S	PN 315	41.0	57.0	50	38	**XKNW32HS**

Product variants:

Union connector, ISO 8434-1, CELL/CEL/CES 24°, cross-shaped, stainless steel, XK VA **...XKVA**

Union connector, ISO 8434-1, CELL/CEL/CES 24°, T shape, steel



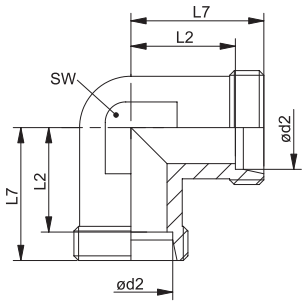
Sealing form 1 - 3: 24° inner cone
Connection 1 - 3: metric cylindrical outer thread
Construction type: connection socket
Type: T shape
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

www ...XT

Tube outer Ø	Series	Working pressure	G1 - G3	L2	L7	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	
4	LL	PN 100	M 8 x 1	11.0	15	9	4	**XT04LL**
5	LL	PN 100	M 10 x 1	9.5	15	9	5	**XT05LL**
6	LL	PN 100	M 10 x 1	9.5	15	9	6	**XT06LL**
8	LL	PN 100	M 12 x 1	11.5	17	12	8	**XT08LL**
10	LL	PN 100	M 14 x 1	12.5	18	12	10	**XT10LL**
12	LL	PN 100	M 16 x 1	15.0	21	14	12	**XT12LL**
6	L	PN 315	M 12 x 1.5	12.0	19	12	6	**XTNW04HL**
8	L	PN 315	M 14 x 1.5	14.0	21	12	8	**XTNW06HL**
10	L	PN 315	M 16 x 1.5	15.0	22	14	10	**XTNW08HL**
12	L	PN 315	M 18 x 1.5	17.0	24	17	12	**XTNW10HL**
15	L	PN 315	M 22 x 1.5	21.0	28	19	15	**XTNW13HL**
18	L	PN 315	M 26 x 1.5	23.5	31	24	18	**XTNW16HL**
22	L	PN 160	M 30 x 2	27.5	35	27	22	**XTNW20HL**
28	L	PN 160	M 36 x 2	30.5	38	36	28	**XTNW25HL**
35	L	PN 160	M 45 x 2	34.5	45	41	35	**XTNW32HL**
42	L	PN 160	M 52 x 2	40.0	51	50	42	**XTNW40HL**
6	S	PN 630	M 14 x 1.5	16.0	23	12	6	**XTNW03HS**
8	S	PN 630	M 16 x 1.5	17.0	24	14	8	**XTNW04HS**
10	S	PN 630	M 18 x 1.5	17.5	25	17	10	**XTNW06HS**
12	S	PN 630	M 20 x 1.5	21.5	29	17	12	**XTNW08HS**
14	S	PN 630	M 22 x 1.5	22.0	30	19	14	**XTNW10HS**
16	S	PN 400	M 24 x 1.5	24.5	33	24	16	**XTNW13HS**
20	S	PN 400	M 30 x 2	26.5	37	27	20	**XTNW16HS**
25	S	PN 400	M 36 x 2	30.0	42	36	25	**XTNW20HS**
30	S	PN 400	M 42 x 2	35.5	49	41	30	**XTNW25HS**
38	S	PN 315	M 52 x 2	41.0	57	50	38	**XTNW32HS**

Product variants:

Union connector, ISO 8434-1, CELL/CEL/CES 24°, T-shaped, stainless steel, XT VA	**...XTVA**



Union connector, ISO 8434-1, CELL/CEL/CES 24°, elbow 90°, steel

Sealing form 1 + 2: 24° inner cone
Connection 1 + 2: metric cylindrical outer thread
Construction type: connection socket
Type: angle 90°
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

www ...XW

Tube outer Ø	Series	Working pressure	L2	L7	SW	Ø d2	Item no.
mm			mm	mm	mm	mm	
4	LL	PN 100	11.0	15	9	4	**XW04LL**
5	LL	PN 100	9.5	15	9	5	**XW05LL**
6	LL	PN 100	9.5	15	9	6	**XW06LL**
8	LL	PN 100	11.5	17	12	8	**XW08LL**
10	LL	PN 100	12.5	18	14	10	**XW10LL**
12	LL	PN 100	13.0	19	17	12	**XW12LL**
6	L	PN 315	12.0	19	12	6	**XWNW04HL**
8	L	PN 315	14.0	21	12	8	**XWNW06HL**
10	L	PN 315	15.0	22	14	10	**XWNW08HL**
12	L	PN 315	17.0	24	17	12	**XWNW10HL**
15	L	PN 315	21.0	28	19	15	**XWNW13HL**
18	L	PN 315	23.5	31	24	18	**XWNW16HL**
22	L	PN 160	27.5	35	27	22	**XWNW20HL**
28	L	PN 160	30.5	38	36	28	**XWNW25HL**
35	L	PN 160	34.5	45	41	35	**XWNW32HL**
42	L	PN 160	40.0	51	50	42	**XWNW40HL**
6	S	PN 630	16.0	23	12	6	**XWNW03HS**
8	S	PN 630	17.0	24	14	8	**XWNW04HS**
10	S	PN 630	17.5	25	17	10	**XWNW06HS**
12	S	PN 630	21.5	29	17	12	**XWNW08HS**
14	S	PN 630	22.0	30	19	14	**XWNW10HS**
16	S	PN 400	24.5	33	24	16	**XWNW13HS**
20	S	PN 400	26.5	37	27	20	**XWNW16HS**
25	S	PN 400	30.0	42	36	25	**XWNW20HS**
30	S	PN 400	35.5	49	41	30	**XWNW25HS**
38	S	PN 315	41.0	57	50	38	**XWNW32HS**

Product variants:

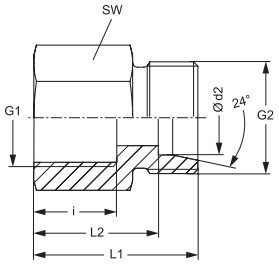
Union connector, ISO 8434-1, CELL/CEL/CES 24°, elbow 90°, stainless steel, XW VA	**...XWVA**

Screw-on fitting, EN 8431-1, IGM, CEL/CES 24°, steel

Connection 1: metric cylindrical inner thread
Connection 2: metric cylindrical outer thread
Construction type: screw-on fitting
Type: straight
Sealing form 1: type A
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





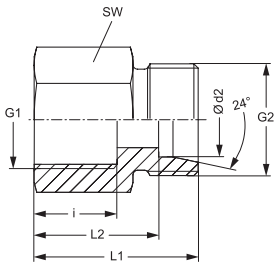
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Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
6	L	PN 315	M 12 x 1.5	M 10 x 1	12.5	19.5	14	6	**XGAMNW04HL**
6	L	PN 315	M 12 x 1.5	M 22 x 1.5	19.0	28.0	27	6	**XGAMNW04HL22**
8	L	PN 315	M 14 x 1.5	M 12 x 1.5	17.0	24.0	17	8	**XGAMNW06HL**
8	L	PN 315	M 14 x 1.5	M 22 x 1.5	19.0	29.0	27	8	**XGAMNW06HL22**
10	L	PN 315	M 16 x 1.5	M 14 x 1.5	17.0	25.0	19	10	**XGAMNW08HL**
10	L	PN 315	M 16 x 1.5	M 22 x 1.5	19.0	29.0	27	10	**XGAMNW08HL22**
12	L	PN 315	M 18 x 1.5	M 16 x 1.5	17.0	26.0	22	12	**XGAMNW10HL**
12	L	PN 315	M 18 x 1.5	M 18 x 1.5	17.0	27.0	24	12	**XGAMNW10HL18**
12	L	PN 315	M 18 x 1.5	M 22 x 1.5	19.0	29.0	27	12	**XGAMNW10HL22**
15	L	PN 315	M 22 x 1.5	M 18 x 1.5	17.0	28.0	24	15	**XGAMNW13HL**
15	L	PN 315	M 22 x 1.5	M 22 x 1.5	19.0	30.0	27	15	**XGAMNW13HL22**
18	L	PN 315	M 26 x 1.5	M 22 x 1.5	19.0	29.5	27	18	**XGAMNW16HL**
22	L	PN 160	M 30 x 2	M 26 x 1.5	21.0	34.5	32	22	**XGAMNW20HL**
28	L	PN 160	M 36 x 2	M 33 x 2	24.0	37.5	41	28	**XGAMNW25HL**
35	L	PN 160	M 45 x 2	M 42 x 2	26.0	40.5	55	35	**XGAMNW32HL**
42	L	PN 160	M 52 x 2	M 48 x 2	28.0	42.0	60	42	**XGAMNW40HL**
6	S	PN 400	M 14 x 1.5	M 12 x 1.5	17.0	26.0	17	6	**XGAMNW03HS**
8	S	PN 400	M 16 x 1.5	M 14 x 1.5	17.0	26.0	19	8	**XGAMNW04HS**
10	S	PN 400	M 18 x 1.5	M 16 x 1.5	17.0	26.5	22	10	**XGAMNW06HS**
12	S	PN 400	M 20 x 1.5	M 18 x 1.5	17.0	27.5	24	12	**XGAMNW08HS**
14	S	PN 400	M 22 x 1.5	M 20 x 1.5	19.0	31.0	27	14	**XGAMNW10HS**
16	S	PN 400	M 24 x 1.5	M 22 x 1.5	19.0	30.5	30	16	**XGAMNW13HS**
20	S	PN 315	M 30 x 2	M 27 x 2	22.0	34.5	36	20	**XGAMNW16HS**
25	S	PN 315	M 36 x 2	M 33 x 2	24.0	37.0	41	25	**XGAMNW20HS**
30	S	PN 315	M 42 x 2	M 42 x 2	26.0	41.5	55	30	**XGAMNW25HS**
38	S	PN 250	M 52 x 2	M 48 x 2	28.0	43.0	60	38	**XGAMNW32HS**

Product variants:

Screw-on fitting, EN 8431-1, IGM, CEL/CES 24°, stainless steel, XGAM VA	**...XGAMVA**





Screw-on fitting, EN 8431-1, IGR, CEL/CES 24°, steel

Connection 1: BSPP female thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-on fitting
Type: straight
Sealing form 1: type A
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Tube outer Ø	Series	Working pressure	G2	G1	i	L2	SW	Ø d2	Item no.
mm					mm	mm	mm	mm	
6	L	PN 315	M 12 x 1.5	G 1/8" -28	12.0	19.0	14	6	**XGARNW04HL**
6	L	PN 315	M 12 x 1.5	G 1/4" -19	17.0	24.0	19	6	**XGARNW04HL1/4**
6	L	PN 315	M 12 x 1.5	G 3/8" -19	17.0	25.0	22	6	**XGARNW04HL3/8**
8	L	PN 315	M 14 x 1.5	G 1/4" -19	17.0	24.0	19	8	**XGARNW06HL**
8	L	PN 315	M 14 x 1.5	G 3/8" -19	17.0	25.0	22	8	**XGARNW06HL3/8**
8	L	PN 315	M 14 x 1.5	G 1/2" -14	20.0	29.0	27	8	**XGARNW06HL1/2**
10	L	PN 315	M 16 x 1.5	G 1/4" -19	17.0	25.0	19	10	**XGARNW08HL**
10	L	PN 315	M 16 x 1.5	G 3/8" -19	17.0	26.0	22	10	**XGARNW08HL3/8**
10	L	PN 315	M 16 x 1.5	G 1/2" -14	20.0	30.0	27	10	**XGARNW08HL1/2**
12	L	PN 315	M 18 x 1.5	G 1/4" -19	17.0	25.0	19	12	**XGARNW10HL1/4**
12	L	PN 315	M 18 x 1.5	G 3/8" -19	17.0	26.0	22	12	**XGARNW10HL**
12	L	PN 315	M 18 x 1.5	G 1/2" -14	20.0	30.0	27	12	**XGARNW10HL1/2**
15	L	PN 315	M 22 x 1.5	G 3/8" -19	17.0	27.0	24	15	**XGARNW13HL3/8**
15	L	PN 315	M 22 x 1.5	G 1/2" -14	20.0	31.0	27	15	**XGARNW13HL**
18	L	PN 315	M 26 x 1.5	G 1/2" -14	20.0	30.5	27	18	**XGARNW16HL**
22	L	PN 160	M 30 x 2	G 3/4" -14	22.0	35.5	32	22	**XGARNW20HL**
28	L	PN 160	M 36 x 2	G 1" -11	24.5	38.0	41	28	**XGARNW25HL**
35	L	PN 160	M 45 x 2	G 1.1/4" -11	26.5	41.0	50	35	**XGARNW32HL**
42	L	PN 160	M 52 x 2	G 1.1/2" -11	28.5	42.5	55	42	**XGARNW40HL**
6	S	PN 400	M 14 x 1.5	G 1/4" -19	17.0	26.0	19	6	**XGARNW03HS**
8	S	PN 400	M 16 x 1.5	G 1/4" -19	17.0	26.0	19	8	**XGARNW04HS**
10	S	PN 400	M 18 x 1.5	G 3/8" -19	17.0	26.5	24	10	**XGARNW06HS**
12	S	PN 400	M 20 x 1.5	G 3/8" -19	17.0	26.5	24	12	**XGARNW08HS**
14	S	PN 400	M 22 x 1.5	G 1/2" -14	20.0	32.0	27	14	**XGARNW10HS**
16	S	PN 400	M 24 x 1.5	G 1/2" -14	20.0	31.5	27	16	**XGARNW13HS**
20	S	PN 315	M 30 x 2	G 3/4" -14	22.0	34.5	36	20	**XGARNW16HS**
25	S	PN 315	M 36 x 2	G 1" -11	24.5	37.5	41	25	**XGARNW20HS**
30	S	PN 315	M 42 x 2	G 1.1/4" -11	26.5	42.0	50	30	**XGARNW25HS**
38	S	PN 250	M 52 x 2	G 1.1/2" -11	28.5	43.5	60	38	**XGARNW32HS**

Product variants:

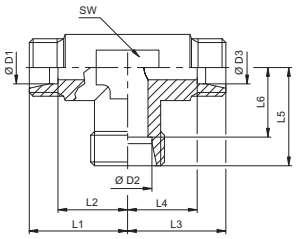
Screw-on fitting, EN 8431-1, IGR, CEL/CES 24°, stainless steel, XGAR VA **...XGARVA**

Reducing fitting, ISO 8434-1, CELL/CEL/CES 24°, T-shaped, steel



Sealing form 1 - 3: 24° inner cone
Connection 1 - 3: metric cylindrical outer thread
Construction type: reducing fitting
Type: T shape
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



www ...XRT

Series	Working pressure	D1	D2	D3	L1	L2	L3	L4	L5	L6	SW	Item no.
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
LL	PN 100	4	8	4	17.0	13.0	17.0	13.0	17.0	11.5	12	**XRT040804LL**
LL	PN 100	6	4	6	15.0	9.5	15.0	9.5	15.0	11.0	11	**XRT060406LL**
L	PN 315	6	8	6	21.0	14.0	21.0	14.0	21.0	14.0	12	**XRTNW040604HL**
L	PN 315	6	10	6	22.0	15.0	22.0	15.0	22.0	15.0	14	**XRTNW040804HL**
L	PN 315	8	6	8	29.0	14.0	21.0	14.0	21.0	21.0	12	**XRTNW060406HL**
L	PN 315	8	8	6	21.0	14.0	21.0	14.0	21.0	14.0	14	**XRTNW060604HL**
L	PN 315	8	10	8	22.0	15.0	22.0	15.0	22.0	15.0	14	**XRTNW060806HL**
L	PN 315	8	12	8	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW061006HL**
L	PN 315	8	15	8	21.0	14.0	21.0	14.0	21.0	14.0	19	**XRTNW061306HL**
L	PN 315	10	6	10	22.0	15.0	22.0	15.0	22.0	15.0	14	**XRTNW080408HL**
L	PN 315	10	8	8	22.0	15.0	22.0	15.0	22.0	15.0	17	**XRTNW080606HL**
L	PN 315	10	8	10	22.0	15.0	22.0	15.0	22.0	15.0	14	**XRTNW080608HL**
L	PN 315	10	10	6	22.0	15.0	22.0	15.0	22.0	15.0	14	**XRTNW080804HL**
L	PN 315	10	15	10	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW081308HL**
L	PN 315	10	12	10	24.0	17.0	24.0	17.0	24.0	17.0	19	**XRTNW081008HL**
L	PN 315	12	6	12	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW100410HL**
L	PN 315	12	8	8	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW100606HL**
L	PN 315	12	8	12	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW100610HL**
L	PN 315	12	10	10	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW100808HL**
L	PN 315	12	10	12	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW100810HL**
L	PN 315	12	12	8	24.0	17.0	24.0	17.0	24.0	17.0	19	**XRTNW101006HL**
L	PN 315	12	12	10	24.0	17.0	24.0	17.0	24.0	17.0	17	**XRTNW101008HL**
L	PN 315	12	15	12	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW101310HL**
L	PN 315	12	18	12	31.0	24.0	31.0	24.0	31.0	23.5	24	**XRTNW101610HL**
L	PN 160	12	22	12	35.0	28.0	35.0	28.0	35.0	27.5	27	**XRTNW102010HL**
L	PN 315	15	6	15	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW130413HL**
L	PN 315	15	8	8	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW130606HL**
L	PN 315	15	8	15	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW130613HL**
L	PN 315	15	10	8	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW130806HL**
L	PN 315	15	10	10	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW130808HL**
L	PN 315	15	10	15	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW130813HL**
L	PN 315	15	12	12	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW131010HL**
L	PN 315	15	12	15	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW131013HL**
L	PN 315	15	15	10	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW131308HL**
L	PN 315	15	15	12	28.0	21.0	28.0	21.0	28.0	21.0	19	**XRTNW131310HL**
L	PN 315	15	18	15	31.0	24.0	31.0	24.0	31.0	23.5	24	**XRTNW131613HL**
L	PN 160	15	22	12	35.0	28.0	35.0	28.0	35.0	27.5	27	**XRTNW132010HL**
L	PN 315	18	8	8	31.5	24.0	31.0	24.0	30.5	23.5	24	**XRTNW160606HL**
L	PN 315	18	8	18	31.0	23.5	31.0	23.5	31.0	24.0	24	**XRTNW160616HL**
L	PN 315	18	10	10	31.0	23.5	31.0	24.0	31.0	24.0	24	**XRTNW160808HL**
L	PN 315	18	10	18	31.0	23.5	31.0	23.5	31.0	24.0	24	**XRTNW160816HL**
L	PN 315	18	12	12	31.0	23.5	31.0	24.0	31.0	24.0	24	**XRTNW161010HL**
L	PN 315	18	12	18	31.0	23.5	31.0	23.5	31.0	24.0	24	**XRTNW161016HL**
L	PN 315	18	15	18	31.0	23.5	31.0	23.5	31.0	24.0	24	**XRTNW161316HL**
L	PN 315	18	18	8	31.0	23.5	30.5	23.5	31.0	23.5	24	**XRTNW161606HL**
L	PN 315	18	18	10	31.0	23.5	31.0	24.0	31.0	23.5	24	**XRTNW161608HL**
L	PN 315	18	18	12	31.0	23.5	30.5	23.5	31.5	24.0	24	**XRTNW161610HL**



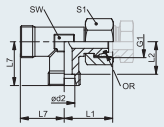
Series	Working pressure	D1	D2	D3	L1	L2	L3	L4	L5	L6	SW	Item no.
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
L	PN 160	22	10	22	35.0	27.5	35.0	27.5	35.0	28.0	27	**XRTNW200820HL**
L	PN 160	22	12	22	35.0	27.5	35.0	27.5	35.0	28.0	27	**XRTNW201020HL**
L	PN 160	22	15	15	35.0	27.5	35.0	28.0	35.0	28.0	27	**XRTNW201313HL**
L	PN 160	22	15	22	35.0	27.5	35.0	27.5	35.0	28.0	27	**XRTNW201320HL**
L	PN 160	22	18	18	35.0	27.5	35.0	27.5	35.0	27.5	27	**XRTNW201616HL**
L	PN 160	22	18	22	35.0	27.5	35.0	27.5	35.0	27.5	27	**XRTNW201620HL**
L	PN 160	22	22	18	35.0	27.5	35.0	27.5	35.0	27.5	27	**XRTNW202016HL**
L	PN 160	22	28	22	38.0	30.5	38.0	30.5	38.0	30.5	36	**XRTNW202520HL**
L	PN 160	28	10	28	38.0	30.5	38.0	30.5	38.0	31.0	36	**XRTNW250825HL**
L	PN 160	28	12	28	38.0	30.5	38.0	30.5	38.0	31.0	36	**XRTNW251025HL**
L	PN 160	28	15	28	38.0	30.5	38.0	30.5	38.0	31.0	36	**XRTNW251325HL**
L	PN 160	28	18	28	38.0	30.5	38.0	30.5	38.0	30.5	36	**XRTNW251625HL**
L	PN 160	28	22	22	38.0	30.5	38.0	30.5	38.0	30.5	36	**XRTNW252020HL**
L	PN 160	28	22	28	38.0	30.5	38.0	30.5	38.0	30.5	36	**XRTNW252025HL**
L	PN 160	28	28	22	38.0	30.5	38.0	30.5	38.0	30.5	36	**XRTNW252520HL**
L	PN 160	35	22	35	45.0	34.5	45.0	34.5	45.0	37.5	41	**XRTNW322032HL**
L	PN 160	35	28	28	45.0	34.5	45.0	37.5	45.0	37.5	41	**XRTNW322525HL**
L	PN 160	35	28	35	45.0	34.5	45.0	34.5	45.0	37.5	41	**XRTNW322532HL**
S	PN 630	8	6	8	20.0	13.0	19.0	12.0	20.0	13.0	12	**XRTNW040304HS**
S	PN 630	10	6	10	25.0	17.5	25.0	17.5	25.0	18.0	17	**XRTNW060306HS**
S	PN 630	12	6	12	24.5	17.0	24.5	17.0	24.0	17.0	17	**XRTNW080308HS**
S	PN 630	12	8	8	29.0	21.5	29.0	22.0	29.0	22.0	17	**XRTNW080404HS**
S	PN 630	12	8	12	29.0	21.5	29.0	21.5	29.0	22.0	17	**XRTNW080408HS**
S	PN 630	12	10	12	29.0	21.5	29.0	21.5	29.0	21.5	17	**XRTNW080608HS**
S	PN 630	12	16	12	33.0	25.5	33.0	25.5	33.0	24.5	24	**XRTNW081308HS**
S	PN 630	14	10	14	30.0	22.0	30.0	22.0	30.0	22.5	19	**XRTNW100610HS**
S	PN 400	16	6	16	33.0	24.5	33.0	24.5	33.0	26.0	24	**XRTNW130313HS**
S	PN 400	16	8	16	33.0	24.5	33.0	24.5	33.0	26.0	24	**XRTNW130413HS**
S	PN 400	16	10	16	33.0	24.5	33.0	24.5	33.0	25.5	24	**XRTNW130613HS**
S	PN 400	16	12	16	33.0	24.5	33.0	24.5	33.0	25.5	24	**XRTNW130813HS**
S	PN 400	16	20	16	37.0	28.5	37.0	28.5	37.0	26.5	27	**XRTNW131613HS**
S	PN 400	20	10	20	37.0	26.5	37.0	26.5	37.0	29.5	27	**XRTNW160616HS**
S	PN 400	20	12	20	37.0	26.5	37.0	26.5	37.0	29.5	27	**XRTNW160816HS**
S	PN 400	20	14	20	37.0	26.5	37.0	26.5	37.5	29.5	27	**XRTNW161016HS**
S	PN 400	20	16	20	37.0	26.5	37.0	26.5	37.0	28.5	27	**XRTNW161316HS**
S	PN 400	20	20	25	39.0	28.5	40.5	28.5	37.0	28.5	36	**XRTNW161620HS**
S	PN 400	20	25	20	42.0	31.5	42.0	31.5	42.0	30.0	36	**XRTNW162016HS**
LS	PN 315	20	18	20	37.0	26.5	37.0	26.5	37.0	29.5	27	**XRTNW16HL16HS**
S	PN 400	25	16	25	42.0	30.0	42.0	30.0	42.0	33.5	36	**XRTNW201320HS**
S	PN 400	25	20	25	42.0	30.0	42.0	30.0	42.0	31.5	36	**XRTNW201620HS**
S	PN 400	25	30	25	49.0	37.0	49.0	37.0	49.0	35.5	41	**XRTNW202520HS**
S	PN 400	30	16	30	49.0	35.5	49.0	35.5	49.0	40.5	41	**XRTNW251325HS**
S	PN 400	30	20	30	49.0	35.5	49.0	35.5	49.0	38.5	41	**XRTNW251625HS**
S	PN 400	30	25	30	49.0	35.5	49.0	35.5	49.0	37.0	41	**XRTNW252025HS**

Product variants:

Reducing fitting, ISO 8434-1, CEL/CES 24°, T-shaped, stainless steel, XRT VA **...XRTVA**

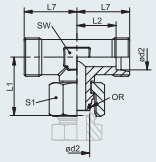
Sealing cones / swivel connectors

Adjustable



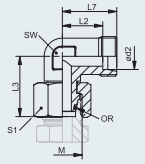
Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, L shape, steel

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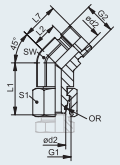
Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, T form, steel

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Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, elbow 90°, steel

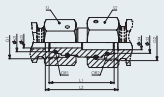
XVEWO Page 121



Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, elbow 45°, steel

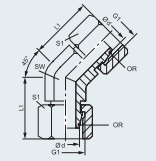
XVEWO45 Page 122

Double nuts



Double nut, ISO 8434-1, DKOL/DKOS 24°, DKOL/DKOS 24°, straight, steel

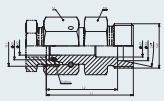
DMO Page 123



Double nut, ISO 8434-1, DKOL/DKOS 24°, DKOL/DKOS 24°, elbow 45°, steel

DMO45 Page 125

Reducing sockets



Reducing fitting, ISO 8434-1, DKOL/DKOS 24°, CEL/CES 24°, steel

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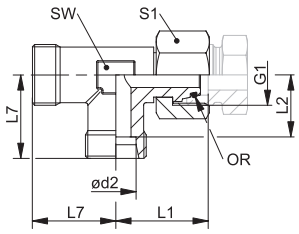


Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, steel

Connection 1: metric nut thread
Construction type: adjustable direction fitting
Sealing form 1: 24° outer cone with O-ring
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

1



Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, L shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: L shape
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-4

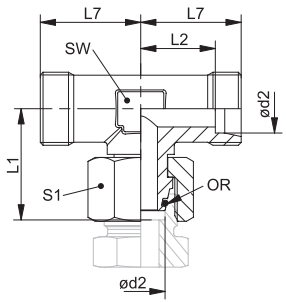
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Tube outer Ø	Series	Working pressure	OR	G1	L1	L2	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	4.0 x 1.5	M 12 x 1.5	26.0	12.0	14	12	6	**XVELONW04HL**
8	L	PN 315	6.0 x 1.5	M 14 x 1.5	26.5	14.0	17	12	8	**XVELONW06HL**
10	L	PN 315	7.5 x 1.5	M 16 x 1.5	29.0	15.0	19	14	10	**XVELONW08HL**
12	L	PN 315	9.0 x 1.5	M 18 x 1.5	29.5	17.0	22	17	12	**XVELONW10HL**
15	L	PN 315	12.0 x 2.0	M 22 x 1.5	33.0	21.0	27	19	15	**XVELONW13HL**
18	L	PN 315	15.0 x 2.0	M 26 x 1.5	35.5	23.5	32	24	18	**XVELONW16HL**
22	L	PN 160	20.0 x 2.0	M 30 x 2	38.5	27.5	36	27	22	**XVELONW20HL**
28	L	PN 160	26.0 x 2.0	M 36 x 2	43.0	30.5	41	36	28	**XVELONW25HL**
35	L	PN 160	32.0 x 2.5	M 45 x 2	51.5	34.5	50	41	35	**XVELONW32HL**
42	L	PN 160	38.0 x 2.5	M 52 x 2	56.0	40.0	60	50	42	**XVELONW40HL**
6	S	PN 630	4.0 x 1.5	M 14 x 1.5	27.0	16.0	17	12	6	**XVELONW03HS**
8	S	PN 630	6.0 x 1.5	M 16 x 1.5	27.5	17.0	19	14	8	**XVELONW04HS**
10	S	PN 630	7.5 x 1.5	M 18 x 1.5	30.5	17.5	22	17	10	**XVELONW06HS**
12	S	PN 630	9.0 x 1.5	M 20 x 1.5	31.0	21.5	24	17	12	**XVELONW08HS**
14	S	PN 630	10.0 x 2.0	M 22 x 1.5	35.0	22.0	27	19	14	**XVELONW10HS**
16	S	PN 400	12.0 x 2.0	M 24 x 1.5	37.5	24.5	30	24	16	**XVELONW13HS**
20	S	PN 400	16.3 x 2.4	M 30 x 2	44.5	26.5	36	27	20	**XVELONW16HS**
25	S	PN 400	20.0 x 2.4	M 36 x 2	50.5	30.0	46	36	25	**XVELONW20HS**
30	S	PN 400	25.3 x 2.4	M 42 x 2	55.0	35.5	50	41	30	**XVELONW25HS**
38	S	PN 315	33.3 x 2.4	M 52 x 2	62.4	41.0	60	50	38	**XVELONW32HS**

Product variants:

Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, L-shaped, stainless steel, XVELO VA **...XVELOVA**

Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, T form, steel



Sealing form 2 + 3: 24° inner cone
Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

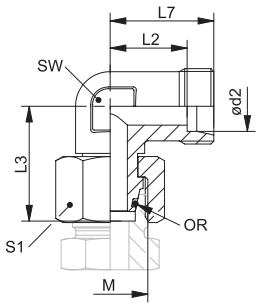
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Tube outer Ø	Series	Working pressure	OR	L1	L2	L7	S1	SW	Ø d2	Item no.
mm				mm	mm	mm		mm	mm	
6	L	PN 315	4.0 x 1.5	26.0	12.0	19	14	12	6	XVETONW04HL
8	L	PN 315	6.0 x 1.5	26.5	14.0	21	17	12	8	XVETONW06HL
10	L	PN 315	7.5 x 1.5	29.0	15.0	22	19	14	10	XVETONW08HL
12	L	PN 315	9.0 x 1.5	29.5	17.0	24	22	17	12	XVETONW10HL
15	L	PN 315	12.0 x 2.0	33.0	21.0	28	27	19	15	XVETONW13HL
18	L	PN 315	15.0 x 2.0	35.5	23.5	31	32	24	18	XVETONW16HL
22	L	PN 160	20.0 x 2.0	39.5	27.5	35	36	27	22	XVETONW20HL
28	L	PN 160	26.0 x 2.0	43.0	30.5	38	41	36	28	XVETONW25HL
35	L	PN 160	32.0 x 2.5	51.0	34.5	45	50	41	35	XVETONW32HL
42	L	PN 160	38.0 x 2.5	56.0	40.0	51	60	50	42	XVETONW40HL
6	S	PN 630	4.0 x 1.5	27.0	16.0	23	17	12	6	XVETONW03HS
8	S	PN 630	6.0 x 1.5	27.5	17.0	24	19	14	8	XVETONW04HS
10	S	PN 630	7.5 x 1.5	30.0	17.5	25	22	17	10	XVETONW06HS
12	S	PN 630	9.0 x 1.5	31.5	21.5	29	24	17	12	XVETONW08HS
14	S	PN 630	10.0 x 2.0	35.0	22.0	30	27	19	14	XVETONW10HS
16	S	PN 400	12.0 x 2.0	37.5	24.5	33	30	24	16	XVETONW13HS
20	S	PN 400	16.3 x 2.4	45.0	26.5	37	36	27	20	XVETONW16HS
25	S	PN 400	20.0 x 2.4	50.5	30.0	42	46	36	25	XVETONW20HS
30	S	PN 400	25.3 x 2.4	55.0	35.5	49	50	41	30	XVETONW25HS
38	S	PN 315	33.3 x 2.4	63.0	41.0	57	60	50	38	XVETONW32HS

Product variants:

Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, T-shaped, stainless steel, XVETO VA	**...XVETOVA**

Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, elbow 90°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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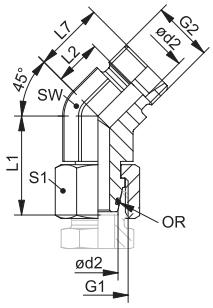
Tube outer Ø	Series	Working pressure	OR	L2	L3	M	S1	SW	Ø d2	Item no.
mm				mm	mm			mm	mm	
6	L	PN 315	4.0 x 1.5	12.0	25.0	M 12 x 1.5	14	12	6	XVEWONW04HL
8	L	PN 315	6.0 x 1.5	14.0	26.5	M 14 x 1.5	17	12	8	XVEWONW06HL
10	L	PN 315	7.5 x 1.5	15.0	29.0	M 16 x 1.5	19	14	10	XVEWONW08HL
12	L	PN 315	9.0 x 1.5	17.0	29.5	M 18 x 1.5	22	17	12	XVEWONW10HL
15	L	PN 315	12.0 x 2.0	21.0	33.0	M 22 x 1.5	27	19	15	XVEWONW13HL
18	L	PN 315	15.0 x 2.0	23.5	35.5	M 26 x 1.5	32	24	18	XVEWONW16HL
22	L	PN 160	20.0 x 2.0	27.5	39.5	M 30 x 2	36	27	22	XVEWONW20HL
28	L	PN 160	26.0 x 2.0	30.5	43.0	M 36 x 2	41	36	28	XVEWONW25HL
35	L	PN 160	32.0 x 2.5	34.5	51.5	M 45 x 2	50	41	35	XVEWONW32HL

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Tube outer Ø	Series	Working pressure	OR	L2	L3	M	S1	SW	Ø d2	Item no.
mm				mm	mm			mm	mm	
42	L	PN 160	38.0 x 2.5	40.0	56.0	M 52 x 2	60	50	42	**XVEWONW40HL**
6	S	PN 630	4.0 x 1.5	16.0	27.0	M 14 x 1.5	17	12	6	**XVEWONW03HS**
8	S	PN 630	6.0 x 1.5	17.0	27.5	M 16 x 1.5	19	14	8	**XVEWONW04HS**
10	S	PN 630	7.5 x 1.5	17.5	30.5	M 18 x 1.5	22	17	10	**XVEWONW06HS**
12	S	PN 630	9.0 x 1.5	21.5	31.5	M 20 x 1.5	24	17	12	**XVEWONW08HS**
14	S	PN 630	10.0 x 2.0	22.0	36.5	M 22 x 1.5	27	19	14	**XVEWONW10HS**
16	S	PN 400	12.0 x 2.0	24.5	37.5	M 24 x 1.5	30	24	16	**XVEWONW13HS**
20	S	PN 400	16.0 x 2.4	26.5	45.0	M 30 x 2	36	27	20	**XVEWONW16HS**
25	S	PN 400	20.0 x 2.4	30.0	50.5	M 36 x 2	46	36	25	**XVEWONW20HS**
30	S	PN 400	25.3 x 2.4	35.5	55.0	M 42 x 2	50	41	30	**XVEWONW25HS**
38	S	PN 315	33.3 x 2.4	41.0	62.4	M 52 x 2	60	50	38	**XVEWONW32HS**

Product variants:

Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, elbow 90°, stainless steel, XVEWO VA	**...XVEWOVA**



Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, elbow 45°, steel

Connection 2: metric cylindrical outer thread
Type: angle 45°
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	OR	G1 + G2	L1	L2	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
6	L	PN 315	4.0 x 1.5	M 12 x 1.5	26.0	9.0	14	14	6	**XVEWO45NW04HL**
8	L	PN 315	6.0 x 1.5	M 14 x 1.5	27.5	12.0	17	14	8	**XVEWO45NW06HL**
10	L	PN 315	7.5 x 1.5	M 16 x 1.5	29.0	12.0	19	19	10	**XVEWO45NW08HL**
12	L	PN 315	9.0 x 1.5	M 18 x 1.5	29.5	14.0	22	19	12	**XVEWO45NW10HL**
15	L	PN 315	12.0 x 2.0	M 22 x 1.5	32.5	17.0	27	22	15	**XVEWO45NW13HL**
18	L	PN 315	15.0 x 2.0	M 26 x 1.5	35.5	16.5	32	27	18	**XVEWO45NW16HL**
22	L	PN 160	20.0 x 2.0	M 30 x 2	38.5	18.5	36	30	22	**XVEWO45NW20HL**
28	L	PN 160	26.0 x 2.0	M 36 x 2	41.5	23.0	41	36	28	**XVEWO45NW25HL**
35	L	PN 160	32.0 x 2.5	M 45 x 2	51.0	26.5	50	50	35	**XVEWO45NW32HL**
42	L	PN 160	38.0 x 2.5	M 52 x 2	56.0	26.0	60	50	42	**XVEWO45NW40HL**
6	S	PN 630	4.0 x 1.5	M 14 x 1.5	27.0	9.0	17	14	6	**XVEWO45NW03HS**
8	S	PN 630	6.0 x 1.5	M 16 x 1.5	27.5	12.0	19	19	8	**XVEWO45NW04HS**
10	S	PN 630	7.5 x 1.5	M 18 x 1.5	30.0	13.5	22	19	10	**XVEWO45NW06HS**
12	S	PN 630	9.0 x 1.5	M 20 x 1.5	31.0	16.5	24	19	12	**XVEWO45NW08HS**
16	S	PN 400	12.0 x 2.0	M 24 x 1.5	36.5	15.5	30	19	16	**XVEWO45NW13HS**
20	S	PN 400	16.3 x 2.4	M 30 x 2	44.5	16.0	36	27	20	**XVEWO45NW16HS**
25	S	PN 400	20.3 x 2.4	M 36 x 2	50.0	18.5	46	36	25	**XVEWO45NW20HS**
30	S	PN 400	25.3 x 2.4	M 42 x 2	55.0	23.5	50	50	30	**XVEWO45NW25HS**
38	S	PN 315	33.3 x 2.4	M 52 x 2	63.0	21.0	60	50	38	**XVEWO45NW32HS**

Product variants:

Swivel connector, ISO 8434-1, adjustable, DKOL/DKOS 24°, CEL/CES 24°, elbow 45°, stainless steel, XVEWO 45 VA	**...XVEWO45VA**

Double nut, ISO 8434-1, DKOL/DKOS 24°, DKOL/DKOS 24°, steel

Connection 1: metric nut thread
Connection 2: metric nut thread
Construction type: fitting, double nuts
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

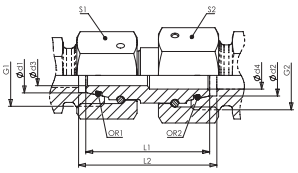
Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





Double nut, ISO 8434-1, DKOL/DKOS 24°, DKOL/DKOS 24°, straight, steel

Type: straight



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Series	Working pressure	G2	G1	L2	S1	S2	Ø d1	Ø d2	d3 Ø	Item no.
				mm			mm	mm	mm	
L	PN 315	M 12 x 1.5	M 12 x 1.5	36	14	14	6	6	2.5	**DMONW04L**
L	PN 315	M 14 x 1.5	M 12 x 1.5	36	14	17	6	8	2.5	**DMONW04L06**
L	PN 315	M 16 x 1.5	M 12 x 1.5	36.6	14	19	6	10	2.5	**DMONW04L08**
L	PN 315	M 18 x 1.5	M 12 x 1.5	36.6	14	22	6	12	2.5	**DMONW04L10**
L	PN 315	M 14 x 1.5	M 14 x 1.5	36	17	17	8	8	4	**DMONW06L**
L	PN 315	M 16 x 1.5	M 14 x 1.5	36.6	17	19	8	10	4	**DMONW06L08**
L	PN 315	M 18 x 1.5	M 14 x 1.5	36.6	17	22	8	12	4	**DMONW06L10**
L	PN 315	M 22 x 1.5	M 14 x 1.5	38.1	17	27	8	15	4	**DMONW06L13**
L	PN 315	M 26 x 1.5	M 14 x 1.5	40	17	32	8	18	4	**DMONW06L16**
L	PN 315	M 16 x 1.5	M 16 x 1.5	37.2	19	19	10	10	6	**DMONW08L**
L	PN 315	M 18 x 1.5	M 16 x 1.5	36.2	19	22	10	12	6	**DMONW08L10**
L	PN 315	M 22 x 1.5	M 16 x 1.5	41.2	19	27	10	15	6	**DMONW08L13**
L	PN 315	M 26 x 1.5	M 16 x 1.5	39.6	19	32	10	18	6	**DMONW08L16**
L	PN 315	M 18 x 1.5	M 18 x 1.5	37.7	22	22	12	12	8	**DMONW10L**
L	PN 315	M 22 x 1.5	M 18 x 1.5	41.2	22	27	12	15	8	**DMONW10L13**
L	PN 315	M 26 x 1.5	M 18 x 1.5	39.6	22	32	12	18	8	**DMONW10L16**
L	PN 160	M 30 x 2	M 18 x 1.5	43.6	22	36	12	22	8	**DMONW10L20**
L	PN 315	M 22 x 1.5	M 22 x 1.5	40.2	27	27	15	15	10	**DMONW13L**
L	PN 315	M 26 x 1.5	M 22 x 1.5	39.6	27	32	15	18	10	**DMONW13L16**
L	PN 160	M 30 x 2	M 22 x 1.5	45.6	27	36	15	22	10	**DMONW13L20**
L	PN 160	M 36 x 2	M 22 x 1.5	49.6	27	41	15	28	10	**DMONW13L25**
L	PN 315	M 26 x 1.5	M 26 x 1.5	42.5	32	32	18	18	13	**DMONW16L**
L	PN 160	M 30 x 2	M 26 x 1.5	46	32	36	18	22	13	**DMONW16L20**
L	PN 160	M 36 x 2	M 26 x 1.5	50	32	41	18	28	13	**DMONW16L25**
L	PN 160	M 45 x 2	M 26 x 1.5	51.2	32	50	18	35	13	**DMONW16L32**
L	PN 160	M 30 x 2	M 30 x 2	46.5	36	36	22	22	17	**DMONW20L**
L	PN 160	M 36 x 2	M 30 x 2	50	36	41	22	28	17	**DMONW20L25**
L	PN 160	M 45 x 2	M 30 x 2	54.2	36	50	22	35	17	**DMONW20L32**
L	PN 160	M 52 x 2	M 30 x 2	54.2	36	60	22	42	17	**DMONW20L40**
L	PN 160	M 36 x 2	M 36 x 2	48.5	41	41	28	28	22	**DMONW25L**
L	PN 160	M 45 x 2	M 36 x 2	54.2	41	50	28	35	22	**DMONW25L32**
L	PN 160	M 52 x 2	M 36 x 2	58.7	41	60	28	42	22	**DMONW25L40**
L	PN 160	M 45 x 2	M 45 x 2	59.4	50	50	35	35	28	**DMONW32L**
L	PN 160	M 52 x 2	M 45 x 2	60.4	50	60	35	42	28	**DMONW32L40**
L	PN 160	M 52 x 2	M 52 x 2	61.4	60	60	42	42	34	**DMONW40L**

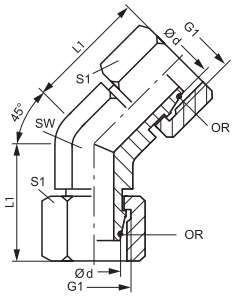
Series	Working pressure	G2	G1	L2	S1	S2	Ø d1	Ø d2	d3 Ø	Item no.
				mm			mm	mm	mm	
LS	PN 315	M 14 x 1.5	M 12 x 1.5	37.5	14	17	6	6	2.5	**DMONW04L03S**
LS	PN 315	M 16 x 1.5	M 12 x 1.5	37	14	19	6	8	2.5	**DMONW04L04S**
LS	PN 315	M 18 x 1.5	M 12 x 1.5	39.6	14	22	6	10	2.5	**DMONW04L06S**
LS	PN 315	M 20 x 1.5	M 12 x 1.5	42.1	14	24	6	12	2.5	**DMONW04L08S**
LS	PN 315	M 14 x 1.5	M 14 x 1.5	36	17	17	8	6	4	**DMONW06L03S**
LS	PN 315	M 16 x 1.5	M 14 x 1.5	35	17	19	8	8	4	**DMONW06L04S**
LS	PN 315	M 18 x 1.5	M 14 x 1.5	37.1	17	22	8	10	4	**DMONW06L06S**
LS	PN 315	M 20 x 1.5	M 14 x 1.5	40.1	17	24	8	12	4	**DMONW06L08S**
LS	PN 315	M 24 x 1.5	M 14 x 1.5	44	17	30	8	16	4	**DMONW06L13S**
LS	PN 315	M 14 x 1.5	M 16 x 1.5	36.6	19	17	10	6	6	**DMONW08L03S**
LS	PN 315	M 16 x 1.5	M 16 x 1.5	36.6	19	19	10	8	6	**DMONW08L04S**
LS	PN 315	M 18 x 1.5	M 16 x 1.5	36.7	19	22	10	10	6	**DMONW08L06S**
LS	PN 315	M 20 x 1.5	M 16 x 1.5	39.7	19	24	10	12	6	**DMONW08L08S**
LS	PN 315	M 22 x 1.5	M 16 x 1.5	43.2	19	27	10	14	6	**DMONW08L10S**
LS	PN 315	M 24 x 1.5	M 16 x 1.5	43.6	19	30	10	16	6	**DMONW08L13S**
LS	PN 315	M 18 x 1.5	M 18 x 1.5	36.7	22	22	12	10	8	**DMONW10L06S**
LS	PN 315	M 20 x 1.5	M 18 x 1.5	39.7	22	24	12	12	8	**DMONW10L08S**
LS	PN 315	M 22 x 1.5	M 18 x 1.5	43.2	22	27	12	14	8	**DMONW10L10S**
LS	PN 315	M 24 x 1.5	M 18 x 1.5	43.6	22	30	12	16	8	**DMONW10L13S**
LS	PN 315	M 30 x 2	M 18 x 1.5	41.4	22	36	12	20	8	**DMONW10L16S**
LS	PN 315	M 18 x 1.5	M 22 x 1.5	41.7	27	22	15	10	10	**DMONW13L06S**
LS	PN 315	M 20 x 1.5	M 22 x 1.5	41.7	27	24	15	12	10	**DMONW13L08S**
LS	PN 315	M 22 x 1.5	M 22 x 1.5	42.2	27	27	15	14	9	**DMONW13L10S**
LS	PN 315	M 24 x 1.5	M 22 x 1.5	43.6	27	30	15	16	10	**DMONW13L13S**
LS	PN 315	M 30 x 2	M 22 x 1.5	49.4	27	36	15	20	10	**DMONW13L16S**
LS	PN 315	M 36 x 2	M 22 x 1.5	54.35	27	46	15	25	10	**DMONW13L20S**
LS	PN 315	M 20 x 1.5	M 26 x 1.5	42.1	32	24	18	12	13	**DMONW16L08S**
LS	PN 315	M 22 x 1.5	M 26 x 1.5	45.6	32	27	18	14	13	**DMONW16L10S**
LS	PN 315	M 24 x 1.5	M 26 x 1.5	44	32	30	18	16	13	**DMONW16L13S**
LS	PN 315	M 30 x 2	M 26 x 1.5	49.8	32	36	18	20	13	**DMONW16L16S**
LS	PN 315	M 36 x 2	M 26 x 1.5	55.25	32	46	18	25	13	**DMONW16L20S**
LS	PN 315	M 42 x 2	M 26 x 1.5	58.7	32	50	18	30	13	**DMONW16L25S**
LS	PN 160	M 24 x 1.5	M 30 x 2	47	36	30	22	16	17	**DMONW20L13S**
LS	PN 160	M 30 x 2	M 30 x 2	49.8	36	36	22	20	17	**DMONW20L16S**
LS	PN 160	M 36 x 2	M 30 x 2	7.25	36	46	22	25	17	**DMONW20L20S**
LS	PN 160	M 42 x 2	M 30 x 2	60.7	36	50	22	30	17	**DMONW20L25S**
LS	PN 160	M 52 x 2	M 30 x 2	63.3	36	60	22	38	17	**DMONW20L32S**
LS	PN 160	M 24 x 1.5	M 36 x 2	51	41	30	28	16	22	**DMONW25L13S**
LS	PN 160	M 30 x 2	M 36 x 2	51.8	41	36	28	20	22	**DMONW25L16S**
LS	PN 160	M 36 x 2	M 36 x 2	53.25	41	46	28	25	22	**DMONW25L20S**
LS	PN 160	M 42 x 2	M 36 x 2	60.7	41	50	28	30	22	**DMONW25L25S**
LS	PN 160	M 52 x 2	M 36 x 2	62.3	41	60	28	38	22	**DMONW25L32S**
LS	PN 160	M 30 x 2	M 45 x 2	56	50	36	35	20	28	**DMONW32L16S**
LS	PN 160	M 36 x 2	M 45 x 2	57.45	50	46	35	25	28	**DMONW32L20S**
LS	PN 160	M 42 x 2	M 45 x 2	62.9	50	50	35	30	28	**DMONW32L25S**
LS	PN 160	M 52 x 2	M 45 x 2	65.5	50	60	35	38	28	**DMONW32L32S**
LS	PN 160	M 42 x 2	M 52 x 2	63.4	60	50	42	30	34	**DMONW40L25S**
LS	PN 160	M 52 x 2	M 52 x 2	66	60	60	42	38	34	**DMONW40L32S**
S	PN 630	M 14 x 1.5	M 14 x 1.5	39	17	17	6.0	6.0	2.5	**DMONW03S**
S	PN 630	M 16 x 1.5	M 14 x 1.5	37	17	19	6.0	8.0	2.5	**DMONW03S04**
S	PN 630	M 18 x 1.5	M 14 x 1.5	36.1	17	22	6	10	2.5	**DMONW03S06**
S	PN 630	M 20 x 1.5	M 14 x 1.5	41.6	17	24	6	12	2.5	**DMONW03S08**
S	PN 630	M 16 x 1.5	M 16 x 1.5	39	19	19	8	8	4	**DMONW04S**
S	PN 630	M 18 x 1.5	M 16 x 1.5	37.1	19	22	8	10	4	**DMONW04S06**
S	PN 630	M 20 x 1.5	M 16 x 1.5	40.1	19	24	8	12	4	**DMONW04S08**
S	PN 630	M 18 x 1.5	M 18 x 1.5	43.2	22	22	10	10	6	**DMONW06S**
S	PN 630	M 20 x 1.5	M 18 x 1.5	40.2	22	24	10	12	6	**DMONW06S08**
S	PN 630	M 22 x 1.5	M 18 x 1.5	43.7	22	27	10	14	6	**DMONW06S10**
S	PN 400	M 24 x 1.5	M 18 x 1.5	44.1	22	30	10	16	6	**DMONW06S13**
S	PN 630	M 20 x 1.5	M 20 x 1.5	40.2	24	24	12	12	8	**DMONW08S**

Series	Working pressure	G2	G1	L2	S1	S2	Ø d1	Ø d2	d3 Ø	Item no.
				mm			mm	mm	mm	
S	PN 630	M 22 x 1.5	M 20 x 1.5	43.7	24	27	12	14	8	**DMONW08S10**
S	PN 400	M 24 x 1.5	M 20 x 1.5	44.1	24	30	12	16	8	**DMONW08S13**
S	PN 400	M 30 x 2	M 20 x 1.5	44.9	24	36	12	20	8	**DMONW08S16**
S	PN 630	M 22 x 1.5	M 22 x 1.5	48.2	27	27	14	14	9	**DMONW10S**
S	PN 400	M 24 x 1.5	M 22 x 1.5	44.6	27	30	14	16	9	**DMONW10S13**
S	PN 400	M 30 x 2	M 22 x 1.5	49.6	27	36	14	20	9	**DMONW10S16**
S	PN 400	M 24 x 1.5	M 24 x 1.5	50	30	30	16	16	11	**DMONW13S**
S	PN 400	M 30 x 2	M 24 x 1.5	50.8	30	36	16	20	11	**DMONW13S16**
S	PN 400	M 36 x 2	M 24 x 1.5	54.25	30	46	16	25	11	**DMONW13S20**
S	PN 400	M 42 x 2	M 24 x 1.5	61.7	30	50	16	30	11	**DMONW13S25**
S	PN 400	M 30 x 2	M 30 x 2	51.6	36	36	20	20	14	**DMONW16S**
S	PN 400	M 36 x 2	M 30 x 2	55	36	46	20	25	14	**DMONW16S20**
S	PN 400	M 42 x 2	M 30 x 2	62.5	36	50	20	30	14	**DMONW16S25**
S	PN 315	M 52 x 2	M 30 x 2	65.1	36	60	20	38	14	**DMONW16S32**
S	PN 400	M 36 x 2	M 36 x 2	56.5	46	46	25	25	18	**DMONW20S**
S	PN 400	M 42 x 2	M 36 x 2	63.95	46	50	25	30	18	**DMONW20S25**
S	PN 315	M 52 x 2	M 36 x 2	66.55	46	60	25	38	18	**DMONW20S32**
S	PN 400	M 42 x 2	M 42 x 2	65.4	50	50	30	30	23	**DMONW25S**
S	PN 315	M 52 x 2	M 42 x 2	68	50	60	30	38	23	**DMONW25S32**
S	PN 315	M 52 x 2	M 52 x 2	70.6	60	60	38	38	30	**DMONW32S**

Product variants:

Double nut, ISO 8434-1, DKOL/DKOS 24°, DKOL/DKOS 24°, straight, stainless steel, DMO VA	**...DMOVA**

Double nut, ISO 8434-1, DKOL/DKOS 24°, DKOL/DKOS 24°, elbow 45°, steel



Type: angle 45°

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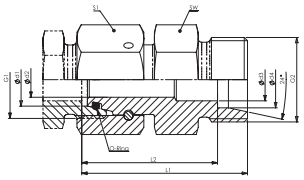
Series	Working pressure	OR	G1	L1	S1	SW	Ø d	Item no.
				mm		mm	mm	
L	PN 400	4.0 x 1.5	M 12 x 1.5	22.5	14	14	6	**DMO45NW04L**
L	PN 400	6.0 x 1.5	M 14 x 1.5	23.0	17	14	8	**DMO45NW06L**
L	PN 400	7.5 x 1.5	M 16 x 1.5	25.0	19	19	10	**DMO45NW08L**
L	PN 400	9.0 x 1.5	M 18 x 1.5	25.5	22	19	12	**DMO45NW10L**
L	PN 400	12.0 x 2.0	M 22 x 1.5	27.0	27	22	15	**DMO45NW13L**
L	PN 315	15.0 x 2.0	M 26 x 1.5	30.0	32	27	18	**DMO45NW16L**
L	PN 315	20.0 x 2.0	M 30 x 2	32.0	36	30	22	**DMO45NW20L**
L	PN 250	26.0 x 2.0	M 36 x 2	35.0	41	36	28	**DMO45NW25L**
L	PN 250	32.0 x 2.5	M 45 x 2	39.5	50	50	35	**DMO45NW32L**
L	PN 250	38.0 x 2.5	M 52 x 2	42.0	60	50	42	**DMO45NW40L**
S	PN 630	4.0 x 1.5	M 14 x 1.5	23.5	17	14	6	**DMO45NW03S**
S	PN 630	6.0 x 1.5	M 16 x 1.5	26.5	19	19	8	**DMO45NW04S**
S	PN 630	7.5 x 1.5	M 18 x 1.5	27.0	22	19	10	**DMO45NW06S**
S	PN 630	9.0 x 1.5	M 20 x 1.5	27.5	24	19	12	**DMO45NW08S**
S	PN 400	12.0 x 2.0	M 24 x 1.5	31.5	30	27	16	**DMO45NW13S**
S	PN 400	16.3 x 2.4	M 30 x 2	36.0	36	30	20	**DMO45NW16S**
S	PN 400	20.3 x 2.4	M 36 x 2	40.5	46	36	25	**DMO45NW20S**
S	PN 400	25.3 x 2.4	M 42 x 2	44.5	50	50	30	**DMO45NW25S**
S	PN 315	33.3 x 2.4	M 52 x 2	50.5	60	50	38	**DMO45NW32S**



Reducing fitting, ISO 8434-1, DKOL/DKOS 24°, CEL/CES 24°, steel

Connection 1: metric nut thread
Connection 2: metric cylindrical outer thread
Construction type: reducing fitting
Type: straight
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Series	Working pressure	G2	G1	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm		mm	mm	mm	mm	
L LL	PN 100	M 8 x 1	M 12 x 1.5	24.5	14	9	6	2.5	2.5	XAOHNW04LL04
L	PN 315	M 12 x 1.5	M 12 x 1.5	23.5	14	14	6	2.5	4	XAOHNW04L
L	PN 315	M 14 x 1.5	M 12 x 1.5	24.5	14	14	6	2.5	6	XAOHNW04L06
L	PN 315	M 16 x 1.5	M 12 x 1.5	25.5	14	17	6	2.5	8	XAOHNW04L08
L	PN 315	M 18 x 1.5	M 12 x 1.5	25.5	14	19	6	2.5	10	XAOHNW04L10
L	PN 315	M 22 x 1.5	M 12 x 1.5	27.5	14	24	6	2.5	12	XAOHNW04L13
L	PN 315	M 14 x 1.5	M 14 x 1.5	25.0	17	14	8	4	6	XAOHNW06L
L	PN 315	M 12 x 1.5	M 14 x 1.5	23.5	17	12	8	4	4	XAOHNW06L04
L	PN 315	M 16 x 1.5	M 14 x 1.5	26.0	17	17	8	4	8	XAOHNW06L08
L	PN 315	M 18 x 1.5	M 14 x 1.5	27.0	17	19	8	4	10	XAOHNW06L10
L	PN 315	M 22 x 1.5	M 14 x 1.5	28.0	17	24	8	4	12	XAOHNW06L13
L	PN 315	M 16 x 1.5	M 16 x 1.5	26.0	19	17	10	6	8	XAOHNW08L
L	PN 315	M 12 x 1.5	M 16 x 1.5	25.0	19	14	10	6	4	XAOHNW08L04
L	PN 315	M 14 x 1.5	M 16 x 1.5	25.0	19	14	10	6	6	XAOHNW08L06
L	PN 315	M 18 x 1.5	M 16 x 1.5	28.0	19	19	10	6	10	XAOHNW08L10
L	PN 315	M 22 x 1.5	M 16 x 1.5	29.0	19	24	10	6	12	XAOHNW08L13
L	PN 315	M 26 x 1.5	M 16 x 1.5	30.0	19	27	10	6	15	XAOHNW08L16
L	PN 315	M 18 x 1.5	M 18 x 1.5	28.5	22	19	12	8	10	XAOHNW10L
L	PN 315	M 12 x 1.5	M 18 x 1.5	25.0	22	17	12	8	4	XAOHNW10L04
L	PN 315	M 14 x 1.5	M 18 x 1.5	25.0	22	17	12	8	6	XAOHNW10L06
L	PN 315	M 16 x 1.5	M 18 x 1.5	26.0	22	17	12	8	8	XAOHNW10L08
L	PN 315	M 22 x 1.5	M 18 x 1.5	29.0	22	24	12	8	12	XAOHNW10L13
L	PN 315	M 26 x 1.5	M 18 x 1.5	29.5	22	27	12	8	15	XAOHNW10L16
L	PN 315	M 22 x 1.5	M 22 x 1.5	30.0	27	24	15	10	12	XAOHNW13L
L	PN 315	M 12 x 1.5	M 22 x 1.5	28.5	27	19	15	10	4	XAOHNW13L04
L	PN 315	M 14 x 1.5	M 22 x 1.5	28.5	27	19	15	10	6	XAOHNW13L06
L	PN 315	M 16 x 1.5	M 22 x 1.5	29.5	27	19	15	10	8	XAOHNW13L08
L	PN 315	M 18 x 1.5	M 22 x 1.5	29.5	27	19	15	10	10	XAOHNW13L10
L	PN 315	M 26 x 1.5	M 22 x 1.5	31.5	27	27	15	10	15	XAOHNW13L16
L	PN 160	M 30 x 2	M 22 x 1.5	33.5	27	32	15	10	19	XAOHNW13L20
L	PN 315	M 26 x 1.5	M 26 x 1.5	33.5	32	27	18	12	15	XAOHNW16L
L	PN 315	M 12 x 1.5	M 26 x 1.5	29.5	32	24	18	12	4	XAOHNW16L04
L	PN 315	M 14 x 1.5	M 26 x 1.5	29.5	32	24	18	12	6	XAOHNW16L06
L	PN 315	M 16 x 1.5	M 26 x 1.5	30.5	32	24	18	12	8	XAOHNW16L08
L	PN 315	M 18 x 1.5	M 26 x 1.5	30.5	32	24	18	12	10	XAOHNW16L10
L	PN 315	M 22 x 1.5	M 26 x 1.5	30.0	32	24	18	12	12	XAOHNW16L13
L	PN 160	M 30 x 2	M 26 x 1.5	33.0	32	32	18	12	19	XAOHNW16L20
L	PN 160	M 36 x 2	M 26 x 1.5	34.0	32	41	18	12	24	XAOHNW16L25
L	PN 160	M 30 x 2	M 30 x 2	37.5	36	32	22	17	19	XAOHNW20L
L	PN 160	M 12 x 1.5	M 30 x 2	32.0	36	27	22	17	4	XAOHNW20L04
L	PN 160	M 14 x 1.5	M 30 x 2	32.0	36	27	22	17	6	XAOHNW20L06
L	PN 160	M 16 x 1.5	M 30 x 2	33.0	36	27	22	17	8	XAOHNW20L08
L	PN 160	M 18 x 1.5	M 30 x 2	33.0	36	27	22	17	10	XAOHNW20L10
L	PN 160	M 22 x 1.5	M 30 x 2	34.0	36	27	22	17	12	XAOHNW20L13
L	PN 160	M 26 x 1.5	M 30 x 2	33.5	36	27	22	17	15	XAOHNW20L16

Series	Working pressure	G2	G1	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm		mm	mm	mm	mm	
L	PN 160	M 36 x 2	M 30 x 2	36.0	36	41	22	17	24	**XAOHNW20L25**
L	PN 160	M 45 x 2	M 30 x 2	38.0	36	46	22	17	30	**XAOHNW20L32**
L	PN 160	M 36 x 2	M 36 x 2	36.5	41	41	28	22	24	**XAOHNW25L**
L	PN 160	M 12 x 1.5	M 36 x 2	34.0	41	32	28	22	4	**XAOHNW25L04**
L	PN 160	M 14 x 1.5	M 36 x 2	34.0	41	32	28	22	6	**XAOHNW25L06**
L	PN 160	M 16 x 1.5	M 36 x 2	35.0	41	32	28	22	8	**XAOHNW25L08**
L	PN 160	M 18 x 1.5	M 36 x 2	35.0	41	32	28	22	10	**XAOHNW25L10**
L	PN 160	M 22 x 1.5	M 36 x 2	36.0	41	32	28	22	12	**XAOHNW25L13**
L	PN 160	M 26 x 1.5	M 36 x 2	35.5	41	32	28	22	15	**XAOHNW25L16**
L	PN 160	M 30 x 2	M 36 x 2	37.5	41	32	28	22	19	**XAOHNW25L20**
L	PN 160	M 45 x 2	M 36 x 2	38.5	41	46	28	22	30	**XAOHNW25L32**
L	PN 160	M 52 x 2	M 36 x 2	38.0	41	55	28	22	36	**XAOHNW25L40**
L	PN 160	M 45 x 2	M 45 x 2	42.5	50	46	35	28	30	**XAOHNW32L**
L	PN 160	M 12 x 1.5	M 45 x 2	37.0	50	41	35	28	4	**XAOHNW32L04**
L	PN 160	M 14 x 1.5	M 45 x 2	37.0	50	41	35	28	6	**XAOHNW32L06**
L	PN 160	M 16 x 1.5	M 45 x 2	38.0	50	41	35	28	8	**XAOHNW32L08**
L	PN 160	M 18 x 1.5	M 45 x 2	38.0	50	41	35	28	10	**XAOHNW32L10**
L	PN 160	M 22 x 1.5	M 45 x 2	39.5	50	41	35	28	12	**XAOHNW32L13**
L	PN 160	M 26 x 1.5	M 45 x 2	39.0	50	41	35	28	15	**XAOHNW32L16**
L	PN 160	M 30 x 2	M 45 x 2	40.5	50	41	35	28	19	**XAOHNW32L20**
L	PN 160	M 36 x 2	M 45 x 2	40.5	50	41	35	28	24	**XAOHNW32L25**
L	PN 160	M 52 x 2	M 45 x 2	42.0	50	55	35	28	36	**XAOHNW32L40**
L	PN 160	M 52 x 2	M 52 x 2	42.5	60	55	42	34	36	**XAOHNW40L**
L	PN 160	M 12 x 1.5	M 52 x 2	40.5	60	50	42	34	4	**XAOHNW40L04**
L	PN 160	M 14 x 1.5	M 52 x 2	40.5	60	50	42	34	6	**XAOHNW40L06**
L	PN 160	M 16 x 1.5	M 52 x 2	41.5	60	50	42	34	8	**XAOHNW40L08**
L	PN 160	M 18 x 1.5	M 52 x 2	41.5	60	50	42	34	10	**XAOHNW40L10**
L	PN 160	M 22 x 1.5	M 52 x 2	42.5	60	50	42	34	12	**XAOHNW40L13**
L	PN 160	M 26 x 1.5	M 52 x 2	42.0	60	50	42	34	15	**XAOHNW40L16**
L	PN 160	M 30 x 2	M 52 x 2	44.0	60	50	42	34	19	**XAOHNW40L20**
L	PN 160	M 36 x 2	M 52 x 2	44.0	60	50	42	34	24	**XAOHNW40L25**
L	PN 160	M 45 x 2	M 52 x 2	43.0	60	50	42	34	30	**XAOHNW40L32**
LS	PN 315	M 14 x 1.5	M 12 x 1.5	24.0	14	17	6	2.5	4	**XAOHNW04L03S**
LS	PN 315	M 16 x 1.5	M 12 x 1.5	26.0	14	17	6	2.5	5	**XAOHNW04L04S**
LS	PN 315	M 18 x 1.5	M 12 x 1.5	28.0	14	19	6	2.5	7	**XAOHNW04L06S**
LS	PN 315	M 20 x 1.5	M 12 x 1.5	27.5	14	22	6	2.5	8	**XAOHNW04L08S**
LS	PN 315	M 16 x 1.5	M 14 x 1.5	26.0	17	17	8	4	5	**XAOHNW06L04S**
LS	PN 315	M 18 x 1.5	M 14 x 1.5	28.0	17	19	8	4	7	**XAOHNW06L06S**
LS	PN 315	M 20 x 1.5	M 14 x 1.5	27.5	17	22	8	4	8	**XAOHNW06L08S**
LS	PN 315	M 18 x 1.5	M 16 x 1.5	28.0	19	19	10	6	7	**XAOHNW08L06S**
LS	PN 315	M 20 x 1.5	M 16 x 1.5	27.5	19	22	10	6	8	**XAOHNW08L08S**
LS	PN 315	M 22 x 1.5	M 16 x 1.5	29.0	19	24	10	6	10	**XAOHNW08L10S**
LS	PN 315	M 24 x 1.5	M 16 x 1.5	28.4	19	27	10	6	12	**XAOHNW08L13S**
LS	PN 315	M 16 x 1.5	M 18 x 1.5	28.5	22	19	12	8	5	**XAOHNW10L04S**
LS	PN 315	M 18 x 1.5	M 18 x 1.5	28.0	22	19	12	7	7	**XAOHNW10L06S**
LS	PN 315	M 20 x 1.5	M 18 x 1.5	27.5	22	22	12	8	8	**XAOHNW10L08S**
LS	PN 315	M 22 x 1.5	M 18 x 1.5	29.0	22	24	12	8	10	**XAOHNW10L10S**
LS	PN 315	M 24 x 1.5	M 18 x 1.5	28.4	22	27	12	8	12	**XAOHNW10L13S**
LS	PN 315	M 30 x 2	M 18 x 1.5	28.0	22	32	12	8	16	**XAOHNW10L16S**
LS	PN 315	M 24 x 1.5	M 22 x 1.5	29.4	27	27	15	10	12	**XAOHNW13L13S**
LS	PN 315	M 30 x 2	M 22 x 1.5	29.0	27	32	15	10	16	**XAOHNW13L16S**
LS	PN 315	M 24 x 1.5	M 26 x 1.5	30.9	32	27	18	12	12	**XAOHNW16L13S**
LS	PN 315	M 30 x 2	M 26 x 1.5	30.5	32	32	18	12	16	**XAOHNW16L16S**
LS	PN 315	M 36 x 2	M 26 x 1.5	34.0	32	41	18	12	20	**XAOHNW16L20S**
LS	PN 160	M 24 x 1.5	M 30 x 2	31.9	36	27	22	17	12	**XAOHNW20L13S**
LS	PN 160	M 30 x 2	M 30 x 2	31.5	36	32	22	16	16	**XAOHNW20L16S**
LS	PN 160	M 36 x 2	M 30 x 2	35.0	36	41	22	17	20	**XAOHNW20L20S**
LS	PN 160	M 42 x 2	M 30 x 2	34.9	36	46	22	17	25	**XAOHNW20L25S**
LS	PN 160	M 24 x 2	M 36 x 2	32.0	41	32	28	22	12	**XAOHNW25L13S**
LS	PN 160	M 36 x 2	M 36 x 2	35.5	41	41	28	22	20	**XAOHNW25L20S**

Series	Working pressure	G2	G1	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm		mm	mm	mm	mm	
LS	PN 160	M 42 x 2	M 36 x 2	35.4	41	46	28	22	25	XAOHNW25L25S
LS	PN 160	M 52 x 2	M 36 x 2	39.0	41	55	28	22	32	XAOHNW25L32S
LS	PN 160	M 36 x 2	M 45 x 2	39.5	50	41	35	28	20	XAOHNW32L20S
LS	PN 160	M 42 x 2	M 45 x 2	39.4	50	46	35	28	25	XAOHNW32L25S
LS	PN 160	M 52 x 2	M 45 x 2	43.0	50	55	35	28	32	XAOHNW32L32S
LS	PN 160	M 42 x 2	M 52 x 2	39.9	60	50	42	34	25	XAOHNW40L25S
LS	PN 160	M 52 x 2	M 52 x 2	43.5	60	55	42	34	32	XAOHNW40L32S
S	PN 630	M 14 x 1.5	M 14 x 1.5	27.0	17	14	6	2.5	4	XAOHNW03S
S	PN 630	M 16 x 1.5	M 14 x 1.5	27.0	17	17	6	2.5	5	XAOHNW03S04
S	PN 630	M 18 x 1.5	M 14 x 1.5	29.0	17	19	6	2.5	7	XAOHNW03S06
S	PN 630	M 16 x 1.5	M 16 x 1.5	27.0	19	17	8	4	5	XAOHNW04S
S	PN 630	M 14 x 1.5	M 16 x 1.5	27.0	19	14	8	4	4	XAOHNW04S03
S	PN 630	M 18 x 1.5	M 16 x 1.5	29.0	19	19	8	4	7	XAOHNW04S06
S	PN 630	M 20 x 1.5	M 16 x 1.5	28.5	19	22	8	4	8	XAOHNW04S08
S	PN 400	M 24 x 1.5	M 16 x 1.5	29.4	19	27	8	4	12	XAOHNW04S13
S	PN 630	M 18 x 1.5	M 18 x 1.5	29.5	22	19	10	6	7	XAOHNW06S
S	PN 630	M 14 x 1.5	M 18 x 1.5	27.5	22	17	10	6	4	XAOHNW06S03
S	PN 630	M 16 x 1.5	M 18 x 1.5	27.5	22	17	10	6	5	XAOHNW06S04
S L	PN 315	M 14 x 1.5	M 18 x 1.5	25.5	22	17	10	6	6	XAOHNW06S06L
S	PN 630	M 20 x 1.5	M 18 x 1.5	29.0	22	22	10	6	8	XAOHNW06S08
S	PN 630	M 22 x 1.5	M 18 x 1.5	30.5	22	24	10	6	10	XAOHNW06S10
S	PN 400	M 24 x 1.5	M 18 x 1.5	29.9	22	27	10	6	12	XAOHNW06S13
S	PN 630	M 20 x 1.5	M 20 x 1.5	29.0	24	22	12	8	8	XAOHNW08S
S	PN 630	M 14 x 1.5	M 20 x 1.5	30.0	24	17	12	8	4	XAOHNW08S03
S	PN 630	M 16 x 1.5	M 20 x 1.5	30.0	24	17	12	8	5	XAOHNW08S04
S	PN 630	M 18 x 1.5	M 20 x 1.5	29.5	24	19	12	8	7	XAOHNW08S06
S	PN 630	M 22 x 1.5	M 20 x 1.5	30.5	24	24	12	8	10	XAOHNW08S10
S	PN 400	M 24 x 1.5	M 20 x 1.5	29.9	24	27	12	8	12	XAOHNW08S13
S	PN 400	M 30 x 2	M 20 x 1.5	29.5	24	32	12	8	16	XAOHNW08S16
S	PN 630	M 22 x 1.5	M 22 x 1.5	32.5	27	24	14	9	10	XAOHNW10S
S	PN 630	M 14 x 1.5	M 22 x 1.5	32.0	27	19	14	9	4	XAOHNW10S03
S	PN 630	M 16 x 1.5	M 22 x 1.5	32.0	27	19	14	9	5	XAOHNW10S04
S	PN 630	M 18 x 1.5	M 22 x 1.5	31.5	27	19	14	9	7	XAOHNW10S06
S	PN 630	M 20 x 1.5	M 22 x 1.5	32.5	27	22	14	9	8	XAOHNW10S08
S	PN 400	M 24 x 1.5	M 22 x 1.5	32.5	27	27	14	9	12	XAOHNW10S13
S	PN 400	M 30 x 2	M 22 x 1.5	31.5	27	32	14	9	16	XAOHNW10S16
S	PN 400	M 24 x 1.5	M 24 x 1.5	32.3	30	27	16	11	12	XAOHNW13S
S	PN 400	M 14 x 1.5	M 24 x 1.5	31.9	30	22	16	11	4	XAOHNW13S03
S	PN 400	M 16 x 1.5	M 24 x 1.5	31.9	30	22	16	11	5	XAOHNW13S04
S	PN 400	M 18 x 1.5	M 24 x 1.5	31.4	30	22	16	11	7	XAOHNW13S06
S	PN 400	M 20 x 1.5	M 24 x 1.5	31.4	30	22	16	11	8	XAOHNW13S08
S	PN 400	M 22 x 1.5	M 24 x 1.5	32.9	30	24	16	11	10	XAOHNW13S10
S	PN 400	M 30 x 2	M 24 x 1.5	31.9	30	32	16	11	16	XAOHNW13S16
S	PN 400	M 36 x 2	M 24 x 1.5	35.4	30	41	16	11	20	XAOHNW13S20
S	PN 400	M 30 x 2	M 30 x 2	36.1	36	32	20	14	16	XAOHNW16S
S	PN 400	M 14 x 1.5	M 30 x 2	36.0	36	27	20	14	4	XAOHNW16S03
S	PN 400	M 16 x 1.5	M 30 x 2	36.0	36	27	20	14	5	XAOHNW16S04
S	PN 400	M 18 x 1.5	M 30 x 2	35.5	36	27	20	14	7	XAOHNW16S06
S	PN 400	M 20 x 1.5	M 30 x 2	35.5	36	27	20	14	8	XAOHNW16S08
S	PN 400	M 22 x 1.5	M 30 x 2	37.0	36	27	20	14	10	XAOHNW16S10
S	PN 400	M 24 x 1.5	M 30 x 2	36.5	36	27	20	14	12	XAOHNW16S13
S	PN 400	M 36 x 2	M 30 x 2	39.6	36	41	20	14	20	XAOHNW16S20
S	PN 400	M 42 x 2	M 30 x 2	39.5	36	46	20	14	25	XAOHNW16S25
S	PN 315	M 52 x 2	M 30 x 2	43.1	36	55	20	14	32	XAOHNW16S32
S	PN 400	M 36 x 2	M 36 x 2	42.5	46	41	25	18	20	XAOHNW20S
S	PN 400	M 14 x 1.5	M 36 x 2	38.5	46	32	25	18	4	XAOHNW20S03
S	PN 400	M 16 x 1.5	M 36 x 2	38.5	46	32	25	18	5	XAOHNW20S04
S	PN 400	M 18 x 1.5	M 36 x 2	38.0	46	32	25	18	7	XAOHNW20S06
S	PN 400	M 20 x 1.5	M 36 x 2	38.0	46	32	25	18	8	XAOHNW20S08

Series	Working pressure	G2	G1	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm		mm	mm	mm	mm	
S	PN 400	M 22 x 1.5	M 36 x 2	39.5	46	32	25	18	10	**XAOHNW20S10**
S	PN 400	M 24 x 1.5	M 36 x 2	39.0	46	32	25	18	12	**XAOHNW20S13**
S	PN 400	M 30 x 2	M 36 x 2	39.0	46	32	25	18	16	**XAOHNW20S16**
S	PN 400	M 42 x 2	M 36 x 2	42.5	46	46	25	18	25	**XAOHNW20S25**
S	PN 315	M 52 x 2	M 36 x 2	46.0	46	55	25	18	32	**XAOHNW20S32**
S	PN 400	M 42 x 2	M 42 x 2	44.9	50	46	30	23	25	**XAOHNW25S**
S	PN 400	M 14 x 1.5	M 42 x 2	44.0	50	41	30	23	4	**XAOHNW25S03**
S	PN 400	M 16 x 1.5	M 42 x 2	44.0	50	41	30	23	5	**XAOHNW25S04**
S	PN 400	M 18 x 1.5 K	M 42 x 2	43.5	50	41	30	23	7	**XAOHNW25S06**
S	PN 400	M 20 x 1.5	M 42 x 2	43.5	50	41	30	23	8	**XAOHNW25S08**
S	PN 400	M 22 x 1.5	M 42 x 2	45.0	50	41	30	23	10	**XAOHNW25S10**
S	PN 400	M 24 x 1.5	M 42 x 2	44.5	50	41	30	23	12	**XAOHNW25S13**
S	PN 400	M 30 x 2	M 42 x 2	44.5	50	41	30	23	16	**XAOHNW25S16**
S	PN 400	M 36 x 2	M 42 x 2	45.0	50	41	30	23	20	**XAOHNW25S20**
S	PN 315	M 52 x 2	M 42 x 2	47.5	50	55	30	23	32	**XAOHNW25S32**
S	PN 315	M 52 x 2	M 52 x 2	52.6	60	55	38	30	32	**XAOHNW32S**
S	PN 315	M 14 x 1.5	M 52 x 2	47.5	60	50	38	30	4	**XAOHNW32S03**
S	PN 315	M 16 x 1.5	M 52 x 2	47.5	60	50	38	30	5	**XAOHNW32S04**
S	PN 315	M 18 x 1.5	M 52 x 2	47.0	60	50	38	30	7	**XAOHNW32S06**
S	PN 315	M 20 x 1.5	M 52 x 2	47.0	60	50	38	30	8	**XAOHNW32S08**
S	PN 315	M 22 x 1.5	M 52 x 2	48.5	60	50	38	30	10	**XAOHNW32S10**
S	PN 315	M 24 x 1.5	M 52 x 2	48.0	60	50	38	30	12	**XAOHNW32S13**
S	PN 315	M 30 x 2	M 52 x 2	48.0	60	50	38	30	16	**XAOHNW32S16**
S	PN 315	M 36 x 2	M 52 x 2	48.5	60	50	38	30	20	**XAOHNW32S20**
S	PN 315	M 42 x 2	M 52 x 2	49.0	60	50	38	30	25	**XAOHNW32S25**
S L	PN 315	M 12 x 1.5	M 14 x 1.5	25.0	17	12	6	2.5	4	**XAOHNW03S04L**
S L	PN 315	M 14 x 1.5	M 14 x 1.5	25.0	17	14	6	2.5	6	**XAOHNW03S06L**
S L	PN 315	M 12 x 1.5	M 16 x 1.5	25.0	19	12	8	4	4	**XAOHNW04S04L**
S L	PN 315	M 14 x 1.5	M 16 x 1.5	25.0	19	14	8	4	6	**XAOHNW04S06L**
S L	PN 315	M 16 x 1.5	M 16 x 1.5	26.0	19	17	8	4	8	**XAOHNW04S08L**
S L	PN 315	M 18 x 1.5	M 16 x 1.5	28.5	19	19	8	4	10	**XAOHNW04S10L**
S L	PN 315	M 16 x 1.5	M 18 x 1.5	26.5	22	17	10	6	8	**XAOHNW06S08L**
S L	PN 315	M 18 x 1.5	M 18 x 1.5	29.0	22	19	10	6	10	**XAOHNW06S10L**
S L	PN 315	M 22 x 1.5	M 18 x 1.5	29.5	22	24	10	6	12	**XAOHNW06S13L**
S L	PN 315	M 14 x 1.5	M 20 x 1.5	25.5	24	17	12	8	6	**XAOHNW08S06L**
S L	PN 315	M 16 x 1.5	M 20 x 1.5	26.5	24	17	12	8	8	**XAOHNW08S08L**
S L	PN 315	M 18 x 1.5	M 20 x 1.5	29.0	24	19	12	8	10	**XAOHNW08S10L**
S L	PN 315	M 22 x 1.5	M 20 x 1.5	29.5	24	24	12	8	12	**XAOHNW08S13L**
S L	PN 315	M 26 x 1.5	M 20 x 1.5	28.9	24	27	12	8	15	**XAOHNW08S16L**
S L	PN 315	M 18 x 1.5	M 22 x 1.5	31.0	27	19	14	9	9	**XAOHNW10S10L**
S L	PN 315	M 22 x 1.5	M 22 x 1.5	31.5	27	24	14	9	12	**XAOHNW10S13L**
S L	PN 315	M 26 x 1.5	M 22 x 1.5	30.9	27	27	14	9	15	**XAOHNW10S16L**
S L	PN 315	M 22 x 1.5	M 24 x 1.5	31.9	30	24	16	11	11	**XAOHNW13S13L**
S L	PN 315	M 26 x 1.5	M 24 x 1.5	31.3	30	27	16	11	15	**XAOHNW13S16L**

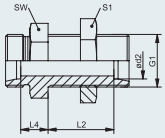
Series	Working pressure	G2	G1	L2	S1	SW	Ø d1	Ø d2	d3 Ø	Item no.
				mm		mm	mm	mm	mm	
S L	PN 160	M 30 x 2	M 24 x 1.5	33.9	30	32	16	11	19	**XAOHNW13S20L**
S L	PN 315	M 22 x 1.5	M 30 x 2	36.0	36	27	20	14	12	**XAOHNW16S13L**
S L	PN 315	M 26 x 1.5	M 30 x 2	35.5	36	27	20	14	14	**XAOHNW16S16L**
S L	PN 160	M 30 x 2	M 30 x 2	37.1	36	32	20	14	19	**XAOHNW16S20L**
S L	PN 160	M 36 x 2	M 30 x 2	40.1	36	41	20	14	24	**XAOHNW16S25L**
S L	PN 315	M 22 x 1.5	M 36 x 2	38.5	46	32	25	18	12	**XAOHNW20S13L**
S L	PN 315	M 26 x 1.5	M 36 x 2	38.0	46	32	25	18	15	**XAOHNW20S16L**
S L	PN 160	M 30 x 2	M 36 x 2	40.0	46	32	25	18	18	**XAOHNW20S20L**
S L	PN 160	M 36 x 2	M 36 x 2	43.0	46	41	25	18	24	**XAOHNW20S25L**
S L	PN 160	M 45 x 2	M 36 x 2	41.5	46	46	25	18	30	**XAOHNW20S32L**
S L	PN 160	M 30 x 2	M 42 x 2	45.5	50	41	30	23	19	**XAOHNW25S20L**
S L	PN 160	M 36 x 2	M 42 x 2	45.5	50	41	30	23	23	**XAOHNW25S25L**
S L	PN 160	M 45 x 2	M 42 x 2	43.9	50	46	30	23	30	**XAOHNW25S32L**
S L	PN 160	M 52 x 2	M 42 x 2	47.5	50	55	30	23	36	**XAOHNW25S40L**
S L	PN 160	M 36 x 2	M 52 x 2	49.0	60	50	38	30	24	**XAOHNW32S25L**
S L	PN 160	M 45 x 2	M 52 x 2	48.0	60	50	38	30	30	**XAOHNW32S32L**
S L	PN 160	M 52 x 2	M 52 x 2	51.6	60	55	38	30	36	**XAOHNW32S40L**

Product variants:

Reducing fitting, ISO 8434-1, DKOL/DKOS 24°, CEL/CES 24°, stainless steel, XAOH VA **...XAOHVA**

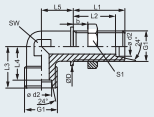
Bulkhead connectors

Union connectors



Bulkhead connector, ISO 8434-1, CEL/CES 24°, straight, steel

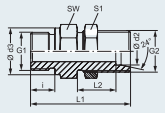
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Bulkhead connector, ISO 8434-1, CEL/CES 24°, elbow 90°, steel

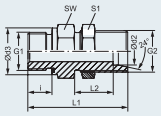
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Stud connectors



Bulkhead stud connector, ISO 8434-1, AGM, DIN 3852-1, type A, CEL/CES 24°, steel

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Bulkhead stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

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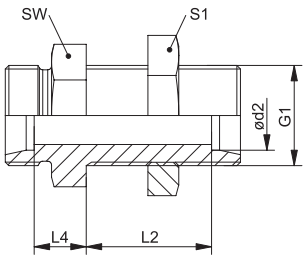




Bulkhead connector, ISO 8434-1, CEL/CES 24°, steel

Connection 1 + 2: metric cylindrical outer thread
Construction type: bulkhead fitting
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Bulkhead connector, ISO 8434-1, CEL/CES 24°, straight, steel

Sealing form 1 + 2: 24° inner cone
Type: straight
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

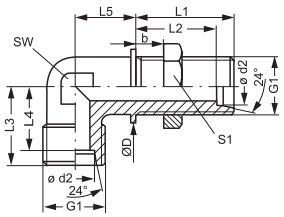
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Tube outer Ø	Series	Working pressure	G1	L2	L4	S1	SW	Ø d2	Item no.
mm				mm	mm		mm	mm	
6	L	PN 315	M 12 x 1.5	27.0	7.0	17	17	6	**XSVNW04HL**
8	L	PN 315	M 14 x 1.5	27.0	8.0	19	19	8	**XSVNW06HL**
10	L	PN 315	M 16 x 1.5	28.0	10.0	22	22	10	**XSVNW08HL**
12	L	PN 315	M 18 x 1.5	29.0	10.0	24	24	12	**XSVNW10HL**
15	L	PN 315	M 22 x 1.5	31.0	12.0	30	27	15	**XSVNW13HL**
18	L	PN 315	M 26 x 1.5	32.5	13.5	36	32	18	**XSVNW16HL**
22	L	PN 160	M 30 x 2	34.5	16.5	41	36	22	**XSVNW20HL**
28	L	PN 160	M 36 x 2	35.5	18.5	46	41	28	**XSVNW25HL**
35	L	PN 160	M 45 x 2	36.5	18.5	55	50	35	**XSVNW32HL**
42	L	PN 160	M 52 x 2	36.0	19.0	65	60	42	**XSVNW40HL**
6	S	PN 630	M 14 x 1.5	29.0	12.0	19	19	6	**XSVNW03HS**
8	S	PN 630	M 16 x 1.5	29.0	13.0	22	22	8	**XSVNW04HS**
10	S	PN 630	M 18 x 1.5	29.5	14.5	24	24	10	**XSVNW06HS**
12	S	PN 630	M 20 x 1.5	30.5	14.5	27	27	12	**XSVNW08HS**
14	S	PN 630	M 22 x 1.5	32.0	17.0	30	30	14	**XSVNW10HS**
16	S	PN 400	M 24 x 1.5	31.5	16.5	32	32	16	**XSVNW13HS**
20	S	PN 400	M 30 x 2	33.5	17.5	41	41	20	**XSVNW16HS**
25	S	PN 400	M 36 x 2	35.0	20.0	46	46	25	**XSVNW20HS**
30	S	PN 400	M 42 x 2	37.5	21.5	50	50	30	**XSVNW25HS**
38	S	PN 315	M 52 x 2	37.0	22.0	65	65	38	**XSVNW32HS**

Product variants:

Bulkhead connector, ISO 8434-1, CEL/CES 24°, straight, brass, SV MG	**...SVMG**
Bulkhead connector, ISO 8434-1, CEL/CES 24°, straight, stainless steel, XSV VA	**...XSVVA**

Bulkhead connector, ISO 8434-1, CEL/CES 24°, elbow 90°, steel



Sealing form 1 + 2: 24° inner cone
Type: angle 90°
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1

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Tube outer Ø	Series	Working pressure	b	G1	L1	L2	L3	S1	SW	Ø D	Ø d2	Item no.
mm			mm		mm	mm	mm		mm	mm	mm	
6	L	PN 315	16	M 12 x 1.5	34	27.0	19	17	12	17	6	**XSWNW04HL**
8	L	PN 315	16	M 14 x 1.5	34	27.0	21	19	12	19	8	**XSWNW06HL**
10	L	PN 315	16	M 16 x 1.5	35	28.0	22	22	14	22	10	**XSWNW08HL**
12	L	PN 315	16	M 18 x 1.5	36	29.0	24	24	17	24	12	**XSWNW10HL**
15	L	PN 315	16	M 22 x 1.5	38	31.0	28	30	19	27	15	**XSWNW13HL**
18	L	PN 315	16	M 26 x 1.5	40	32.5	31	36	24	32	18	**XSWNW16HL**
22	L	PN 160	16	M 30 x 2	42	34.5	35	41	27	36	22	**XSWNW20HL**
28	L	PN 160	16	M 36 x 2	43	35.5	38	46	36	42	28	**XSWNW25HL**
35	L	PN 160	16	M 45 x 2	47	36.5	45	55	41	50	35	**XSWNW32HL**
42	L	PN 160	16	M 52 x 2	47	36.0	51	65	50	60	42	**XSWNW40HL**
6	S	PN 630	16	M 14 x 1.5	36	29.0	23	19	12	19	6	**XSWNW03HS**
8	S	PN 630	16	M 16 x 1.5	36	29.0	24	22	14	22	8	**XSWNW04HS**
10	S	PN 630	16	M 18 x 1.5	16	29.5	25	24	17	24	10	**XSWNW06HS**
12	S	PN 630	16	M 20 x 1.5	38	30.5	29	27	17	27	12	**XSWNW08HS**
14	S	PN 630	16	M 22 x 1.5	40	32.0	30	30	19	27	14	**XSWNW10HS**
16	S	PN 400	16	M 24 x 1.5	40	31.5	33	32	24	30	16	**XSWNW13HS**
20	S	PN 400	16	M 30 x 2	44	33.5	37	41	27	36	20	**XSWNW16HS**
25	S	PN 400	16	M 36 x 2	47	35.0	42	46	36	42	25	**XSWNW20HS**
30	S	PN 400	16	M 42 x 2	51	37.5	49	50	41	50	30	**XSWNW25HS**
38	S	PN 315	16	M 52 x 2	53	37.0	57	65	50	60	38	**XSWNW32HS**

Product variants:

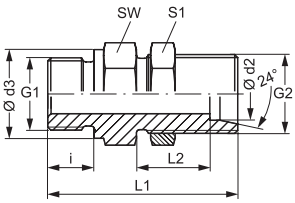
Bulkhead connector, ISO 8434-1, CEL/CES 24°, elbow 90°, stainless steel, XSW VA	**...XSWVA**

Bulkhead stud connector, ISO 8434-1, AGM, DIN 3852-1, type A, CEL/CES 24°, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting bulkhead
Type: straight
Sealing form 1: type A
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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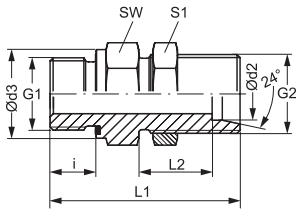
Tube outer Ø	Series	Working pressure	G1	G2	i	L1	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
16	S	PN 400	M 22 x 1.5	M 24 x 1.5	14	68.0	32	32	16	**XSVMNW13HS**
20	S	PN 400	M 22 x 1.5	M 30 x 2	14	70.0	41	41	20	**XSVMNW16HS22**
20	S	PN 400	M 26 x 1.5	M 30 x 2	16	72.0	41	41	20	**XSVMNW16HS26**
25	S	PN 400	M 26 x 1.5	M 36 x 2	16	75.0	46	41	25	**XSVMNW20HS26**
25	S	PN 400	M 30 x 1.5	M 36 x 2	16	75.0	46	41	25	**XSVMNW20HS30-1.5**
30	S	PN 400	M 30 x 1.5	M 42 x 2	16	79.0	50	50	30	**XSVMNW25HS30-1.5**

→

Tube outer Ø	Series	Working pressure	G1	G2	i	L1	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
30	S	PN 400	M 38 x 1.5	M 42 x 2	16	79.0	50	50	30	**XSVMNW25HS38-1.5**
30	S	PN 400	M 45 x 1.5	M 42 x 2	16	79.0	50	55	30	**XSVMNW25HS45-1.5**
38	S	PN 315	M 38 x 1.5	M 52 x 2	16	81.5	65	60	38	**XSVMNW32HS38-1.5**
38	S	PN 315	M 45 x 1.5	M 52 x 2	16	81.5	65	60	38	**XSVMNW32HS45-1.5**



Bulkhead stud connector, ISO 8434-1, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting bulkhead
Type: straight
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard connection 1: ISO 1179-2
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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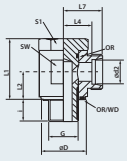
Tube outer Ø	Series	Working pressure	G1	G2	i	L1	S1	SW	Ø d2	Item no.
mm					mm	mm		mm	mm	
8	L	PN 315	G 1/4" -19	M 14 x 1.5	12	53.0	19	19	8	**XSVRNW06HLED**
8	L	PN 315	G 3/8" -19	M 14 x 1.5	12	54.5	19	22	8	**XSVRNW06HL3/8ED**
8	L	PN 315	G 1/2" -14	M 14 x 1.5	14	58.0	19	27	8	**XSVRNW06HL1/2ED**
10	L	PN 315	G 1/4" -19	M 16 x 1.5	12	55.0	22	22	10	**XSVRNW08HLED**
10	L	PN 315	G 1/2" -14	M 16 x 1.5	14	59.0	22	27	10	**XSVRNW08HL1/2ED**
12	L	PN 315	G 3/8" -19	M 18 x 1.5	12	56.5	24	24	12	**XSVRNW10HLED**
12	L	PN 315	G 1/2" -14	M 18 x 1.5	14	60.0	24	27	12	**XSVRNW10HL1/2ED**
15	L	PN 250	G 1/2" -14	M 22 x 1.5	14	62.0	30	27	15	**XSVRNW13HLED**
15	L	PN 250	G 3/4" -14	M 22 x 1.5	16	66.0	30	32	15	**XSVRNW13HL3/4ED**
18	L	PN 250	G 1/2" -14	M 26 x 1.5	14	66.0	36	32	18	**XSVRNW16HLED**
18	L	PN 250	G 3/4" -14	M 26 x 1.5	16	68.0	36	32	18	**XSVRNW16HL3/4ED**
18	L	PN 250	G 1" -11	M 26 x 1.5	18	73.0	36	41	18	**XSVRNW16HL1ED**
22	L	PN 250	G 3/4" -14	M 30 x 2	16	71.0	41	36	22	**XSVRNW20HLED**
42	L	PN 250	G 1.1/2" -11	M 52 x 2	22	86.0	65	60	42	**XSVRNW40HLED**
12	S	PN 630	G 1/2" -14	M 20 x 1.5	14	65.0	27	27	12	**XSVRNW08HS1/2ED**
16	S	PN 400	G 1/2" -14	M 24 x 1.5	14	68.0	32	32	16	**XSVRNW13HSED**
16	S	PN 400	G 3/4" -14	M 24 x 1.5	16	70.0	32	32	16	**XSVRNW13HS3/4ED**
20	S	PN 400	G 3/4" -14	M 30 x 2	16	75.0	41	41	20	**XSVRNW16HSED**
25	S	PN 400	G 3/4" -14	M 36 x 2	16	80.0	46	46	25	**XSVRNW20HS3/4ED**
25	S	PN 400	G 1" -11	M 36 x 2	18	82.0	46	46	25	**XSVRNW20HSED**
30	S	PN 400	G 1.1/4" -11	M 42 x 2	20	89.0	50	50	30	**XSVRNW25HSED**

Spare parts:

Soft seal for ED fittings, WD	**...WD**

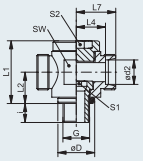
Banjo fittings

Metric



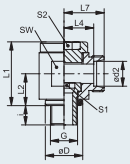
Banjo fitting, ISO 8434-1, AGM, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, steel

XSDOM Page 136



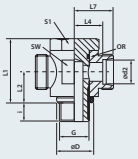
Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, T shape, steel

XDTM Page 137



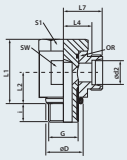
Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, elbow 90°, steel

XDWM Page 138



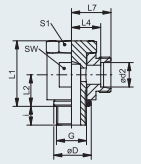
Banjo fitting, ISO 8434-1, AGM, OR, high pressure CEL/CES 24°, T shape, steel

XSTM Page 139



Banjo fitting, ISO 8434-1, AGM, OR, high pressure CEL/CES 24°, elbow 90°, steel

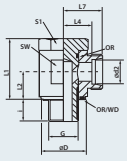
XSDM Page 140



Banjo fitting, ISO 8434-1, AGM, low pressure, CELL, CEL 24°, elbow 90°, steel

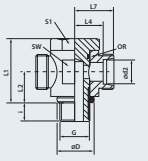
XSWM Page 141

BSP



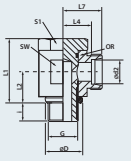
Banjo fitting, ISO 8434-1, AGR, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, steel

XSDOR Page 141



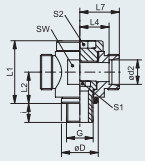
Banjo fitting, ISO 8434-1, AGR, low pressure, CEL/CES 24°, T shape, steel

XSTR Page 142



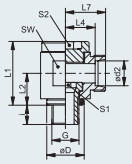
Banjo fitting, ISO 8434-1, AGR, low pressure, CEL/CES 24°, elbow 90°, steel

XSDR Page 143



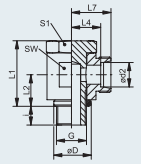
Banjo fitting, ISO 8434-1, AGR, OR, high pressure CEL/CES 24°, elbow 90°, steel

XDTR Page 144



Banjo fitting, ISO 8434-1, AGR, OR, high pressure CEL/CES 24°, T form, steel

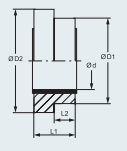
XDWR Page 145



Banjo fitting, ISO 8434-1, AGR, low pressure, CELL, CEL 24°, elbow 90°, steel

XSWR Page 146

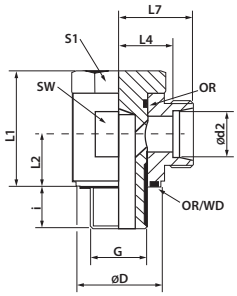
Accessories



Sealing edge ring with elastomer insert

KDS Page 146





Banjo fitting, ISO 8434-1, AGM, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: banjo coupling, throttle free
Type: angle 90°
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Series	Working pressure	G	i	L1	L2	L4	S1	SW	Ø D	Ø d2	Item no.
			mm	mm	mm	mm		mm	mm	mm	
LL	PN 100	M 10 x 1	8.0	23.5	10.5	13.5	17	17	14.5	6	**XSDOM06LL**
LL	PN 100	M 10 x 1	8.0	23.5	10.5	13.5	17	17	14.5	8	**XSDOM08LL**
L	PN 315	M 10 x 1	8.0	24.0	10.5	12.0	17	17	14.0	6	**XSDOMNW04HL**
L	PN 315	M 12 x 1.5	12.0	30.0	14.0	14.5	19	22	17.0	8	**XSDOMNW06HL**
L	PN 315	M 14 x 1.5	12.0	30.0	14.0	15.5	19	22	19.0	10	**XSDOMNW08HL**
L	PN 315	M 16 x 1.5	12.0	36.0	16.5	18.0	24	27	21.0	12	**XSDOMNW10HL**
L	PN 315	M 18 x 1.5	12.0	35.0	16.5	18.0	27	30	23.5	12	**XSDOMNW10HL18**
L	PN 315	M 18 x 1.5	12.0	39.5	18.5	21.5	27	30	23.0	15	**XSDOMNW13HL**
L	PN 315	M 22 x 1.5	14.0	45.0	21.5	21.0	30	32	27.0	18	**XSDOMNW16HL**
L	PN 160	M 26 x 1.5	16.0	53.0	24.0	27.5	36	41	31.0	22	**XSDOMNW20HL**
L	PN 160	M 33 x 2	18.0	66.0	30.5	32.0	46	50	39.0	28	**XSDOMNW25HL**
L	PN 160	M 42 x 2	20.0	76.0	35.5	36.0	55	60	49.0	35	**XSDOMNW32HL**
L	PN 160	M 48 x 2	22.0	87.0	40.5	40.5	60	70	55.0	42	**XSDOMNW40HL**
S	PN 400	M 12 x 1.5	12.0	30.0	14.0	16.5	19	22	17.5	6	**XSDOMNW03HS**
S	PN 400	M 14 x 1.5	12.0	30.0	14.0	16.5	19	22	19.0	8	**XSDOMNW04HS**
S	PN 400	M 16 x 1.5	12.0	35.0	16.5	18.5	24	27	21.0	10	**XSDOMNW06HS**
S	PN 400	M 18 x 1.5	12.0	39.5	18.5	20.0	27	30	23.0	12	**XSDOMNW08HS**
S	PN 400	M 20 x 1.5	14.0	43.5	20.0	22.5	30	32	25.0	14	**XSDOMNW10HS**
S	PN 315	M 22 x 1.5	14.0	45.0	21.5	22.0	30	32	27.0	16	**XSDOMNW13HS**
S	PN 315	M 27 x 2	16.0	53.0	24.0	26.5	36	41	32.0	20	**XSDOMNW16HS**
S	PN 250	M 33 x 2	18.0	66.0	30.5	31.5	46	50	39.0	25	**XSDOMNW20HS**
S	PN 160	M 42 x 2	20.0	76.0	35.5	37.0	55	60	49.0	30	**XSDOMNW25HS**
S	PN 160	M 48 x 2	22.0	87.0	40.5	41.5	60	70	55.0	38	**XSDOMNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGM, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, stainless steel, XSDOM VA **...XSDOMVA**

Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, steel

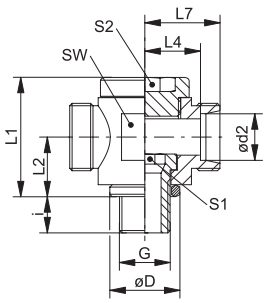
Connection 1: metric cylindrical outer thread
Construction type: banjo coupling, throttle free
Sealing form 1: edge sealing ring
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, T shape, steel

Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone

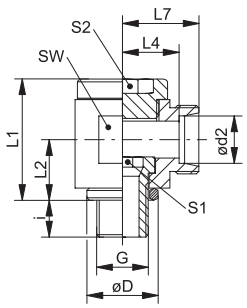


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Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	S2	SW	Ø d2	Item no.
mm				mm	mm	mm	mm			mm	mm	
6	L	PN 160	M 10 x 1	8	24	12	12.0	6	6	19	6	**XDTMNW04HL**
8	L	PN 160	M 12 x 1.5	12	27	14	13.0	6	6	22	8	**XDTMNW06HL**
10	L	PN 100	M 14 x 1.5	12	30	15	15.0	8	8	22	10	**XDTMNW08HL**
12	L	PN 100	M 16 x 1.5	12	36	18	17.5	10	10	27	12	**XDTMNW10HL**
15	L	PN 100	M 18 x 1.5	12	39	19	20.0	12	12	30	15	**XDTMNW13HL**
18	L	PN 100	M 22 x 1.5	14	41	20	20.5	14	14	32	18	**XDTMNW16HL**
22	L	PN 100	M 26 x 1.5	16	46	22	24.5	17	17	36	22	**XDTMNW20HL**
28	L	PN 100	M 33 x 2	18	58	29	29.5	22	22	46	28	**XDTMNW25HL**
35	L	PN 63	M 42 x 2	20	69	33	33.0	27	27	55	35	**XDTMNW32HL**
42	L	PN 63	M 48 x 2	22	84	41	40.0	32	32	70	42	**XDTMNW40HL**
6	S	PN 160	M 12 x 1.5	12	27	14	15.0	6	6	22	6	**XDTMNW03HS**
8	S	PN 160	M 14 x 1.5	12	30	15	16.0	8	8	22	8	**XDTMNW04HS**
10	S	PN 100	M 16 x 1.5	12	36	18	18.0	10	10	27	10	**XDTMNW06HS**
12	S	PN 100	M 18 x 1.5	12	39	19	26.0	12	12	30	12	**XDTMNW08HS**
14	S	PN 100	M 20 x 1.5	14	41	20	22.0	12	12	32	14	**XDTMNW10HS**
16	S	PN 100	M 22 x 1.5	14	45	22	23.5	14	14	36	16	**XDTMNW13HS**
20	S	PN 100	M 27 x 2	16	58	28	28.5	17	17	46	20	**XDTMNW16HS**
25	S	PN 100	M 33 x 2	18	62	31	31.0	22	22	50	25	**XDTMNW20HS**
30	S	PN 63	M 42 x 2	20	74	36	36.5	27	27	60	30	**XDTMNW25HS**
38	S	PN 63	M 48 x 2	22	84	41	41.0	32	32	70	38	**XDTMNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, T-shaped, stainless steel, XDTM VA	**...XDTMVA**



Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, elbow 90°, steel

Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone

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Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	S2	SW	Ø d2	Item no.
mm				mm	mm	mm	mm			mm	mm	
6	L	PN 160	M 10 x 1	8	24	12	12.5	6	6	19	6	**XDWMNW04HL**
8	L	PN 160	M 12 x 1.5	12	30	15	14.5	6	6	22	8	**XDWMNW06HL**
10	L	PN 100	M 14 x 1.5	12	30	16	15.5	8	8	22	10	**XDWMNW08HL**
12	L	PN 100	M 16 x 1.5	12	37	18	18.0	10	10	27	12	**XDWMNW10HL**
12	L	PN 100	M 18 x 1.5	12	37	18	18.0	12	12	30	12	**XDWMNW10HL18**
15	L	PN 100	M 18 x 1.5	12	40	20	22.0	12	12	30	15	**XDWMNW13HL**
18	L	PN 100	M 22 x 1.5	14	46	23	21.5	14	14	36	18	**XDWMNW16HL**
22	L	PN 100	M 26 x 1.5	16	51	25	26.0	17	17	41	22	**XDWMNW20HL**
28	L	PN 100	M 33 x 2	18	64	32	31.5	22	22	50	28	**XDWMNW25HL**
35	L	PN 63	M 42 x 2	20	76	37	35.5	27	27	60	35	**XDWMNW32HL**
42	L	PN 63	M 48 x 2	22	85	42	40.0	32	32	70	42	**XDWMNW40HL**
6	S	PN 160	M 12 x 1.5	12	30	15	16.5	6	6	22	6	**XDWMNW03HS**
8	S	PN 160	M 14 x 1.5	12	30	16	16.5	8	8	22	8	**XDWMNW04HS**
10	S	PN 100	M 16 x 1.5	12	37	18	18.5	10	10	27	10	**XDWMNW06HS**
12	S	PN 100	M 18 x 1.5	12	41	20	20.5	12	12	30	12	**XDWMNW08HS**
14	S	PN 100	M 20 x 1.5	14	42	21	23.0	12	12	32	14	**XDWMNW10HS**
16	S	PN 100	M 22 x 1.5	14	46	23	22.5	14	14	36	16	**XDWMNW13HS**
20	S	PN 100	M 27 x 2	16	58	28	27.5	17	17	46	20	**XDWMNW16HS**
25	S	PN 100	M 33 x 2	18	64	32	31.0	22	22	50	25	**XDWMNW20HS**
30	S	PN 63	M 42 x 2	20	76	37	36.5	27	27	60	30	**XDWMNW25HS**
38	S	PN 63	M 48 x 2	22	85	42	41.0	32	32	70	38	**XDWMNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGM, low pressure, CEL/CES 24°, elbow 90°, stainless steel, XDWM VA **...XDWMVA**

Banjo fitting, ISO 8434-1, AGM, OR, high pressure CEL/ CES 24°, steel



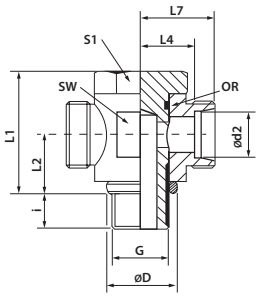


Connection 1: metric cylindrical outer thread
Sealing form 1: edge sealing ring
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Banjo fitting, ISO 8434-1, AGM, OR, high pressure CEL/CES 24°, T shape, steel



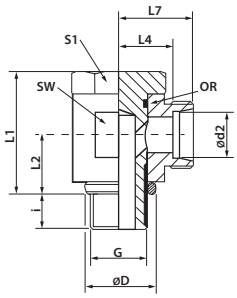
Connection 1: metric cylindrical outer thread
Connection 2 + 3: metric cylindrical outer thread
Construction type: banjo coupling, throttle free
Type: T shape
Sealing form 1: edge sealing ring
Sealing form 2 + 3: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm		mm	mm	mm	
6	L	PN 250	M 10 x 1	8	24.0	10.5	12.0	17	17	14	6	**XSTMNW04HL**
8	L	PN 250	M 12 x 1.5	12	30.0	14.0	14.5	19	22	17	8	**XSTMNW06HL**
10	L	PN 250	M 14 x 1.5	12	30.0	14.0	15.5	19	22	19	10	**XSTMNW08HL**
12	L	PN 250	M 16 x 1.5	12	36.0	16.5	18.0	24	27	21	12	**XSTMNW10HL**
15	L	PN 250	M 18 x 1.5	12	39.5	18.5	20.5	27	30	23	15	**XSTMNW13HL**
18	L	PN 100	M 22 x 1.5	14	45.0	21.5	21.0	30	32	27	18	**XSTMNW16HL**
22	L	PN 160	M 26 x 1.5	16	53.0	24.0	27.5	36	41	31	22	**XSTMNW20HL**
28	L	PN 160	M 33 x 2	18	66.0	30.5	32.0	46	50	39	28	**XSTMNW25HL**
35	L	PN 160	M 42 x 2	20	76.0	35.5	36.0	55	60	49	35	**XSTMNW32HL**
42	L	PN 160	M 48 x 2	22	87.0	40.5	40.5	60	70	55	42	**XSTMNW40HL**
6	S	PN 315	M 12 x 1.5	12	30.0	14.0	16.5	19	22	17	6	**XSTMNW03HS**
8	S	PN 315	M 14 x 1.5	12	30.0	14.0	16.5	19	22	19	8	**XSTMNW04HS**
10	S	PN 315	M 16 x 1.5	12	36.0	16.5	18.5	24	27	21	10	**XSTMNW06HS**
12	S	PN 315	M 18 x 1.5	12	39.5	18.5	20.0	27	30	23	12	**XSTMNW08HS**
14	S	PN 315	M 20 x 1.5	14	43.5	20.0	22.5	30	32	25	14	**XSTMNW10HS**
16	S	PN 315	M 22 x 1.5	14	45.0	21.5	22.0	30	32	27	16	**XSTMNW13HS**
20	S	PN 160	M 27 x 2	16	53.0	24.0	26.5	36	41	32	20	**XSTMNW16HS**
25	S	PN 160	M 33 x 2	18	66.0	30.5	31.5	46	50	39	25	**XSTMNW20HS**
30	S	PN 160	M 42 x 2	20	76.0	35.5	37.0	55	60	49	30	**XSTMNW25HS**
38	S	PN 160	M 48 x 2	22	87.0	40.5	41.5	60	70	55	38	**XSTMNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGM, OR, high pressure CEL/CES 24°, T shape, stainless steel, XSTM VA **...XSTMVA**



Banjo fitting, ISO 8434-1, AGM, OR, high pressure CEL/CES 24°, elbow 90°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: banjo coupling, throttle free
Type: angle 90°
Sealing form 1: edge sealing ring
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

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Series	Working pressure	G	i	L1	L2	L4	L7	S1	SW	Ø D	Ø d2	Item no.
			mm	mm	mm	mm	mm		mm	mm	mm	
L	PN 250	M 10 x 1	8	24.0	10.5	12.0	19.0	17	17	14	6	**XSDMNW04HL**
L	PN 250	M 12 x 1.5	12	30.0	14.0	14.5	21.5	19	22	17	8	**XSDMNW06HL**
L	PN 250	M 14 x 1.5	12	30.0	14.0	15.5	22.5	19	22	19	10	**XSDMNW08HL**
L	PN 250	M 16 x 1.5	12	36.0	16.5	18.0	25.0	24	27	21	12	**XSDMNW10HL**
L	PN 250	M 18 x 1.5	12	38.0	17.0	13.5	25.0	27	30	23	12	**XSDMNW10HL18**
L	PN 250	M 18 x 1.5	12	39.5	18.5	20.5	27.5	27	30	23	15	**XSDMNW13HL**
L	PN 250	M 22 x 1.5	14	45.0	21.5	21.0	28.5	30	32	27	18	**XSDMNW16HL**
L	PN 160	M 26 x 1.5	16	53.0	24.0	27.5	35.0	36	41	31	22	**XSDMNW20HL**
L	PN 160	M 33 x 2	18	66.0	30.5	32.0	39.5	46	50	39	28	**XSDMNW25HL**
L	PN 160	M 42 x 2	20	76.0	35.5	36.0	46.5	55	60	49	35	**XSDMNW32HL**
L	PN 160	M 48 x 2	22	87.0	40.5	40.5	51.5	60	70	55	42	**XSDMNW40HL**
S	PN 315	M 12 x 1.5	12	30.0	14.0	16.5	23.5	19	22	17	6	**XSDMNW03HS**
S	PN 315	M 14 x 1.5	12	30.0	14.0	16.5	23.5	19	22	19	8	**XSDMNW04HS**
S	PN 315	M 16 x 1.5	12	36.0	16.5	18.5	26.0	24	27	21	10	**XSDMNW06HS**
S	PN 315	M 18 x 1.5	12	39.5	18.5	20.0	27.5	27	30	23	12	**XSDMNW08HS**
S	PN 315	M 20 x 1.5	14	43.5	20.0	22.5	30.5	30	32	25	14	**XSDMNW10HS**
S	PN 315	M 22 x 1.5	14	45.0	21.5	22.0	30.5	30	32	27	16	**XSDMNW13HS**
S	PN 160	M 27 x 2	16	53.0	24.0	26.5	37.0	36	41	32	20	**XSDMNW16HS**
S	PN 160	M 33 x 2	18	66.0	30.5	31.5	43.5	46	50	39	25	**XSDMNW20HS**
S	PN 160	M 42 x 2	20	76.0	35.5	37.0	50.5	55	60	49	30	**XSDMNW25HS**
S	PN 160	M 48 x 2	22	87.0	40.5	41.5	57.5	60	70	55	38	**XSDMNW32HS**

Product variants:

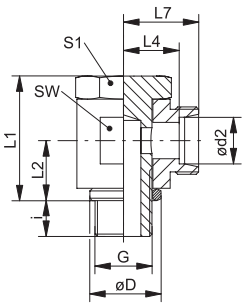
Banjo connector stud, throttle free, elbow 90°, AGM, CELL/CEL/CES 24°, stainless steel, XSDM VA **...XSDMVA**

Banjo fitting, ISO 8434-1, AGM, low pressure, CELL, CEL 24°, elbow 90°, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: banjo fitting
Type: angle 90°
Sealing form 1: edge sealing ring
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	SW	Ø d2	Item no.
mm				mm	mm	mm	mm		mm	mm	
4	LL	PN 100	M 8 x 1	6	17.0	8	10.5	14	12	4	**XSWM04LL**
5	LL	PN 100	M 8 x 1	6	17.0	10	11.5	14	14	5	**XSWM05LL**
6	LL	PN 100	M 10 x 1	6	21.0	10	10.0	14	14	6	**XSWM06LL**
8	LL	PN 100	M 10 x 1	6	21.0	10	11.0	14	14	8	**XSWM08LL**
6	L	PN 250	M 12 x 1.5	9	27.5	13	12.5	17	17	6	**XSWMNW04HL12**

Product variants:

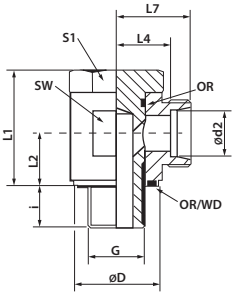
Banjo fitting, ISO 8434-1, AGM, low pressure, CELL, CEL 24°, elbow 90°, stainless steel, XSWM VA **...XSWMVA**

Banjo fitting, ISO 8434-1, AGR, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: banjo coupling, throttle free
Type: angle 90°
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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Series	Working pressure	OR	G	i	L1	L2	L4	S1	SW	Ø d2	Item no.
				mm	mm	mm	mm		mm	mm	
LL	PN 100	7.65 x 1.78	G 1/8" -28	8.0	23.5	10.5	14.0	17	17	4	**XSDOR04LL**
LL	PN 100	7.65 x 1.78	G 1/8" -28	8.0	23.5	10.5	13.5	17	17	6	**XSDOR06LL**
LL	PN 100	7.65 x 1.78	G 1/8" -28	8.0	23.5	10.5	13.5	17	17	8	**XSDOR08LL**
L	PN 315	7.65 x 1.78	G 1/8" -28	8.0	24.0	10.5	12.0	17	17	6	**XSDORNW04HL**
L	PN 315	11.10 x 1.78	G 1/4" -19	12.0	30.0	14.0	14.5	19	22	8	**XSDORNW06HL**
L	PN 315	11.10 x 1.78	G 1/4" -19	12.0	30.0	14.0	15.5	19	22	10	**XSDORNW08HL**
L	PN 315	15.00 x 1.50	G 3/8" -19	12.0	37.5	16.5	18.0	22	27	10	**XSDORNW08HL3/8**
L	PN 315	11.10 x 1.78	G 1/4" -19	12.0	34.0	16.5	18.0	19	27	12	**XSDORNW10HL1/4**
L	PN 315	14.00 x 1.78	G 3/8" -19	12.0	36.0	16.5	18.0	24	27	12	**XSDORNW10HL**
L	PN 315	18.77 x 1.78	G 1/2" -14	14.0	46.0	21.5	20.5	27	32	12	**XSDORNW10HL1/2**
L	PN 315	18.77 x 1.78	G 1/2" -14	12.0	45.0	21.5	21.5	30	32	15	**XSDORNW13HL**
L	PN 315	18.77 x 1.78	G 1/2" -14	14.0	45.0	21.5	21.0	30	32	18	**XSDORNW16HL**
L	PN 160	23.81 x 2.62	G 3/4" -14	16.0	53.0	24.0	27.5	36	41	22	**XSDORNW20HL**
L	PN 160	29.82 x 2.62	G 1" -11	18.0	66.0	30.5	32.0	46	50	28	**XSDORNW25HL**

Series	Working pressure	OR	G	i	L1	L2	L4	S1	SW	Ø d2	Item no.
				mm	mm	mm	mm		mm	mm	
L	PN 160	37.77 x 2.62	G 1.1/4" -11	20.0	76.0	35.5	36.0	55	60	35	**XSDORNW32HL**
L	PN 160	41.28 x 3.53	G 1.1/2" -11	22.0	87.0	40.5	40.5	60	70	42	**XSDORNW40HL**
S	PN 400	11.10 x 1.78	G 1/4" -19	12.0	30.0	14.0	16.5	19	22	6	**XSDORNW03HS**
S	PN 400	11.10 x 1.78	G 1/4" -19	12.0	30.0	14.0	16.5	19	22	8	**XSDORNW04HS**
S	PN 400	14.00 x 1.78	G 3/8" -19	12.0	36.0	16.5	18.5	24	27	10	**XSDORNW06HS**
S	PN 400	14.00 x 1.78	G 3/8" -19	12.0	36.0	16.5	18.5	24	27	12	**XSDORNW08HS**
S	PN 400	18.77 x 1.78	G 1/2" -14	14.0	45.0	21.5	22.5	30	32	14	**XSDORNW10HS**
S	PN 315	18.77 x 1.78	G 1/2" -14	14.0	45.0	21.5	22.0	30	32	16	**XSDORNW13HS**
S	PN 315	23.81 x 2.62	G 3/4" -14	16.0	53.0	24.0	26.5	36	41	20	**XSDORNW16HS**
S	PN 250	29.82 x 2.62	G 1" -11	18.0	66.0	30.5	31.5	46	50	25	**XSDORNW20HS**
S	PN 160	37.77 x 2.62	G 1.1/4" -11	20.0	76.0	35.5	37.0	55	60	30	**XSDORNW25HS**
S	PN 160	41.28 x 3.53	G 1.1/2" -11	22.0	87.0	40.5	41.5	60	70	38	**XSDORNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGR, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow **...XSDORVA** 90°, stainless steel, XSDOR VA

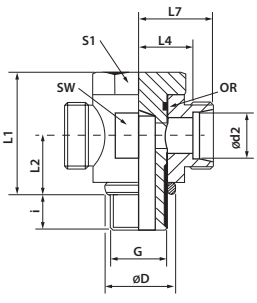




Banjo fitting, ISO 8434-1, AGR, low pressure, CEL/CES 24°, steel

Connection 1: BSPP male thread, cylindric
Construction type: banjo coupling, throttle free
Sealing form 1: edge sealing ring
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Banjo fitting, ISO 8434-1, AGR, low pressure, CEL/CES 24°, T shape, steel

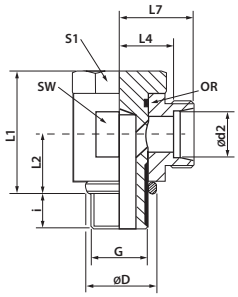
Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone

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Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm		mm	mm	mm	
6	L	PN 250	G 1/8" -28	8	24	10.5	12.0	17	17	14	6	**XSTRNW04HL**
8	L	PN 250	G 1/4" -19	12	30	14.0	14.5	19	22	18	8	**XSTRNW06HL**
10	L	PN 250	G 1/4" -19	12	30	14.0	15.5	19	22	18	10	**XSTRNW08HL**
12	L	PN 250	G 3/8" -19	12	36	16.5	18.0	24	27	22	12	**XSTRNW10HL**
15	L	PN 250	G 1/2" -14	14	45	21.5	21.5	30	32	26	15	**XSTRNW13HL**
18	L	PN 250	G 1/2" -14	14	45	21.5	21.0	30	32	26	18	**XSTRNW16HL**
22	L	PN 160	G 3/4" -14	16	53	24.0	27.5	36	41	32	22	**XSTRNW20HL**
28	L	PN 160	G 1" -11	18	66	30.5	32.0	46	50	39	28	**XSTRNW25HL**
35	L	PN 160	G 1.1/4" -11	20	76	35.5	36.0	55	60	49	35	**XSTRNW32HL**

Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm		mm	mm	mm	
42	L	PN 160	G 1.1/2" -11	22	87	40.5	40.5	60	70	55	42	**XSTRNW40HL**
6	S	PN 315	G 1/4" -19	12	30	14.0	16.5	19	22	18	6	**XSTRNW03HS**
8	S	PN 315	G 1/4" -19	12	30	14.0	16.5	19	22	18	8	**XSTRNW04HS**
10	S	PN 315	G 3/8" -19	12	36	16.5	18.5	24	27	22	10	**XSTRNW06HS**
12	S	PN 315	G 3/8" -19	12	36	16.5	18.5	24	27	22	12	**XSTRNW08HS**
14	S	PN 315	G 1/2" -14	14	45	21.5	22.5	30	32	26	14	**XSTRNW10HS**
16	S	PN 315	G 1/2" -14	14	45	21.5	22.0	30	32	26	16	**XSTRNW13HS**
20	S	PN 160	G 3/4" -14	16	53	24.0	26.5	36	41	32	20	**XSTRNW16HS**
25	S	PN 160	G 1" -11	18	66	30.5	31.5	46	50	39	25	**XSTRNW20HS**
30	S	PN 160	G 1.1/4" -11	20	76	35.5	37.0	55	60	49	30	**XSTRNW25HS**
38	S	PN 160	G 1.1/2" -11	22	87	40.5	41.5	60	70	55	38	**XSTRNW32HS**

Banjo fitting, ISO 8434-1, AGR, low pressure, CEL/CES 24°, elbow 90°, steel



Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone

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Series	Working pressure	G	i	L1	L2	L4	L7	S1	SW	Ø D	Ø d2	Item no.
			mm	mm	mm	mm	mm		mm	mm	mm	
L	PN 250	G 1/8" -28	8	24	10.5	12.0	19.0	17	17	14	6	**XSDRNW04HL**
L	PN 250	G 1/4" -19	12	30	14.0	14.5	21.5	19	22	18	6	**XSDRNW04HL1/4**
L	PN 250	G 1/4" -19	12	30	14.0	14.5	21.5	19	22	18	8	**XSDRNW06HL**
L	PN 250	G 1/4" -19	12	30	14.0	15.5	22.5	19	22	18	10	**XSDRNW08HL**
L	PN 250	G 1/4" -19	12	30	14.0	15.5	22.5	19	22	18	12	**XSDRNW10HL1/4**
L	PN 250	G 3/8" -19	12	36	16.5	18.0	25.0	24	27	22	12	**XSDRNW10HL**
L	PN 250	G 1/2" -14	14	45	21.5	20.5	28.5	30	32	26	12	**XSDRNW10HL1/2**
L	PN 250	G 1/2" -14	14	45	21.5	21.5	28.5	30	32	26	15	**XSDRNW13HL**
L	PN 250	G 1/2" -14	14	45	21.5	21.0	28.5	30	32	26	18	**XSDRNW16HL**
L	PN 160	G 3/4" -14	16	53	24.0	27.5	35.0	36	41	32	22	**XSDRNW20HL**
L	PN 160	G 1" -11	18	66	30.5	32.0	39.5	46	50	39	28	**XSDRNW25HL**
L	PN 160	G 1.1/4" -11	20	76	35.5	36.0	46.5	55	60	49	35	**XSDRNW32HL**
L	PN 160	G 1.1/2" -11	22	87	40.5	40.5	51.5	60	70	55	42	**XSDRNW40HL**
S	PN 315	G 1/4" -19	12	30	14.0	16.5	23.5	19	22	18	6	**XSDRNW03HS**
S	PN 315	G 1/4" -19	12	30	14.0	16.5	23.5	19	22	18	8	**XSDRNW04HS**
S	PN 315	G 3/8" -19	12	36	16.5	18.5	26.0	24	27	22	10	**XSDRNW06HS**
S	PN 315	G 3/8" -19	12	36	16.5	18.5	26.0	24	27	22	12	**XSDRNW08HS**
S	PN 315	G 1/2" -14	14	45	21.5	22.5	30.5	30	32	26	14	**XSDRNW10HS**
S	PN 315	G 1/2" -14	14	45	21.5	22.0	30.5	30	32	26	16	**XSDRNW13HS**
S	PN 160	G 3/4" -14	16	53	24.0	26.5	37.0	36	41	32	20	**XSDRNW16HS**
S	PN 160	G 1" -11	18	66	30.5	31.5	43.5	46	50	39	25	**XSDRNW20HS**
S	PN 160	G 1.1/4" -11	20	76	35.5	37.0	50.5	55	60	49	30	**XSDRNW25HS**
S	PN 160	G 1.1/2" -11	22	87	40.5	41.5	57.5	60	70	55	38	**XSDRNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGR, low pressure, CEL/CES 24°, elbow 90°, stainless steel, XSDR VA **...XSDRVA**

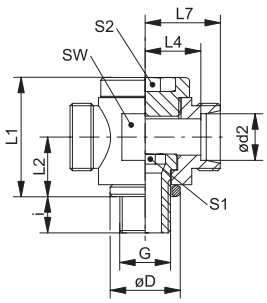




Banjo fitting, ISO 8434-1, AGR, OR, high pressure CEL/CES 24°, steel

Connection 1: BSPP male thread, cylindric
Construction type: banjo coupling, throttle free
Sealing form 1: edge sealing ring
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Banjo fitting, ISO 8434-1, AGR, OR, high pressure CEL/CES 24°, elbow 90°, steel

Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 2 + 3: 24° inner cone

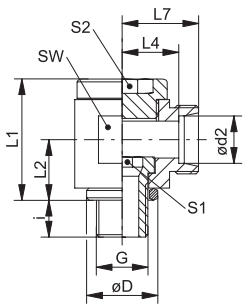
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Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	S2	SW	Ø d2	Item no.
mm				mm	mm	mm	mm			mm	mm	
6	L	PN 160	G 1/8" -28	8	24	12	12.0	6	6	19	6	**XDTRNW04HL**
8	L	PN 160	G 1/4" -19	12	30	15	14.0	8	8	22	8	**XDTRNW06HL**
10	L	PN 100	G 1/4" -19	12	30	15	15.0	8	8	22	10	**XDTRNW08HL**
12	L	PN 100	G 3/8" -19	12	36	18	17.5	10	10	27	12	**XDTRNW10HL**
15	L	PN 100	G 1/2" -14	14	40	20	20.0	12	12	30	15	**XDTRNW13HL**
18	L	PN 100	G 1/2" -14	14	40	20	19.5	12	12	30	18	**XDTRNW16HL**
22	L	PN 100	G 3/4" -14	16	52	25	27.0	17	17	41	22	**XDTRNW20HL**
28	L	PN 100	G 1" -11	18	58	29	29.5	22	22	46	28	**XDTRNW25HL**
35	L	PN 63	G 1.1/4" -11	20	69	34	33.0	27	27	55	35	**XDTRNW32HL**
42	L	PN 63	G 1.1/2" -11	22	84	41	40.0	32	32	70	42	**XDTRNW40HL**
6	S	PN 160	G 1/4" -19	12	30	15	16.0	8	8	22	6	**XDTRNW03HS**
8	S	PN 160	G 1/4" -19	12	30	15	16.0	8	8	22	8	**XDTRNW04HS**
10	S	PN 100	G 3/8" -19	12	36	18	18.0	10	10	27	10	**XDTRNW06HS**
12	S	PN 100	G 3/8" -19	12	36	18	24.0	10	10	27	12	**XDTRNW08HS**
14	S	PN 100	G 1/2" -14	14	42	21	22.0	12	12	32	14	**XDTRNW10HS**
16	S	PN 100	G 1/2" -14	14	42	21	21.5	12	12	32	16	**XDTRNW13HS**
20	S	PN 100	G 3/4" -14	16	57	28	28.5	17	17	46	20	**XDTRNW16HS**
25	S	PN 100	G 1" -11	18	62	31	31.0	22	22	50	25	**XDTRNW20HS**
30	S	PN 63	G 1.1/4" -11	20	74	36	36.5	27	27	60	30	**XDTRNW25HS**
38	S	PN 63	G 1.1/2" -11	22	84	41	41.0	32	32	70	38	**XDTRNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGR, OR, high pressure, CEL/CES 24°, elbow 90°, stainless steel, **...XDTRVA**
XDTR VA

Banjo fitting, ISO 8434-1, AGR, OR, high pressure CEL/CES 24°, T form, steel



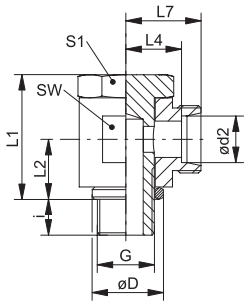
Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 2: 24° inner cone

www ...XDWR

Tube outer Ø	Series	Working pressure	G	i	L1	L2	L4	S1	S2	SW	Ø d2	Item no.
mm				mm	mm	mm	mm			mm	mm	
6	L	PN 160	G 1/8" -28	8	24	12	12.5	6	6	19	6	**XDWRNW04HL**
8	L	PN 160	G 1/4" -19	12	30	16	14.5	8	8	22	8	**XDWRNW06HL**
10	L	PN 100	G 1/4" -19	12	30	16	15.5	8	8	22	10	**XDWRNW08HL**
12	L	PN 100	G 1/4" -19	12	37	18	15.5	8	8	22	12	**XDWRNW10HL1/4**
12	L	PN 100	G 3/8" -19	12	37	18	18.0	10	10	27	12	**XDWRNW10HL**
15	L	PN 100	G 1/2" -14	14	42	21	22.0	12	12	32	15	**XDWRNW13HL**
18	L	PN 100	G 1/2" -14	14	46	23	21.5	12	12	36	18	**XDWRNW16HL**
22	L	PN 100	G 3/4" -14	16	58	28	28.5	17	17	46	22	**XDWRNW20HL**
28	L	PN 100	G 1" -11	18	64	32	31.5	22	22	50	28	**XDWRNW25HL**
35	L	PN 63	G 1.1/4" -11	20	76	37	35.5	27	27	60	35	**XDWRNW32HL**
42	L	PN 63	G 1.1/2" -11	22	85	42	40.0	32	32	70	42	**XDWRNW40HL**
6	S	PN 160	G 1/4" -19	12	30	16	16.5	8	8	22	6	**XDWRNW03HS**
8	S	PN 160	G 1/4" -19	12	30	16	16.5	8	8	22	8	**XDWRNW04HS**
10	S	PN 100	G 3/8" -19	12	37	18	18.5	10	10	27	10	**XDWRNW06HS**
12	S	PN 100	G 3/8" -19	12	37	18	18.5	10	10	27	12	**XDWRNW08HS**
14	S	PN 100	G 1/2" -14	14	42	21	23.0	12	12	32	14	**XDWRNW10HS**
16	S	PN 100	G 1/2" -14	14	46	23	22.5	12	12	36	16	**XDWRNW13HS**
20	S	PN 100	G 3/4" -14	16	58	28	27.5	17	17	46	20	**XDWRNW16HS**
25	S	PN 100	G 1" -11	18	64	32	31.0	22	22	50	25	**XDWRNW20HS**
30	S	PN 63	G 1.1/4" -11	20	76	37	36.5	27	27	60	30	**XDWRNW25HS**
38	S	PN 63	G 1.1/2" -11	22	85	42	41.0	32	32	70	38	**XDWRNW32HS**

Product variants:

Banjo fitting, ISO 8434-1, AGR, OR, high pressure, CEL/CES 24°, T-shaped, stainless steel, **...XDWRVA**
XDWR VA



Banjo fitting, ISO 8434-1, AGR, low pressure, CELL, CEL 24°, elbow 90°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: banjo fitting
Type: angle 90°
Sealing form 1: edge sealing ring
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

1

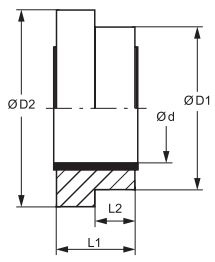
...XSWR

Tube outer Ø	Series	Working pressure	G	i	L1	L2	L7	S1	SW	Ø D	Ø d2	Item no.
mm				mm	mm	mm	mm		mm	mm	mm	
4	LL	PN 100	G 1/8" -28	6	21.0	10.0	15.5	14	14	14.5	4	**XSWR04LL**
5	LL	PN 100	G 1/8" -28	6	21.5	10.0	14.5	14	14	14.5	5	**XSWR05LL**
6	LL	PN 100	G 1/8" -28	6	21.5	10.0	14.5	14	14	14.5	6	**XSWR06LL**
8	LL	PN 100	G 1/8" -28	6	21.0	10.0	16.5	14	14	14.5	8	**XSWR08LL**
15	L	PN 250	G 3/8" -19	9	38	18.5	24.5	24	24	22	15	**XSWRNW13HL3/8**

Product variants:

Banjo fitting, ISO 8434-1, AGR, low pressure, CELL, CEL 24°, elbow 90°, stainless steel, XSWR VA **...XSWRVA**





Sealing edge ring with elastomer insert

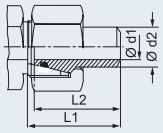
Construction type: sealing rings with elastomer insert
Surface: electro galvanised
Material: steel

...KDS

For thread (metric)	For thread (inches)	L1	L2	Ø d	Ø D1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
M 10 x 1	G 1/8"	4.0	1.5	10.0	14.9	18.0	**KDS10-1R1/8**
M 12 x 1.5	-	5.0	2.0	12.0	17.9	22.0	**KDS12-1.5**
M 14 x 1.5	G 1/4"	3.0	1.6	14.3	18.9	20.0	**KDS14-1.5R1/4**
M 16 x 1.5	G 3/8"	3.0	2.1	17.0	21.9	24.0	**KDS16-1.5R3/8**
M 18 x 1.5	-	5.0	2.5	18.0	23.9	23.9	**KDS18-1.5**
M 22 x 1.5	G 1/2"	4.5	2.6	22.3	26.9	30.0	**KDS22-1.5R1/2**
M 26 x 1.5	-	5.0	3.0	26.0	31.9	39.0	**KDS26-1.5**
M 27 x 2	G 3/4"	3.5	2.6	27.3	32.9	38.0	**KDS27-2R3/4**
M 33 x 2	G 1"	7.0	3.0	33.3	39.9	46.0	**KDS33-2R1**
M 42 x 2	G 1.1/4"	7.0	3.0	42.0	49.9	49.9	**KDS42-2R11/4**
M 45 x 2	G 1.1/2"	7.0	3.0	48.0	55.9	64.0	**KDS48-2R11/2**

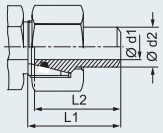
Weld-on fittings

Weld-on fittings



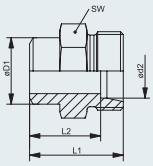
Weld-on fitting, ISO 8434-1, DKOL 24°, metric tube, straight, steel

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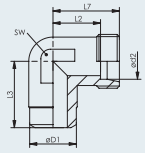
Weld-on fitting, ISO 8434-1, DKOS 24°, metric tube, straight, steel

SADKO Page 149



Weld-on fitting, ISO 8434-1, CEL/CES 24°, metric tube, straight, steel

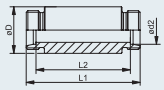
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Weld-on fitting, ISO 8434-1, CEL/CES 24°, metric tube, elbow 90°, steel

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Bulkhead connectors



Bulkhead connector, weld on, ISO 8434-1, CEL/CES 24°, steel

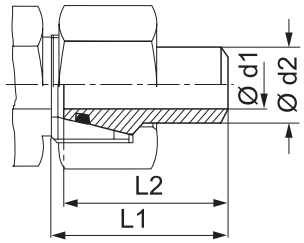
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Weld on fitting, ISO 8434-1, DKOL / DKOS 24°, metric tube, steel

Connection 1: welded on socket for metric tube
Construction type: welded on sealing cone
Type: straight
Sealing form 2: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: phosphate treated and oiled (Znphr5f)
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Weld-on fitting, ISO 8434-1, DKOL 24°, metric tube, straight, steel

Standard: ISO 8434-1

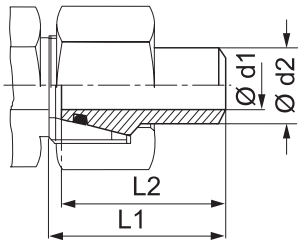
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Tube outer Ø	Series	Working pressure	OR	L1	L2	Ø d1	Ø d2	Item no.
mm				mm	mm	mm	mm	
6	L	PN 315	4.0 x 1.5	32.0	30.5	4	6	**SANW04DKOL1**
8	L	PN 315	6.0 x 1.5	32.0	30.5	6	8	**SANW06DKOL1**
10	L	PN 249	7.5 x 1.5	33.5	32.5	8	10	**SANW08DKOL1**
12	L	PN 315	9.0 x 1.5	33.5	32.5	9	12	**SANW10DKOL1.5**
15	L	PN 315	12.0 x 2.0	35.0	34.5	10	15	**SANW13DKOL2.5**
18	L	PN 315	15.0 x 2.0	37.0	36.0	13	18	**SANW16DKOL2.5**
22	L	PN 160	20.0 x 2.0	39.5	37.5	17	22	**SANW20DKOL2.5**
28	L	PN 160	26.0 x 2.0	42.5	41.0	23	28	**SANW25DKOL2.5**
28	L	PN 160	26.0 x 2.0	42.5	41.0	22	28	**SANW25DKOL3**
35	L	PN 160	32.0 x 2.5	49.4	47.0	29	35	**SANW32DKOL3**
35	L	PN 160	32.0 x 2.5	49.5	47.0	28	35	**SANW32DKOL3.5**
42	L	PN 129	38.0 x 2.5	50.0	47.0	38	42	**SANW40DKOL2**
42	L	PN 160	38.0 x 2.5	50.0	47.0	36	42	**SANW40DKOL3**

Product variants:

Weld-on fitting, ISO 8434-1, DKOL 24°, metric tube, straight, stainless steel, SA DKOL VA	**...SADKOLVA**

Weld-on fitting, ISO 8434-1, DKOS 24°, metric tube, straight, steel



Standard: ISO 8434-1

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Tube outer Ø	Series	Working pressure	OR	L1	L2	Ø d1	Ø d2	Item no.
mm				mm	mm	mm	mm	
6	S	PN 528	4.0 x 1.5	32.5	31.0	3	6	**SANW03DKO1.5**
8	S	PN 414	6.0 x 1.5	32.0	30.0	5	8	**SANW04DKO1.5**
8	S	PN 528	6.0 x 1.5	31.5	31.0	4	8	**SANW04DKO2**
10	S	PN 249	7.5 x 1.5	33.5	32.5	8	10	**SANW06DKO1**
10	S	PN 358	7.5 x 1.5	33.5	31.5	7	10	**SANW06DKO1.5**
10	S	PN 460	7.5 x 1.5	33.5	31.5	6	10	**SANW06DKO2**
12	S	PN 305	9.0 x 1.5	33.5	31.5	9	12	**SANW08DKO1.5**
12	S	PN 393	9.0 x 1.5	33.5	31.5	8	12	**SANW08DKO2**
12	S	PN 476	9.0 x 1.5	33.5	31.5	7	12	**SANW08DKO2.5**
12	S	PN 551	9.0 x 1.5	33.5	32.5	6	12	**SANW08DKO3**
14	S	PN 343	10.0 x 2.0	40.0	37.5	10	14	**SANW10DKO2**
14	S	PN 487	10.0 x 2.0	39.5	38.5	8	14	**SANW10DKO3**
16	S	PN 234	12.0 x 2.0	40.5	37.5	13	16	**SANW13DKO1.5**
16	S	PN 305	12.0 x 2.0	40.5	37.5	12	16	**SANW13DKO2**
16	S	PN 372	12.0 x 2.0	40.5	37.5	11	16	**SANW13DKO2.5**
16	S	PN 400	12.0 x 2.0	40.5	37.5	10	16	**SANW13DKO3**
20	S	PN 249	16.3 x 2.4	47.0	43.5	16	20	**SANW16DKO2**
20	S	PN 305	16.3 x 2.4	46.5	43.0	15	20	**SANW16DKO2.5**
20	S	PN 358	16.3 x 2.4	46.5	43.0	14	20	**SANW16DKO3**
20	S	PN 400	16.3 x 2.4	47.5	43.5	13	20	**SANW16DKO3.5**
20	S	PN 400	16.3 x 2.4	46.5	43.0	12	20	**SANW16DKO4**
25	S	PN 201	20.3 x 2.4	53.0	48.0	21	25	**SANW20DKO2**
25	S	PN 294	20.3 x 2.4	53.0	48.0	19	25	**SANW20DKO3**
25	S	PN 379	20.3 x 2.4	53.0	48.0	17	25	**SANW20DKO4**
25	S	PN 400	20.3 x 2.4	53.0	48.0	15	25	**SANW20DKO5**
30	S	PN 249	25.3 x 2.4	57.5	51.5	24	30	**SANW25DKO3**
30	S	PN 323	25.3 x 2.4	57.5	51.5	22	30	**SANW25DKO4**
30	S	PN 393	25.3 x 2.4	57.5	51.5	20	30	**SANW25DKO5**
30	S	PN 400	25.3 x 2.4	57.0	52.0	18	30	**SANW25DKO6**
38	S	PN 261	33.3 x 2.4	64.0	55.0	30	38	**SANW32DKO4**
38	S	PN 315	33.3 x 2.4	64.0	55.0	28	38	**SANW32DKO5**
38	S	PN 315	33.3 x 2.4	64.0	55.0	26	38	**SANW32DKO6**
38	S	PN 315	33.3 x 2.4	64.0	56.5	24	38	**SANW32DKO7**

Product variants:

Weld-on fitting, ISO 8434-1, DKOS 24°, metric tube, straight, stainless steel, SA DKO VA **...SADKOVA**



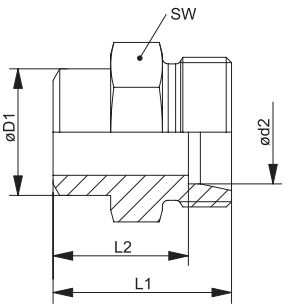


Weld on fitting, ISO 8434-1, CEL/CES 24°, metric tube, steel

Connection 1: welded on socket for metric tube
Connection 2: metric cylindrical outer thread
Construction type: welded on fitting
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1
Surface: phosphate treated and oiled (Znphr5f)
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Weld-on fitting, ISO 8434-1, CEL/CES 24°, metric tube, straight, steel

Type: straight
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

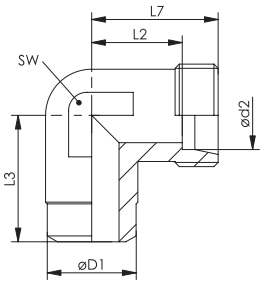
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Tube outer Ø	Series	Working pressure	L1	L2	SW	Ø D1	Ø d2	Item no.
mm			mm	mm	mm	mm	mm	
6	L	PN 315	21	14.0	14	10	6	**XSANW04HL**
8	L	PN 315	23	16.0	14	12	8	**XSANW06HL**
10	L	PN 315	25	18.0	17	14	10	**XSANW08HL**
12	L	PN 315	25	18.0	19	16	12	**XSANW10HL**
15	L	PN 315	29	22.0	22	19	15	**XSANW13HL**
18	L	PN 315	31	23.5	27	22	18	**XSANW16HL**
22	L	PN 160	36	28.5	32	27	22	**XSANW20HL**
28	L	PN 160	38	30.5	41	32	28	**XSANW25HL**
35	L	PN 160	43	32.5	46	40	35	**XSANW32HL**
42	L	PN 160	46	35.0	55	46	42	**XSANW40HL**
6	S	PN 630	26	19.0	14	11	6	**XSANW03HS**
8	S	PN 630	28	21.0	17	13	8	**XSANW04HS**
10	S	PN 630	30	22.5	19	15	10	**XSANW06HS**
12	S	PN 630	32	24.5	22	17	12	**XSANW08HS**
14	S	PN 630	35	27.0	24	19	14	**XSANW10HS**
16	S	PN 400	35	26.5	27	21	16	**XSANW13HS**
20	S	PN 400	40	29.5	32	26	20	**XSANW16HS**
25	S	PN 400	44	32.0	41	31	25	**XSANW20HS**
30	S	PN 400	49	35.5	46	36	30	**XSANW25HS**
38	S	PN 315	54	38.0	55	44	38	**XSANW32HS**

Product variants:

Weld-on fitting, ISO 8434-1, CEL/CES 24°, metric tube, straight, stainless steel, XSA VA	**...XSAVA**

Weld-on fitting, ISO 8434-1, CEL/CES 24°, metric tube, elbow 90°, steel



Type: angle 90°
Scope of supply: connector without union nut and cutting ring
Standard: ISO 8434-1

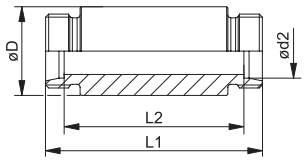
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Series	Working pressure	L2	L3	SW	Ø D1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
L	PN 315	12.0	19	12	10	6	**XWSANW04HL**
L	PN 315	14.0	23	12	12	8	**XWSANW06HL**
L	PN 315	15.0	24	14	14	10	**XWSANW08HL**
L	PN 315	17.0	25	17	16	12	**XWSANW10HL**
L	PN 315	21.0	30	19	19	15	**XWSANW13HL**
L	PN 315	23.5	33	24	22	18	**XWSANW16HL**
L	PN 160	27.5	37	27	27	22	**XWSANW20HL**
L	PN 160	30.5	42	36	32	28	**XWSANW25HL**
L	PN 160	34.5	49	41	40	35	**XWSANW32HL**
L	PN 160	40.0	57	50	46	42	**XWSANW40HL**
S	PN 630	16.0	23	12	11	6	**XWSANW03HS**
S	PN 630	17.0	24	14	13	8	**XWSANW04HS**
S	PN 630	17.5	25	17	15	10	**XWSANW06HS**
S	PN 630	21.5	29	17	17	12	**XWSANW08HS**
S	PN 630	22.0	30	19	19	14	**XWSANW10HS**
S	PN 400	24.5	33	24	21	16	**XWSANW13HS**
S	PN 400	26.5	37	27	26	20	**XWSANW16HS**
S	PN 400	30.0	42	36	31	25	**XWSANW20HS**
S	PN 400	35.5	49	41	36	30	**XWSANW25HS**
S	PN 315	41.0	57	50	44	38	**XWSANW32HS**

Product variants:

Weld-on fitting, ISO 8434-1, CEL/CES 24°, metric tube, elbow 90°, stainless steel, XWSA VA	**...XWSAVA**

Bulkhead connector, weld on, ISO 8434-1, CEL/CES 24°, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: bulkhead socket weld fitting
Type: straight
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Surface: phosphate treated and oiled (Znphr5f)
Material: steel

www ...XSE

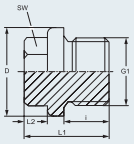
Tube outer Ø	Series	Working pressure	L1	L2	Ø D	Ø d2	Item no.
mm			mm	mm	mm	mm	
6	L	PN 315	70	56	18.0	6	**XSENW04HL**
8	L	PN 315	70	56	20.0	8	**XSENW06HL**
10	L	PN 315	72	58	22.0	10	**XSENW08HL**
12	L	PN 315	72	58	25.0	12	**XSENW10HL**
15	L	PN 315	84	70	28.0	15	**XSENW13HL**
18	L	PN 315	84	69	32.0	18	**XSENW16HL**
22	L	PN 160	88	73	36.0	22	**XSENW20HL**
28	L	PN 160	88	73	40.0	28	**XSENW25HL**
35	L	PN 160	92	71	50.0	35	**XSENW32HL**
42	L	PN 160	92	70	60.0	42	**XSENW40HL**
6	S	PN 630	74	60	20.0	6	**XSENW03HS**
8	S	PN 630	74	60	22.0	8	**XSENW04HS**
10	S	PN 630	74	59	25.0	10	**XSENW06HS**
12	S	PN 630	74	59	28.0	12	**XSENW08HS**
14	S	PN 630	88	72	30.0	14	**XSENW10HS**
16	S	PN 400	88	71	35.0	16	**XSENW13HS**
20	S	PN 400	92	71	38.0	20	**XSENW16HS**
25	S	PN 400	96	72	45.0	25	**XSENW20HS**
30	S	PN 400	100	73	50.0	30	**XSENW25HS**
38	S	PN 315	104	72	60.0	38	**XSENW32HS**

Product variants:

Bulkhead connector, weld on, ISO 8434-1, CEL/CES 24°, stainless steel, XSE VA **...XSEVA**

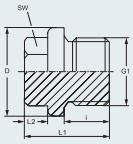
Plugs

Plug screws, hexagon head



Plug screw, DIN 910, hexagon head, AGM, steel

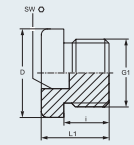
FHM91 Page 154



Plug screw, DIN 910, hexagon head, AGR, steel

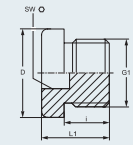
FHR91 Page 154

Plug screws, hexagon socket



Plug screw, DIN 908, hexagon socket, AGM, steel

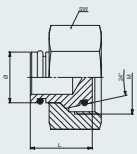
FHM90 Page 155



Plug screw, DIN 908, hexagon socket, AGR, steel

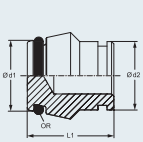
FHR90 Page 155

Plug screws



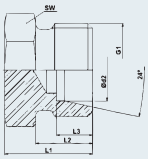
Plug, ISO 8434-1, DKOL/DKOS 24°, steel

VLM/VSM Page 156



Plug, without tube nut, ISO 8434-1, L/S, steel

BZL/BZS Page 156



Plug, ISO 8434-1, CELL/CEL/CES 24°, steel

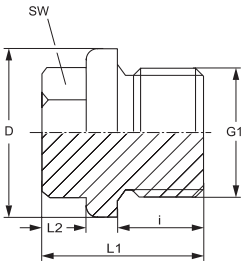
XVHLL/XVHL/XVHS Page 157



Plug screw, DIN 910, hexagon head, AGM, steel

Connection 1: metric cylindrical outer thread
Construction type: blanking screw, with hexagon head
Type: straight
Sealing form 1: type A
Standard: DIN 910
Surface: electro galvanised
Material: steel

www ...FHM91



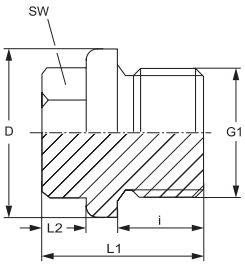
D	G1	i	L1	L2	SW	Item no.
mm		mm	mm	mm	mm	
14	M 8 x 1	8	17	6	10	FHM91-8
14	M 10 x 1	8	17	6	10	FHM91-10
17	M 12 x 1.5	12	21	6	13	FHM91-12
19	M 14 x 1.5	12	21	6	13	FHM91-14
19	M 16 x 1.5	12	21	6	13	FHM91-16
23	M 18 x 1.5	12	24	8	17	FHM91-18
25	M 20 x 1.5	14	26	8	19	FHM91-20
27	M 22 x 1.5	14	26	8	19	FHM91-22
29	M 24 x 1.5	14	27	9	22	FHM91-24
31	M 26 x 1.5	16	30	10	24	FHM91-26
36	M 30 x 1.5	16	30	10	24	FHM91-30-1.5
44	M 38 x 1.5	16	32	11	27	FHM91-38-1.5
49	M 45 x 1.5	16	33	12	30	FHM91-45-1.5
60	M 52 x 1.5	16	33	12	30	FHM91-52-1.5



Plug screw, DIN 910, hexagon head, AGR, steel

Connection 1: BSPP male thread, cylindric
Construction type: blanking screw, with hexagon head
Type: straight
Sealing form 1: type A
Standard: DIN 910
Surface: electro galvanised
Material: steel

www ...FHR91



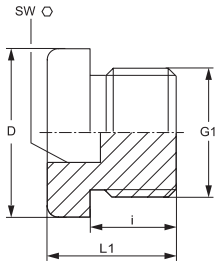
D	G1	i	L1	L2	SW	Item no.
mm		mm	mm	mm	mm	
14	G 1/8" -28	8	17	6	10	FHR91-1/8
18	G 1/4" -19	12	21	6	13	FHR91-1/4
22	G 3/8" -19	12	21	6	17	FHR91-3/8
26	G 1/2" -14	14	26	8	19	FHR91-1/2
28	G 5/8" -14	14	26	8	19	FHR91-5/8
32	G 3/4" -14	16	30	10	24	FHR91-3/4
39	G 1" -11	16	32	11	27	FHR91-1
49	G 1.1/4" -11	16	33	12	30	FHR91-11/4
55	G 1.1/2" -11	16	33	12	30	FHR91-11/2

Plug screw, DIN 908, hexagon socket, AGM, steel



Connection 1: metric cylindrical outer thread
Construction type: blanking screw, with hexagon socket
Type: straight
Sealing form 1: type A
Standard: DIN 908
Surface: electro galvanised
Material: steel

www ...FHM90



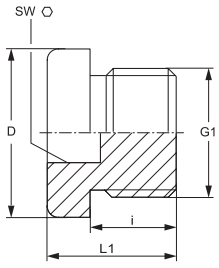
D	G1	i	L1	SW	Item no.
mm		mm	mm	mm	
14	M 10 x 1	8	11	5	FHM90-10
17	M 12 x 1.5	12	15	6	FHM90-12
19	M 14 x 1.5	12	15	6	FHM90-14
21	M 16 x 1.5	12	15	8	FHM90-16
23	M 18 x 1.5	12	16	8	FHM90-18
25	M 20 x 1.5	14	18	10	FHM90-20
27	M 22 x 1.5	14	18	10	FHM90-22
29	M 24 x 1.5	14	18	12	FHM90-24
31	M 26 x 1.5	16	20	12	FHM90-26
36	M 30 x 1.5	16	20	17	FHM90-30-1.5
42	M 36 x 1.5	16	21	19	FHM90-36-1.5
49	M 42 x 1.5	16	21	22	FHM90-42-1.5
55	M 48 x 1.5	16	21	24	FHM90-48-1.5
60	M 52 x 1.5	16	21	24	FHM90-52-1.5

Plug screw, DIN 908, hexagon socket, AGR, steel

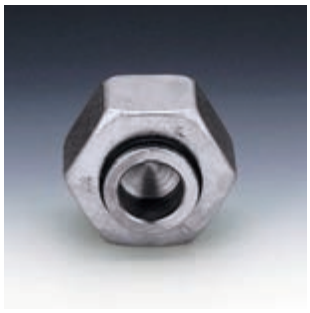


Connection 1: BSPP male thread, cylindric
Construction type: blanking screw, with hexagon socket
Type: straight
Sealing form 1: type A
Standard: DIN 908
Surface: electro galvanised
Material: steel

www ...FHR90



D	G1	i	L1	SW	Item no.
mm		mm	mm	mm	
14	G 1/8" -28	8	11	5	FHR90-1/8
18	G 1/4" -19	12	15	6	FHR90-1/4
22	G 3/8" -19	12	15	8	FHR90-3/8
26	G 1/2" -14	14	18	10	FHR90-1/2
28	G 5/8" -14	14	18	12	FHR90-5/8
32	G 3/4" -14	16	20	12	FHR90-3/4
39	G 1" -11	16	21	17	FHR90-1
49	G 1.1/4" -11	16	21	22	FHR90-11/4
55	G 1.1/2" -11	16	21	24	FHR90-11/2
68	G 2" -11	20	25	32	FHR90-2

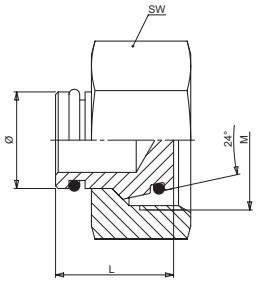


Plug, ISO 8434-1, DKOL/DKOS 24°, steel

Connection 1: metric nut thread
Construction type: blanking nut
Type: straight
Sealing form 1: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

www ...VLM/VSM



Tube outer Ø	Series	Working pressure	OR	l	M	SW	Item no.
mm				mm		mm	
6	L	PN 400	4.0 x 1.5	18.5	M 12 x 1.5	14	**VLMNW04**
8	L	PN 400	6.0 x 1.5	18.0	M 14 x 1.5	17	**VLMNW06**
10	L	PN 400	7.5 x 1.5	19.5	M 16 x 1.5	19	**VLMNW08**
12	L	PN 400	9.0 x 1.5	19.0	M 18 x 1.5	22	**VLMNW10**
15	L	PN 400	12.0 x 2.0	19.0	M 22 x 1.5	27	**VLMNW13**
18	L	PN 315	15.0 x 2.0	22.0	M 26 x 1.5	32	**VLMNW16**
22	L	PN 315	20.0 x 2.0	22.0	M 30 x 2	36	**VLMNW20**
28	L	PN 250	26.0 x 2.0	23.5	M 36 x 2	41	**VLMNW25**
35	L	PN 250	32.0 x 2.5	27.0	M 45 x 2	50	**VLMNW32**
42	L	PN 250	38.0 x 2.5	27.5	M 52 x 2	60	**VLMNW40**
6	S	PN 630	4.0 x 1.5	18.5	M 14 x 1.5	17	**VSMNW03**
8	S	PN 630	6.0 x 1.5	18.0	M 16 x 1.5	19	**VSMNW04**
10	S	PN 630	7.5 x 1.5	19.5	M 18 x 1.5	22	**VSMNW06**
12	S	PN 630	9.0 x 1.5	19.0	M 20 x 1.5	24	**VSMNW08**
14	S	PN 630	10.0 x 2.0	21.0	M 22 x 1.5	27	**VSMNW10**
16	S	PN 400	12.0 x 2.0	22.0	M 24 x 1.5	30	**VSMNW13**
20	S	PN 400	16.0 x 2.5	26.5	M 30 x 2	36	**VSMNW16**
25	S	PN 400	20.0 x 2.5	27.5	M 36 x 2	46	**VSMNW20**
30	S	PN 400	25.0 x 2.5	28.5	M 42 x 2	50	**VSMNW25**
38	S	PN 315	33.0 x 2.5	32.5	M 52 x 2	60	**VSMNW32**

Product variants:

Plug, ISO 8434-1, DKOL/DKOS 24°, stainless steel, VLM VA / VSM VA	**...VLMVA/VSMVA**

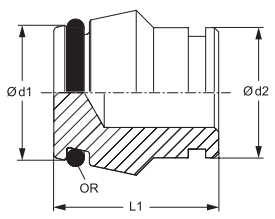


Plug, without tube nut, ISO 8434-1, L/S, steel

Construction type: blanking plug without union nut
Type: straight
Sealing form 1: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

www ...BZL/BZS



Series	Working pressure	OR	L1	Ø d1	Ø d2	Item no.
			mm	mm	mm	
L	PN 315	4.0 x 1.5	18.5	6.6	6	**BZLNW04**
L	PN 315	6.0 x 1.5	18.0	8.5	8	**BZLNW06**
L	PN 315	7.5 x 1.5	19.5	10.6	10	**BZLNW08**
L	PN 315	9.0 x 1.5	19.0	12.6	12	**BZLNW10**
L	PN 315	12.0 x 2.0	19.0	15.5	15	**BZLNW13**
L	PN 315	15.0 x 2.0	22.0	18.6	18	**BZLNW16**
L	PN 160	20.0 x 2.0	22.0	22.6	22	**BZLNW20**
L	PN 160	26.0 x 2.0	23.5	28.5	28	**BZLNW25**
L	PN 160	32.0 x 2.5	27.0	36.0	35	**BZLNW32**

Series	Working pressure	OR	L1	Ø d1	Ø d2	Item no.
			mm	mm	mm	
L	PN 160	38.0 x 2.5	27.5	43.0	42	**BZLNW40**
S	PN 630	10.0 x 2.0	21.0	14.5	14	**BZSNW10**
S	PN 400	12.0 x 2.0	22.0	16.5	16	**BZSNW13**
S	PN 400	16.3 x 2.4	26.5	20.9	20	**BZSNW16**
S	PN 400	20.3 x 2.4	27.5	25.9	25	**BZSNW20**
S	PN 400	25.3 x 2.4	28.5	31.0	30	**BZSNW25**
S	PN 315	33.3 x 2.4	32.5	39.0	38	**BZSNW32**

Product variants:	
Plug, without tube nut, ISO 8434-1, L/S, brass, BZL / BZS MG	**...BZL/BZSMG**
Plug, without tube nut, ISO 8434-1, L/S, stainless steel, BZL VA / BZS VA	**...BZLVA/BZSVA**

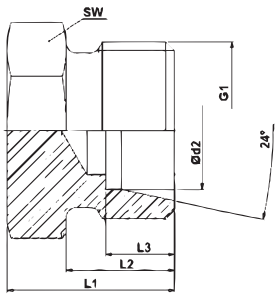
Plug, ISO 8434-1, CELL/CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Construction type: blanking socket
Type: straight
Sealing form 1: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Standard: DIN 2353
ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



www ...XVHLL/XVHL/XVHS

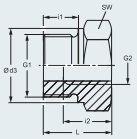


Tube outer Ø	Series	Working pressure	G1	L1	L2	L3	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	
4	LL	PN 100	M 8 x 1	12	8.0	4.0	9	4	**XVHLL04**
5	LL	PN 100	M 10 x 1	12	8.0	5.5	11	5	**XVHLL05**
6	LL	PN 100	M 10 x 1	12	8.0	5.5	11	6	**XVHLL06**
8	LL	PN 100	M 12 x 1	14	9.0	5.5	12	8	**XVHLL08**
6	L	PN 315	M 12 x 1.5	14	10.0	7.0	12	6	**XVHLNW04**
8	L	PN 315	M 14 x 1.5	15	10.0	7.0	14	8	**XVHLNW06**
10	L	PN 315	M 16 x 1.5	16	11.0	7.0	17	10	**XVHLNW08**
12	L	PN 315	M 18 x 1.5	17	11.0	7.0	19	12	**XVHLNW10**
15	L	PN 315	M 22 x 1.5	18	12.0	7.0	24	15	**XVHLNW13**
18	L	PN 315	M 26 x 1.5	19	12.0	7.5	27	18	**XVHLNW16**
22	L	PN 160	M 30 x 2	21	14.0	7.5	32	22	**XVHLNW20**
28	L	PN 160	M 36 x 2	22	14.0	7.5	41	28	**XVHLNW25**
35	L	PN 160	M 45 x 2	25	16.0	10.5	46	35	**XVHLNW32**
42	L	PN 160	M 52 x 2	27	16.0	11.0	55	42	**XVHLNW40**
6	S	PN 630	M 14 x 1.5	18	12.0	7.0	14	6	**XVHSNW03**
8	S	PN 630	M 16 x 1.5	20	12.0	7.0	17	8	**XVHSNW04**
10	S	PN 630	M 18 x 1.5	20	12.0	7.5	19	10	**XVHSNW06**
12	S	PN 630	M 20 x 1.5	22	12.0	7.5	22	12	**XVHSNW08**
14	S	PN 630	M 22 x 1.5	24	14.0	8.0	24	14	**XVHSNW10**
16	S	PN 400	M 24 x 1.5	24	14.0	8.5	27	16	**XVHSNW13**
20	S	PN 400	M 30 x 2	28	16.0	10.5	32	20	**XVHSNW16**
25	S	PN 400	M 36 x 2	32	18.0	12.0	41	25	**XVHSNW20**
30	S	PN 400	M 42 x 2	36	20.0	13.5	46	30	**XVHSNW25**
38	S	PN 315	M 52 x 2	39	22.0	16.0	55	38	**XVHSNW32**

Product variants:	
Plug, ISO 8434-1, CEL/CES 24°, stainless steel, XVHL VA / XVHS VA	**...XVHLVA/XVHSVA**

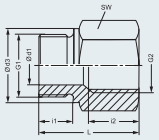
Reducing adaptors

Metric



Reducing adaptor, AGR, ISO 1179, type B, IGM, short, steel

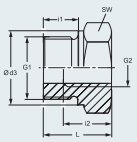
RIKM Page 159



Reducing adaptor, AGR, ISO 1179, type B, IGM, long, steel

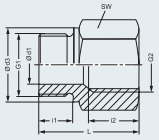
RILM Page 159

BSP



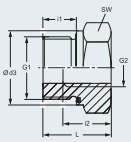
Reducing adaptor, AGR, ISO 1179, type B, IGR, short, steel

RIK Page 160



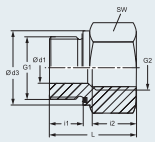
Reducing adaptor, AGR, ISO 1179, type B, IGR, long, steel

RIL Page 161



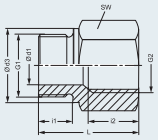
Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, short, steel

RIKED Page 162



Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, long, steel

RILED Page 163



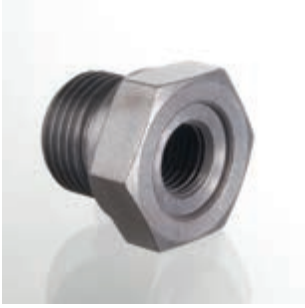
Reducing adaptor, AGR, ISO 1179, type B, IGM, long, steel

RILR-M Page 163

Reducing adaptor, AGM, DIN 3852-1, type B, IGM, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical inner thread
Construction type: reducing adapters
Sealing form 1: type B
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

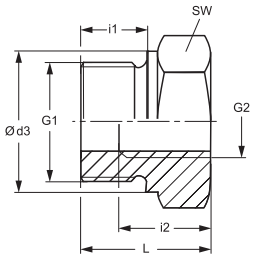




Reducing adaptor, AGR, ISO 1179, type B, IGM, short, steel

Type: short

...RIKM

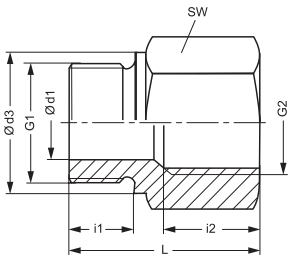


Working pressure	G1	G2	i1	i2	L	SW	d3 Ø	Item no.
			mm	mm	mm	mm	mm	
PN 400	M 14 x 1.5	M 12 x 1	12	10	20	24	19	**RIKM1412-1**
PN 400	M 16 x 1.5	M 12 x 1.5	12	10	24	27	21	**RIKM1612**
PN 400	M 16 x 1.5	M 12 x 1	12	12	24	27	27	**RIKM1612-1**
PN 400	M 22 x 1.5	M 12 x 1.5	14	12	24	27	27	**RIKM2212**
PN 400	M 22 x 1.5	M 14 x 1.5	14	12	24	27	27	**RIKM2214**

Reducing adaptor, AGR, ISO 1179, type B, IGM, long, steel

Type: long

...RILM



Working pressure	G1	G2	i1	i2	L	SW	Ø d1	d3 Ø	Item no.
			mm	mm	mm	mm	mm	mm	
PN 250	M 18 x 1.5	M 22 x 1.5	12	20	41	32	8	23	**RILM1822**



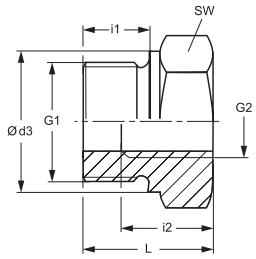


Reducing adaptor, AGR, ISO 1179, type B, IGR, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: reducing adapters
Sealing form 1: type B
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

1



Reducing adaptor, AGR, ISO 1179, type B, IGR, short, steel

Type: short
Sealing form 1: type B

www ...RIK

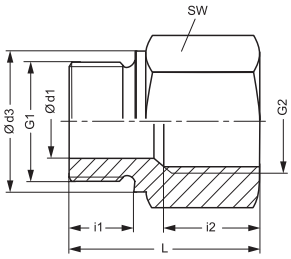
Working pressure	G1	G2	i1	i2	L	SW	d3 Ø	Item no.
			mm	mm	mm	mm	mm	
PN 400	G 3/8" -19	G 1/8" -28	12	9	22.5	22	22	**RIKNW1003**
PN 400	G 1/2" -14	G 1/8" -28	14	9	24.0	27	26	**RIKNW1303**
PN 315	G 1/2" -14	G 1/4" -19	14	13	24.0	27	26	**RIKNW1306**
PN 315	G 3/4" -14	G 1/4" -19	16	13	26.0	32	32	**RIKNW2006**
PN 315	G 3/4" -14	G 3/8" -19	16	14	26.0	32	32	**RIKNW2010**
PN 315	G 1" -11	G 1/4" -19	18	14	29.0	41	39	**RIKNW2506**
PN 315	G 1" -11	G 3/8" -19	18	14	29.0	41	39	**RIKNW2510**
PN 315	G 1" -11	G 1/2" -14	18	16	29.0	41	39	**RIKNW2513**
PN 160	G 1.1/4" -11	G 1/2" -14	20	16	32.0	50	49	**RIKNW3213**
PN 160	G 1.1/4" -11	G 3/4" -14	20	18	32.0	50	49	**RIKNW3220**
PN 160	G 1.1/2" -11	G 1/2" -14	22	16	36.0	55	55	**RIKNW4013**
PN 160	G 1.1/2" -11	G 3/4" -14	22	18	36.0	55	55	**RIKNW4020**
PN 160	G 1.1/2" -11	G 1" -11	22	20	36.0	55	55	**RIKNW4025**

Product variants:

Reducing adaptor, AGR, ISO 1179, type B, IGR, short, brass, RIK MG	**...RIKMG**
Reducing adaptor, AGR, ISO 1179, type B, IGR, short, stainless steel, RIK VA	**...RIKVA**

Reducing adaptor, AGR, ISO 1179, type B, IGR, long, steel

Type: long
Sealing form 1: type B



www ...RIL

Working pressure	G1	G2	i1	i2	L	SW	Ø d1	d3 Ø	Item no.
			mm	mm	mm	mm	mm	mm	
PN 400	G 1/8" -28	G 1/4" -19	8	17.0	31.0	19	4	14	**RILNW0306**
PN 400	G 1/8" -28	G 3/8" -19	8	17.0	32.0	24	4	14	**RILNW0310**
PN 400	G 1/4" -19	G 1/8" -28	12	12.0	28.0	19	5	18	**RILNW0603**
PN 400	G 1/4" -19	G 1/4" -19	12	17.0	35.0	19	5	18	**RILNW0606**
PN 400	G 1/4" -19	G 3/8" -19	12	17.0	36.0	24	5	18	**RILNW0610**
PN 400	G 1/4" -19	G 1/2" -14	12	20.0	40.0	27	5	18	**RILNW0613**
PN 315	G 1/4" -19	G 3/4" -14	12	22.0	43.0	36	5	18	**RILNW0620**
PN 400	G 3/8" -19	G 1/4" -19	12	17.0	36.0	22	8	22	**RILNW1006**
PN 400	G 3/8" -19	G 3/8" -19	12	17.0	35.5	24	8	22	**RILNW1010**
PN 400	G 3/8" -19	G 1/2" -14	12	20.0	41.0	27	8	22	**RILNW1013**
PN 315	G 3/8" -19	G 3/4" -14	12	22.0	44.0	36	8	22	**RILNW1020**
PN 315	G 1/2" -14	G 3/8" -19	14	17.0	36.0	27	12	26	**RILNW1310**
PN 315	G 1/2" -14	G 1/2" -14	14	20.0	42.0	27	12	26	**RILNW1313**
PN 315	G 1/2" -14	G 3/4" -14	14	22.0	46.0	36	12	26	**RILNW1320**
PN 315	G 1/2" -14	G 1" -11	14	24.5	49.0	41	12	26	**RILNW1325**
PN 160	G 1/2" -14	G 1.1/4" -11	14	26.5	53.0	55	10	26	**RILNW1332**
PN 315	G 3/4" -14	G 1/2" -14	16	20.0	41.0	32	16	32	**RILNW2013**
PN 315	G 3/4" -14	G 3/4" -14	16	22.0	46.0	36	16	32	**RILNW2020**
PN 315	G 3/4" -14	G 1" -11	16	24.5	51.0	41	16	32	**RILNW2025**
PN 160	G 3/4" -14	G 1.1/4" -11	16	26.5	55.0	55	16	32	**RILNW2032**
PN 160	G 3/4" -14	G 1.1/2" -11	16	28.5	57.0	60	16	32	**RILNW2040**
PN 315	G 1" -11	G 3/4" -14	18	22.0	47.0	41	20	39	**RILNW2520**
PN 160	G 1" -11	G 1.1/4" -11	18	26.5	57.0	55	20	39	**RILNW2532**
PN 160	G 1" -11	G 1.1/2" -11	18	28.5	59.0	60	20	39	**RILNW2540**
PN 160	G 1.1/4" -11	G 1" -11	20	24.5	52.0	50	25	49	**RILNW3225**
PN 160	G 1.1/4" -11	G 1.1/2" -11	20	28.5	60.0	60	25	49	**RILNW3240**
PN 160	G 1.1/2" -11	G 1.1/4" -11	22	26.5	58.0	55	32	55	**RILNW4032**
PN 160	G 2" -11	G 1.1/2" -11	24	28.5	62.0	70	40	68	**RILNW5040**

Product variants:

Reducing adaptor, AGR, ISO 1179, type B, IGR, long, brass, RIL MG	**...RILMG**
Reducing adaptor, AGR, ISO 1179, type B, IGR, long, stainless steel, RIL VA	**...RILVA**



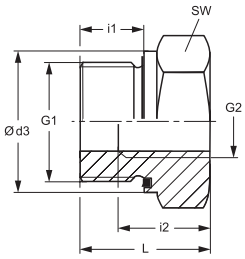


Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: reducing adapters
Sealing form 1: type E
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

1



Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, short, steel

Type: short
Sealing form 1: type E

www ...RIKED

Working pressure	G1	G2	i1	i2	L	SW	d3 Ø	Item no.
			mm	mm	mm	mm	mm	
PN 400	G 3/8" -19	G 1/8" -28	12	9	22.5	22	21.9	**RIKNW1003ED**
PN 400	G 1/2" -14	G 1/8" -28	14	9	24.0	27	26.9	**RIKNW1303ED**
PN 400	G 1/2" -14	G 1/4" -19	14	14	24.0	27	26.9	**RIKNW1306ED**
PN 315	G 3/4" -14	G 1/4" -19	16	14	26.0	32	31.9	**RIKNW2006ED**
PN 315	G 3/4" -14	G 3/8" -19	16	14	26.0	32	31.9	**RIKNW2010ED**
PN 315	G 1" -11	G 1/4" -19	18	14	29.0	41	39.9	**RIKNW2506ED**
PN 315	G 1" -11	G 3/8" -19	18	14	29.0	41	39.9	**RIKNW2510ED**
PN 315	G 1" -11	G 1/2" -14	18	16	29.0	41	39.9	**RIKNW2513ED**
PN 315	G 1.1/4" -11	G 1/2" -14	20	16	32.0	50	49.9	**RIKNW3213ED**
PN 315	G 1.1/4" -11	G 3/4" -14	20	18	32.0	50	49.9	**RIKNW3220ED**
PN 250	G 1.1/2" -11	G 1/2" -14	22	16	36.0	55	54.9	**RIKNW4013ED**
PN 250	G 1.1/2" -11	G 3/4" -14	22	18	36.0	55	54.9	**RIKNW4020ED**
PN 250	G 1.1/2" -11	G 1" -11	22	20	36.0	55	54.9	**RIKNW4025ED**

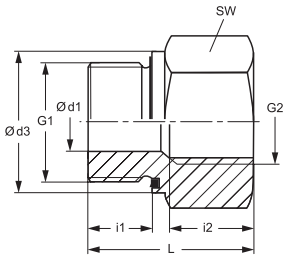
Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, short, stainless steel, RIK ED VA	**...RIKEDVA**

Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, long, steel



Type: long
Sealing form 1: type E

...RILED

Working pressure	G1	G2	i1	i2	L	SW	Ø d1	d3 Ø	Item no.
			mm	mm	mm	mm	mm	mm	
PN 400	G 1/8" -28	G 1/4" -19	8	17.0	31.0	19	4	13.9	**RILNW0306ED**
PN 400	G 1/8" -28	G 3/8" -19	8	17.0	32.0	24	4	13.9	**RILNW0310ED**
PN 400	G 1/4" -19	G 1/8" -28	12	12.0	28.0	19	5	18.9	**RILNW0603ED**
PN 400	G 1/4" -19	G 3/8" -19	12	17.0	36.0	24	5	18.9	**RILNW0610ED**
PN 400	G 1/4" -19	G 1/2" -14	12	20.0	40.0	27	5	18.9	**RILNW0613ED**
PN 400	G 1/4" -19	G 3/4" -14	12	22.0	43.0	36	5	18.9	**RILNW0620ED**
PN 400	G 3/8" -19	G 1/4" -19	12	17.0	36.0	22	8	21.9	**RILNW1006ED**
PN 400	G 3/8" -19	G 1/2" -14	12	20.0	41.0	27	8	21.9	**RILNW1013ED**
PN 315	G 3/8" -19	G 3/4" -14	12	22.0	44.0	36	8	21.9	**RILNW1020ED**
PN 400	G 1/2" -14	G 3/8" -19	14	17.0	36.0	27	12	26.9	**RILNW1310ED**
PN 315	G 1/2" -14	G 3/4" -14	14	22.0	46.0	36	12	26.9	**RILNW1320ED**
PN 315	G 1/2" -14	G 1" -11	14	24.5	49.0	41	12	26.9	**RILNW1325ED**
PN 315	G 1/2" -14	G 1.1/4" -11	14	26.5	53.0	55	10	26.9	**RILNW1332ED**
PN 315	G 3/4" -14	G 1/2" -14	16	20.0	41.0	32	16	31.9	**RILNW2013ED**
PN 315	G 3/4" -14	G 1" -11	16	24.5	51.0	41	16	31.9	**RILNW2025ED**
PN 315	G 3/4" -14	G 1.1/4" -11	16	26.5	55.0	55	16	31.9	**RILNW2032ED**
PN 250	G 3/4" -14	G 1.1/2" -11	16	28.5	57.0	60	16	31.9	**RILNW2040ED**
PN 315	G 1" -11	G 3/4" -14	18	22.0	47.0	41	20	39.9	**RILNW2520ED**
PN 315	G 1" -11	G 1.1/4" -11	18	26.5	57.0	55	20	39.9	**RILNW2532ED**
PN 250	G 1" -11	G 1.1/2" -11	18	28.5	59.0	60	20	39.9	**RILNW2540ED**
PN 315	G 1.1/4" -11	G 1" -11	20	24.5	52.0	50	25	49.9	**RILNW3225ED**
PN 250	G 1.1/4" -11	G 1.1/2" -11	20	28.5	60.0	60	25	49.9	**RILNW3240ED**
PN 250	G 1.1/2" -11	G 1.1/4" -11	22	26.5	58.0	55	32	54.9	**RILNW4032ED**
PN 160	G 2" -11	G 1.1/2" -11	24	28.5	65.5	70	40	69.9	**RILNW5040ED**

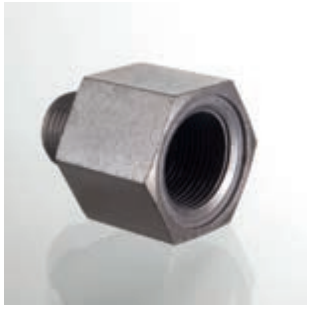
Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Reducing adaptor, AGR soft seal, ISO 1179, type E, IGR, long, stainless steel, RIL ED VA	**...RILEDVA**

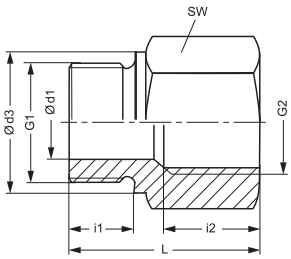
Reducing adaptor, AGR, ISO 1179, type B, IGM, long, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical inner thread
Construction type: reducing adapters
Type: long
Sealing form 1: type B
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

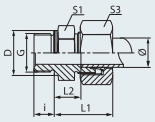
...RILR-M



Working pressure	G1	G2	i1	i2	L	SW	Ø d1	d3 Ø	Item no.
			mm	mm	mm	mm	mm	mm	
PN 250	G 1/2" -14	M 12 x 1.5	14.0	18	26.5	27	10.5	26	**RILNW13M12**
PN 250	G 3/4" -14	M 26 x 1.5	16.5	20	46.0	36	16.0	32	**RILNW20M26**
PN 250	G 1" -11	M 22 x 1.5	18.0	18	29.0	41	20.0	39	**RILNW25M22**

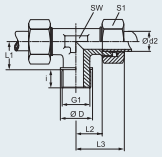
French series

Stud connectors



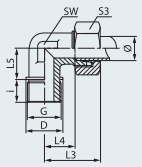
Stud connector, French series, AGR, ISO 1179, type B, straight, steel

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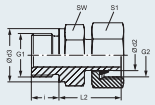
Stud connector, French series, AGR, ISO 1179, type B, T form, steel

TRHF Page 166



Stud connector, French series, AGR, ISO 1179, type B, angle 90°, steel

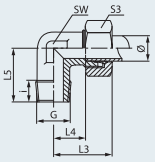
WRHF Page 167



Stud connector, French series, AGR, ISO 1179, type B, standpipe, straight, steel

AVRF Page 167

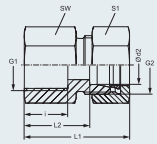
1



Stud connector, French series, AGN, SAE J 514, straight, steel

WNHF Page 168

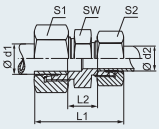
Screw-on fitting



Screw-on fitting, straight, French series, IGR, steel

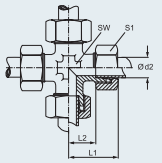
GARHF Page 168

Union connectors



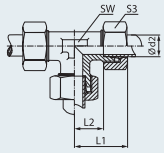
Union connector, French series, straight, steel

VHF Page 169



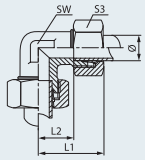
Union connector, French series, cross shape, steel

KHF Page 169



Union connector, French series, T Shape, Steel

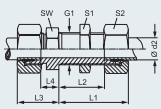
THF Page 170



Union connector, French series, elbow 90°, steel

WHF Page 170

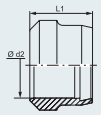
Bulkhead connectors



Bulkhead connector, French series

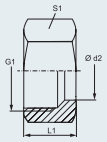
SVHF Page 170

Individual parts



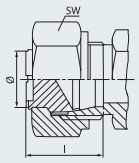
Cutting ring, French series, steel

SRD-F Page 171



Tube nut, French series, steel

UEMF Page 171



Plug, French series, steel

FFM Page 172



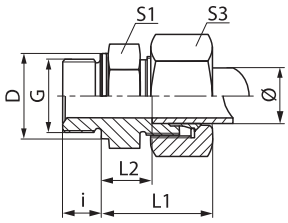




Stud connector, French series, AGR, ISO 1179, type B, steel

Construction type: screw-in fitting
Construction type addition: French series
Scope of supply: connector with union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

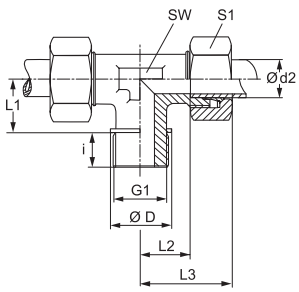


Stud connector, French series, AGR, ISO 1179, type B, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Type: straight
Sealing form 1: type B
Sealing form 2: 24° inner cone

www ...VRHF

Tube outer Ø	Working pressure	D	G	i	L1	L2	S1	S3	Item no.
mm		mm		mm	mm	mm			
13.25	PN 400	18	G 1/4" -19	10	33.0	10.5	22	27	VRNW10HF1/4
13.25	PN 400	22	G 3/8" -19	10	34.5	12.0	22	27	VRNW10HF
13.25	PN 400	26	G 1/2" -14	10	34.5	12.0	22	27	VRNW10HF1/2
16.75	PN 250	18	G 1/4" -19	10	34.5	12.0	27	30	VRNW13HF1/4
16.75	PN 250	22	G 3/8" -19	10	35.5	12.0	27	30	VRNW13HF3/8
16.75	PN 250	26	G 1/2" -14	12	36.5	13.0	27	30	VRNW13HF
21.25	PN 250	26	G 1/2" -14	12	39.0	15.0	32	36	VRNW16HF
21.25	PN 250	32	G 3/4" -14	16	40.5	16.5	32	36	VRNW16HF3/4
26.75	PN 250	32	G 3/4" -14	16	41.5	16.5	41	42	VRNW20HF
26.75	PN 250	39	G 1" -11	16	43.5	18.5	42	42	VRNW20HF1
33.50	PN 160	39	G 1" -11	16	45.5	20.5	46	55	VRNW25HF



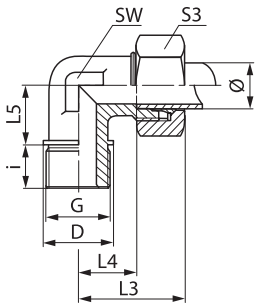
Stud connector, French series, AGR, ISO 1179, type B, T form, steel

Connection 1: BSPT conical external threads
Connection 2 + 3: metric cylindrical outer thread
Type: T shape
Sealing form 1: thread seal
Sealing form 2 + 3: 24° inner cone

www ...TRHF

Working pressure	G	i	L3	L4	L5	S3	SW	Ø d2	Item no.
		mm	mm	mm	mm		mm	mm	
PN 400	R 1/4" K	12.3	38.5	16.0	23.5	27	19	13.25	TRNW10HF1/4
PN 250	R 3/8" K	12.7	38.5	16.0	23.7	27	19	13.25	TRNW10HF
PN 250	R 3/8" K	12.7	41.5	18.0	25.2	30	24	16.75	TRNW13HF3/8

Stud connector, French series, AGR, ISO 1179, type B, angle 90°, steel



Connection 1: BSPT conical external threads
Connection 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 1: thread seal
Sealing form 2: 24° inner cone

www ...WRHF

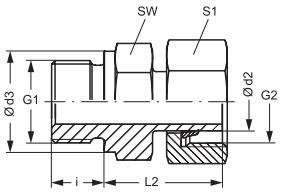
Tube outer Ø	Working pressure	G	i	L3	L4	L5	S3	SW	Item no.
mm			mm	mm	mm	mm		mm	
13.25	PN 400	R 3/8" K	12.7	38.5	16	23.7	27	19	**WRNW10HF**
13.25	PN 300	R 1/2" K	16.8	38.5	16	24.8	27	19	**WRNW10HF1/2**
13.25	PN 400	R 1/4" K	12.3	38.5	16	23.5	27	19	**WRNW10HF1/4**
16.75	PN 250	R 1/2" K	16.8	41.5	18	26.3	30	24	**WRNW13HF**
16.75	PN 250	R 1/4" K	12.3	41.5	18	30.0	30	24	**WRNW13HF1/4**
16.75	PN 250	R 3/8" K	12.7	41.5	18	25.2	30	24	**WRNW13HF3/8**
21.25	PN 250	R 1/2" K	16.8	47.0	23	30.3	36	30	**WRNW16HF**
21.25	PN 250	R 3/4" K	18.1	47.0	23	30.0	36	30	**WRNW16HF3/4**
26.75	PN 250	R 3/4" K	18.1	52.0	27	36.0	42	36	**WRNW20HF**
26.75	PN 250	R 1" K	21.3	52.0	27	36.5	42	36	**WRNW20HF1**
33.50	PN 160	R 1" K	21.3	60.0	35	44.1	55	46	**WRNW25HF**
33.50	PN 160	R 1.1/4" K	23.6	60.0	35	43.3	55	46	**WRNW25HF11/4**

Stud connector, French series, AGR, ISO 1179, type B, standpipe, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric nut thread
Construction type: screw-in fitting
Construction type addition: French series
Type: straight
Sealing form 1: type B
Sealing form 2: standpipe with cutting ring
Scope of supply: standpipe with union nut and pre-assembled cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



www ...AVRF

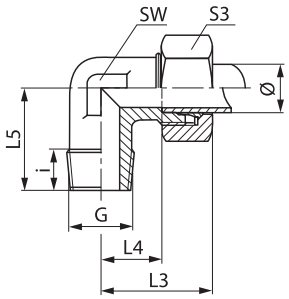
Tube outer Ø	Working pressure	G1	G2	i	L2	S1	SW	Ø d2	d3 Ø	Item no.
mm				mm	mm		mm	mm	mm	
13.25	PN 400	G 1/4" -19	M 20 x 1.5	10	39.5	27	22	13.25	22	**AVRNW10F1/4**
13.25	PN 400	G 3/8" -19	M 20 x 1.5	10	41.0	27	22	13.25	22	**AVRNW10F**
16.75	PN 250	G 3/8" -19	M 24 x 1.5	10	43.0	30	22	16.75	26	**AVRNW13F3/8**
16.75	PN 250	G 1/2" -14	M 24 x 1.5	12	46.0	30	27	16.75	26	**AVRNW13F**
21.35	PN 250	G 1/2" -14	M 30 x 1.5	12	48.0	36	27	21.35	26	**AVRNW16F**
21.25	PN 250	G 3/4" -14	M 30 x 1.5	16	53.5	36	32	21.25	32	**AVRNW16F3/4**
26.75	PN 250	G 3/4" -14	M 36 x 1.5	16	53.5	42	32	26.75	39	**AVRNW20F**
26.75	PN 250	G 1" -11	M 36 x 1.5	16	55.5	42	46	26.75	40	**AVRNW20F1**



Stud connector, French series, AGN, SAE J 514, straight, steel

Connection 1: NPT external threads
Connection 2: metric cylindrical outer thread
Construction type: screw-in fitting
Construction type addition: French series
Type: angle 90°
Sealing form 1: thread seal
Sealing form 2: 24° inner cone
Scope of supply: connector with union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



...WNHF

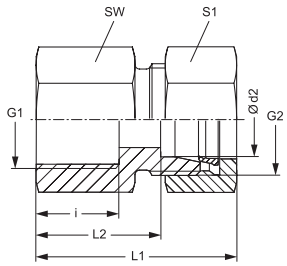
Tube outer Ø	Working pressure	G	i	L3	L4	L5	S3	SW	Item no.
mm			mm	mm	mm	mm		mm	
13.25	PN 400	3/8" -18 NPT	12.4	38.5	16	22.9	27	19	**WNNW10HF**
16.75	PN 250	3/8" -18 NPT	12.4	41.5	18	24.4	30	24	**WNNW13HF3/8**



Screw-on fitting, straight, French series, IGR, steel

Connection 1: BSPP female thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-on fitting
Construction type addition: French series
Type: straight
Sealing form 1: flat seal
Sealing form 2: 24° inner cone
Scope of supply: connector with union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



...GARHF

Tube outer Ø	Working pressure	G1	G2	i	L1	L2	S1	SW	Ø d2	Item no.
mm				mm	mm	mm		mm	mm	
13.25	PN 400	G 1/4" -19	M 20 x 1.5	12	41.5	19	27	22	13.25	**GARNW10HF1/4**
13.25	PN 400	G 3/8" -19	M 20 x 1.5	12	41.5	19	27	22	13.25	**GARNW10HF**
13.25	PN 400	G 1/2" -14	M 20 x 1.5	15	45.0	22	30	27	13.25	**GARNW10HF1/2**
16.75	PN 250	G 3/8" -19	M 24 x 1.5	12	42.5	19	30	27	16.75	**GARNW13HF3/8**
16.75	PN 250	G 1/2" -14	M 24 x 1.5	14	44.5	21	30	27	16.75	**GARNW13HF**
21.25	PN 250	G 1/2" -14	M 30 x 1.5	14	47.0	23	36	32	21.25	**GARNW16HF**

Union connector, French series, steel

Construction type: connector
Construction type addition: French series
Scope of supply: connector with union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

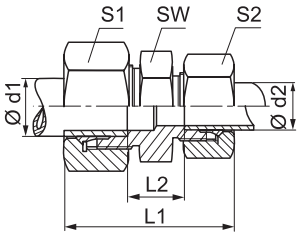






Union connector, French series, straight, steel

Connection 1 + 2: metric cylindrical outer thread
Type: straight
Sealing form 1 + 2: 24° inner cone

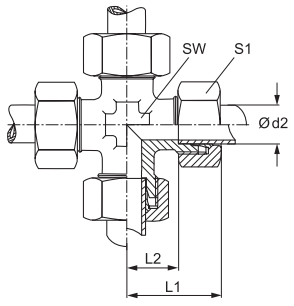


www ...VHF

Tube outer Ø	Working pressure	L1	L2	S1	S2	SW	Ø d1	Ø d2	Item no.
mm		mm	mm			mm	mm	mm	
13.25	PN 400	58.0	13	27	27	22	13.25	13.25	**VNW10HF**
16.75	PN 250	61.0	14	30	30	27	16.75	16.75	**VNW13HF**
13.25	PN 250	60.0	14	30	27	27	16.75	13.25	**VNW13HF10**
21.25	PN 250	67.0	19	36	36	32	21.25	21.25	**VNW16HF**
16.75	PN 250	64.5	17	36	30	32	21.25	16.75	**VNW16HF13**
26.75	PN 250	70.0	20	42	42	36	26.75	26.75	**VNW20HF**
16.75	PN 250	66.5	18	42	30	41	26.75	16.75	**VNW20HF13**
33.50	PN 160	76.0	26	55	55	46	33.50	33.50	**VNW25HF**
21.25	PN 160	73.0	24	55	36	46	33.50	21.25	**VNW25HF16**

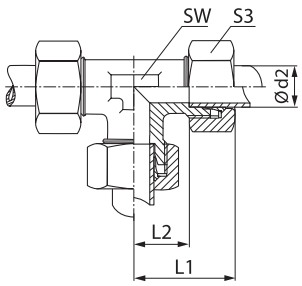
Union connector, French series, cross shape, steel

Connection 1 - 4: metric cylindrical outer thread
Type: cross shape
Sealing form 1 - 4: 24° inner cone



www ...KHF

Working pressure	L1	L2	S1	SW	Ø d2	Item no.
	mm	mm		mm	mm	
PN 400	38.5	16	27	19	13.25	**KNW10HF**
PN 250	41.5	18	30	24	16.75	**KNW13HF**
PN 250	47.0	23	36	30	21.25	**KNW16HF**

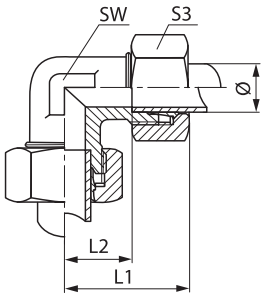


Union connector, French series, T Shape, Steel

Connection 1 - 3: metric cylindrical outer thread
Type: T shape
Sealing form 1 - 3: 24° inner cone

...THF

Working pressure	L1	L2	S3	SW	Ø d2	Item no.
	mm	mm		mm	mm	
PN 400	38.5	16	27	19	13.25	**TNW10HF**
PN 250	41.5	18	30	24	16.75	**TNW13HF**
PN 250	47.0	23	36	30	21.25	**TNW16HF**
PN 250	52.0	27	42	36	26.75	**TNW20HF**
PN 160	60.0	35	55	46	33.50	**TNW25HF**



Union connector, French series, elbow 90°, steel

Connection 1 + 2: metric cylindrical outer thread
Type: angle 90°
Sealing form 1 + 2: 24° inner cone

...WHF

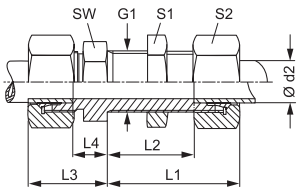
Tube outer Ø	Working pressure	L1	L2	S3	SW	Item no.
mm		mm	mm		mm	
13.25	PN 400	38.5	16	27	19	**WNW10HF**
16.75	PN 250	41.5	18	30	24	**WNW13HF**
21.25	PN 250	47.0	23	36	30	**WNW16HF**
26.75	PN 250	52.0	27	46	36	**WNW20HF**
33.50	PN 160	60.0	35	55	46	**WNW25HF**



Bulkhead connector, French series

Connection 1 + 2: metric cylindrical outer thread
Construction type: bulkhead fitting
Construction type addition: French series
Type: straight
Sealing form 1 + 2: 24° inner cone
Scope of supply: connector with union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



...SVHF

Tube outer Ø	Working pressure	G1	L1	L2	L3	L4	S1	S2	SW	Ø d2	Item no.
mm			mm	mm	mm	mm			mm	mm	
13.25	PN 400	M 20 x 1.5	47.5	25	32.5	10	27	27	27	13.25	**SVNW10HF**
16.75	PN 250	M 24 x 1.5	49.5	26	34.5	11	30	30	30	16.75	**SVNW13HF**
21.25	PN 250	M 30 x 1.5	52.0	28	37.0	13	36	36	36	21.25	**SVNW16HF**
26.75	PN 160	M 36 x 1.5	54.0	29	40.0	15	42	42	42	26.75	**SVNW20HF**
33.50	PN 160	M 45 x 1.5	58.0	33	44.0	19	55	55	55	33.50	**SVNW25HF**

Cutting ring, French series, steel

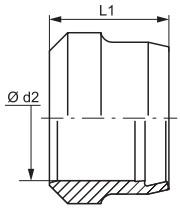
Construction type: cutting ring
Construction type addition: French series
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



...SRD-F

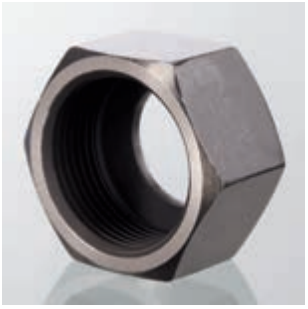
Working pressure	L1	Ø d2	Item no.
	mm	mm	
PN 400	10.0	13.25	**SRD13**
PN 400	10.0	16.75	**SRD17**
PN 250	10.0	21.25	**SRD21**
PN 250	10.5	26.75	**SRD27**
PN 160	10.5	33.50	**SRD33**



Tube nut, French series, steel

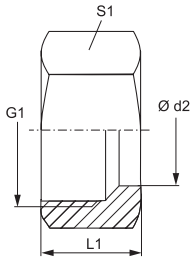
Connection 1: metric nut thread
Construction type: tube nut
Construction type addition: French series
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



...UEMF

Working pressure	G1	L1	S1	Ø d2	Item no.
		mm		mm	
PN 400	M 20 x 1.5	17.0	27	13.25	**UEMNW10F**
PN 400	M 24 x 1.5	18.0	30	16.75	**UEMNW13F**
PN 250	M 30 x 1.5	20.5	36	21.25	**UEMNW16F**
PN 250	M 36 x 1.5	21.5	42	26.75	**UEMNW20F**
PN 160	M 45 x 1.5	23.5	55	33.50	**UEMNW25F**



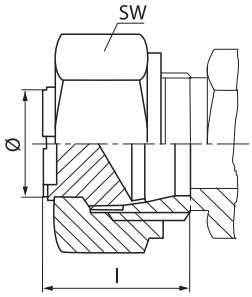


Cap, French series, steel

Connection 1: metric nut thread
Construction type: blanking cap
Construction type addition: French series
Sealing form 1: 24° outer cone
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

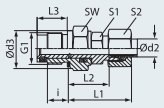
www ...FFM



Tube outer Ø	Working pressure	l	M	SW	Item no.
mm		mm		mm	
16.75	PN 250	20	M 24 x 1.5	30	**FFMNW13**
21.25	PN 250	21	M 30 x 1.5	36	**FFMNW16**
26.75	PN 250	22	M 36 x 1.5	46	**FFMNW20**

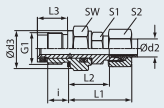
Rotary fittings plain bearings

Straight



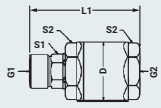
Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

GVR Page 174



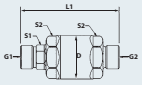
Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

GVM Page 174



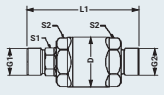
Rotary fitting, plain bearing, AGR 60°, ISO 8434-6, IGR, straight, steel

GVHBIRT Page 175



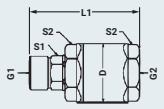
Rotary fitting, plain bearing, AGR 60°, ISO 8434-6

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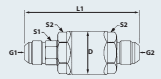
Rotary fitting, plain bearing, AG ORFS, ISO 8434-3

GVHJOFHJOFT Page 176



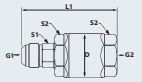
Rotary fitting, plain bearing, AG ORFS, IG UN, ISO 8434-3

GVHJOFIJFT Page 177



Rotary fitting, plain bearing, DKJ 37°, ISO 8434-2

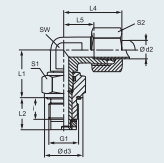
GVHJHJT Page 177



Rotary fitting, plain bearing, DKJ 37°, IG UN, ISO 8434-2

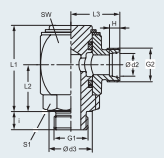
GVHJIJT Page 178

Elbow 90°



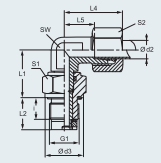
Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, angle 90°, steel

GVM90 Page 178



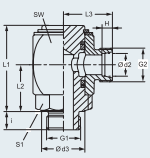
Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, angle 90°, steel

GVM90H Page 179



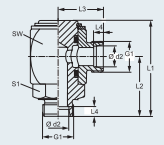
Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, angle 90°, steel

GVR90 Page 180



Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, angle 90°, steel

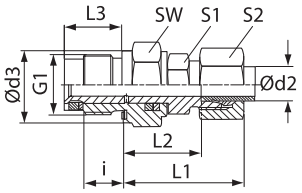
GVR90H Page 180



Rotary fitting, plain bearing, union connector, CEL/CES 24°, elbow 90°, steel

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Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

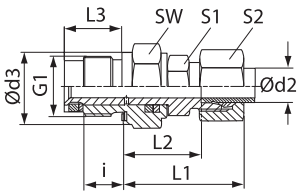
Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: friction bearing
Type: straight
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

...GVR

Tube outer Ø	Series	Working pressure	G1	i	L2	L3	S1	S2	SW	d3 Ø	Item no.
mm				mm	mm	mm			mm	mm	
6	L	PN 40	G 1/4" -19	12	21.0	18.0	12	14	19	19	GVRNW04HL1/4
8	L	PN 40	G 1/4" -19	12	21.0	18.0	14	17	19	19	GVRNW06HL
10	L	PN 40	G 3/8" -19	12	25.0	18.0	17	19	24	22	GVRNW08HL3/8
12	L	PN 40	G 1/2" -14	14	27.0	21.0	19	22	27	27	GVRNW10HL1/2
15	L	PN 40	G 3/4" -14	16	32.0	24.0	24	27	32	32	GVRNW13HL3/4
18	L	PN 40	G 1" -11	18	35.0	27.5	27	22	41	40	GVRNW16HL1
22	L	PN 40	G 1" -11	18	39.5	27.5	32	36	41	40	GVRNW20HL1
28	L	PN 40	G 1.1/4" -11	20	40.5	31.0	41	41	50	40	GVRNW25HL11/4
6	S	PN 100	G 1/4" -19	12	23.0	18.0	14	17	19	19	GVRNW03HS
8	S	PN 100	G 1/4" -19	12	24.0	18.0	17	19	19	19	GVRNW04HS
10	S	PN 100	G 3/8" -19	12	26.5	18.0	19	22	24	22	GVRNW06HS
12	S	PN 100	G 1/2" -14	14	28.5	21.0	22	24	27	27	GVRNW08HS1/2
16	S	PN 100	G 3/4" -14	16	33.5	24.0	27	30	32	32	GVRNW13HS3/4
30	S	PN 100	G 1.1/4" -11	20	41.5	31.0	46	50	50	50	GVRNW25HS11/4
38	S	PN 100	G 1.1/2" -11	22	47.0	35.0	55	60	55	55	GVRNW32HS11/2





Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: friction bearing
Type: straight
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

...GVM

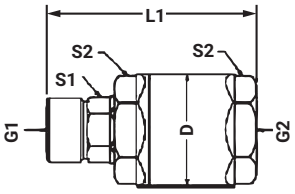
Tube outer Ø	Series	Working pressure	G1	i	L2	L3	S1	S2	SW	Ø d2	d3 Ø	Item no.
mm				mm	mm	mm			mm	mm	mm	
6	L	PN 40	M 14 x 1.5	12	20.0	18.0	12	14	19	6	19	GVMNW04HL14
8	L	PN 40	M 14 x 1.5	12	21.0	18.0	12	17	19	8	19	GVMNW06HL14
12	L	PN 40	M 22 x 1.5	14	27.0	21.0	17	22	27	12	27	GVMNW10HL22
15	L	PN 40	M 27 x 2	16	33.0	24.0	19	27	32	15	32	GVMNW13HL27
18	L	PN 40	M 33 x 2	18	37.5	27.5	27	32	41	18	40	GVMNW16HL33
22	L	PN 40	M 33 x 2	18	39.5	27.5	27	36	41	22	40	GVMNW20HL33

Tube outer Ø	Series	Working pressure	G1	i	L2	L3	S1	S2	SW	Ø d2	d3 Ø	Item no.
mm				mm	mm	mm			mm	mm	mm	
28	L	PN 40	M 42 x 2	20	44.0	31.0	36	41	50	28	50	**GVMNW25HL42**
35	L	PN 40	M 48 x 2	22	54.0	35.0	41	50	55	35	55	**GVMNW32HL48**
6	S	PN 100	M 14 x 1.5	12	21.0	18.0	12	17	19	6	19	**GVMNW03HS14**
8	S	PN 100	M 14 x 1.5	12	22.0	18.0	14	19	19	8	19	**GVMNW04HS**
10	S	PN 100	M 18 x 1.5	12	27.0	18.0	17	22	24	10	24	**GVMNW06HS18**
12	S	PN 100	M 22 x 1.5	14	28.0	21.0	17	24	27	12	27	**GVMNW08HS**
16	S	PN 100	M 27 x 2	16	34.0	24.0	24	30	32	16	32	**GVMNW13HS27**
20	S	PN 100	M 33 x 2	18	39.5	27.5	27	36	41	20	40	**GVMNW16HS33**
25	S	PN 100	M 33 x 2	18	42.5	27.5	36	46	41	25	40	**GVMNW20HS**
30	S	PN 100	M 42 x 2	20	48.0	31.0	41	50	50	30	50	**GVMNW25HS**
38	S	PN 100	M 48 x 2	22	55.0	35.0	50	60	55	38	55	**GVMNW32HS**

Rotary fitting, plain bearing, AGR 60°, ISO 8434-6, IGR, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: rotary fitting
Construction type addition: friction bearing
Type: straight
Working pressure: 430 bar
Sealing form 1: 60° inner cone
Sealing form 2: flat seal
Media: mineral oil
Standard: ISO 8434-6
Surface: electro galvanised
Temp. max.: 180 °C
Temp. min.: -40 °C
Seal: FKM
Material: steel

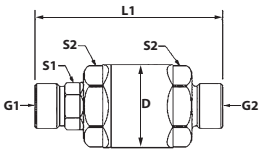


www ...GVHBIRT

D	G1	G2	L1	S1	S2	Item no.
mm			mm			
39.0	G 1/2" -14	G 1/2" -14	75.0	3/4"	1.5/16"	**GVHB08IRT**
50.0	G 3/4" -14	G 3/4" -14	95.0	15/16"	1.5/8"	**GVHB12IRT**
58.0	G 1" -11	G 1" -11	110.0	1.3/16	1.7/8"	**GVHB16IRT**
73.0	G 1.1/4" -11	G 1.1/4" -11	115.0	1.1/2"	2.3/8"	**GVHB20IRT**

Rotary fitting, plain bearing, AGR 60°, ISO 8434-6





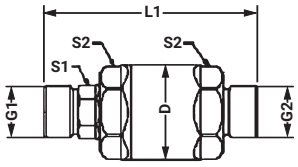
Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: rotary fitting
Construction type addition: friction bearing
Type: straight
Working pressure: 430 bar
Sealing form 1: 60° outer cone
Sealing form 2: 60° outer cone
Media: mineral oil
Standard: ISO 8434-6
Surface: electro galvanised
Temp. max.: 180 °C
Temp. min.: -40 °C
Seal: FKM
Material: steel

www ...GVHBHBT

D	G1	G2	L1	S1	S2	Item no.
mm			mm			
39.0	G 1/2"	G 1/2"	88.0	3/4"	1.5/16"	**GVHB08HBT**
50.0	G 3/4"	G 3/4"	113.0	15/16"	1.5/8"	**GVHB12HBT**
58.0	G 1"	G 1"	130.0	1.3/16	1.7/8"	**GVHB16HBT**

Rotary fitting, plain bearing, AG ORFS, ISO 8434-3





Connection 1: ORFS external threads
Connection 2: ORFS external threads
Construction type: rotary fitting
Construction type addition: friction bearing
Type: straight
Working pressure: 430 bar
Sealing form 1: flat seal with O-ring
Sealing form 2: flat seal with O-ring
Media: mineral oil
Standard: ISO 8434-3
Surface: electro galvanised
Temp. max.: 180 °C
Temp. min.: -40 °C
Seal: FKM
Material: steel

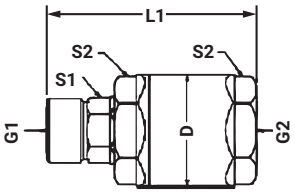
www ...GVHJOFHJOFT

D	G1	G2	L1	S1	S2	Item no.
mm			mm			
40.0	13/16" -16 UN	13/16" -16 UN	89.0	3/4"	1.5/16"	**GVHJOF08HJOFT**
47.25	1" -14 UNS	1" -14 UNS	96.27	15/16"	1.5/8"	**GVHJOF10HJOFT**
55.0	1.3/16" -12 UN	1.3/16" -12 UN	113.0	1.1/16"	1.3/4"	**GVHJOF12HJOFT**
61.0	1.7/16" -12 UN	1.7/16" -12 UN	129.0	1.5/16"	2"	**GVHJOF16HJOFT**

Rotary fitting, plain bearing, AG ORFS, IG UN, ISO 8434-3



Connection 1: ORFS external threads
Connection 2: ORFS internal thread
Construction type: rotary fitting
Construction type addition: friction bearing
Type: straight
Working pressure: 430 bar
Sealing form 1: flat seal with O-ring
Sealing form 2: flat seal
Media: mineral oil
Standard: ISO 8434-3
Surface: electro galvanised
Temp. max.: 180 °C
Temp. min.: -40 °C
Seal: FKM
Material: steel



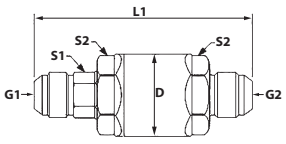
...GVHJOFIJFT

D	G1	G2	L1	S1	S2	Item no.
mm			mm			
38.86	13/16" -16 UN	13/16" -16 UN	76.20	3/4"	1.5/16"	**GVHJOF08IJFT**
55.0	1.3/16" -12 UN	1.3/16" -12 UN	96.0	1.1/16"	1.3/4"	**GVHJOF12IJFT**
61.0	1.7/16" -12 UN	1.7/16" -12 UN	110.0	1.5/16"	2"	**GVHJOF16IJFT**

Rotary fitting, plain bearing, DKJ 37°, ISO 8434-2



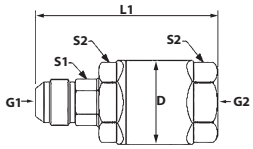
Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Construction type: rotary fitting
Construction type addition: friction bearing
Type: straight
Working pressure: 430 bar
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone
Media: mineral oil
Standard: ISO 8434-2
Surface: electro galvanised
Temp. max.: 180 °C
Temp. min.: -40 °C
Seal: FKM
Material: steel



...GVHJHJT

D	G1	G2	L1	S1	S2	Item no.
mm			mm			
31.2	9/16" -18 UNF	9/16" -18 UNF	74.7	1/2"	1"	**GVHJ06HJT**
37.3	3/4" -16 UNF	3/4" -16 UNF	97.5	11/16"	1.1/4"	**GVHJ08HJT**
50.0	1.1/16" -12 UN	1.1/16" -12 UN	124.0	15/16"	1.5/8"	**GVHJ12HJT**
58.2	1.5/16" -12 UN	1.5/16" -12 UN	141.0	1.3/16	1.7/8"	**GVHJ16HJT**
73.0	1.5/8" -12 UN	1.5/8" -12 UN	153.9	1.1/2"	2.3/8"	**GVHJ20HJT**





Rotary fitting, plain bearing, DKJ 37°, IG UN, ISO 8434-2

Connection 1: UN/UNF external threads
Connection 2: UN/UNF inner thread
Construction type: rotary fitting
Construction type addition: friction bearing
Type: straight
Working pressure: 430 bar
Sealing form 1: 37° external cone
Sealing form 2: 37° internal cone
Media: mineral oil
Standard: ISO 8434-2
Surface: electro galvanised
Temp. max.: 180 °C
Temp. min.: -40 °C
Seal: FKM
Material: steel

www ...GVHJIJT

D	G1	G2	L1	S1	S2	Item no.
mm			mm			
37.3	3/4" -16 UNF	3/4" -16 UNF	83.3	11/16"	1.1/4"	GVHJ08IJT
43.9	7/8" -14 UNF	7/8" -14 UNF	87.6	13/16"	1.1/2"	GVHJ10IJT
50.0	1.1/16" -12 UN	1.1/16" -12 UN	105.2	15/16"	1.5/8"	GVHJ12IJT
58.2	1.5/16" -12 UN	1.5/16" -12 UN	117.6	1.3/16	1.7/8"	GVHJ16IJT
73.2	1.5/8" -12 UN	1.5/8" -12 UN	128.3	1.1/2"	2.3/8"	GVHJ20IJT

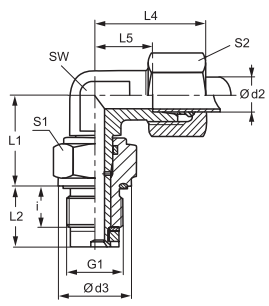




Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, angle 90°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: friction bearing
Type: angle 90°
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, angle 90°, steel

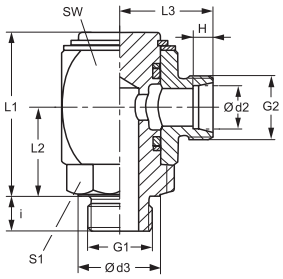
Scope of supply: connector without union nut and cutting ring

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Tube outer Ø	Series	Working pressure	d3	G1	L1	L2	S1	S2	SW	Ø d2	Item no.
mm			mm		mm	mm			mm	mm	
6	L	PN 40	19	M 14 x 1.5	20.0	18.0	19	14	12	6	GVM90NW04HL14
10	L	PN 40	24	M 18 x 1.5	26.0	18.0	24	19	14	10	GVM90NW08HL18

Tube outer Ø	Series	Working pressure	d3	G1	L1	L2	S1	S2	SW	Ø d2	Item no.
mm			mm		mm	mm			mm	mm	
12	L	PN 40	27	M 22 x 1.5	27.0	21.0	27	22	17	12	**GVM90NW10HL22**
15	L	PN 40	32	M 27 x 2	33.0	24.0	32	27	19	15	**GVM90NW13HL27**
18	L	PN 40	40	M 33 x 2	37.5	27.5	41	32	27	18	**GVM90NW16HL33**
22	L	PN 40	40	M 33 x 2	39.5	27.5	41	36	27	22	**GVM90NW20HL33**
35	L	PN 40	55	M 48 x 2	54.0	35.0	55	50	41	35	**GVM90NW32HL48**
6	S	PN 100	19	M 14 x 1.5	21.0	18.0	19	17	12	6	**GVM90NW03HS14**
10	S	PN 100	24	M 18 x 1.5	27.0	18.0	24	22	17	10	**GVM90NW06HS18**
12	S	PN 100	27	M 18 x 1.5	28.0	21.0	27	24	17	12	**GVM90NW08HS**
12	S	PN 100	27	M 22 x 1.5	28.0	32.0	27	24	17	12	**GVM90NW08HS22**
16	S	PN 100	32	M 27 x 2	34.0	24.0	32	30	24	16	**GVM90NW13HS27**
20	S	PN 100	40	M 33 x 2	39.5	27.5	41	36	27	20	**GVM90NW16HS33**
25	S	PN 100	40	M 33 x 2	42.5	27.5	41	46	36	25	**GVM90NW20HS**
38	S	PN 100	55	M 48 x 2	55.0	35.0	55	60	50	38	**GVM90NW32HS**

Rotary fitting, plain bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, angle 90°, steel



Scope of supply: connector without union nut and cutting ring

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Tube outer Ø	Series	Working pressure	d3	G1	G2	i	L1	S1	SW	Ø d2	Item no.
mm			mm			mm	mm		mm	mm	
6	L	PN 250	14	M 10 x 1	M 12 x 1.5	8	40	17	27	6	**GVM90NW04HLH**
6	L	PN 250	14	M 12 x 1.5	M 12 x 1.5	12	41	17	27	6	**GVM90NW04HL12H**
8	L	PN 250	17	M 12 x 1.5	M 14 x 1.5	12	41	19	27	8	**GVM90NW06HLH**
10	L	PN 250	22	M 16 x 1.5	M 16 x 1.5	12	48	24	32	10	**GVM90NW08HL16H**
10	L	PN 250	19	M 14 x 1.5	M 16 x 1.5	12	46	22	30	10	**GVM90NW08HLH**
12	L	PN 250	22	M 16 x 1.5	M 18 x 1.5	12	48	24	32	12	**GVM90NW10HLH**
12	L	PN 250	24	M 18 x 1.5	M 18 x 1.5	12	55	27	36	12	**GVM90NW10HL18H**
15	L	PN 250	24	M 18 x 1.5	M 22 x 1.5	12	55	27	36	15	**GVM90NW13HLH**
15	L	PN 250	27	M 22 x 1.5	M 22 x 1.5	14	59	32	40	15	**GVM90NW13HL22H**
18	L	PN 160	27	M 22 x 1.5	M 26 x 1.5	14	59	32	40	18	**GVM90NW16HLH**
22	L	PN 160	32	M 26 x 1.5	M 30 x 2	16	66	36	45	22	**GVM90NW20HLH**
28	L	PN 100	40	M 33 x 2	M 36 x 2	18	78	41	55	28	**GVM90NW25HLH**
35	L	PN 100	50	M 42 x 2	M 45 x 2	20	92	50	65	35	**GVM90NW32HLH**
42	L	PN 100	55	M 48 x 2	M 52 x 2	22	102	55	75	42	**GVM90NW40HLH**
6	S	PN 400	17	M 12 x 1.5	M 14 x 1.5	12	41	19	27	6	**GVM90NW03HSH**
6	S	PN 400	19	M 14 x 1.5	M 14 x 1.5	12	41	19	27	6	**GVM90NW03HS14H**
8	S	PN 400	19	M 14 x 1.5	M 16 x 1.5	12	41	19	27	8	**GVM90NW04HSH**
10	S	PN 400	22	M 16 x 1.5	M 18 x 1.5	12	46	22	30	10	**GVM90NW06HSH**
10	S	PN 400	19	M 14 x 1.5	M 18 x 1.5	12	46	22	30	10	**GVM90NW06HS14H**
12	S	PN 400	24	M 18 x 1.5	M 20 x 1.5	12	48	24	32	12	**GVM90NW08HSH**
14	S	PN 400	24	M 18 x 1.5	M 22 x 1.5	14	55	27	36	14	**GVM90NW10HS18H**
14	S	PN 400	26	M 20 x 1.5	M 22 x 1.5	14	55	27	36	14	**GVM90NW10HSH**
16	S	PN 400	27	M 22 x 1.5	M 24 x 1.5	14	59	32	40	16	**GVM90NW13HSH**
20	S	PN 250	32	M 27 x 2	M 30 x 2	16	66	36	45	20	**GVM90NW16HSH**
30	S	PN 160	50	M 42 x 2	M 42 x 2	20	92	50	65	30	**GVM90NW25HSH**
38	S	PN 160	55	M 48 x 2	M 52 x 2	22	102	55	75	38	**GVM90NW32HSH**



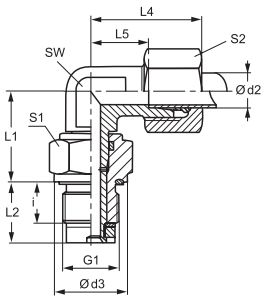


Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, angle 90°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: friction bearing
Type: angle 90°
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

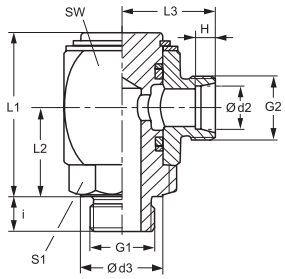
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Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, angle 90°, steel

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Tube outer Ø	Series	Working pressure	d3	G1	L1	S1	S2	SW	Ø d2	Item no.
mm			mm		mm			mm	mm	
6	L	PN 40	19	G 1/4" -19	20.0	19	14	12	6	GVR90NW04HL1/4
8	L	PN 40	19	G 1/4" -19	21.0	19	17	12	8	GVR90NW06HL
10	L	PN 40	22	G 3/8" -19	26.0	24	19	14	10	GVR90NW08HL3/8
12	L	PN 40	27	G 1/2" -14	27.0	27	22	17	12	GVR90NW10HL1/2
15	L	PN 40	32	G 3/4" -14	33.0	32	27	19	15	GVR90NW13HL3/4
18	L	PN 40	40	G 1" -11	37.5	41	32	27	18	GVR90NW16HL1
22	L	PN 40	40	G 1" -11	39.5	41	36	27	22	GVR90NW20HL1
28	L	PN 40	50	G 1.1/4" -11	44.0	50	41	36	28	GVR90NW25HL11/4
35	L	PN 40	55	G 1.1/2" -11	54.0	55	50	41	35	GVR90NW32HL11/2
6	S	PN 100	19	G 1/4" -19	21.0	19	17	12	6	GVR90NW03HS
8	S	PN 100	19	G 1/4" -19	22.0	19	19	14	8	GVR90NW04HS
10	S	PN 100	22	G 3/8" -19	27.0	24	22	17	10	GVR90NW06HS
12	S	PN 100	27	G 1/2" -14	28.0	27	24	17	12	GVR90NW08HS1/2
25	S	PN 100	40	G 1" -11	42.5	41	46	36	25	GVR90NW20HS
30	S	PN 100	50	G 1.1/4" -11	48.0	50	50	41	30	GVR90NW25HS



Rotary fitting, plain bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, angle 90°, steel

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Tube outer Ø	Series	Working pressure	G2	d3	G1	L1	L3	S1	SW	Ø d2	Item no.
mm				mm		mm	mm		mm	mm	
6	L	PN 250	M 12 x 1.5	14	G 1/8" -28	40	23	17	27	6	GVR90NW04HLH
6	L	PN 250	M 12 x 1.5	19	G 1/4" -19	41	23	19	27	6	GVR90NW04HL1/4H
8	L	PN 250	M 14 x 1.5	19	G 1/4" -19	46	25	22	30	8	GVR90NW06HLH
10	L	PN 250	M 16 x 1.5	19	G 1/4" -19	46	26	22	30	10	GVR90NW08HLH
10	L	PN 250	M 16 x 1.5	22	G 3/8" -19	48	27	24	32	10	GVR90NW08HL3/8H
12	L	PN 250	M 18 x 1.5	22	G 3/8" -19	48	27	24	32	12	GVR90NW10HLH
12	L	PN 250	M 18 x 1.5	27	G 1/2" -14	55	29	27	36	12	GVR90NW10HL1/2H
15	L	PN 250	M 22 x 1.5	27	G 1/2" -14	59	32	32	40	15	GVR90NW13HLH
18	L	PN 160	M 26 x 1.5	27	G 1/2" -14	59	32	32	40	18	GVR90NW16HLH
18	L	PN 160	M 26 x 1.5	32	G 3/4" -14	66	32	32	45	18	GVR90NW16HL3/4H
22	L	PN 160	M 30 x 2	32	G 3/4" -14	66	36	36	45	22	GVR90NW20HLH

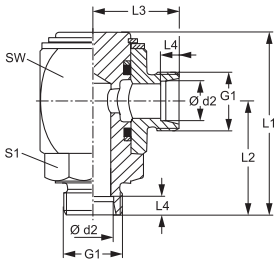
Tube outer Ø	Series	Working pressure	G2	d3	G1	L1	L3	S1	SW	Ø d2	Item no.
mm				mm		mm	mm		mm	mm	
22	L	PN 160	M 30 x 2	40	G 1" -11	78	36	36	55	22	**GVR90NW20HL1H**
28	L	PN 100	M 36 x 2	40	G 1" -11	78	41	41	55	28	**GVR90NW25HLH**
35	L	PN 100	M 45 x 2	50	G 1.1/4" -11	92	48	50	65	35	**GVR90NW32HL11/4H**
42	L	PN 100	M 52 x 2	55	G 1.1/2" -11	102	53	55	75	42	**GVR90NW40HLH**
6	S	PN 400	M 14 x 1.5	19	G 1/4" -19	41	25	19	27	6	**GVR90NW03HSH**
8	S	PN 400	M 16 x 1.5	19	G 1/4" -19	41	25	19	27	8	**GVR90NW04HSH**
10	S	PN 400	M 18 x 1.5	19	G 1/4" -19	41	27	22	27	10	**GVR90NW06HS1/4H**
10	S	PN 400	M 18 x 1.5	22	G 3/8" -19	46	27	22	30	10	**GVR90NW06HSH**
12	S	PN 400	M 20 x 1.5	22	G 3/8" -19	48	28	24	32	12	**GVR90NW08HSH**
12	S	PN 400	M 20 x 1.5	27	G 1/2" -14	55	27	24	36	12	**GVR90NW08HS1/2H**
14	S	PN 400	M 22 x 1.5	27	G 1/2" -14	55	32	27	36	14	**GVR90NW10HSH**
16	S	PN 400	M 24 x 1.5	27	G 1/2" -14	59	34	32	40	16	**GVR90NW13HSH**
20	S	PN 250	M 30 x 2	32	G 3/4" -14	66	38	36	45	20	**GVR90NW16HSH**
25	S	PN 250	M 36 x 2	32	G 3/4" -14	66	45	41	55	25	**GVR90NW20HS3/4H**
25	S	PN 250	M 36 x 2	40	G 1" -11	78	45	41	55	25	**GVR90NW20HSH**
30	S	PN 250	M 42 x 2	50	G 1.1/4" -11	92	52	50	65	30	**GVR90NW25HSH**
38	S	PN 250	M 52 x 2	55	G 1.1/2" -11	102	59	55	75	38	**GVR90NW32HSH**

Rotary fitting, plain bearing, union connector, CEL/CES 24°, elbow 90°, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting
Construction type addition: friction bearing
Type: angle 90°
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

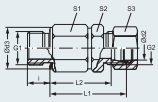


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Tube outer Ø	Series	Working pressure	G1	L1	L2	L3	L4	S1	SW	Ø d2	Item no.
mm				mm	mm	mm	mm		mm	mm	
6	L	PN 250	M 12 x 1.5	49	31	23	7.0	19	27	6	**GV90NW04HLH**
8	L	PN 250	M 14 x 1.5	54	33	25	7.0	22	30	8	**GV90NW06HLH**
10	L	PN 250	M 16 x 1.5	57	36	27	7.0	24	32	10	**GV90NW08HLH**
12	L	PN 250	M 18 x 1.5	63	39	29	7.0	27	36	12	**GV90NW10HLH**
15	L	PN 250	M 22 x 1.5	68	42	32	7.0	32	40	15	**GV90NW13HLH**
18	L	PN 160	M 26 x 1.5	75	46	34	7.5	36	45	18	**GV90NW16HLH**
22	L	PN 160	M 30 x 2	89	54	41	7.5	41	55	22	**GV90NW20HLH**
28	L	PN 100	M 36 x 2	103	62	46	7.5	50	65	28	**GV90NW25HLH**
35	L	PN 100	M 45 x 2	115	69	53	10.5	55	75	35	**GV90NW32HLH**
42	L	PN 100	M 52 x 2	147	90	61	11.0	70	90	42	**GV90NW40HLH**
6	S	PN 400	M 14 x 1.5	51	33	25	7.0	19	27	6	**GV90NW03HSH**
8	S	PN 400	M 16 x 1.5	51	33	25	7.0	19	27	8	**GV90NW04HSH**
10	S	PN 400	M 18 x 1.5	56	35	27	7.5	22	30	10	**GV90NW06HSH**
12	S	PN 400	M 20 x 1.5	58	37	28	7.5	24	32	12	**GV90NW08HSH**
14	S	PN 400	M 22 x 1.5	66	42	32	8.0	27	36	14	**GV90NW10HSH**
16	S	PN 400	M 24 x 1.5	70	44	34	8.5	32	40	16	**GV90NW13HSH**
20	S	PN 250	M 30 x 2	79	50	38	10.5	36	45	20	**GV90NW16HSH**
25	S	PN 250	M 36 x 2	93	58	45	12.0	41	55	25	**GV90NW20HSH**
30	S	PN 250	M 42 x 2	109	68	52	13.5	50	65	30	**GV90NW25HSH**
38	S	PN 250	M 52 x 2	121	75	59	16.0	55	75	38	**GV90NW32HSH**

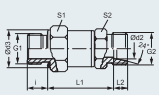
Rotary fittings ball bearings

Straight



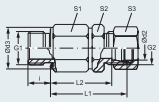
Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

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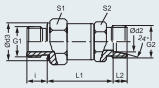
Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

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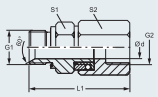
Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

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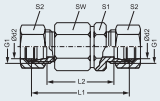
Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

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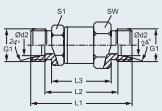
Rotary fitting, ball bearing, AGR 60°, ISO 8434-6, IGR, steel

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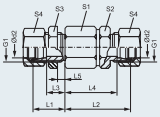
Rotary fitting, ball bearing, union connector, CEL/CES 24°, steel

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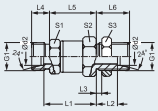
Rotary fitting, ball bearing, union connector, CEL/CES 24°, steel

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Rotary fitting, ball bearing, bulkhead connector, CEL/CES 24°, steel

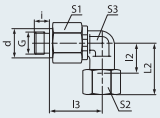
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Rotary fitting, ball bearing, bulkhead connector, CEL/CES 24°, steel

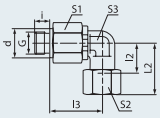
DGSH Page 188

Elbow 90°



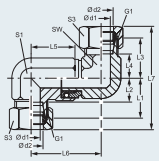
Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, elbow 90°, steel

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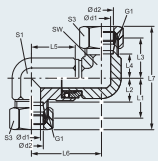
Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, elbow 90°, steel

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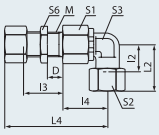
Rotary fitting, ball bearing, union connector, CEL/CES 24°, double elbow 90°, steel

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Rotary fitting, ball bearing, union connector, CEL/CES 24°, double elbow 90°, steel

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Rotary fitting, ball bearing, bulkhead connector, CEL/CES 24°, elbow 90°, steel

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Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: ball bearing
Type: straight
Sealing form 1: type E
Sealing form 2: 24° inner cone
Surface: electro galvanised
Material: steel

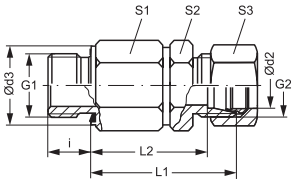
Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

Scope of supply: connector without union nut and cutting ring

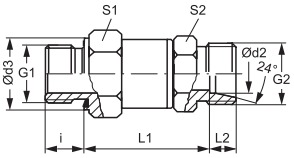


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Tube outer Ø	Series	Working pressure	G1	G2	i	S1	S2	S3	Ø d2	d3 Ø	Item no.
mm					mm				mm	mm	
6	S	PN 250	M 14 x 1.5	M 14 x 1.5	12	22	17	17	6	19	DGMNW03HS14
8	S	PN 250	M 14 x 1.5	M 16 x 1.5	12	22	17	19	8	19	DGMNW04HS
12	S	PN 250	M 18 x 1.5	M 20 x 1.5	12	30	24	24	12	24	DGMNW08HS
16	S	PN 250	M 22 x 1.5	M 24 x 1.5	14	30	27	30	16	27	DGMNW13HS
20	S	PN 250	M 27 x 2	M 30 x 2	16	41	36	36	20	32	DGMNW16HS
25	S	PN 250	M 33 x 2	M 36 x 2	18	41	41	46	25	40	DGMNW20HS
30	S	PN 250	M 42 x 2	M 42 x 2	20	60	46	50	30	50	DGMNW25HS
38	S	PN 250	M 48 x 2	M 52 x 2	22	60	55	60	38	55	DGMNW32HS

Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, steel

Scope of supply: connector without union nut and cutting ring



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Tube outer Ø	Series	Working pressure	G1	G2	L1	S1	S2	Ø d2	d3 Ø	Item no.
mm					mm			mm	mm	
6	L	PN 315	M 10 x 1	M 12 x 1.5	40.5	22	19	6	14	DGMNW04HL
6	L	PN 315	M 12 x 1.5	M 12 x 1.5	40.5	22	19	6	17	DGMNW04HL12
8	L	PN 315	M 12 x 1.5	M 14 x 1.5	40.5	22	19	8	17	DGMNW06HL
8	L	PN 315	M 14 x 1.5	M 14 x 1.5	40.0	22	19	8	19	DGMNW06HL14
10	L	PN 315	M 14 x 1.5	M 16 x 1.5	40.0	22	19	10	19	DGMNW08HL
10	L	PN 315	M 16 x 1.5	M 16 x 1.5	50.0	30	24	10	22	DGMNW08HL16
12	L	PN 315	M 18 x 1.5	M 18 x 1.5	50.0	30	24	12	27	DGMNW10HL18
12	L	PN 315	M 22 x 1.5	M 18 x 1.5	50.0	30	24	12	27	DGMNW10HL22
15	L	PN 315	M 18 x 1.5	M 22 x 1.5	51.0	30	24	15	24	DGMNW13HL
15	L	PN 315	M 22 x 1.5	M 22 x 1.5	51.0	30	24	15	27	DGMNW13HL22
18	L	PN 315	M 22 x 1.5	M 26 x 1.5	50.5	30	30	18	27	DGMNW16HL
22	L	PN 160	M 26 x 1.5	M 30 x 2	64.5	41	36	22	32	DGMNW20HL
6	S	PN 500	M 12 x 1.5	M 14 x 1.5	42.5	22	19	6	17	DGMNW03HS12H
10	S	PN 500	M 18 x 1.5	M 18 x 1.5	42.0	22	19	10	22	DGMNW06HS18H
10	S	PN 500	M 16 x 1.5	M 18 x 1.5	42.0	22	19	10	22	DGMNW06HSH
25	S	PN 400	M 27 x 2	M 36 x 2	66.0	41	36	25	40	DGMNW20HS27H

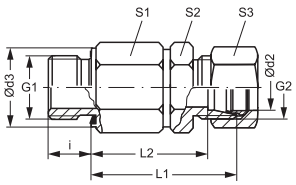






Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

Connection 1: BSPP male thread, cylindric
Type: straight
Surface: electro galvanised
Material: steel

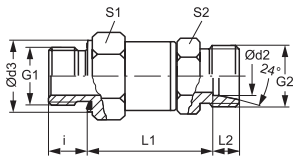


Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: ball bearing
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector with union nut and cutting ring

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Tube outer Ø	Series	Working pressure	G1	G2	L1	S1	S2	S3	Ø d2	d3 Ø	Item no.
mm					mm				mm	mm	
6	S	PN 250	G 1/4" -19	M 14 x 1.5	49	22	17	17	6	19	DGRNW03HS
8	S	PN 250	G 1/4" -19	M 16 x 1.5	49	22	17	19	8	19	DGRNW04HS
12	S	PN 250	G 3/8" -19	M 20 x 1.5	60	30	24	24	12	22	DGRNW08HS
16	S	PN 250	G 1/2" -14	M 24 x 1.5	60	30	27	30	16	27	DGRNW13HS
20	S	PN 250	G 3/4" -14	M 30 x 2	76	41	36	36	20	32	DGRNW16HS
25	S	PN 250	G 1" -11	M 36 x 2	78	41	41	46	25	40	DGRNW20HS
30	S	PN 250	G 1.1/4" -11	M 42 x 2	89	60	46	50	30	50	DGRNW25HS
38	S	PN 250	G 1.1/2" -11	M 52 x 2	92	60	55	60	38	55	DGRNW32HS



Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, steel

Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: ball bearing
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring

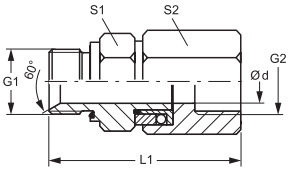
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Tube outer Ø	Series	Working pressure	G1	G2	L1	S1	S2	Ø d2	d3 Ø	Item no.
mm					mm			mm	mm	
6	L	PN 315	G 1/8" -28	M 12 x 1.5	40.5	22	19	6	14	DGRNW04HL
6	L	PN 315	G 1/4" -19	M 12 x 1.5	40.0	22	19	6	19	DGRNW04HL1/4

Tube outer Ø	Series	Working pressure	G1	G2	L1	S1	S2	Ø d2	d3 Ø	Item no.
mm					mm			mm	mm	
8	L	PN 315	G 1/4" -19	M 14 x 1.5	40.0	22	19	8	19	**DGRNW06HL**
10	L	PN 315	G 1/4" -19	M 16 x 1.5	41.0	22	19	10	19	**DGRNW08HL**
10	L	PN 315	G 3/8" -19	M 16 x 1.5	50.0	30	24	10	22	**DGRNW08HL3/8**
12	L	PN 315	G 1/2" -14	M 18 x 1.5	50.0	30	24	12	27	**DGRNW10HL1/2**
15	L	PN 315	G 1/2" -14	M 22 x 1.5	51.0	30	24	15	27	**DGRNW13HL**
15	L	PN 315	G 3/4" -14	M 22 x 1.5	51.0	41	24	15	32	**DGRNW13HL3/4**
18	L	PN 315	G 1/2" -14	M 26 x 1.5	51.5	30	30	18	27	**DGRNW16HL**
18	L	PN 315	G 3/4" -14	M 26 x 1.5	51.5	41	30	18	32	**DGRNW16HL3/4**
22	L	PN 315	G 1/2" -14	M 30 x 2	66.0	30	36	22	27	**DGRNW20HL1/2**
22	L	PN 160	G 3/4" -14	M 30 x 2	66.0	41	36	22	32	**DGRNW20HL**
22	L	PN 160	G 1" -11	M 30 x 2	66.0	41	36	22	40	**DGRNW20HL1**
6	S	PN 500	G 1/4" -19	M 14 x 1.5	42.0	22	19	6	19	**DGRNW03HSH**
8	S	PN 500	G 1/4" -19	M 16 x 1.5	42.0	22	19	8	19	**DGRNW04HSH**
10	S	PN 500	G 3/8" -19	M 18 x 1.5	42.0	22	19	10	22	**DGRNW06HSH**
12	S	PN 500	G 3/8" -19	M 20 x 1.5	52.5	30	24	12	22	**DGRNW08HSH**
12	S	PN 500	G 1/2" -14	M 20 x 1.5	53.0	22	32	12	27	**DGRNW08HS1/2H**
14	S	PN 500	G 1/2" -14	M 22 x 1.5	52.0	30	24	14	27	**DGRNW10HSH**
16	S	PN 400	G 1/2" -14	M 24 x 1.5	51.5	30	24	16	27	**DGRNW13HSH**
20	S	PN 400	G 3/4" -14	M 30 x 2	65.5	41	36	20	32	**DGRNW16HSH**
20	S	PN 400	G 1" -11	M 30 x 2	65.0	41	36	20	40	**DGRNW16HS1H**
25	S	PN 400	G 3/4" -14	M 36 x 2	65.0	41	36	25	32	**DGRNW20HS3/4H**
25	S	PN 400	G 1" -11	M 36 x 2	66.0	41	36	25	40	**DGRNW20HSH**

Rotary fitting, ball bearing, AGR 60°, ISO 8434-6, IGR, steel

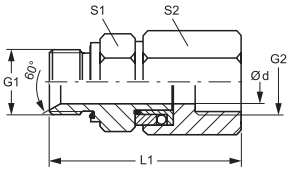
Connection 2: BSPP female thread, cylindric
Construction type: rotary fitting
Construction type addition: ball guided
Sealing form 1: 60° inner cone type E
Media: oil
Standard: ISO 8434-6
Temp. max.: 95 °C
Temp. min.: -30 °C



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Working pressure	G1 + G2	L1	S1	S2	Ø d	Item no.
		mm			mm	
PN 300	G 3/8" -19	89.5	24	24	8	**DGHB10IR**
PN 300	G 1/2" -14	89.5	27	32	10	**DGHB13IR**





Rotary fitting, ball bearing, AGR 60°, ISO 8434-6, IGR, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: rotary fitting
Construction type addition: ball guided
Type: straight
Sealing form 1: 60° inner cone type E
Media: oil
Standard: ISO 8434-6
Surface: electro galvanised
Temp. max.: 95 °C
Temp. min.: -30 °C
Material: steel

Note:
For technical reasons, a minimum working pressure of 10 bar is required.

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Working pressure	G1 + G2	L1	S1	S2	Ø d	Item no.
		mm			mm	
PN 300	G 3/8" -19	89.5	24	24	8	DGHB10IR
PN 300	G 1/2" -14	89.5	27	32	10	DGHB13IR

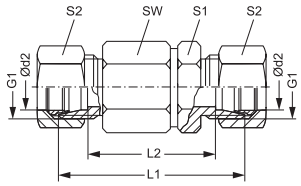




Rotary fitting, ball bearing, connecting socket, CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting
Construction type addition: ball bearing
Type: straight
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



Rotary fitting, ball bearing, union connector, CEL/CES 24°, steel

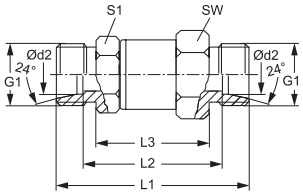
Scope of supply: connector without union nut and cutting ring

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Tube outer Ø	Series	Working pressure	G1	L1	L2	S1	S2	SW	Ø d2	Item no.
mm				mm	mm			mm	mm	
6	S	PN 420	M 14 x 1.5	61	47	17	17	22	6	DGNW03HS
8	S	PN 420	M 16 x 1.5	61	47	17	19	22	8	DGNW04HS
12	S	PN 420	M 20 x 1.5	72	57	24	24	30	12	DGNW08HS
16	S	PN 420	M 24 x 1.5	74	57	27	30	30	16	DGNW13HS
20	S	PN 420	M 30 x 2	92	71	36	36	41	20	DGNW16HS
25	S	PN 420	M 36 x 2	96	72	41	46	41	25	DGNW20HS
30	S	PN 420	M 42 x 2	109	82	46	50	60	30	DGNW25HS
38	S	PN 420	M 52 x 2	114	82	55	60	60	38	DGNW32HS

Rotary fitting, ball bearing, union connector, CEL/CES 24°, steel

Scope of supply: connector without union nut and cutting ring



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Tube outer Ø	Series	Working pressure	G1	L1	L2	L3	S1	SW	Ø d2	Item no.
mm				mm	mm	mm		mm	mm	
6	L	PN 315	M 12 x 1.5	57.0	43.0	37.0	19	22	6	**DGNW04HL**
8	L	PN 315	M 14 x 1.5	57.0	43.0	37.0	19	22	8	**DGNW06HL**
10	L	PN 315	M 16 x 1.5	68.0	54.0	46.0	24	30	10	**DGNW08HL**
12	L	PN 315	M 18 x 1.5	68.0	54.0	46.0	24	30	12	**DGNW10HL**
15	L	PN 315	M 22 x 1.5	70.0	56.0	46.0	24	30	15	**DGNW13HL**
18	L	PN 315	M 26 x 1.5	80.5	65.5	56.5	36	41	18	**DGNW16HL**
22	L	PN 160	M 30 x 2	84.5	69.5	56.5	36	41	22	**DGNW20HL**
28	L	PN 160	M 36 x 2	96.5	81.5	68.5	55	60	28	**DGNW25HL**
35	L	PN 160	M 45 x 2	100.5	79.5	68.5	55	60	35	**DGNW32HL**
6	S	PN 500	M 14 x 1.5	61.0	47.0	37.0	19	22	6	**DGNW03HSH**
8	S	PN 500	M 16 x 1.5	61.0	47.0	37.0	19	22	8	**DGNW04HSH**
10	S	PN 500	M 18 x 1.5	61.0	55.0	37.0	24	30	10	**DGNW06HSH**
12	S	PN 500	M 20 x 1.5	72.0	57.0	48.0	24	30	12	**DGNW08HSH**
14	S	PN 500	M 22 x 1.5	73.0	57.0	45.0	24	30	14	**DGNW10HSH**
16	S	PN 400	M 24 x 1.5	74.0	57.0	46.0	24	30	16	**DGNW13HSH**
20	S	PN 400	M 30 x 2	92.0	71.0	60.0	36	41	20	**DGNW16HSH**
25	S	PN 400	M 36 x 2	98.0	72.0	62.0	36	41	25	**DGNW20HSH**
30	S	PN 400	M 42 x 2	109.0	82.0	69.0	55	60	30	**DGNW25HSH**
38	S	PN 315	M 52 x 2	114.0	82.0	70.0	55	60	38	**DGNW32HSH**

Rotary fitting, ball bearing, bulkhead fitting, CEL/CES 24°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (bulkhead connector)
Construction type addition: ball bearing
Type: straight
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Surface: electro galvanised
Material: steel

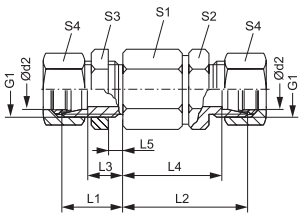
Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





Rotary fitting, ball bearing, bulkhead connector, CEL/CES 24°, steel

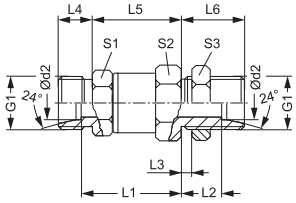
Scope of supply: connector with union nut and cutting ring



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Tube outer Ø	Series	Working pressure	G1	L1	L3	S1	S2	S3	S4	Ø d2	Item no.
mm				mm	mm					mm	
6	S	PN 250	M 14 x 1.5	23	16.0	22	17	19	17	6	**DGSNW03HS**
8	S	PN 250	M 16 x 1.5	23	16.0	22	17	22	19	8	**DGSNW04HS**
12	S	PN 250	M 20 x 1.5	23	15.5	30	24	27	24	12	**DGSNW08HS**
16	S	PN 250	M 24 x 1.5	26	17.5	30	27	32	30	16	**DGSNW13HS**

Tube outer Ø	Series	Working pressure	G1	L1	L3	S1	S2	S3	S4	Ø d2	Item no.
mm				mm	mm					mm	
20	S	PN 250	M 30 x 2	39	28.5	41	36	41	36	20	**DGSNW16HS**
25	S	PN 250	M 36 x 2	42	30.0	41	41	46	46	25	**DGSNW20HS**
30	S	PN 250	M 42 x 2	44	30.5	60	46	50	50	30	**DGSNW25HS**
38	S	PN 250	M 52 x 2	47	31.0	60	55	65	60	38	**DGSNW32HS**



Rotary fitting, ball bearing, bulkhead connector, CEL/CES 24°, steel

Scope of supply: connector without union nut and cutting ring

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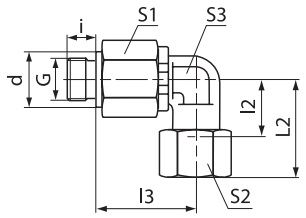
Tube outer Ø	Series	Working pressure	G1	L1	L2	L3	L6	S1	S2	S3	Ø d2	Item no.
mm				mm	mm	mm	mm				mm	
8	L	PN 315	M 14 x 1.5	40.0	16.0	5	23.0	19	22	17	8	**DGSNW06HL**
10	L	PN 315	M 16 x 1.5	50.0	16.0	5	23.0	24	30	22	10	**DGSNW08HL**
12	L	PN 315	M 18 x 1.5	50.0	16.0	5	23.0	24	30	24	12	**DGSNW10HL**
15	L	PN 315	M 22 x 1.5	51.0	19.0	5	26.0	24	30	30	15	**DGSNW13HL**
18	L	PN 315	M 26 x 1.5	61.0	28.0	15	35.5	36	41	36	18	**DGSNW16HL**
22	L	PN 160	M 30 x 2	63.0	30.5	15	38.0	36	41	41	22	**DGSNW20HL**
28	L	PN 160	M 36 x 2	75.0	31.0	15	38.5	55	60	46	28	**DGSNW25HL**
35	L	PN 160	M 45 x 2	74.0	31.5	15	42.0	55	60	55	35	**DGSNW32HL**
8	S	PN 500	M 16 x 1.5	42.0	16.0	5	23.0	19	22	22	8	**DGSNW04HSH**
12	S	PN 500	M 20 x 1.5	52.5	15.5	5	23.0	24	30	27	12	**DGSNW08HSH**
16	S	PN 400	M 24 x 1.5	51.5	17.5	5	26.0	24	30	32	16	**DGSNW13HSH**
20	S	PN 400	M 30 x 2	65.5	28.5	15	39.0	36	41	41	20	**DGSNW16HSH**
25	S	PN 400	M 36 x 2	66.0	30.0	15	42.0	36	41	46	25	**DGSNW20HSH**
30	S	PN 400	M 42 x 2	75.5	30.5	15	44.0	55	60	50	30	**DGSNW25HSH**

Rotary fitting, ball bearing, AGM soft seal, ISO 9974, type E, CEL/CES 24°, elbow 90°, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: ball bearing
Type: angle 90°
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



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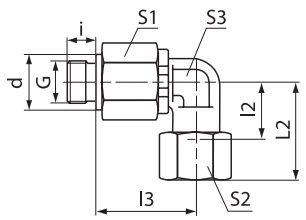
Tube outer Ø	Series	Working pressure	G	i	L2	l2	l3	S1	S2	S3	Ø d	Item no.
mm				mm	mm	mm	mm				mm	
6	S	PN 250	M 14 x 1.5	12	31	16.0	39.5	22	17	17	19	**DGM90NW03HS14**
8	S	PN 250	M 14 x 1.5	12	32	17.0	39.5	22	19	17	19	**DGM90NW04HS**
12	S	PN 250	M 18 x 1.5	12	38	21.5	51.0	30	24	22	22	**DGM90NW08HS**
16	S	PN 250	M 22 x 1.5	14	43	24.5	49.0	30	30	22	27	**DGM90NW13HS**
20	S	PN 250	M 27 x 2	16	48	26.5	67.0	41	36	36	32	**DGM90NW16HS**
25	S	PN 250	M 33 x 2	18	54	30.0	65.0	41	46	36	40	**DGM90NW20HS**
30	S	PN 250	M 42 x 2	20	62	35.5	82.5	60	50	50	50	**DGM90NW25HS**
38	S	PN 250	M 48 x 2	22	72	41.0	80.5	60	60	50	55	**DGM90NW32HS**

Rotary fitting, ball bearing, AGR soft seal, ISO 1179, type E, CEL/CES 24°, elbow 90°, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (screw-in connector)
Construction type addition: ball bearing
Type: angle 90°
Sealing form 1: type E
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.



www ...DGR90

Tube outer Ø	Series	Working pressure	G	i	L2	l2	l3	S1	S2	S3	Ø d	Item no.
mm				mm	mm	mm	mm				mm	
6	S	PN 250	G 1/4" -19	12	31	16.0	39.5	22	17	17	19	**DGR90NW03HS**
8	S	PN 250	G 1/4" -19	12	32	17.0	39.5	22	19	17	19	**DGR90NW04HS**
12	S	PN 250	G 3/8" -19	12	38	21.5	51.0	30	24	22	22	**DGR90NW08HS**
16	S	PN 250	G 1/2" -14	14	43	24.5	49.0	30	30	22	27	**DGR90NW13HS**
20	S	PN 250	G 3/4" -14	16	48	26.5	67.0	41	36	36	32	**DGR90NW16HS**
25	S	PN 250	G 1" -11	18	54	30.0	65.0	41	46	36	40	**DGR90NW20HS**
30	S	PN 250	G 1.1/4" -11	20	62	35.5	82.5	60	50	50	50	**DGR90NW25HS**
38	S	PN 250	G 1.1/2" -11	22	72	41.0	80.5	60	60	50	55	**DGR90NW32HS**



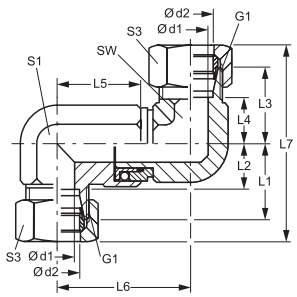


Rotary fitting, ball bearing, connecting socket, CEL/CES 24°, double angle 90°, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting
Type: double angle 90°
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

1

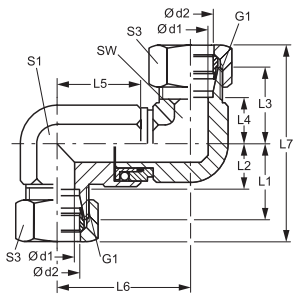


Rotary fitting, ball bearing, union connector, CEL/CES 24°, double elbow 90°, steel

Scope of supply: connector without union nut and cutting ring

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Tube outer Ø	Series	Working pressure	G1	L1	L3	L4	L6	S1	S3	SW	Ø d2	Item no.
mm				mm	mm	mm	mm			mm	mm	
12	S	PN 250	M 20 x 1.5	29.0	34.0	26.5	53.0	22	24	24	12	**DGDNW08HS**
16	S	PN 250	M 24 x 1.5	33.0	34.0	25.5	53.0	22	30	24	16	**DGDNW13HS**
20	S	PN 250	M 30 x 2	37.0	50.0	39.5	76.0	36	36	32	20	**DGDNW16HS**
25	S	PN 250	M 36 x 2	42.0	50.0	38.0	76.0	36	46	32	25	**DGDNW20HS**
30	S	PN 250	M 42 x 2	49.0	58.0	44.5	92.5	50	50	50	30	**DGDNW25HS**
38	S	PN 250	M 52 x 2	57.0	58.0	42.0	92.5	50	60	50	38	**DGDNW32HS**



Rotary fitting, ball bearing, union connector, CEL/CES 24°, double elbow 90°, steel

Scope of supply: connector without union nut and cutting ring

www ...DGDH

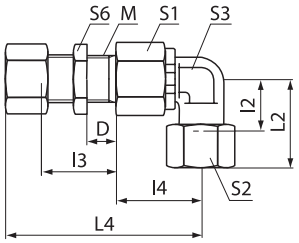
Tube outer Ø	Series	Working pressure	G1	L1	L2	L3	L4	L6	SW	Ø d2	Item no.
mm				mm	mm	mm	mm	mm	mm	mm	
12	S	PN 400	M 20 x 1.5	28	20.5	28	20.5	32	32	12	**DGDNW08HSH**
16	S	PN 400	M 24 x 1.5	34	25.5	34	25.5	40	40	16	**DGDNW13HSH**
20	S	PN 250	M 30 x 2	38	27.5	38	27.5	45	45	20	**DGDNW16HSH**
25	S	PN 250	M 36 x 2	45	33.0	45	33.0	55	55	25	**DGDNW20HSH**
30	S	PN 250	M 42 x 2	52	38.5	52	38.5	65	65	30	**DGDNW25HSH**
38	S	PN 250	M 52 x 2	59	43.0	59	43.0	75	75	38	**DGDNW32HSH**

Rotary fitting, ball bearing, bulkhead connector, CEL/CES 24°, elbow 90°, steel



Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: rotary fitting (bulkhead connector)
Construction type addition: ball bearing
Type: angle 90°
Sealing form 1: 24° inner cone
Sealing form 2: 24° inner cone
Scope of supply: connector without union nut and cutting ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

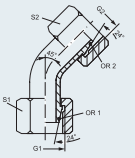


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Tube outer Ø	Series	Working pressure	L2	l2	l3	l4	M	S1	S3	S6	Item no.
6	S	PN 250	31	16.0	16.0	39.5	M 14 x 1.5	22	17	19	**DGS90NW03HS**
8	S	PN 250	32	17.0	16.0	39.5	M 16 x 1.5	22	17	22	**DGS90NW04HS**
12	S	PN 250	38	21.5	15.5	51.0	M 20 x 1.5	30	22	27	**DGS90NW08HS**
16	S	PN 250	43	24.5	17.5	49.0	M 24 x 1.5	30	22	32	**DGS90NW13HS**
20	S	PN 250	48	26.5	28.5	67.0	M 30 x 2	41	36	41	**DGS90NW16HS**
25	S	PN 250	54	30.0	30.0	65.0	M 36 x 2	41	36	46	**DGS90NW20HS**
30	S	PN 250	62	35.5	30.5	82.5	M 42 x 2	60	50	50	**DGS90NW25HS**
38	S	PN 250	72	41.0	31.0	80.5	M 52 x 2	60	50	65	**DGS90NW32HS**

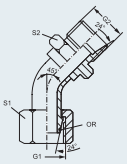
Tube elbows

Elbow 45°



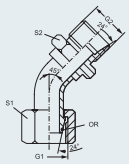
Tube elbow, union connector, ISO 8434-1, DKOL 24°, elbow 45°, steel

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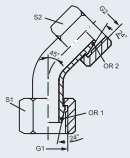
Tube elbow, union connector, ISO 8434-1, DKOL 24°/CEL 24°, elbow 45°, steel

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Tube elbow, union connector, ISO 8434-1, DKOS 24°/CES 24°, elbow 45°, steel

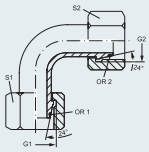
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Tube elbow, union connector, ISO 8434-1, DKOS 24°, elbow 45°, steel

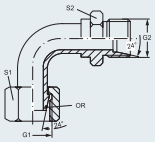
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Elbow 90°



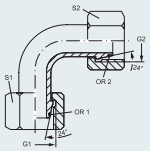
Tube elbow, union connector, ISO 8434-1, DKOL 24°, elbow 90°, steel

WB90AOL Page 195



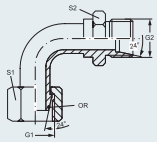
Tube elbow, union connector, ISO 8434-1, DKOL 24°/CEL 24°, elbow 90°, steel

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Tube elbow, union connector, ISO 8434-1, DKOS 24°, elbow 90°, steel

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Tube elbow, union connector, ISO 8434-1, DKOS 24°/CES 24°, elbow 90°, steel

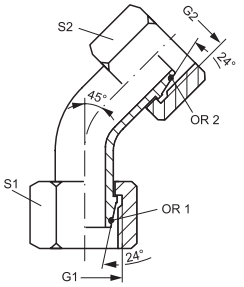
WB90AOSHS Page 196

Tube elbow, union connector, ISO 8434-1, DKOL 24°, elbow 45°, steel

Connection 1: metric nut thread
Connection 2: metric nut thread
Construction type: Connecting socket (short tube bend)
Type: angle 45°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° outer cone with O-ring
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





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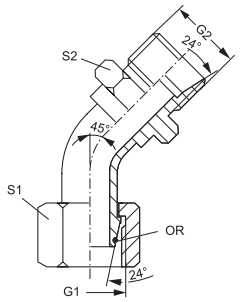
Tube outer Ø	Series	Calculated designpressure	OR1 + OR2	G1 + G2	S1	S2	Item no.
mm		bar					
6	L	315	4.0 x 1.5	M 12 x 1.5	14	14	**WB45NW04AOL**
8	L	315	6.0 x 1.5	M 14 x 1.5	17	17	**WB45NW06AOL**
10	L	315	7.5 x 1.5	M 16 x 1.5	19	19	**WB45NW08AOL**
12	L	315	9.0 x 1.5	M 18 x 1.5	22	22	**WB45NW10AOL**
15	L	315	12.0 x 2.0	M 22 x 1.5	27	27	**WB45NW13AOL**
18	L	315	15.0 x 2.0	M 26 x 1.5	32	32	**WB45NW16AOL**
22	L	160	20.0 x 2.0	M 30 x 2	36	36	**WB45NW20AOL**
28	L	160	26.0 x 2.0	M 36 x 2	41	41	**WB45NW25AOL**
35	L	160	32.0 x 2.5	M 45 x 2	50	50	**WB45NW32AOL**
42	L	160	38.0 x 2.5	M 52 x 2	60	60	**WB45NW40AOL**

Tube elbow, union connector, ISO 8434-1, DKOL 24°/CEL 24°, elbow 45°, steel

Connection 1: metric nut thread
Connection 2: metric cylindrical outer thread
Construction type: Connecting socket (short tube bend)
Type: angle 45°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° inner cone
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

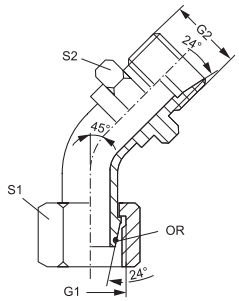




www ...WB45AOLHL

Tube outer Ø	Series	Calculated designpressure	OR	G1 + G2	S1	S2	Item no.
mm		bar					
6	L	315	4.0 x 1.5	M 12 x 1.5	14	12	**WB45AOL04HL**
8	L	315	6.0 x 1.5	M 14 x 1.5	17	14	**WB45AOL06HL**
10	L	315	7.5 x 1.5	M 16 x 1.5	19	17	**WB45AOL08HL**
12	L	315	9.0 x 1.5	M 18 x 1.5	22	19	**WB45AOL10HL**
15	L	315	12.0 x 2.0	M 22 x 1.5	27	22	**WB45AOL13HL**
18	L	315	15.0 x 2.0	M 26 x 1.5	32	27	**WB45AOL16HL**
22	L	160	20.0 x 2.0	M 30 x 2	36	30	**WB45AOL20HL**
28	L	160	26.0 x 2.0	M 36 x 2	41	36	**WB45AOL25HL**
35	L	160	32.0 x 2.5	M 45 x 2	50	46	**WB45AOL32HL**
42	L	160	38.0 x 2.5	M 52 x 2	60	55	**WB45AOL40HL**





Tube elbow, union connector, ISO 8434-1, DKOS 24°/CES 24°, elbow 45°, steel

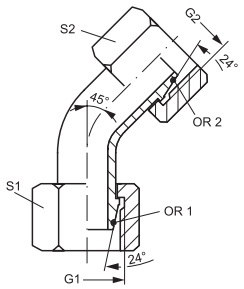
Connection 1: metric nut thread
Connection 2: metric cylindrical outer thread
Construction type: Connecting socket (short tube bend)
Type: angle 45°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° inner cone
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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Tube outer Ø	Series	Calculated designpressure	OR	G1 + G2	S1	S2	Item no.
mm		bar					
6	S	600	4.0 x 1.5	M 14 x 1.5	17	14	WB45AOS03HS
8	S	600	6.0 x 1.5	M 16 x 1.5	19	17	WB45AOS04HS
10	S	600	7.5 x 1.5	M 18 x 1.5	22	19	WB45AOS06HS
12	S	600	9.0 x 1.5	M 20 x 1.5	24	22	WB45AOS08HS
14	S	600	10.0 x 2.0	M 22 x 1.5	27	22	WB45AOS10HS
16	S	400	12.0 x 2.0	M 24 x 1.5	30	24	WB45AOS13HS
20	S	400	16.3 x 2.4	M 30 x 2	36	30	WB45AOS16HS
25	S	400	20.3 x 2.4	M 36 x 2	46	36	WB45AOS20HS
30	S	400	25.3 x 2.4	M 42 x 2	50	46	WB45AOS25HS
38	S	315	33.3 x 2.4	M 52 x 2	60	55	WB45AOS32HS





Tube elbow, union connector, ISO 8434-1, DKOS 24°, elbow 45°, steel

Connection 1: metric nut thread
Connection 2: metric nut thread
Construction type: Connecting socket (short tube bend)
Type: angle 45°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

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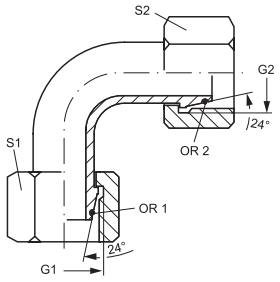
Tube outer Ø	Series	Calculated designpressure	OR1 + OR2	G1 + G2	S1	S2	Item no.
mm		bar					
6	S	600	4.0 x 1.5	M 14 x 1.5	17	17	WB45NW03AOS
8	S	600	6.0 x 1.5	M 16 x 1.5	19	19	WB45NW04AOS
10	S	600	7.5 x 1.5	M 18 x 1.5	22	22	WB45NW06AOS
12	S	600	9.0 x 1.5	M 20 x 1.5	24	24	WB45NW08AOS
14	S	600	10.0 x 2.0	M 22 x 1.5	27	27	WB45NW10AOS
16	S	400	12.0 x 2.0	M 24 x 1.5	30	30	WB45NW13AOS
20	S	400	16.3 x 2.4	M 30 x 2	36	36	WB45NW16AOS
25	S	400	20.3 x 2.4	M 36 x 2	46	46	WB45NW20AOS
30	S	400	25.3 x 2.4	M 42 x 2	50	50	WB45NW25AOS
38	S	315	33.2 x 2.4	M 52 x 2	60	60	WB45NW32AOS

Tube elbow, union connector, ISO 8434-1, DKOL 24°, elbow 90°, steel

Connection 1: metric nut thread
Connection 2: metric nut thread
Construction type: Connecting socket (short tube bend)
Type: angle 90°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.





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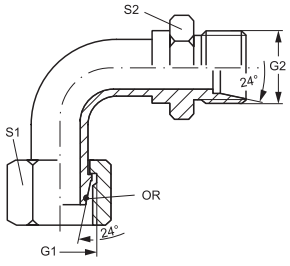
Tube outer Ø	Series	Calculated designpressure	OR1 + OR2	G1 + G2	S1	S2	Item no.
mm		bar					
6	L	315	4.0 x 1.5	M 12 x 1.5	14	14	WB90NW04AOL
8	L	315	6.0 x 1.5	M 14 x 1.5	17	17	WB90NW06AOL
10	L	315	7.5 x 1.5	M 16 x 1.5	19	19	WB90NW08AOL
12	L	315	9.0 x 1.5	M 18 x 1.5	22	22	WB90NW10AOL
15	L	315	12.0 x 2.0	M 22 x 1.5	27	27	WB90NW13AOL
18	L	315	15.0 x 2.0	M 26 x 1.5	32	32	WB90NW16AOL
22	L	160	20.0 x 2.0	M 30 x 2	36	36	WB90NW20AOL
28	L	160	26.0 x 2.0	M 36 x 2	41	41	WB90NW25AOL
35	L	160	32.0 x 2.5	M 45 x 2	50	50	WB90NW32AOL
42	L	160	38.0 x 2.5	M 52 x 2	60	60	WB90NW40AOL

Tube elbow, union connector, ISO 8434-1, DKOL 24°/CEL 24°, elbow 90°, steel

Connection 1: metric nut thread
Connection 2: metric cylindrical outer thread
Construction type: Connecting socket (short tube bend)
Type: angle 90°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° inner cone
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

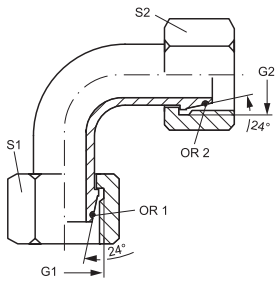




www ...WB90AOLHL

Tube outer Ø	Series	Calculated designpressure	OR	G1 + G2	S1	S2	Item no.
mm		bar					
6	L	315	4.0 x 1.5	M 12 x 1.5	14	14	WB90AOL04HL
8	L	315	6.0 x 1.5	M 14 x 1.5	17	14	WB90AOL06HL
10	L	315	7.5 x 1.5	M 16 x 1.5	19	17	WB90AOL08HL
12	L	315	9.0 x 1.5	M 18 x 1.5	22	19	WB90AOL10HL
15	L	315	12.0 x 2.0	M 22 x 1.5	27	22	WB90AOL13HL
18	L	315	15.0 x 2.0	M 26 x 1.5	32	27	WB90AOL16HL
22	L	160	20.0 x 2.0	M 30 x 2	36	36	WB90AOL20HL
28	L	160	26.0 x 2.0	M 36 x 2	41	36	WB90AOL25HL
35	L	160	32.0 x 2.5	M 45 x 2	50	46	WB90AOL32HL
42	L	160	38.0 x 2.5	M 52 x 2	60	55	WB90AOL40HL





Tube elbow, union connector, ISO 8434-1, DKOS 24°, elbow 90°, steel

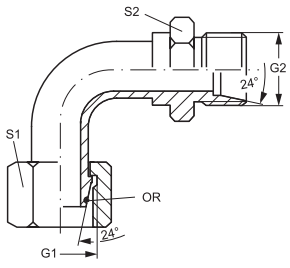
Connection 1: metric nut thread
Connection 2: metric nut thread
Construction type: Connecting socket (short tube bend)
Type: angle 90°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° outer cone with O-ring
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

www ...WB90AOS

Tube outer Ø	Series	Calculated designpressure	OR1 + OR2	G1 + G2	S1	S2	Item no.
mm		bar					
6	S	600	4.0 x 1.5	M 14 x 1.5	17	17	WB90NW03AOS
8	S	600	6.0 x 1.5	M 16 x 1.5	19	19	WB90NW04AOS
10	S	600	7.5 x 1.5	M 18 x 1.5	22	22	WB90NW06AOS
12	S	600	9.0 x 1.5	M 20 x 1.5	24	24	WB90NW08AOS
14	S	600	10.0 x 2.0	M 22 x 1.5	27	27	WB90NW10AOS
16	S	400	12.0 x 2.0	M 24 x 1.5	30	30	WB90NW13AOS
20	S	400	16.3 x 2.4	M 30 x 2	36	36	WB90NW16AOS
25	S	400	20.3 x 2.4	M 36 x 2	46	46	WB90NW20AOS
30	S	400	25.3 x 2.4	M 42 x 2	50	50	WB90NW25AOS
38	S	360	33.2 x 2.4	M 52 x 2	60	60	WB90NW32AOS





Tube elbow, union connector, ISO 8434-1, DKOS 24°/CES 24°, elbow 90°, steel

Connection 1: metric nut thread
Connection 2: metric cylindrical outer thread
Construction type: Connecting socket (short tube bend)
Type: angle 90°
Sealing form 1: 24° outer cone with O-ring
Sealing form 2: 24° inner cone
Standard: ISO 8434-1
Surface: electro galvanised
Material: steel

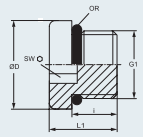
Note:
Information about assembly, installation, pressure loads and permissible operating temperatures can be found in the technical information for tube fittings.

www ...WB90AOSHS

Tube outer Ø	Series	Calculated designpressure	OR	G1 + G2	S1	S2	Item no.
mm		bar					
6	S	600	4.0 x 1.5	M 14 x 1.5	17	14	WB90AOS03HS
8	S	600	6.0 x 1.5	M 16 x 1.5	19	17	WB90AOS04HS
10	S	600	7.5 x 1.5	M 18 x 1.5	22	19	WB90AOS06HS
12	S	600	9.0 x 1.5	M 20 x 1.5	24	22	WB90AOS08HS
14	S	600	10.0 x 2.0	M 22 x 1.5	27	22	WB90AOS10HS
16	S	400	12.0 x 2.0	M 24 x 1.5	30	24	WB90AOS13HS
20	S	400	16.3 x 2.4	M 30 x 2	36	30	WB90AOS16HS
25	S	400	20.3 x 2.4	M 36 x 2	46	36	WB90AOS20HS
30	S	400	25.3 x 2.4	M 42 x 2	50	46	WB90AOS25HS
38	S	360	33.3 x 2.4	M 52 x 2	60	55	WB90AOS32HS

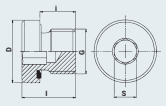
Plug screws

Metric



Plug screw, hexagon socket, AGM, OR, ISO 6149, steel

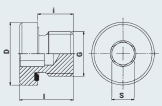
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Plug screw, hexagon socket, AGM soft seal, ISO 9974, type E, steel

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Imperial



Plug screw, hexagon socket, AGR soft seal, ISO 1179, type E, steel

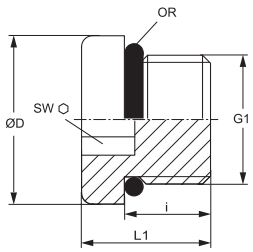
VHR90ED Page 199



Plug screw, hexagon socket, AGM, OR, ISO 6149, steel

Connection 1: metric cylindrical outer thread
Construction type: blanking screw, with hexagon socket
Type: straight
Sealing form 1: type F
Standard connection 1: ISO 6149-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



1

www ...VHMO90

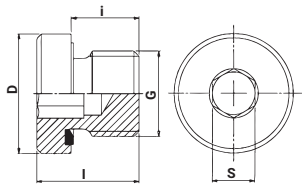
Working pressure	OR	G1	i	L1	SW	Ø D	Item no.
			mm	mm	mm	mm	
PN 630	6.1 x 1.6	M 8 x 1	9.5	13.0	4	12	VHMO90-08
PN 630	8.1 x 1.6	M 10 x 1	9.5	13.5	5	13	VHMO90-10
PN 630	9.3 x 2.2	M 12 x 1.5	11.0	16.0	6	17	VHMO90-12
PN 630	11.3 x 2.2	M 14 x 1.5	11.0	16.0	6	19	VHMO90-14
PN 630	13.3 x 2.2	M 16 x 1.5	12.5	17.5	8	21	VHMO90-16
PN 630	15.3 x 2.2	M 18 x 1.5	14.0	19.0	8	23	VHMO90-18
PN 630	17.3 x 2.2	M 20 x 1.5	14.0	19.0	10	26	VHMO90-20
PN 630	19.3 x 2.2	M 22 x 1.5	15.0	20.0	10	27	VHMO90-22
PN 400	23.6 x 2.9	M 27 x 2	18.5	23.5	12	32	VHMO90-27
PN 400	29.6 x 2.9	M 33 x 2	18.5	25.0	17	40.8	VHMO90-33
PN 400	38.6 x 2.9	M 42 x 2	19.0	25.5	22	48	VHMO90-42
PN 400	44.6 x 2.9	M 48 x 2	21.5	28.0	24	55	VHMO90-48



Plug screw, hexagon socket, AGM soft seal, ISO 9974, type E, steel

Connection 1: metric cylindrical outer thread
Construction type: blanking screw, with hexagon socket
Type: straight
Sealing form 1: type E
Surface: electro galvanised
Material: steel

Note:
Also available without seal as FHM.



www ...VHM90ED

Working pressure	D	G	i	l	S	Item no.
	mm		mm	mm	mm	
PN 400	12.0	M 8 x 1	8	12.0	4	VHM90-08ED
PN 400	14.0	M 10 x 1	8	12.0	5	VHM90-10ED
PN 400	17.0	M 12 x 1.5	12	17.0	6	VHM90-12ED
PN 400	19.0	M 14 x 1.5	12	17.0	6	VHM90-14ED
PN 400	22.0	M 16 x 1.5	12	17.0	8	VHM90-16ED
PN 400	24.0	M 18 x 1.5	12	17.0	8	VHM90-18ED
PN 400	26.0	M 20 x 1.5	14	19.0	10	VHM90-20ED
PN 400	27.0	M 22 x 1.5	14	19.0	10	VHM90-22ED
PN 400	29.9	M 24 x 1.5	14	19.0	12	VHM90-24ED
PN 400	32.0	M 26 x 1.5	16	21.0	12	VHM90-26ED
PN 400	32.0	M 27 x 2	16	21.0	12	VHM90-27ED
PN 400	40.0	M 33 x 2	16	22.5	17	VHM90-33ED
PN 315	50.0	M 42 x 2	16	22.5	22	VHM90-42ED
PN 315	55.0	M 48 x 2	16	22.5	24	VHM90-48ED

Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Plug screw, hexagon socket, AGM soft seal, ISO 9974, type E, stainless steel, VHM 90 ED VA	**...VHM90EDVA**

Plug screw, hexagon socket, AGR soft seal, ISO 1179, type E, steel

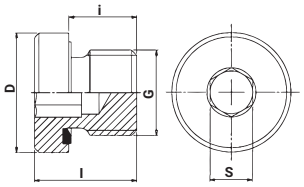


Connection 1: BSPP male thread, cylindric
Construction type: blanking screw, with hexagon socket
Type: straight
Sealing form 1: type E
Surface: electro galvanised
Material: steel

Note:
Also available without seal as FHR.

www ...VHR90ED

Working pressure	D	G	i	l	S	Item no.
	mm		mm	mm	mm	
PN 400	14	G 1/8" -28	8	12.0	5	**VHR90-1/8ED**
PN 400	19	G 1/4" -19	12	17.0	6	**VHR90-1/4ED**
PN 400	22	G 3/8" -19	12	17.0	8	**VHR90-3/8ED**
PN 400	27	G 1/2" -14	14	19.0	10	**VHR90-1/2ED**
PN 400	32	G 3/4" -14	16	21.0	12	**VHR90-3/4ED**
PN 400	40	G 1" -11	16	22.5	17	**VHR90-1ED**
PN 315	50	G 1.1/4" -11	16	22.5	22	**VHR90-11/4ED**
PN 315	55	G 1.1/2" -11	16	22.5	24	**VHR90-11/2ED**
PN 315	72	G 2" -11	24	34.5	32	**VHR90-2ED**



Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Plug screw, hexagon socket, AGR soft seal, ISO 1179, type E, stainless steel, VHR 90 ED VA	**...VHR90EDVA**

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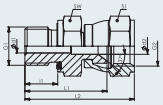
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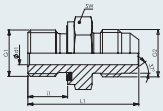
Stud connectors (37° JIC / ISO 8434-2 adaptors)

Metric



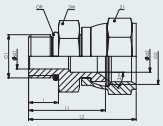
Stud connector, ISO 8434-2, AGM soft seal, ISO 9974, type E, DKJ 37°, straight, steel

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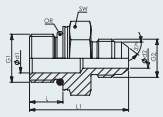
Stud connector, ISO 8434-2, AGM soft seal, ISO 9974, type E, AGJ 37°, straight, steel

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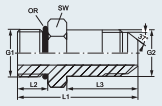
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, DKJ 37°, straight, steel

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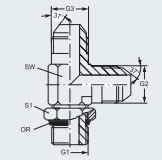
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, AGJ 37°, straight, steel

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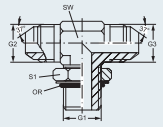
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, AGJ 37°, straight, long, steel

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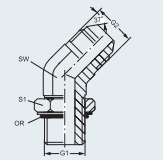
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, L shape, steel

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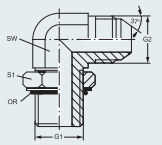
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, T shape, steel

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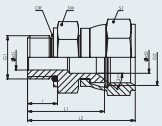
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, elbow 45°, steel

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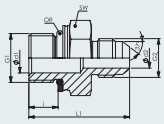
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, elbow 90°, steel

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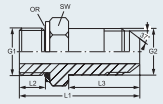
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, DKJ 37°, straight, steel

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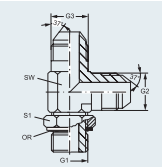
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, AGJ 37°, straight, steel

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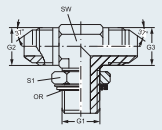
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, AGJ 37°, straight, long, steel

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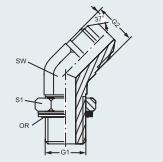
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable,AGJ 37°, L shape, steel

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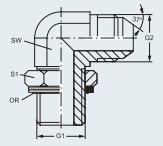
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable, AGJ 37°, T form, steel

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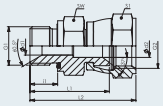
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable, AGJ 37°, elbow 45°, steel

W45HMOKHJ Page 217



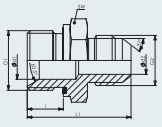
Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable, AGJ 37°, elbow 90°, steel

W90HMOKHJ Page 218



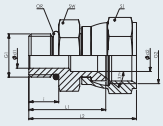
Stud connector, ISO 8434-2, AGR soft seal, ISO 1179, type E, DKJ 37°, straight, steel

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Stud connector, ISO 8434-2, AGR soft seal, ISO 1179, type E, AGJ 37°, straight, steel

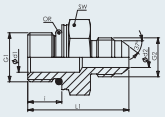
GEHREDHJ Page 220



Stud connector, ISO 8434-2, AGR, OR, DKJ 37°, straight, steel

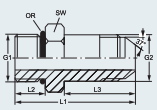
GEHROAJ Page 221

BSP



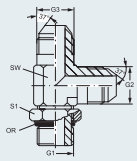
Stud connector, ISO 8434-2, AGR, OR, AGJ 37°, straight, steel

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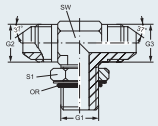
Stud connector, ISO 8434-2, AGR, OR, AGJ 37°, straight, long, steel

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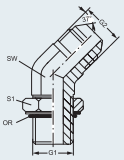
Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, L shape, steel

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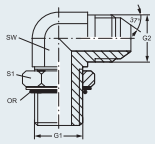
Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, T-shape, steel

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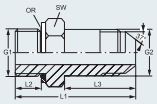
Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, elbow 45°, steel

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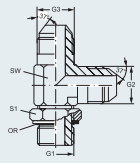
Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, elbow 90°, steel

W90HROHJ Page 225



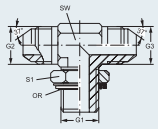
Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, AGJ 37°, straight, long, steel

GEHROKLHJ Page 226



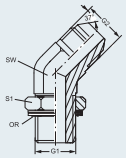
Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, L shape, steel

LHROKHJ Page 227



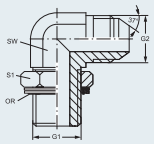
Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, T shape, steel

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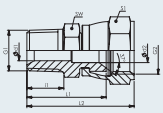
Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, elbow 45°, steel

W45HROKHJ Page 228



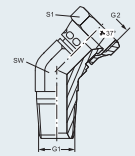
Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, elbow 90°, steel

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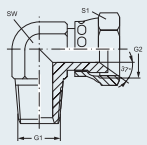
Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, straight, steel

GEHRKAJ Page 230



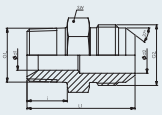
Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, angle 45°, steel

W45HRKAJ Page 231



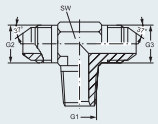
Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, angle 90°, steel

W90HRKAJ Page 231



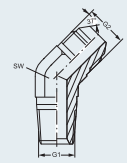
Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, straight, steel

GEHRKHJ Page 232



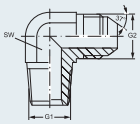
Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, T form, steel

THRKHJ Page 233



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, angle 45°, steel

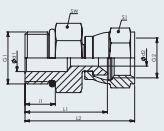
W45HRKHJ Page 234



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, angle 90°, steel

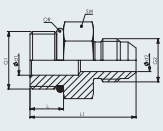
W90HRKHJ Page 234

UN / UNF



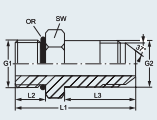
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, DKJ 37°, straight, steel

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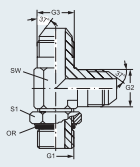
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, AGJ 37°, straight, steel

GEOHJ Page 236



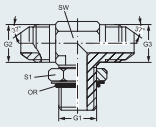
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, AGJ 37°, straight, long, steel

GEOLHJ Page 237



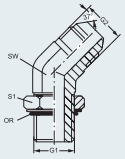
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, L form, steel

LOHJ Page 238



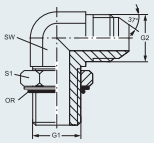
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, T form, steel

TOHJ Page 239



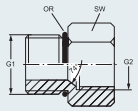
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, elbow 45°, steel

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Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, elbow 90°, steel

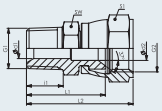
W90OHJ Page 240



Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, IGJ 37°, straight, steel

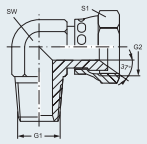
GEOIJ Page 241

NPT



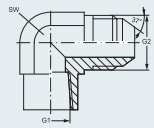
Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, straight, steel

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Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, elbow 90°, steel

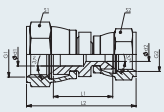
W90HNAJ Page 242



Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, elbow 90°, steel

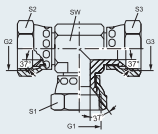
W90INHJ Page 243

Union connectors (37° JIC / ISO 8434-2 adaptors)



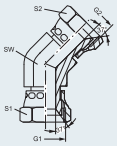
Union connector, ISO 8434-2, DKJ 37°, straight, steel

GAJ Page 244



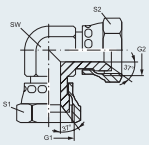
Swivel connector, ISO 8434-2, DKJ 37°, T shape, steel

TAJ Page 245



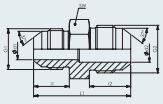
Swivel connector, ISO 8434-2, DKJ 37°, elbow 45°, steel

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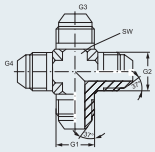
Swivel connector, ISO 8434-2, DKJ 37°, elbow 90°, steel

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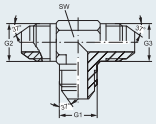
Union connector, ISO 8434-2, AGJ 37°, straight, steel

GHJ Page 246



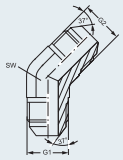
Union connector, ISO 8434-2, AGJ 37°, cross shape, steel

KHJ Page 247



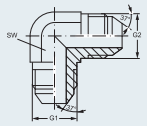
Union connector, ISO 8434-2, AGJ 37°, T shape, steel

THJ Page 247



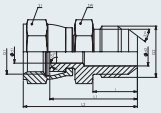
Union connector, ISO 8434-2, AGJ 37°, elbow 45°, steel

W45HJ Page 248



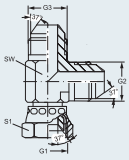
Union connector, ISO 8434-2, AGJ 37°, elbow 90°, steel

W90HJ Page 248



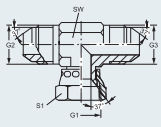
Union connector, ISO 8434-2, DKJ 37°, AGJ 37°, straight, steel

GAJHJ Page 249



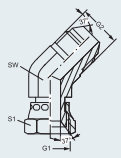
Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, L shape, steel

LAJHJ Page 250



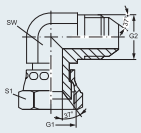
Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, T shape, steel

TAJHJ Page 251



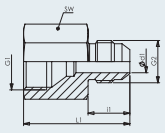
Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 45°, steel

W45AJHJ Page 251



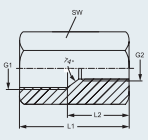
Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 90°, steel

W90AJHJ Page 252



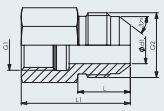
Union connector, ISO 8434-2, IGJ 37°, AGJ 37°, straight, steel

GIJHJ Page 252



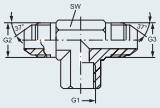
Union connector, ISO 8434-2, DKJ 37°, IGR, steel

UEMAJIR Page 253



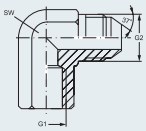
Union connector, ISO 8434-2, IGR, AGJ 37°, straight, steel

GIRHJ Page 254



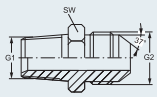
Union connector, ISO 8434-2, IGR, AGJ 37°, T shape, steel

TIRHJ Page 255



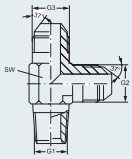
Union connector, ISO 8434-2, IGR, AGJ 37°, elbow 90°, steel

W90IRHJ Page 255



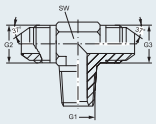
Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, straight, steel

GEHNHJ Page 256



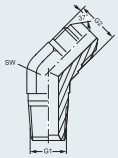
Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, L shape, steel

LHNHJ Page 257



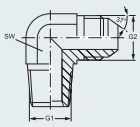
Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, T shape, steel

THNHJ Page 258



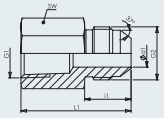
Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 45°, steel

W45HNHJ Page 258



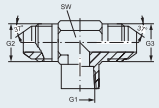
Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 90°, steel

W90HNHJ Page 259



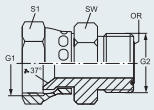
Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, straight, steel

GINHJ Page 260



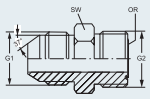
Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, T shape, steel

TINHJ Page 261



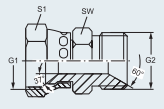
Union connector, ISO 8434-2, DKJ 37°, AG ORFS, ISO 8434-3, straight, steel

GAJHJOF Page 262



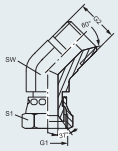
Union connector, ISO 8434-2, AGJ 37°, AG ORFS, ISO 8434-3, straight, steel

GHJHJOF Page 262



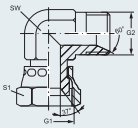
Union connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, straight, steel

GAJHB Page 263



Swivel connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, elbow 45°, steel

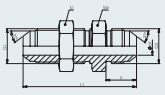
W45AJHB Page 264



Swivel connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, elbow 90°, steel

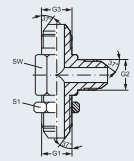
W90AJHB Page 264

Bulkhead connectors (37° JIC / ISO 8434-2 adaptors)



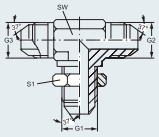
Bulkhead connector, ISO 8434-2, AGJ 37°, straight, steel

SVHJ Page 265



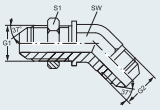
Bulkhead connector, ISO 8434-2, AGJ 37°, L shape, steel

LSVHJ Page 265



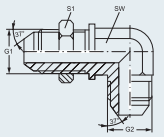
Bulkhead connector, ISO 8434-2, AGJ 37°, T shape, steel

TSVHJ Page 266



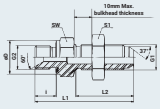
Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 45°, steel

SW45HJ Page 266



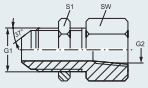
Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 90°, steel

SW90HJ Page 267



Bulkhead connector, ISO 8434-2, AGJ 37°, AGR soft seal, ISO 1179, type E, straight, steel

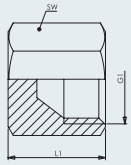
SVHJHRED Page 267



Bulkhead connector, ISO 8434-2, AGJ 37°, IGN, SAE J 514, straight, steel

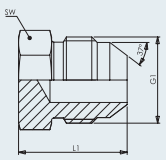
SVHJIN Page 268

Caps and plugs (37° JIC / ISO 8434-2 adaptors)



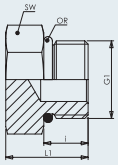
Cap, ISO 8434-2, DKJ 37°, steel

VERSCHLUSSAJ Page 268



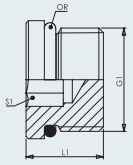
Plug, ISO 8434-2, AGJ 37°, steel

VERSCHLUSSHJ Page 269



Plug, AG UNF, OR, ISO 11926, steel

VERSCHLUSSO Page 269

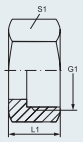


Plug, hexagon socket, AG UNF, OR, ISO 11926, steel

VERSCHLUSSOIS Page 270

Flare coupling parts

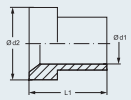
Nuts



Tube nut, AJ, ISO 8434-2, steel

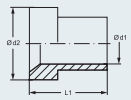
UEMAJ Page 270

Support rings



Support sleeve for flare 37°, ISO 8434-2, imperial tube, steel

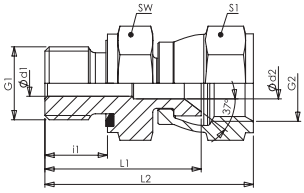
STUETZRINGAJ Page 271



Support sleeve for flare 37°, ISO 8434-2, metric tube, steel

STUETZRINGAJM Page 272





Stud connector, ISO 8434-2, AGM soft seal, ISO 9974, type E, DKJ 37°, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: 37° internal cone
Standard connection 1: ISO 9974-2
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

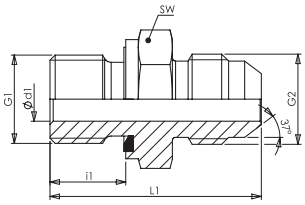
www ...GEHMEDAJ

G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
M 10 x 1	7/16" -20 UNF	8.0	23.0	32.5	14	14	4.0	4.0	GEHMED10AJ04
M 12 x 1.5	1/2" -20 UNF	12.0	29.0	38.5	17	17	4.0	4.0	GEHMED12AJ05
M 14 x 1.5	9/16" -18 UNF	12.0	30.0	40.0	19	19	5.0	6.0	GEHMED14AJ06
M 16 x 1.5	3/4" -16 UNF	12.0	33.0	44.5	24	22	7.0	9.9	GEHMED16AJ08
M 22 x 1.5	7/8" -14 UNF	14.0	37.0	50.7	27	27	12.0	12.0	GEHMED22AJ10
M 27 x 2	1.1/16" -12 UN	16.0	40.5	55.4	32	32	15.5	15.5	GEHMED27AJ12
M 33 x 2	1.5/16" -12 UN	18.0	44.5	61.3	41	41	20.0	20.0	GEHMED33AJ16

Spare parts:

Soft seal for ED fittings, WD	**...WD**





Stud connector, ISO 8434-2, AGM soft seal, ISO 9974, type E, AGJ 37°, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: 37° external cone
Standard connection 1: ISO 9974-2
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GEHMEDHJ

G1	G2	i1	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
M 10 x 1	7/16" -20 UN	8	31.0	14	4.0	GEHMED10HJ04
M 12 x 1.5	1/2" -20 UNF	12	33.5	17	6.0	GEHMED12HJ05
M 12 x 1.5	9/16" -18 UNF	12	33.6	17	6.0	GEHMED12HJ06
M 14 x 1.5	9/16" -18 UNF	12	33.5	19	7.0	GEHMED14HJ06
M 16 x 1.5	9/16" -18 UNF	12	35.0	22	7.5	GEHMED16HJ06
M 16 x 1.5	3/4" -16 UNF	12	37.6	22	9.0	GEHMED16HJ08
M 18 x 1.5	3/4" -16 UNF	12	39.1	24	9.9	GEHMED18HJ08
M 18 x 1.5	7/8" -14 UNF	12	41.7	27	11.0	GEHMED18HJ10
M 22 x 1.5	7/8" -14 UNF	14	44.2	27	12.3	GEHMED22HJ10
M 22 x 1.5	1.1/16" -12 UN	14	45.5	32	14.0	GEHMED22HJ12
M 27 x 2	1.1/16" -12 UN	16	47.5	32	15.5	GEHMED27HJ12
M 33 x 2	1.5/16" -12 UN	18	51.6	41	21.5	GEHMED33HJ16

G1	G2	i1	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
M 42 x 2	1.5/8" -12 UN	20	54.9	50	27.5	**GEHMED42HJ20**
M 48 x 2	1.7/8" -12 UN	22	68.5	55	33.5	**GEHMED48HJ24**

Spare parts:

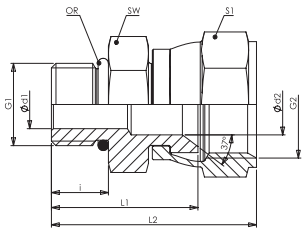
Soft seal for ED fittings, WD	**...WD**

Stud connector, ISO 8434-2, AGM, OR, ISO 6149, DKJ 37°, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° internal cone
Standard connection 1: ISO 6149-3
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.





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OR	G1	G2	i	L1	L2	S1	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm		mm	mm	mm	
8.1 x 1.6	M 10 x 1	7/16" -20 UNF	9.5	25.0	34.5	14	16	14	3	3.0	**GEHMO10AJ04**
8.1 x 1.6	M 10 x 1	1/2" -20 UNF	9.5	26.2	35.7	17	17	14	3	4.4	**GEHMO10AJ05**
9.3 x 2.2	M 12 x 1.5	7/16" -20 UNF	11.0	27.0	36.5	14	16	17	4	4.0	**GEHMO12AJ04**
9.3 x 2.2	M 12 x 1.5	1/2" -20 UNF	11.0	28.2	37.7	17	17	17	4	4.0	**GEHMO12AJ05**
11.3 x 2.2	M 14 x 1.5	1/2" -20 UNF	11.0	29.2	38.7	17	17	19	6	4.4	**GEHMO14AJ05**
11.3 x 2.2	M 14 x 1.5	9/16" -18 UNF	11.0	29.3	39.3	19	19	19	6	6.0	**GEHMO14AJ06**
13.3 x 2.2	M 16 x 1.5	9/16" -18 UNF	12.5	31.8	41.8	19	19	22	6	6.0	**GEHMO16AJ06**
13.3 x 2.2	M 16 x 1.5	3/4" -16 UNF	12.5	33.4	44.9	24	22	22	7	9.9	**GEHMO16AJ08**
15.3 x 2.2	M 18 x 1.5	3/4" -16 UNF	14.0	35.4	46.9	24	22	24	9	9.0	**GEHMO18AJ08**
15.3 x 2.2	M 18 x 1.5	7/8" -14 UNF	14.0	36.6	50.3	27	27	24	9	12.3	**GEHMO18AJ10**
19.3 x 2.2	M 22 x 1.5	7/8" -14 UNF	15.0	39.6	53.3	27	27	27	12	12.0	**GEHMO22AJ10**
19.3 x 2.2	M 22 x 1.5	1.1/16" -12 UN	15.0	40.1	55.0	32	32	27	12	15.5	**GEHMO22AJ12**
23.6 x 2.9	M 27 x 2	1.1/16" -12 UN	18.5	44.6	59.5	32	32	32	15	15.0	**GEHMO27AJ12**
23.6 x 2.9	M 27 x 2	1.5/16" -12 UN	18.5	45.6	62.4	41	38	32	15	21.5	**GEHMO27AJ16**
29.6 x 2.9	M 33 x 2	1.5/16" -12 UN	18.5	46.6	63.4	41	38	41	20	20.0	**GEHMO33AJ16**
38.6 x 2.9	M 42 x 2	1.5/8" -12 UN	19.0	52.0	68.3	50	50	50	26	26.0	**GEHMO42AJ20**
44.6 x 2.9	M 48 x 2	1.7/8" -12 UN	21.5	59.3	78.7	60	60	55	32	32.0	**GEHMO48AJ24**





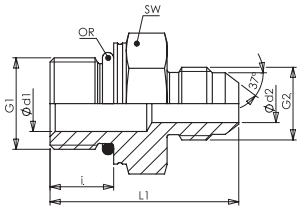


Stud connector, ISO 8434-2, AGM, OR, ISO 6149, AGJ 37°, steel

Connection 1: metric cylindrical outer thread
Standard connection 1: ISO 6149-3
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



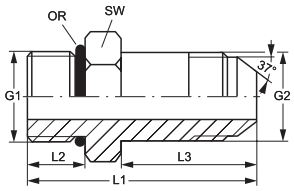
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° external cone

www ...GEHMOHJ

OR	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
8.1 x 1.6	M 10 x 1	7/16" -20 UNF	8.5	30	14	4.5	4.5	**GEHMO10HJ04**
8.1 x 1.6	M 10 x 1	1/2" -20 UNF	8.5	30	14	4.5	4.5	**GEHMO10HJ05**
9.3 x 2.2	M 12 x 1.5	7/16" -20 UNF	11	33	17	4.5	4.5	**GEHMO12HJ04**
9.3 x 2.2	M 12 x 1.5	1/2" -20 UNF	11	30	17	6	6	**GEHMO12HJ05**
11.3 x 2.2	M 14 x 1.5	1/2" -20 UNF	11	34	19	6	6	**GEHMO14HJ05**
11.3 x 2.2	M 14 x 1.5	9/16" -18 UNF	11	34.1	19	7.5	7.5	**GEHMO14HJ06**
11.3 x 2.2	M 14 x 1.5	3/4" -16 UNF	11	36.7	19	7.5	7.5	**GEHMO14HJ08**
13.3 x 2.2	M 16 x 1.5	9/16" -18 UNF	11.5	35.6	22	7.5	7.5	**GEHMO16HJ06**
13.3 x 2.2	M 16 x 1.5	3/4" -16 UNF	11.5	38.2	22	9	9	**GEHMO16HJ08**
15.3 x 2.2	M 18 x 1.5	9/16" -18 UNF	12.5	37.1	24	11	7.5	**GEHMO18HJ06**
15.3 x 2.2	M 18 x 1.5	3/4" -16 UNF	12.5	39.7	24	9	9	**GEHMO18HJ08**
15.3 x 2.2	M 18 x 1.5	7/8" -14 UNF	12.5	42.3	24	11	11	**GEHMO18HJ10**
19.3 x 2.2	M 22 x 1.5	7/8" -14 UNF	13	44.8	27	11	11	**GEHMO22HJ10**
19.3 x 2.2	M 22 x 1.5	1.1/16" -12 UN	13	47.4	27	14	14	**GEHMO22HJ12**
23.6 x 2.9	M 27 x 2	1.1/16" -12 UN	16	51.4	32	15.5	15.5	**GEHMO27HJ12**
23.6 x 2.9	M 27 x 2	1.5/16" -12 UN	16	52.6	36	18	21.5	**GEHMO27HJ16**
29.6 x 2.9	M 33 x 2	1.5/16" -12 UN	16	53.6	41	21.5	21.5	**GEHMO33HJ16**
38.6 x 2.9	M 42 x 2	1.5/8" -12 UN	16	57.8	50	27.5	27.5	**GEHMO42HJ20**
44.6 x 2.9	M 48 x 2	1.7/8" -12 UN	17.5	65.5	55	33	33	**GEHMO48HJ24**

Stud connector, ISO 8434-2, AGM, OR, ISO 6149, AGJ 37°, straight, long, steel

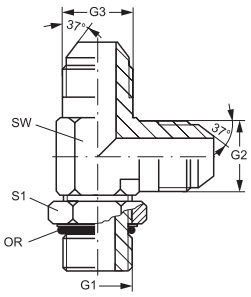


Connection 2: UN/UNF external threads
Construction type: screw-in socket, long
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° external cone

www ...GEHMOLHJ

OR	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
8.00 x 1.50	M 10 x 1	7/16" -20 UNF	51.0	9.0	35	15	**GEHMOL10HJ04**
8.00 x 1.50	M 10 x 1	1/2" -20 UNF	53.0	9.0	37	15	**GEHMOL10HJ05**
9.30 x 2.40	M 12 x 1.5	1/2" -20 UNF	55.5	11.0	37	18	**GEHMOL12HJ05**
11.30 x 2.40	M 14 x 1.5	1/2" -20 UNF	56.5	11.0	37	20	**GEHMOL14HJ05**
11.30 x 2.40	M 14 x 1.5	9/16" -18 UNF	58.5	11.0	39	20	**GEHMOL14HJ06**
13.30 x 2.40	M 16 x 1.5	9/16" -18 UNF	60.0	12.5	39	23	**GEHMOL16HJ06**
13.30 x 2.40	M 16 x 1.5	3/4" -16 UNF	69.0	12.5	48	23	**GEHMOL16HJ08**
15.30 x 2.40	M 18 x 1.5	3/4" -16 UNF	70.5	13.5	48	25	**GEHMOL18HJ08**
15.30 x 2.40	M 18 x 1.5	7/8" -14 UNF	75.5	13.5	53	25	**GEHMOL18HJ10**
19.30 x 2.40	M 22 x 1.5	7/8" -14 UNF	78.0	15.0	53	28	**GEHMOL22HJ10**
19.30 x 2.40	M 22 x 1.5	1.1/16" -12 UN	89.0	15.0	63	28	**GEHMOL22HJ12**
23.47 x 2.95	M 27 x 2	1.1/16" -12 UN	92.5	18.5	63	32	**GEHMOL27HJ12**
23.47 x 2.95	M 27 x 2	1.5/16" -12 UN	102.0	18.5	72	32	**GEHMOL27HJ16**
29.74 x 2.95	M 33 x 2	1.5/16" -12 UN	102.5	18.5	72	42	**GEHMOL33HJ16**
38.00 x 3.00	M 42 x 2	1.5/8" -12 UN	121.0	19.0	88	50	**GEHMOL42HJ20**
44.04 x 3.00	M 48 x 2	1.7/8" -12 UN	136.0	22.0	98	56	**GEHMOL48HJ24**

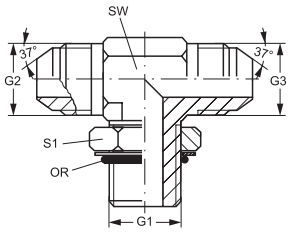
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, L shape, steel



Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2 + 3: 37° external cone

www ...LHMOHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.2 x 1.5	M 10 x 1	7/16" -20 UNF	13	11	**LHMO10HJ04**
8.2 x 1.5	M 10 x 1	1/2" -20 UNF	14	13	**LHMO10HJ05**
9.4 x 2.1	M 12 x 1.5	7/16" -20 UNF	17	13	**LHMO12HJ04**
9.4 x 2.1	M 12 x 1.5	1/2" -20 UNF	17	13	**LHMO12HJ05**
11.4 x 2.1	M 14 x 1.5	9/16" -18 UNF	19	14	**LHMO14HJ06**
13.4 x 2.1	M 16 x 1.5	9/16" -18 UNF	22	19	**LHMO16HJ06**
13.4 x 2.1	M 16 x 1.5	3/4" -16 UNF	22	19	**LHMO16HJ08**
15.4 x 2.1	M 18 x 1.5	3/4" -16 UNF	24	19	**LHMO18HJ08**
15.4 x 2.1	M 18 x 1.5	7/8" -14 UNF	24	22	**LHMO18HJ10**
19.4 x 2.1	M 22 x 1.5	7/8" -14 UNF	27	22	**LHMO22HJ10**
19.4 x 2.1	M 22 x 1.5	1.1/16" -12 UN	27	27	**LHMO22HJ12**
23.7 x 2.8	M 27 x 2	1.1/16" -12 UN	32	27	**LHMO27HJ12**
23.7 x 2.8	M 27 x 2	1.5/16" -12 UN	32	27	**LHMO27HJ16**
29.7 x 2.8	M 33 x 2	1.5/16" -12 UN	41	33	**LHMO33HJ16**
38.7 x 2.8	M 42 x 2	1.5/8" -12 UN	50	41	**LHMO42HJ20**
46.7 x 2.8	M 48 x 2	1.7/8" -12 UN	55	48	**LHMO48HJ24**

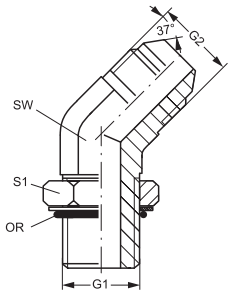


Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, T shape, steel

Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 1: type F
Sealing form 2 + 3: 37° external cone

www ...THMOHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.2 x 1.5	M 10 x 1	7/16" -20 UNF	14	11	THMO10HJ04
8.2 x 1.5	M 10 x 1	1/2" -20 UNF	14	13	THMO10HJ05
9.4 x 2.1	M 12 x 1.5	7/16" -20 UNF	17	13	THMO12HJ04
9.4 x 2.1	M 12 x 1.5	1/2" -20 UNF	17	13	THMO12HJ05
11.3 x 2.4	M 14 x 1.5	1/2" -20 UNF	17	14	THMO14HJ05
11.3 x 2.4	M 14 x 1.5	9/16" -18 UNF	19	14	THMO14HJ06
13.4 x 2.1	M 16 x 1.5	9/16" -18 UNF	22	19	THMO16HJ06
13.4 x 2.1	M 16 x 1.5	3/4" -16 UNF	22	19	THMO16HJ08
15.4 x 2.1	M 18 x 1.5	9/16" -18 UNF	19	22	THMO18HJ06
15.4 x 2.1	M 18 x 1.5	3/4" -16 UNF	24	19	THMO18HJ08
15.4 x 2.1	M 18 x 1.5	7/8" -14 UNF	24	22	THMO18HJ10
19.4 x 2.1	M 22 x 1.5	7/8" -14 UNF	27	22	THMO22HJ10
19.4 x 2.1	M 22 x 1.5	1.1/16" -12 UN	27	27	THMO22HJ12
23.7 x 2.8	M 27 x 2	1.1/16" -12 UN	32	27	THMO27HJ12
23.7 x 2.8	M 27 x 2	1.5/16" -12 UN	32	33	THMO27HJ16
29.7 x 2.8	M 33 x 2	1.5/16" -12 UN	41	33	THMO33HJ16
38.7 x 2.8	M 42 x 2	1.5/8" -12 UN	50	41	THMO42HJ20
46.7 x 2.8	M 48 x 2	1.7/8" -12 UN	55	48	THMO48HJ24



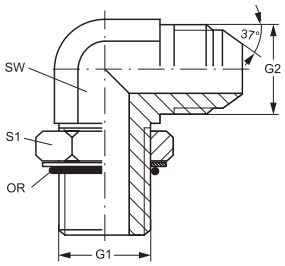
Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, elbow 45°, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: angle 45°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° external cone

www ...W45HMOHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.2 x 1.5	M 10 x 1	7/16" -20 UNF	14	11	W45HMO10HJ04
8.2 x 1.5	M 10 x 1	1/2" -20 UNF	14	13	W45HMO10HJ05
9.4 x 2.1	M 12 x 1.5	7/16" -20 UNF	17	13	W45HMO12HJ04
9.4 x 2.1	M 12 x 1.5	1/2" -20 UNF	17	13	W45HMO12HJ05
11.4 x 2.1	M 14 x 1.5	1/2" -20 UNF	19	13	W45HMO14HJ05
11.4 x 2.1	M 14 x 1.5	9/16" -18 UNF	19	14	W45HMO14HJ06
13.4 x 2.1	M 16 x 1.5	9/16" -18 UNF	22	19	W45HMO16HJ06
13.4 x 2.1	M 16 x 1.5	3/4" -16 UNF	22	19	W45HMO16HJ08
15.4 x 2.1	M 18 x 1.5	3/4" -16 UNF	24	19	W45HMO18HJ08
15.4 x 2.1	M 18 x 1.5	7/8" -14 UNF	24	22	W45HMO18HJ10
19.4 x 2.1	M 22 x 1.5	7/8" -14 UNF	27	22	W45HMO22HJ10
19.4 x 2.1	M 22 x 1.5	1.1/16" -12 UN	27	27	W45HMO22HJ12
23.7 x 2.8	M 27 x 2	1.1/16" -12 UN	32	27	W45HMO27HJ12
23.7 x 2.8	M 27 x 2	1.5/16" -12 UN	32	33	W45HMO27HJ16
29.7 x 2.8	M 33 x 2	1.5/16" -12 UN	41	33	W45HMO33HJ16

Stud connector, ISO 8434-2, AGM, OR, ISO 6149, adjustable, AGJ 37°, elbow 90°, steel

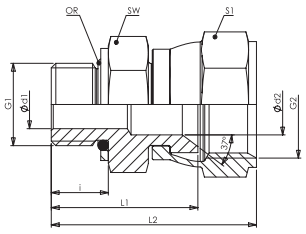


Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° external cone

www ...W90HMOHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.2 x 1.5	M 10 x 1	7/16" -20 UNF	14	11	**W90HMO10HJ04**
8.2 x 1.5	M 10 x 1	1/2" -20 UNF	14	13	**W90HMO10HJ05**
9.4 x 2.1	M 12 x 1.5	7/16" -20 UNF	17	13	**W90HMO12HJ04**
9.4 x 2.1	M 12 x 1.5	1/2" -20 UNF	17	13	**W90HMO12HJ05**
11.4 x 2.1	M 14 x 1.5	7/16" -20 UNF	19	19	**W90HMO14HJ04**
11.4 x 2.1	M 14 x 1.5	1/2" -20 UNF	19	13	**W90HMO14HJ05**
11.4 x 2.1	M 14 x 1.5	9/16" -18 UNF	19	14	**W90HMO14HJ06**
13.4 x 2.1	M 16 x 1.5	9/16" -18 UNF	22	19	**W90HMO16HJ06**
13.4 x 2.1	M 16 x 1.5	3/4" -16 UNF	22	19	**W90HMO16HJ08**
15.4 x 2.1	M 18 x 1.5	9/16" -18 UNF	22	22	**W90HMO18HJ06**
15.4 x 2.1	M 18 x 1.5	3/4" -16 UNF	24	19	**W90HMO18HJ08**
15.4 x 2.1	M 18 x 1.5	7/8" -14 UNF	24	22	**W90HMO18HJ10**
17.3 x 2.4	M 20 x 1.5	3/4" -16 UNF	24	19	**W90HMO20HJ08**
19.4 x 2.1	M 22 x 1.5	3/4" -16 UNF	27	19	**W90HMO22HJ08**
19.4 x 2.1	M 22 x 1.5	7/8" -14 UNF	27	22	**W90HMO22HJ10**
19.4 x 2.1	M 22 x 1.5	1.1/16" -12 UN	27	27	**W90HMO22HJ12**
23.7 x 2.8	M 27 x 2	1.1/16" -12 UN	32	27	**W90HMO27HJ12**
23.7 x 2.8	M 27 x 2	1.5/16" -12 UN	32	33	**W90HMO27HJ16**
29.7 x 2.8	M 33 x 2	1.5/16" -12 UN	41	33	**W90HMO33HJ16**
38.7 x 2.8	M 42 x 2	1.5/8" -12 UN	50	41	**W90HMO42HJ20**
46.7 x 2.8	M 48 x 2	1.7/8" -12 UN	55	48	**W90HMO48HJ24**





Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, DKJ 37°, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring and retaining ring
Sealing form 2: 37° internal cone
Standard connection 1: ISO 6149-3
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GEHMOKAJ

OR	G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm		mm	mm	mm	
8.1 x 1.6	M 10 x 1	7/16" -20 UNF	9.5	25.0	34.5	14	14	3.0	3.0	**GEHMOK10AJ04**
8.1 x 1.6	M 10 x 1	1/2" -20 UNF	9.5	26.2	35.7	17	14	3.0	4.4	**GEHMOK10AJ05**
9.3 x 2.2	M 12 x 1.5	7/16" -20 UNF	11.0	27.0	36.0	14	17	4.0	4.0	**GEHMOK12AJ04**
9.3 x 2.2	M 12 x 1.5	1/2" -20 UNF	11.0	28.2	37.7	17	17	4.0	4.0	**GEHMOK12AJ05**
11.3 x 2.2	M 14 x 1.5	1/2" -20 UNF	11.0	29.2	38.7	17	19	6.0	4.4	**GEHMOK14AJ05**
11.3 x 2.2	M 14 x 1.5	9/16" -18 UNF	11.0	29.3	39.3	19	19	6.0	6.0	**GEHMOK14AJ06**
13.3 x 2.2	M 16 x 1.5	9/16" -18 UNF	12.5	31.8	41.8	19	22	6.0	6.0	**GEHMOK16AJ06**
13.3 x 2.2	M 16 x 1.5	3/4" -16 UNF	12.5	33.4	44.9	24	22	7.0	9.9	**GEHMOK16AJ08**
15.3 x 2.2	M 18 x 1.5	3/4" -16 UNF	14.0	35.4	46.9	24	24	9.0	9.0	**GEHMOK18AJ08**
15.3 x 2.2	M 18 x 1.5	7/8" -14 UNF	14.0	36.6	50.3	27	24	9.0	12.3	**GEHMOK18AJ10**
17.3 x 2.2	M 20 x 1.5	7/8" -14 UNF	14.0	38.6	52.3	27	27	10.0	10.0	**GEHMOK20AJ10**
19.3 x 2.2	M 22 x 1.5	7/8" -14 UNF	15.0	39.6	52.3	27	27	12.0	12.0	**GEHMOK22AJ10**
19.3 x 2.2	M 22 x 1.5	1.1/16" -12 UN	15.0	40.1	55.0	32	27	12.0	15.5	**GEHMOK22AJ12**
23.6 x 2.9	M 26 x 1.5	1.3/16" -12 UN	16.0	41.7	58.2	36	32	14.0	18.0	**GEHMOK26AJ14**
23.6 x 2.9	M 27 x 2	1.1/16" -12 UN	18.5	44.6	59.5	32	32	15.0	15.0	**GEHMOK27AJ12**
23.6 x 2.9	M 27 x 2	1.5/16" -12 UN	18.5	45.6	62.4	41	32	15.0	21.5	**GEHMOK27AJ16**
29.6 x 2.9	M 33 x 2	1.5/16" -12 UN	18.5	46.6	63.4	41	41	20.0	20.0	**GEHMOK33AJ16**
38.6 x 2.9	M 42 x 2	1.5/8" -12 UN	19.0	52.0	68.3	50	50	26.0	26.0	**GEHMOK42AJ20**
44.6 x 2.9	M 48 x 2	1.7/8" -12 UN	21.5	59.3	78.7	60	55	32.0	32.0	**GEHMOK48AJ24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, AGJ 37°, steel





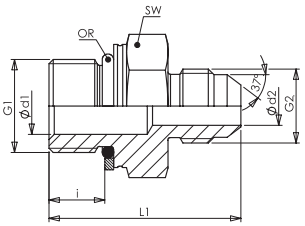


Connection 1: metric cylindrical outer thread
Sealing form 1: O-ring and retaining ring
Standard connection 1: ISO 6149-3
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2

Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, AGJ 37°, straight, steel



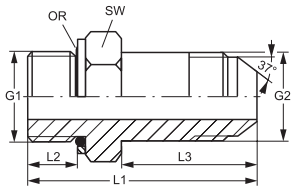
Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: 37° external cone

www ...GEHMOKHJ

OR	G1	G2	SW	Item no.
			mm	
8.00 x 1.50	M 10 x 1	7/16" -20 UNF	14	**GEHMOK10HJ04**
8.00 x 1.50	M 10 x 1	1/2" -20 UNF	14	**GEHMOK10HJ05**
9.30 x 2.30	M 12 x 1.5	7/16" -20 UNF	17	**GEHMOK12HJ04**
9.30 x 2.30	M 12 x 1.5	1/2" -20 UNF	19	**GEHMOK12HJ05**
11.30 x 2.30	M 14 x 1.5	1/2" -20 UNF	19	**GEHMOK14HJ05**
11.30 x 2.30	M 14 x 1.5	9/16" -18 UNF	19	**GEHMOK14HJ06**
11.30 x 2.30	M 14 x 1.5	3/4" -16 UNF	19	**GEHMOK14HJ08**
13.30 x 2.30	M 16 x 1.5	9/16" -18 UNF	22	**GEHMOK16HJ06**
13.30 x 2.30	M 16 x 1.5	3/4" -16 UNF	22	**GEHMOK16HJ08**
15.30 x 2.30	M 18 x 1.5	3/4" -16 UNF	24	**GEHMOK18HJ08**
15.30 x 2.30	M 18 x 1.5	7/8" -14 UNF	24	**GEHMOK18HJ10**
15.30 x 2.30	M 18 x 1.5	1.1/16" -12 UN	27	**GEHMOK18HJ12**
17.30 x 2.30	M 20 x 1.5	7/8" -14 UNF	27	**GEHMOK20HJ10**
19.30 x 2.30	M 22 x 1.5	3/4" -16 UNF	27	**GEHMOK22HJ08**
19.30 x 2.30	M 22 x 1.5	7/8" -14 UNF	27	**GEHMOK22HJ10**
19.30 x 2.30	M 22 x 1.5	1.1/16" -12 UN	27	**GEHMOK22HJ12**
23.50 x 2.60	M 26 x 1.5	3/4" -16 UNF	27	**GEHMOK26HJ08**
23.50 x 2.60	M 26 x 1.5	1.1/16" -12 UN	32	**GEHMOK26HJ12**
23.50 x 2.60	M 26 x 1.5	1.3/16" -12 UN	32	**GEHMOK26HJ14**
23.50 x 2.60	M 26 x 1.5	1.5/16" -12 UN	36	**GEHMOK26HJ16**
23.47 x 2.95	M 27 x 2	1.1/16" -12 UN	32	**GEHMOK27HJ12**
23.47 x 2.95	M 27 x 2	1.5/16" -12 UN	36	**GEHMOK27HJ16**
29.74 x 2.95	M 33 x 2	1.5/16" -12 UN	41	**GEHMOK33HJ16**
38.00 x 3.00	M 42 x 2	1.5/8" -12 UN	50	**GEHMOK42HJ20**
44.00 x 3.00	M 48 x 2	1.7/8" -12 UN	55	**GEHMOK48HJ24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**



Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, AGJ 37°, straight, long, steel

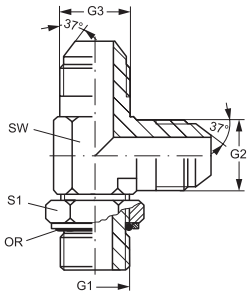
Connection 2: UN/UNF external threads
Construction type: screw-in socket, long
Type: straight
Sealing form 2: 37° external cone

...GEHMOKLHJ

OR	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
8.00 x 1.50	M 10 x 1	7/16" -20 UNF	51.0	8.0	35	15	**GEHMOKL10HJ04**
8.00 x 1.50	M 10 x 1	1/2" -20 UNF	53.0	8.0	37	15	**GEHMOKL10HJ05**
9.30 x 2.30	M 12 x 1.5	1/2" -20 UNF	55.5	9.5	37	18	**GEHMOKL12HJ05**
11.30 x 2.30	M 14 x 1.5	1/2" -20 UNF	56.5	9.5	37	20	**GEHMOKL14HJ05**
11.30 x 2.30	M 14 x 1.5	9/16" -18 UNF	58.5	9.5	39	20	**GEHMOKL14HJ06**
13.30 x 2.30	M 16 x 1.5	9/16" -18 UNF	60.0	11.0	39	22	**GEHMOKL16HJ06**
13.30 x 2.30	M 16 x 1.5	3/4" -16 UNF	69.0	11.0	48	22	**GEHMOKL16HJ08**
15.30 x 2.30	M 18 x 1.5	3/4" -16 UNF	70.5	12.0	48	25	**GEHMOKL18HJ08**
15.30 x 2.30	M 18 x 1.5	7/8" -14 UNF	75.5	12.0	53	25	**GEHMOKL18HJ10**
17.30 x 2.30	M 20 x 1.5	7/8" -14 UNF	76.5	12.0	53	28	**GEHMOKL20HJ10**
19.30 x 2.30	M 22 x 1.5	7/8" -14 UNF	78.0	13.5	53	28	**GEHMOKL22HJ10**
19.30 x 2.30	M 22 x 1.5	1.1/16" -12 UN	89.0	13.5	63	28	**GEHMOKL22HJ12**
23.47 x 2.95	M 27 x 2	1.1/16" -12 UN	92.5	16.0	63	32	**GEHMOKL27HJ12**
23.47 x 2.95	M 27 x 2	1.5/16" -12 UN	102.0	16.0	72	32	**GEHMOKL27HJ16**
29.74 x 2.95	M 33 x 2	1.5/16" -12 UN	102.5	16.0	72	42	**GEHMOKL33HJ16**
38.00 x 3.00	M 42 x 2	1.5/8" -12 UN	121.0	16.5	88	50	**GEHMOKL42HJ20**
44.00 x 3.00	M 48 x 2	1.7/8" -12 UN	136.0	19.5	88	56	**GEHMOKL48HJ24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**



Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable,AGJ 37°, L shape, steel

Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: 37° external cone

...LHMOKHJ

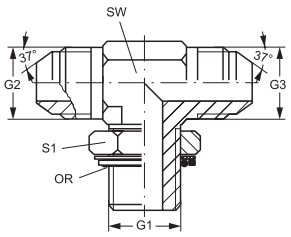
OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.00 x 1.50	M 10 x 1	7/16" -20 UNF	13	11	**LHMOK10HJ04**
8.00 x 1.50	M 10 x 1	1/2" -20 UNF	14	13	**LHMOK10HJ05**
9.25 x 1.78	M 12 x 1.5	7/16" -20 UNF	14	17	**LHMOK12HJ04**
9.25 x 1.78	M 12 x 1.5	1/2" -20 UNF	17	13	**LHMOK12HJ05**
10.82 x 1.78	M 14 x 1.5	1/2" -20 UNF	17	14	**LHMOK14HJ05**
10.82 x 1.78	M 14 x 1.5	9/16" -18 UNF	17	14	**LHMOK14HJ06**
13.46 x 2.08	M 16 x 1.5	9/16" -18 UNF	17	19	**LHMOK16HJ06**
13.46 x 2.08	M 16 x 1.5	3/4" -16 UNF	19	19	**LHMOK16HJ08**
15.54 x 2.62	M 18 x 1.5	9/16" -18 UNF	17	19	**LHMOK18HJ06**
15.54 x 2.62	M 18 x 1.5	3/4" -16 UNF	22	19	**LHMOK18HJ08**
15.54 x 2.62	M 18 x 1.5	7/8" -14 UNF	24	22	**LHMOK18HJ10**
18.77 x 1.78	M 22 x 1.5	7/8" -14 UNF	27	22	**LHMOK22HJ10**
18.77 x 1.78	M 22 x 1.5	1.1/16" -12 UN	27	27	**LHMOK22HJ12**
23.47 x 2.62	M 27 x 2	1.1/16" -12 UN	32	27	**LHMOK27HJ12**
23.47 x 2.62	M 27 x 2	1.5/16" -12 UN	27	32	**LHMOK27HJ16**
28.24 x 2.62	M 33 x 2	1.5/16" -12 UN	38	33	**LHMOK33HJ16**

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
37.77 x 2.62	M 42 x 2	1.5/8" -12 UN	50	41	**LHMOK42HJ20**
44.12 x 2.62	M 48 x 2	1.7/8" -12 UN	55	48	**LHMOK48HJ24**

Spare parts:

Retaining ring, metric, KAMMRING M **...KAMMRINGM**

Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable, AGJ 37°, T form, steel



Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 37° external cone

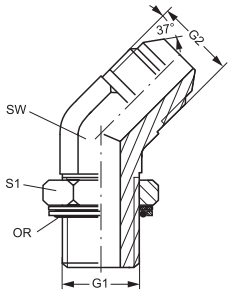
www ...THMOKHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.00 x 1.50	M 10 x 1	7/16" -20 UNF	13	11	**THMOK10HJ04**
8.00 x 1.50	M 10 x 1	1/2" -20 UNF	14	13	**THMOK10HJ05**
9.25 x 1.78	M 12 x 1.5	7/16" -20 UNF	17	13	**THMOK12HJ04**
9.25 x 1.78	M 12 x 1.5	1/2" -20 UNF	17	13	**THMOK12HJ05**
10.82 x 1.78	M 14 x 1.5	1/2" -20 UNF	17	14	**THMOK14HJ05**
10.82 x 1.78	M 14 x 1.5	9/16" -18 UNF	17	14	**THMOK14HJ06**
13.46 x 2.08	M 16 x 1.5	9/16" -18 UNF	22	19	**THMOK16HJ06**
13.46 x 2.08	M 16 x 1.5	3/4" -16 UNF	19	19	**THMOK16HJ08**
15.54 x 2.62	M 18 x 1.5	9/16" -18 UNF	24	19	**THMOK18HJ06**
15.54 x 2.62	M 18 x 1.5	7/8" -14 UNF	24	22	**THMOK18HJ10**
18.77 x 1.78	M 22 x 1.5	7/8" -14 UNF	27	22	**THMOK22HJ10**
18.77 x 1.78	M 22 x 1.5	1.1/16" -12 UN	27	27	**THMOK22HJ12**
23.47 x 2.62	M 27 x 2	1.1/16" -12 UN	32	27	**THMOK27HJ12**
23.47 x 2.62	M 27 x 2	1.5/16" -12 UN	32	33	**THMOK27HJ16**
28.24 x 2.62	M 33 x 2	1.5/16" -12 UN	38	33	**THMOK33HJ16**
37.77 x 2.62	M 42 x 2	1.5/8" -12 UN	50	41	**THMOK42HJ20**
44.12 x 2.62	M 48 x 2	1.7/8" -12 UN	55	48	**THMOK48HJ24**

Spare parts:

Retaining ring, metric, KAMMRING M **...KAMMRINGM**

Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable, AGJ 37°, elbow 45°, steel



Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 37° external cone

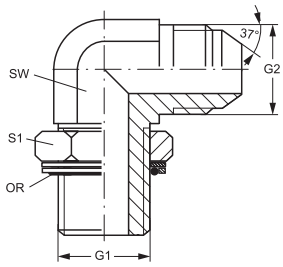
www ...W45HMOKHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.00 x 1.50	M 10 x 1	7/16" -20 UNF	13	11	**W45HMOK10HJ04**
8.00 x 1.50	M 10 x 1	1/2" -20 UNF	13	13	**W45HMOK10HJ05**
9.30 x 2.30	M 12 x 1.5	7/16" -20 UNF	17	13	**W45HMOK12HJ04**
9.30 x 2.30	M 12 x 1.5	1/2" -20 UNF	17	13	**W45HMOK12HJ05**
11.30 x 2.30	M 14 x 1.5	1/2" -20 UNF	17	14	**W45HMOK14HJ05**

OR	G1	G2	S1	SW	Item no.
				mm	
11.30 x 2.30	M 14 x 1.5	9/16" -18 UNF	17	14	**W45HMOK14HJ06**
13.30 x 2.30	M 16 x 1.5	9/16" -18 UNF	19	19	**W45HMOK16HJ06**
13.30 x 2.30	M 16 x 1.5	3/4" -16 UNF	19	19	**W45HMOK16HJ08**
15.30 x 2.30	M 18 x 1.5	9/16" -18 UNF	22	19	**W45HMOK18HJ06**
15.30 x 2.30	M 18 x 1.5	3/4" -16 UNF	22	19	**W45HMOK18HJ08**
15.30 x 2.30	M 18 x 1.5	7/8" -14 UNF	22	22	**W45HMOK18HJ10**
17.30 x 2.30	M 20 x 1.5	7/8" -14 UNF	27	22	**W45HMOK20HJ10**
19.30 x 2.30	M 22 x 1.5	7/8" -14 UNF	27	22	**W45HMOK22HJ10**
19.30 x 2.30	M 22 x 1.5	1.1/16" -12 UN	27	27	**W45HMOK22HJ12**
23.50 x 2.60	M 26 x 1.5	1.3/16" -12 UN	35	27	**W45HMOK26HJ14**
23.47 x 2.95	M 27 x 2	1.1/16" -12 UN	32	27	**W45HMOK27HJ12**
23.47 x 2.95	M 27 x 2	1.5/16" -12 UN	32	33	**W45HMOK27HJ16**
29.74 x 2.95	M 33 x 2	1.5/16" -12 UN	38	33	**W45HMOK33HJ16**
38.00 x 3.00	M 42 x 2	1.5/8" -12 UN	50	41	**W45HMOK42HJ20**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**



Stud connector, ISO 8434-2, AGM, ORK, ISO 6149, adjustable, AGJ 37°, elbow 90°, steel

Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: 37° external cone

www ...W90HMOKHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.0 x 1.5	M 10 x 1	7/16" -20 UNF	13	11	**W90HMOK10HJ04**
8.0 x 1.5	M 10 x 1	1/2" -20 UNF	13	13	**W90HMOK10HJ05**
9.4 x 2.1	M 12 x 1.5	7/16" -20 UNF	17	13	**W90HMOK12HJ04**
9.4 x 2.1	M 12 x 1.5	1/2" -20 UNF	17	13	**W90HMOK12HJ05**
11.4 x 2.1	M 14 x 1.5	1/2" -20 UNF	17	14	**W90HMOK14HJ05**
11.4 x 2.1	M 14 x 1.5	9/16" -18 UNF	17	14	**W90HMOK14HJ06**
13.4 x 2.1	M 16 x 1.5	9/16" -18 UNF	19	19	**W90HMOK16HJ06**
13.4 x 2.1	M 16 x 1.5	3/4" -16 UNF	19	19	**W90HMOK16HJ08**
15.4 x 2.1	M 18 x 1.5	9/16" -18 UNF	22	22	**W90HMOK18HJ06**
15.4 x 2.1	M 18 x 1.5	3/4" -16 UNF	22	19	**W90HMOK18HJ08**
15.4 x 2.1	M 18 x 1.5	7/8" -14 UNF	22	22	**W90HMOK18HJ10**
17.3 x 2.4	M 20 x 1.5	7/8" -14 UNF	24	22	**W90HMOK20HJ10**
19.4 x 2.1	M 22 x 1.5	7/8" -14 UNF	27	22	**W90HMOK22HJ10**
19.4 x 2.1	M 22 x 1.5	1.1/16" -12 UN	27	27	**W90HMOK22HJ12**
23.5 x 2.6	M 26 x 1.5	1.3/16" -12 UN	32	33	**W90HMOK26HJ14**
23.7 x 2.8	M 27 x 2	1.1/16" -12 UN	32	27	**W90HMOK27HJ12**
23.7 x 2.8	M 27 x 2	1.5/16" -12 UN	32	33	**W90HMOK27HJ16**
29.7 x 2.8	M 33 x 2	1.5/16" -12 UN	38	33	**W90HMOK33HJ16**
38.7 x 2.8	M 42 x 2	1.5/8" -12 UN	50	41	**W90HMOK42HJ20**
46.7 x 2.8	M 48 x 2	1.7/8" -12 UN	55	48	**W90HMOK48HJ24**

Spare parts:

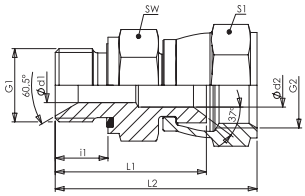
Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

Stud connector, ISO 8434-2, AGR soft seal, ISO 1179, type E, DKJ 37°, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: 37° internal cone
Standard connection 1: ISO 1179-2
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHREDAJ

G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
G 1/8" -28	7/16" -20 UNF	8.0	22.5	32.0	14	14	3.5	3.5	**GEHRED02AJ04**
G 1/8" -28	1/2" -20 UNF	8.0	23.7	33.2	17	14	3.5	3.5	**GEHRED02AJ05**
G 1/4" -19	1/2" -20 UNF	12.0	31.7	41.2	17	19	4.4	4.4	**GEHRED04AJ05**
G 1/4" -19	9/16" -18 UNF	12.0	31.8	41.8	19	19	4.7	4.7	**GEHRED04AJ06**
G 1/4" -19	3/4" -16 UNF	12.0	33.4	44.9	24	19	4.7	9.9	**GEHRED04AJ08**
G 3/8" -19	9/16" -18 UNF	12.0	32.8	42.8	19	22	7.9	6.0	**GEHRED06AJ**
G 3/8" -19	3/4" -16 UNF	12.0	34.4	45.9	24	22	7.9	9.9	**GEHRED06AJ08**
G 3/8" -19	7/8" -14 UNF	12.0	35.6	49.3	27	22	7.9	12.3	**GEHRED06AJ10**
G 1/2" -14	3/4" -16 UNF	14.0	37.4	48.9	24	27	9.9	9.9	**GEHRED08AJ**
G 1/2" -14	7/8" -14 UNF	14.0	38.6	52.3	27	27	11.1	11.1	**GEHRED08AJ10**
G 1/2" -14	1.1/16" -12 UN	14.0	39.1	54.0	32	27	11.1	15.5	**GEHRED08AJ12**
G 3/4" -14	1.1/16" -12 UN	16.0	41.6	56.5	32	32	15.5	15.5	**GEHRED12AJ**
G 3/4" -14	1.5/16" -12 UN	16.0	42.6	59.4	41	32	16.7	21.5	**GEHRED12AJ16**
G 1" -11	1.5/16" -12 UN	18.0	47.6	64.4	41	41	21.5	21.5	**GEHRED16AJ**
G 1" -11	1.5/8" -12 UN	18.0	49.5	65.8	50	41	22.2	27.5	**GEHRED16AJ20**
G 1.1/4" -11	1.5/8" -12 UN	20.0	51.5	67.8	50	50	27.5	27.5	**GEHRED20AJ**
G 1.1/4" -11	1.7/8" -12 UN	20.0	53.3	72.7	60	50	28.6	33.5	**GEHRED20AJ24**
G 1.1/2" -11	1.7/8" -12 UN	22.0	55.3	74.7	60	55	33.3	33.3	**GEHRED24AJ**

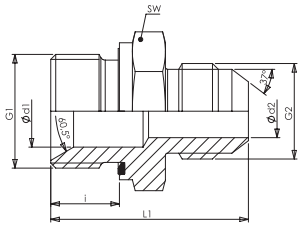
Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Stud connector, ISO 8434-2, AGR soft seal, ISO 1179, type E, DKJ 37°, straight, stainless steel, GE HRED AJ VA	**...GEHREDAJVA**





Stud connector, ISO 8434-2, AGR soft seal, ISO 1179, type E, AGJ 37°, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone type E
Sealing form 2: 37° external cone
Standard connection 1: ISO 1179-2
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GEHREDHJ

G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
G 1/8" -28	7/16" -20 UNF	8	30	14	3.5	3.5	**GEHRED02HJ04**
G 1/8" -28	1/2" -20 UNF	8	30	14	3.5	6	**GEHRED02HJ05**
G 1/8" -28	9/16" -18 UNF	8	30	17	3.5	7.5	**GEHRED02HJ06**
G 1/4" -19	7/16" -20 UNF	12	34	19	4.4	4.4	**GEHRED04HJ**
G 1/4" -19	1/2" -20 UNF	12	34	19	4.7	4.7	**GEHRED04HJ05**
G 1/4" -19	9/16" -18 UNF	12	35	19	4.7	7.5	**GEHRED04HJ06**
G 1/4" -19	3/4" -16 UNF	12	39	22	4.7	9.9	**GEHRED04HJ08**
G 3/8" -19	7/16" -20 UNF	12	34.5	22	7.9	4.4	**GEHRED06HJ04**
G 3/8" -19	9/16" -18 UNF	12	34.5	22	7.5	7.5	**GEHRED06HJ**
G 3/8" -19	1/2" -20 UNF	12	34.5	22	7.9	6	**GEHRED06HJ05**
G 3/8" -19	3/4" -16 UNF	12	41	22	7.9	9.9	**GEHRED06HJ08**
G 3/8" -19	7/8" -14 UNF	12	42.5	24	7.9	12.3	**GEHRED06HJ10**
G 3/8" -19	1.1/16" -12 UN	12	44.5	27	7.9	15.5	**GEHRED06HJ12**
G 1/2" -14	7/16" -20 UNF	14	37.5	27	11.1	4.4	**GEHRED08HJ04**
G 1/2" -14	9/16" -18 UNF	14	40	27	11.1	7.5	**GEHRED08HJ06**
G 1/2" -14	3/4" -16 UNF	14	40.5	27	9.9	9.9	**GEHRED08HJ**
G 1/2" -14	7/8" -14 UNF	14	43	27	11.1	11.1	**GEHRED08HJ10**
G 1/2" -14	1.1/16" -12 UN	14	50	27	11.1	15.5	**GEHRED08HJ12**
G 3/4" -14	3/4" -16 UNF	16	46	32	16.7	9.9	**GEHRED12HJ08**
G 3/4" -14	7/8" -14 UNF	16	46	32	16.7	12.3	**GEHRED12HJ10**
G 3/4" -14	1.1/16" -12 UN	16	51	32	15.5	15.5	**GEHRED12HJ**
G 3/4" -14	1.5/16" -12 UN	16	53	36	16.7	21.5	**GEHRED12HJ16**
G 1" -11	1.1/16" -12 UN	18	53	41	22.2	15.5	**GEHRED16HJ12**
G 1" -11	1.5/16" -12 UN	18	53.5	41	21.5	21.5	**GEHRED16HJ**
G 1" -11	1.5/8" -12 UN	18	55	46	22.2	27.5	**GEHRED16HJ20**
G 1" -11	1.7/8" -12 UN	18	60	50	22.2	33.5	**GEHRED16HJ24**
G 1.1/4" -11	1.5/16" -12 UN	20	57.5	50	28.6	21.5	**GEHRED20HJ16**
G 1.1/4" -11	1.5/8" -12 UN	20	59	50	27.5	27.5	**GEHRED20HJ**
G 1.1/4" -11	1.7/8" -12 UN	20	62	50	28.6	33.5	**GEHRED20HJ24**
G 1.1/2" -11	1.5/8" -12 UN	22	61	55	33.3	27.5	**GEHRED24HJ20**
G 1.1/2" -11	1.7/8" -12 UN	22	64	55	33.3	33.3	**GEHRED24HJ**

Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

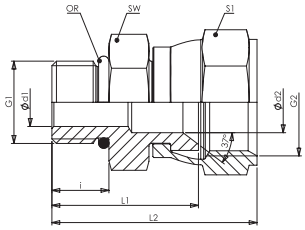
Stud connector, ISO 8434-2, AGR soft seal, ISO 1179, type E, AGJ 37°, straight, stain-less steel, GE HRED HJ VA	**...GEHREDHJVA**

Stud connector, ISO 8434-2, AGR, OR, DKJ 37°, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type G
Sealing form 2: 37° internal cone
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHROAJ

OR	G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm		mm	mm	mm	
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	11.2	26.0	35.5	14	19	7.5	4.0	**GEHRO04AJ**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	11.2	28.9	40.4	24	19	7.5	9.9	**GEHRO04AJ08**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	11.2	27.3	36.8	14	22	9.9	4.0	**GEHRO06AJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	11.2	28.6	38.6	19	22	9.9	6.0	**GEHRO06AJ05**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	11.2	31.4	45.1	27	22	9.9	12.3	**GEHRO06AJ10**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	14.5	34.0	44.0	44	30	12.3	6.0	**GEHRO08AJ06**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	14.5	35.6	47.1	24	30	12.3	9.9	**GEHRO08AJ**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	14.5	37.7	51.4	27	36	15.5	12.3	**GEHRO12AJ10**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	14.5	39.2	56.0	41	36	15.5	21.5	**GEHRO12AJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	18.6	43.0	57.9	32	46	21.5	15.5	**GEHRO16AJ12**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	18.6	45.9	62.2	50	46	21.5	27.5	**GEHRO16AJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	18.6	46.3	63.1	41	50	27.5	21.5	**GEHRO20AJ16**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	18.6	50.0	69.4	60	50	27.5	33.5	**GEHRO20AJ24**





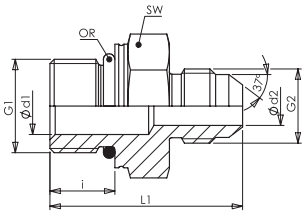


Stud connector, ISO 8434-2, AGR, OR, AGJ 37°, steel

Connection 1: BSPP male thread, cylindric
Sealing form 1: type G
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



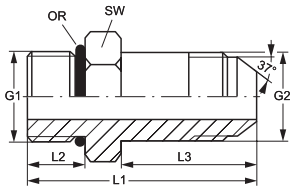
Stud connector, ISO 8434-2, AGR, OR, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: 37° external cone

www ...GEHROHJ

OR	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
7.79 x 1.88	G 1/8" -28	7/16" -20 UNF	7.6	29.0	14	4.4	4.4	**GEHRO02HJ04**
7.79 x 1.88	G 1/8" -28	1/2" -20 UNF	7.6	29.0	14	4.4	6.0	**GEHRO02HJ05**
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	11.2	32.0	19	7.5	4.4	**GEHRO04HJ**
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	11.2	32.0	19	7.5	6.0	**GEHRO04HJ05**
10.77 x 2.62	G 1/4" -19	9/16" -18 UNF	11.2	32.0	19	7.5	7.5	**GEHRO04HJ06**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	11.2	36.0	22	7.5	9.9	**GEHRO04HJ08**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	11.2	33.3	22	9.9	4.4	**GEHRO06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	11.2	33.3	22	9.9	6.0	**GEHRO06HJ05**
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	11.2	33.4	22	9.9	7.5	**GEHRO06HJ**
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	11.2	36.0	22	9.9	9.9	**GEHRO06HJ08**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	11.2	38.6	24	9.9	12.3	**GEHRO06HJ10**
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	14.5	38.7	30	12.3	4.4	**GEHRO08HJ04**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	14.5	38.8	30	12.3	7.5	**GEHRO08HJ06**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	14.5	41.4	30	12.3	9.9	**GEHRO08HJ**
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	14.5	44.0	30	12.3	12.3	**GEHRO08HJ10**
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	14.5	46.6	30	12.3	15.5	**GEHRO08HJ12**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	14.5	42.3	36	15.5	9.9	**GEHRO12HJ08**
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	14.5	47.5	36	15.5	15.5	**GEHRO12HJ**
23.47 x 2.62	G 3/4" -14	1.3/16" -12 UN	14.5	48.3	36	15.5	18.0	**GEHRO12HJ14**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	14.5	48.7	36	15.5	21.5	**GEHRO12HJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	18.6	52.3	46	21.5	15.5	**GEHRO16HJ12**
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	18.6	53.5	46	21.5	21.5	**GEHRO16HJ**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	18.6	54.7	46	21.5	27.5	**GEHRO16HJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	18.6	55.8	50	27.5	21.5	**GEHRO20HJ16**
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	18.6	57.0	50	27.5	27.5	**GEHRO20HJ**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	18.6	60.2	50	27.5	33.5	**GEHRO20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	18.6	61.0	55	33.0	33.0	**GEHRO24HJ**

Stud connector, ISO 8434-2, AGR, OR, AGJ 37°, straight, long, steel

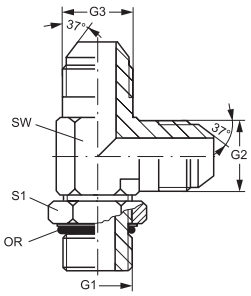


Connection 2: UN/UNF external threads
Construction type: screw-in socket, long
Type: straight
Sealing form 2: 37° external cone

www ...GEHROLHJ

OR	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
7.65 x 1.78	G 1/8" -28	7/16" -20 UNF	50.0	8	35	16	GEHROL02HJ04
10.78 x 2.62	G 1/4" -19	7/16" -20 UNF	55.5	12	35	20	GEHROL04HJ
10.78 x 2.62	G 1/4" -19	1/2" -20 UNF	57.5	12	37	20	GEHROL04HJ05
10.78 x 2.62	G 1/4" -19	9/16" -18 UNF	59.5	12	39	20	GEHROL04HJ06
10.78 x 2.62	G 1/4" -19	3/4" -16 UNF	68.5	12	48	20	GEHROL04HJ08
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	57.5	12	37	24	GEHROL06HJ05
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	59.5	12	39	24	GEHROL06HJ
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	68.5	12	48	24	GEHROL06HJ08
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	74.0	12	53	24	GEHROL06HJ10
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	63.0	14	39	28	GEHROL08HJ06
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	72.0	14	48	28	GEHROL08HJ
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	77.0	14	53	28	GEHROL08HJ10
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	88.0	14	63	28	GEHROL08HJ12
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	81.0	16	53	35	GEHROL12HJ10
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	91.0	16	63	35	GEHROL12HJ
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	100.0	16	72	35	GEHROL12HJ16
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	93.5	18	63	43	GEHROL16HJ12
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	102.0	18	72	43	GEHROL16HJ
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	119.0	18	88	43	GEHROL16HJ20
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	106.0	20	72	52	GEHROL20HJ16
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	119.0	18	88	52	GEHROL20HJ
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	132.0	20	98	52	GEHROL20HJ24
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	136.0	22	98	58	GEHROL24HJ

Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, L shape, steel



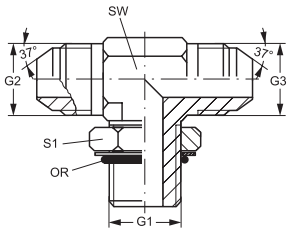
Connection 2 + 3: UN/UNF external threads
Construction type: screw-in socket, straight
Type: L shape
Sealing form 2 + 3: 37° external cone

www ...LHROHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	7/16" -20 UNF	16	11	LHRO02HJ04
7.65 x 1.78	G 1/8" -28	1/2" -20 UNF	16	14	LHRO02HJ05
10.78 x 2.62	G 1/4" -19	7/16" -20 UNF	20	14	LHRO04HJ
10.78 x 2.62	G 1/4" -19	1/2" -20 UNF	20	14	LHRO04HJ05
10.78 x 2.62	G 1/4" -19	9/16" -18 UNF	20	14	LHRO04HJ06
10.78 x 2.62	G 1/4" -19	3/4" -16 UNF	20	19	LHRO04HJ08
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	24	19	LHRO06HJ04
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	24	19	LHRO06HJ05
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	24	19	LHRO06HJ
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	24	19	LHRO06HJ08
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	24	22	LHRO06HJ10
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	28	22	LHRO08HJ06
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	28	22	LHRO08HJ
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	28	22	LHRO08HJ10

→

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	28	27	**LHRO08HJ12**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	35	27	**LHRO12HJ08**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	35	27	**LHRO12HJ10**
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	35	27	**LHRO12HJ**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	35	27	**LHRO12HJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	43	33	**LHRO16HJ12**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	43	41	**LHRO16HJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	52	41	**LHRO20HJ16**
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	52	41	**LHRO20HJ**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	52	48	**LHRO20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	58	48	**LHRO24HJ**



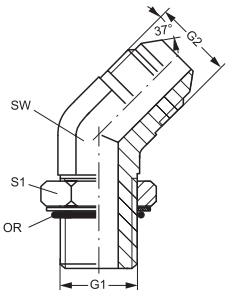
Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, T-shape, steel

Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 37° external cone

www ...THROHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.00 x 2.00	G 1/8" -28	7/16" -20 UNF	14	11	**THRO02HJ04**
8.00 x 2.00	G 1/8" -28	1/2" -20 UNF	14	14	**THRO02HJ05**
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	19	11	**THRO04HJ**
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	19	14	**THRO04HJ05**
10.77 x 2.62	G 1/4" -19	9/16" -18 UNF	19	14	**THRO04HJ06**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	19	19	**THRO04HJ08**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	22	19	**THRO06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	**THRO06HJ05**
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	22	19	**THRO06HJ**
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	22	19	**THRO06HJ08**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	**THRO06HJ10**
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	27	22	**THRO08HJ04**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	**THRO08HJ06**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	27	22	**THRO08HJ**
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	27	22	**THRO08HJ10**
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	27	27	**THRO08HJ12**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	36	27	**THRO12HJ08**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	36	27	**THRO12HJ10**
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	36	27	**THRO12HJ**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	36	33	**THRO12HJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	41	33	**THRO16HJ12**
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	41	33	**THRO16HJ**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	41	41	**THRO16HJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	50	41	**THRO20HJ16**
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	50	41	**THRO20HJ**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	50	48	**THRO20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	60	48	**THRO24HJ**

Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, elbow 45°, steel

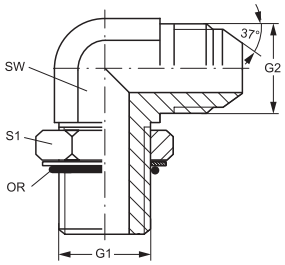


Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 37° external cone

www ...W45HROHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.00 x 2.00	G 1/8" -28	1/2" -20 UNF	14	13	**W45HRO02HJ05**
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	19	14	**W45HRO04HJ**
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	19	14	**W45HRO04HJ05**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	19	19	**W45HRO04HJ08**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	22	19	**W45HRO06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	**W45HRO06HJ05**
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	22	19	**W45HRO06HJ**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	**W45HRO06HJ10**
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	27	22	**W45HRO08HJ04**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	**W45HRO08HJ06**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	27	22	**W45HRO08HJ**
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	27	27	**W45HRO08HJ12**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	36	27	**W45HRO12HJ08**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	36	27	**W45HRO12HJ10**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	55	48	**W45HRO24HJ**

Stud connector, ISO 8434-2, AGR, OR, adjustable, AGJ 37°, elbow 90°, steel



Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: 37° external cone

www ...W90HROHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.00 x 2.00	G 1/8" -28	1/2" -20 UNF	14	13	**W90HRO02HJ05**
13.94 x 2.62	G 3/8" -19	7/16" -20 UN	22	19	**W90HRO06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	**W90HRO06HJ05**
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	22	19	**W90HRO06HJ08**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	**W90HRO06HJ10**
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	22	22	**W90HRO08HJ04**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	**W90HRO08HJ06**
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	36	27	**W90HRO12HJ**
23.47 x 2.62	G 3/4" -14	1.3/16" -12 UN	36	33	**W90HRO12HJ14**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	36	33	**W90HRO12HJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	41	33	**W90HRO16HJ12**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	36	33	**W90HRO20HJ16**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	50	48	**W90HRO20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	55	48	**W90HRO24HJ**





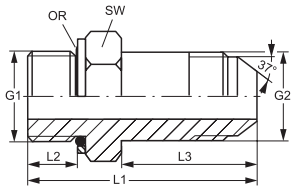


Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, AGJ 37°, steel

Connection 1: BSPP male thread, cylindric
Sealing form 1: O-ring and retaining ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, AGJ 37°, straight, long, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket, long
Type: straight
Sealing form 2: 37° external cone

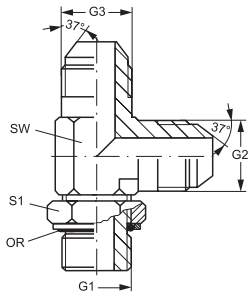
www ...GEHROKLHJ

OR	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
7.65 x 1.78	G 1/8" -28	7/16" -20 UNF	50.0	7.0	35	16	GEHROKL02HJ04
10.78 x 2.62	G 1/4" -19	7/16" -20 UNF	55.5	10.0	35	20	GEHROKL04HJ
10.78 x 2.62	G 1/4" -19	1/2" -20 UNF	57.5	10.0	37	20	GEHROKL04HJ05
10.78 x 2.62	G 1/4" -19	9/16" -18 UNF	59.5	10.0	39	20	GEHROKL04HJ06
10.78 x 2.62	G 1/4" -19	3/4" -16 UNF	68.5	10.0	48	20	GEHROKL04HJ08
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	57.5	10.0	37	24	GEHROKL06HJ05
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	59.5	10.0	39	24	GEHROKL06HJ
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	68.5	10.0	48	24	GEHROKL06HJ08
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	74.0	10.0	53	24	GEHROKL06HJ10
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	63.0	12.0	39	28	GEHROKL08HJ06
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	72.0	12.0	48	28	GEHROKL08HJ
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	77.0	12.0	53	28	GEHROKL08HJ10
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	88.0	12.0	63	28	GEHROKL08HJ12
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	81.0	14.0	53	35	GEHROKL12HJ10
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	91.0	14.0	63	35	GEHROKL12HJ
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	100.0	14.0	72	36	GEHROKL12HJ16
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	93.5	15.5	63	43	GEHROKL16HJ12
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	102.0	15.5	72	43	GEHROKL16HJ
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	119.0	15.5	88	43	GEHROKL16HJ20
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	106.0	17.5	72	52	GEHROKL20HJ16
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	122.0	17.5	88	52	GEHROKL20HJ
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	132.0	17.5	98	52	GEHROKL20HJ24
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	136.0	19.5	98	58	GEHROKL24HJ

Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**

Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, L shape, steel



Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: 37° external cone

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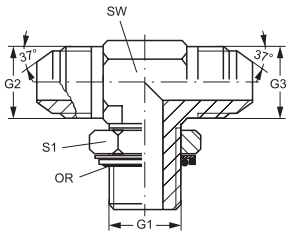
OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.00 x 2.00	G 1/8" -28	7/16" -20 UNF	14	11	**LHROK02HJ04**
8.00 x 2.00	G 1/8" -28	1/2" -20 UNF	14	13	**LHROK02HJ05**
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	19	14	**LHROK04HJ**
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	19	14	**LHROK04HJ05**
10.77 x 2.62	G 1/4" -19	9/16" -18 UNF	19	14	**LHROK04HJ06**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	19	19	**LHROK04HJ08**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	22	19	**LHROK06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	**LHROK06HJ05**
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	22	19	**LHROK06HJ**
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	22	19	**LHROK06HJ08**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	**LHROK06HJ10**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	**LHROK08HJ06**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	27	22	**LHROK08HJ**
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	27	22	**LHROK08HJ10**
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	27	27	**LHROK08HJ12**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	36	27	**LHROK12HJ08**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	36	27	**LHROK12HJ10**
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	36	27	**LHROK12HJ**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	36	33	**LHROK12HJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	41	33	**LHROK16HJ12**
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	41	33	**LHROK16HJ**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	41	41	**LHROK16HJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	41	41	**LHROK20HJ16**
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	50	41	**LHROK20HJ**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	50	48	**LHROK20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	55	48	**LHROK24HJ**

Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**

Product variants:

Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, L-shaped, stainless steel, L HROK HJ VA	**...LHROKHJVA**



Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, T shape, steel

Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 37° external cone

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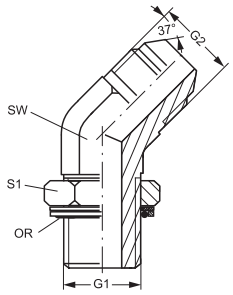
OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.00 x 2.00	G 1/8" -28	7/16" -20 UNF	14	11	THROK02HJ04
8.00 x 2.00	G 1/8" -28	1/2" -20 UNF	14	14	THROK02HJ05
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	19	14	THROK04HJ
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	14	14	THROK04HJ05
10.77 x 2.62	G 1/4" -19	9/16" -18 UNF	19	14	THROK04HJ06
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	19	19	THROK04HJ08
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	22	19	THROK06HJ04
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	THROK06HJ05
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	22	19	THROK06HJ
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	22	22	THROK06HJ08
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	THROK06HJ10
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	27	22	THROK08HJ04
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	THROK08HJ06
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	27	22	THROK08HJ
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	27	22	THROK08HJ10
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	27	27	THROK08HJ12
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	36	27	THROK12HJ08
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	36	27	THROK12HJ10
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	36	27	THROK12HJ
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	36	33	THROK12HJ16
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	41	33	THROK16HJ12
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	41	33	THROK16HJ
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	41	41	THROK16HJ20
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	50	41	THROK20HJ16
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	50	41	THROK20HJ
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	50	48	THROK20HJ24
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	60	48	THROK24HJ

Spare parts:

Retaining ring, imperial, KAMMRING G	...KAMMRINGG

Product variants:

Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, T-shaped, stainless steel, T HROK HJ VA	...THROKHJVA



Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, elbow 45°, steel

Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 37° external cone

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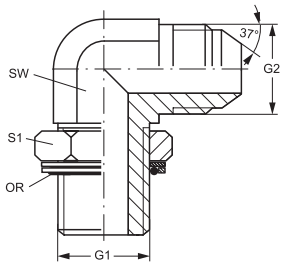
OR	G1	G2	S1	SW	Item no.
				mm	
8.00 x 2.00	G 1/8" -28	7/16" -20 UNF	14	11	W45HROK02HJ04
8.00 x 2.00	G 1/8" -28	1/2" -20 UNF	14	13	W45HROK02HJ05
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	14	19	W45HROK04HJ
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	19	14	W45HROK04HJ05

OR	G1	G2	S1	SW	Item no.
				mm	
10.77 x 2.62	G 1/4" -19	9/16" -18 UNF	19	14	**W45HROK04HJ06**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	19	19	**W45HROK04HJ08**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	22	19	**W45HROK06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	**W45HROK06HJ05**
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	22	19	**W45HROK06HJ**
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	22	19	**W45HROK06HJ08**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	**W45HROK06HJ10**
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	27	22	**W45HROK08HJ04**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	**W45HROK08HJ06**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	27	22	**W45HROK08HJ**
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	27	22	**W45HROK08HJ10**
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	27	27	**W45HROK08HJ12**
19.70 x 2.62	G 5/8" -14	7/8" -14 UNF	27	22	**W45HROK10HJ**
19.70 x 2.62	G 5/8" -14	1.1/16" -12 UN	36	27	**W45HROK10HJ12**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	36	27	**W45HROK12HJ08**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	36	27	**W45HROK12HJ10**
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	36	27	**W45HROK12HJ**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	36	33	**W45HROK12HJ16**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	41	33	**W45HROK16HJ12**
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	41	33	**W45HROK16HJ**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	41	41	**W45HROK16HJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	50	33	**W45HROK20HJ16**
37.96 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	50	41	**W45HROK20HJ**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	50	48	**W45HROK20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	55	48	**W45HROK24HJ**

Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**

Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, elbow 90°, steel



Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: 37° external cone

www ...W90HROKHJ

OR	G1	G2	S1	SW	Item no.
				mm	
7.97 x 1.88	G 1/8" -28	7/16" -20 UNF	14	12	**W90HROK02HJ04**
7.97 x 1.88	G 1/8" -28	1/2" -20 UNF	14	14	**W90HROK02HJ05**
10.77 x 2.62	G 1/4" -19	7/16" -20 UNF	19	14	**W90HROK04HJ**
10.77 x 2.62	G 1/4" -19	1/2" -20 UNF	19	14	**W90HROK04HJ05**
10.77 x 2.62	G 1/4" -19	9/16" -18 UNF	19	14	**W90HROK04HJ06**
10.77 x 2.62	G 1/4" -19	3/4" -16 UNF	19	19	**W90HROK04HJ08**
13.94 x 2.62	G 3/8" -19	9/16" -18 UNF	22	19	**W90HROK06HJ**
13.94 x 2.62	G 3/8" -19	7/16" -20 UNF	22	19	**W90HROK06HJ04**
13.94 x 2.62	G 3/8" -19	1/2" -20 UNF	22	19	**W90HROK06HJ05**
13.94 x 2.62	G 3/8" -19	3/4" -16 UNF	22	19	**W90HROK06HJ08**
13.94 x 2.62	G 3/8" -19	7/8" -14 UNF	22	22	**W90HROK06HJ10**
17.86 x 2.62	G 1/2" -14	3/4" -16 UNF	27	22	**W90HROK08HJ**
17.86 x 2.62	G 1/2" -14	7/16" -20 UNF	27	19	**W90HROK08HJ04**
17.86 x 2.62	G 1/2" -14	9/16" -18 UNF	27	22	**W90HROK08HJ06**
17.86 x 2.62	G 1/2" -14	7/8" -14 UNF	27	22	**W90HROK08HJ10**
17.86 x 2.62	G 1/2" -14	1.1/16" -12 UN	27	27	**W90HROK08HJ12**
19.70 x 2.62	G 5/8" -14	7/8" -14 UNF	30	22	**W90HROK10HJ**

OR	G1	G2	S1	SW	Item no.
				mm	
23.47 x 2.62	G 3/4" -14	1.1/16" -12 UN	36	27	**W90HROK12HJ**
23.47 x 2.62	G 3/4" -14	3/4" -16 UNF	36	27	**W90HROK12HJ08**
23.47 x 2.62	G 3/4" -14	7/8" -14 UNF	36	27	**W90HROK12HJ10**
23.47 x 2.62	G 3/4" -14	1.3/16" -12 UN	36	33	**W90HROK12HJ14**
23.47 x 2.62	G 3/4" -14	1.5/16" -12 UN	36	33	**W90HROK12HJ16**
29.74 x 3.53	G 1" -11	1.5/16" -12 UN	41	33	**W90HROK16HJ**
29.74 x 3.53	G 1" -11	1.1/16" -12 UN	41	33	**W90HROK16HJ12**
29.74 x 3.53	G 1" -11	1.5/8" -12 UN	41	41	**W90HROK16HJ20**
37.69 x 3.53	G 1.1/4" -11	1.5/8" -12 UN	50	41	**W90HROK20HJ**
37.69 x 3.53	G 1.1/4" -11	1.5/16" -12 UN	50	41	**W90HROK20HJ16**
37.69 x 3.53	G 1.1/4" -11	1.7/8" -12 UN	50	48	**W90HROK20HJ24**
44.04 x 3.53	G 1.1/2" -11	1.7/8" -12 UN	55	48	**W90HROK24HJ**

Spare parts:

Retaining ring, imperial, KAMMRING G **...KAMMRINGG**

Product variants:

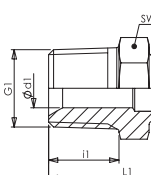
Stud connector, ISO 8434-2, AGR, ORK, ISO 1179, adjustable, AGJ 37°, elbow 90°, stainless steel, W90 HROK HJ VA **...W90HROKHJVA**



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, steel

Connection 1: BSPT conical external threads
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Sealing form 1: thread seal
Standard connection 1: DIN 3852-2
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, straight, steel

Type: straight
Sealing form 2: 37° internal cone

www ...GEHRKAJ

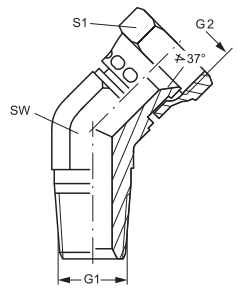
G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
R 1/8" K	7/16" -20 UNF	10.5	24.5	34.0	14	12.0	4.0	4.0	**GEHRK02AJ04**
R 1/8" K	1/2" -20 UNF	10.5	25.7	35.2	17	12.0	4.4	4.4	**GEHRK02AJ05**
R 1/4" K	7/16" -20 UNF	14.0	29.0	38.5	14	14.0	7.0	4.0	**GEHRK04AJ**
R 1/4" K	1/2" -20 UNF	14.0	30.2	39.7	17	14.0	7.0	4.4	**GEHRK04AJ05**
R 1/4" K	9/16" -18 UNF	14.0	30.3	40.3	19	14.0	6.0	6.0	**GEHRK04AJ06**
R 1/4" K	3/4" -16 UNF	14.0	32.4	43.9	24	19.0	7.0	9.9	**GEHRK04AJ08**
R 3/8" K	1/2" -20 UNF	14.5	30.7	40.2	17	17.0	10.0	4.4	**GEHRK06AJ05**
R 3/8" K	9/16" -18 UNF	14.5	30.8	40.8	19	17.0	10.0	6.0	**GEHRK06AJ**
R 3/8" K	3/4" -16 UNF	14.5	32.9	44.4	24	19.0	9.9	9.9	**GEHRK06AJ08**

G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
R 3/8" K	7/8" -14 UNF	14.5	34.6	48.3	27	22.0	10.0	12.3	**GEHRK06AJ10**
R 1/2" K	3/4" -16 UNF	18.5	37.4	48.9	24	22.0	13.0	9.9	**GEHRK08AJ**
R 1/2" K	7/8" -14 UNF	18.5	38.6	52.3	27	22.0	12.3	12.3	**GEHRK08AJ10**
R 1/2" K	1.1/16" -12 UN	18.5	40.1	55.0	32	27.0	13.0	15.5	**GEHRK08AJ12**
R 3/4" K	7/8" -14 UNF	20.0	41.1	54.8	27	27.0	18.0	12.3	**GEHRK12AJ10**
R 3/4" K	1.1/16" -12 UN	20.0	41.6	56.5	32	27.0	18.0	15.5	**GEHRK12AJ**
R 3/4" K	1.3/16" -12 UN	20.0	41.7	58.2	36	32.0	18.0	18.0	**GEHRK12AJ14**
R 3/4" K	1.5/16" -12 UN	20.0	43.1	59.9	41	32.0	18.0	21.5	**GEHRK12AJ16**
R 1" K	1.1/16" -12 UN	24.0	46.6	61.5	32	36.0	24.0	15.5	**GEHRK16AJ12**
R 1" K	1.5/16" -12 UN	24.0	47.6	64.4	41	36.0	21.5	21.5	**GEHRK16AJ**
R 1.1/4" K	1.5/8" -12 UN	26.0	53.5	69.8	50	46.0	27.5	27.5	**GEHRK20AJ**
R 1.1/2" K	1.7/8" -12 UN	27.0	56.3	75.7	60	50.0	33.5	33.5	**GEHRK24AJ**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, angle 45°, steel



Type: angle 45°
Sealing form 2: 37° internal cone

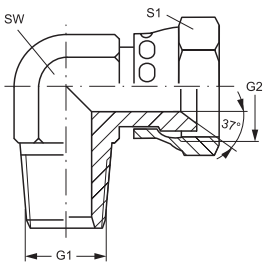
www ...W45HRKAJ

G1	G2	S1	SW	Item no.
			mm	
R 1/4" K	7/16" -20 UNF	16	14	**W45HRK04AJ**
R 3/8" K	9/16" -18 UNF	19	19	**W45HRK06AJ**
R 1/2" K	3/4" -16 UNF	22	22	**W45HRK08AJ**
R 1/2" K	7/8" -14 UNF	27	22	**W45HRK08AJ10**
R 3/4" K	1.1/16" -12 UN	27	32	**W45HRK12AJ**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, DKJ 37°, angle 90°, steel



Type: angle 90°
Sealing form 2: 37° external cone

www ...W90HRKAJ

G1	G2	S1	S2	SW	Item no.
				mm	
R 1/4" K	7/16" -20 UNF	16	18	14	**W90HRK04AJ**
R 3/8" K	9/16" -18 UNF	19	22	19	**W90HRK06AJ**
R 1/2" K	3/4" -16 UNF	22	32	22	**W90HRK08AJ**
R 1/2" K	7/8" -14 UNF	27	25	22	**W90HRK08AJ10**
R 3/4" K	1.1/16" -12 UN	32	21	27	**W90HRK12AJ**

Accessories:

PTFE sealing tape, TF BAND Page 494





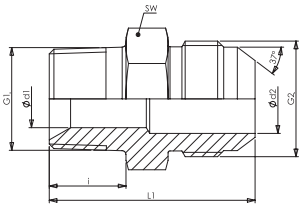


Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, steel

Connection 1: BSPT conical external threads
Sealing form 1: thread seal
Standard connection 1: DIN 3852-2
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: 37° external cone

www ...GEHRKHJ

G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
				mm			
R 1/8" K	7/16" -20 UNF	10.5	30	14	4	4	GEHRK02HJ04
R 1/8" K	1/2" -20 UNF	10.5	30	14	4	4	GEHRK02HJ05
R 1/4" K	7/16" -20 UNF	14	34.5	14	4.4	4.4	GEHRK04HJ
R 1/4" K	1/2" -20 UNF	14	34.5	14	6	6	GEHRK04HJ05
R 1/4" K	9/16" -18 UNF	14	34.6	19	7	7	GEHRK04HJ06
R 1/4" K	3/4" -16 UNF	14	37.7	22	7	7	GEHRK04HJ08
R 3/8" K	7/16" -20 UNF	14.5	36	19	4.4	4.4	GEHRK06HJ04
R 3/8" K	1/2" -20 UNF	14.5	36	19	6	6	GEHRK06HJ05
R 3/8" K	9/16" -18 UNF	14.5	36.1	19	7.5	7.5	GEHRK06HJ
R 3/8" K	3/4" -16 UNF	14.5	38.2	22	9.5	9.5	GEHRK06HJ08
R 3/8" K	7/8" -14 UNF	14.5	42.8	24	9.5	9.5	GEHRK06HJ10
R 3/8" K	1.1/16" -12 UN	14.5	46.9	27	9.5	9.5	GEHRK06HJ12
R 1/2" K	9/16" -18 UNF	18.5	40.1	22	7.5	7.5	GEHRK08HJ06
R 1/2" K	3/4" -16 UNF	18.5	42.7	22	9.9	9.9	GEHRK08HJ
R 1/2" K	7/8" -14 UNF	18.5	47.3	24	12.3	12.3	GEHRK08HJ10
R 1/2" K	1.1/16" -12 UN	18.5	21.9	27	13	13	GEHRK08HJ12
R 1/2" K	1.5/16" -12 UN	18.5	52.6	36	13	13	GEHRK08HJ16
R 5/8" K	7/8" -14 UNF	19.5	50.3	24	12.3	12.3	GEHRK10HJ
R 3/4" K	9/16" -18 UNF	20	45.1	27	15	7.5	GEHRK12HJ06
R 3/4" K	3/4" -16 UNF	20	47.7	27	15	9.9	GEHRK12HJ08
R 3/4" K	7/8" -14 UNF	20	50.3	27	12.3	12.3	GEHRK12HJ10
R 3/4" K	1.1/16" -12 UN	20	52.9	27	15	15	GEHRK12HJ
R 3/4" K	1.5/16" -12 UN	20	54.1	36	15	21.5	GEHRK12HJ16
R 3/4" K	1.5/8" -12 UN	20	57.3	46	15	22	GEHRK12HJ20
R 1" K	3/4" -16 UNF	24	51.7	36	22	9.9	GEHRK16HJ08
R 1" K	7/8" -14 UNF	24	54.3	36	22	12.3	GEHRK16HJ10
R 1" K	1.1/16" -12 UN	24	56.9	36	22	15.5	GEHRK16HJ12
R 1" K	1.5/16" -12 UN	24	58.1	36	21.5	21.5	GEHRK16HJ
R 1" K	1.5/8" -12 UN	24	61.3	46	22	27.5	GEHRK16HJ20
R 1.1/4" K	1.1/16" -12 UN	26	60.9	46	26	15.5	GEHRK20HJ12
R 1.1/4" K	1.5/16" -12 UN	26	62.1	46	26	21.5	GEHRK20HJ16
R 1.1/4" K	1.5/8" -12 UN	26	63.3	46	26	26	GEHRK20HJ
R 1.1/4" K	1.7/8" -12 UN	26	68.5	50	26	33.5	GEHRK20HJ24

G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
				mm			
R 1.1/2" K	1.5/16" -12 UN	27	65.1	50	32	21.5	**GEHRK24HJ16**
R 1.1/2" K	1.5/8" -12 UN	27	66.3	50	32	27.5	**GEHRK24HJ20**
R 1.1/2" K	1.7/8" -12 UN	27	69.5	50	32	32	**GEHRK24HJ**
R 1.1/2" K	2.1/2" -12 UN	27	79.9	65	32	45	**GEHRK24HJ32**
R 2" K	2.1/2" -12 UN	31	83.9	65	45	45	**GEHRK32HJ**
R 2.1/2" K	3" -11 UN	36	99	77	58	58	**GEHRK40HJ**
R 1" K	3.1/2" -11 UN	40	115	80	70	70	**GEHRK48HJ**

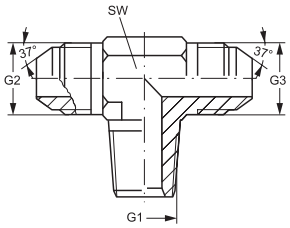
Product variants:

Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, straight, stain- less steel, GE HRK HJ VA **...GEHRKHJVA**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, T form, steel



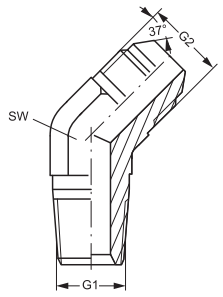
Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 37° external cone

www ...THRKHJ

G1	G2 + G3	SW	Item no.
		mm	
R 1/8" K	7/16" -20 UNF	11	**THRK02HJ04**
R 1/8" K	1/2" -20 UNF	13	**THRK02HJ05**
R 1/4" K	7/16" -20 UNF	14	**THRK04HJ**
R 1/4" K	1/2" -20 UNF	14	**THRK04HJ05**
R 1/4" K	9/16" -18 UNF	14	**THRK04HJ06**
R 3/8" K	9/16" -18 UNF	19	**THRK06HJ**
R 3/8" K	3/4" -16 UNF	19	**THRK06HJ08**
R 3/8" K	7/8" -14 UNF	19	**THRK06HJ10**
R 1/2" K	3/4" -16 UNF	22	**THRK08HJ**
R 1/2" K	7/8" -14 UNF	22	**THRK08HJ10**
R 1/2" K	1.1/16" -12 UN	27	**THRK08HJ12**
R 3/4" K	7/8" -14 UNF	27	**THRK12HJ10**
R 3/4" K	1.1/16" -12 UN	27	**THRK12HJ**
R 1" K	1.5/16" -12 UN	33	**THRK16HJ**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, angle 45°, steel

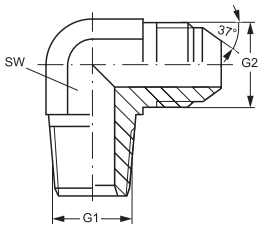
Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 37° external cone

www ...W45HRKHJ

G1	G2	SW	Item no.
		mm	
R 1/8" K	7/16" -20 UNF	11	W45HRK02HJ04
R 1/8" K	1/2" -20 UNF	13	W45HRK02HJ05
R 1/8" K	9/16" -18 UNF	14	W45HRK02HJ06
R 1/4" K	7/16" -20 UNF	14	W45HRK04HJ
R 1/4" K	1/2" -20 UNF	22	W45HRK04HJ05
R 1/4" K	9/16" -18 UNF	14	W45HRK04HJ06
R 1/4" K	3/4" -16 UNF	19	W45HRK04HJ08
R 3/8" K	7/16" -20 UNF	19	W45HRK06HJ04
R 3/8" K	1/2" -20 UNF	14	W45HRK06HJ05
R 3/8" K	9/16" -18 UNF	19	W45HRK06HJ
R 3/8" K	3/4" -16 UNF	19	W45HRK06HJ08
R 3/8" K	7/8" -14 UNF	22	W45HRK06HJ10
R 1/2" K	7/16" -20 UNF	22	W45HRK08HJ04
R 1/2" K	9/16" -18 UNF	22	W45HRK08HJ06
R 1/2" K	3/4" -16 UNF	22	W45HRK08HJ
R 1/2" K	7/8" -14 UNF	22	W45HRK08HJ10
R 1/2" K	1.1/16" -12 UN	27	W45HRK08HJ12
R 3/4" K	7/8" -14 UNF	27	W45HRK12HJ10
R 3/4" K	1.1/16" -12 UN	37	W45HRK12HJ
R 3/4" K	1.5/16" -12 UN	33	W45HRK12HJ16
R 1" K	7/8" -14 UNF	33	W45HRK16HJ10
R 1" K	1.1/16" -12 UN	33	W45HRK16HJ12
R 1" K	1.5/16" -12 UN	33	W45HRK16HJ
R 1" K	1.5/8" -12 UN	41	W45HRK16HJ20
R 1.1/4" K	1.5/8" -12 UN	41	W45HRK20HJ
R 1.1/2" K	1.7/8" -12 UN	48	W45HRK24HJ
R 2" K	2.1/2" -12 UN	66	W45HRK32HJ

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-2, AGR tapered, DIN 3852-2, type C, AGJ 37°, angle 90°, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: angle 90°
Sealing form 2: 37° external cone

www ...W90HRKHJ

G1	G2	SW	Item no.
		mm	
R 1/8" K	7/16" -20 UNF	11	W90HRK02HJ04
R 1/8" K	1/2" -20 UNF	13	W90HRK02HJ05
R 1/8" K	9/16" -18 UNF	14	W90HRK02HJ06
R 1/4" K	7/16" -20 UNF	14	W90HRK04HJ
R 1/4" K	1/2" -20 UNF	14	W90HRK04HJ05
R 1/4" K	9/16" -18 UNF	14	W90HRK04HJ06
R 1/4" K	3/4" -16 UNF	19	W90HRK04HJ08

G1	G2	SW	Item no.
		mm	
R 3/8" K	9/16" -18 UNF	19	**W90HRK06HJ**
R 3/8" K	7/16" -20 UNF	19	**W90HRK06HJ04**
R 3/8" K	1/2" -20 UNF	19	**W90HRK06HJ05**
R 3/8" K	3/4" -16 UNF	19	**W90HRK06HJ08**
R 3/8" K	7/8" -14 UNF	22	**W90HRK06HJ10**
R 1/2" K	3/4" -16 UNF	22	**W90HRK08HJ**
R 1/2" K	7/16" -20 UNF	22	**W90HRK08HJ04**
R 1/2" K	9/16" -18 UNF	22	**W90HRK08HJ06**
R 1/2" K	7/8" -14 UNF	22	**W90HRK08HJ10**
R 1/2" K	1.1/16" -12 UN	27	**W90HRK08HJ12**
R 3/4" K	1.1/16" -12 UN	27	**W90HRK12HJ**
R 3/4" K	3/4" -16 UNF	27	**W90HRK12HJ08**
R 3/4" K	7/8" -14 UNF	27	**W90HRK12HJ10**
R 3/4" K	1.5/16" -12 UN	33	**W90HRK12HJ16**
R 1" K	1.5/16" -12 UN	33	**W90HRK16HJ**
R 1" K	7/8" -14 UNF	33	**W90HRK16HJ10**
R 1" K	1.1/16" -12 UN	33	**W90HRK16HJ12**
R 1" K	1.5/8" -12 UN	41	**W90HRK16HJ20**
R 1.1/4" K	1.5/8" -12 UN	41	**W90HRK20HJ**
R 1.1/4" K	1.5/16" -12 UN	41	**W90HRK20HJ16**
R 1.1/2" K	1.7/8" -12 UN	48	**W90HRK24HJ**
R 2" K	2.1/2" -12 UN	66	**W90HRK32HJ**

Accessories:

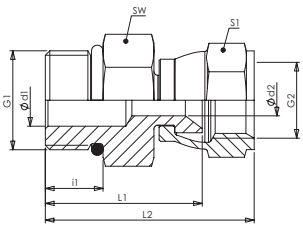
PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, DKJ 37°, straight, steel



Connection 1: UN/UNF external threads
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° internal cone
Standard connection 1: ISO 11926-3
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEOAJ

OR	G1	G2	i1	L1	L2	S1	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm		mm	mm	mm	
9.17 x 1.83	7/16" -20 UNF	7/16" -20 UNF	9.1	25.1	34.6	14	16	14	4.0	4.0	**GEO04AJ**
10.52 x 1.83	1/2" -20 UNF	7/16" -20 UNF	9.1	25.1	34.6	14	16	17	6.0	4.0	**GEO05AJ04**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	9.1	26.3	35.8	17	17	17	6.0	4.4	**GEO05AJ**
11.90 x 1.98	9/16" -18 UNF	7/16" -20 UNF	10.0	26.9	36.4	14	16	17	7.5	4.0	**GEO06AJ04**
11.90 x 1.98	9/16" -18 UNF	9/16" -18 UNF	10.0	28.2	38.2	19	19	17	7.5	6.0	**GEO06AJ**
11.90 x 1.98	9/16" -18 UNF	3/4" -16 UNF	10.0	29.8	41.3	24	22	19	7.5	9.9	**GEO06AJ08**
16.36 x 2.20	3/4" -16 UNF	9/16" -18 UNF	11.1	30.2	40.2	19	19	22	10	6.0	**GEO08AJ06**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	11.1	31.8	43.3	24	22	22	9.9	9.9	**GEO08AJ**
16.36 x 2.20	3/4" -16 UNF	7/8" -14 UNF	11.1	33.0	46.7	27	27	22	10.0	12.3	**GEO08AJ10**
16.36 x 2.20	3/4" -16 UNF	1.1/16" -12 UN	11.1	38.4	53.3	32	32	27	10.0	15.5	**GEO08AJ12**
19.18 x 2.46	7/8" -14 UNF	3/4" -16 UNF	12.7	34.8	46.3	24	22	27	12.5	9.9	**GEO10AJ08**
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	12.7	36.0	49.7	27	27	27	12.3	12.3	**GEO10AJ**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	12.7	36.5	51.4	32	32	27	12.5	15.5	**GEO10AJ12**

OR	G1	G2	i1	L1	L2	S1	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm		mm	mm	mm	
23.47 x 2.95	1.1/16" -12 UN	3/4" -16 UNF	15.1	39.1	50.6	24	22	32	15.5	9.9	**GEO12AJ08**
23.47 x 2.95	1.1/16" -12 UN	7/8" -14 UNF	15.1	40.3	54.0	27	27	32	15.5	12.3	**GEO12AJ10**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	15.1	40.8	55.7	32	32	32	15.5	15.5	**GEO12AJ**
23.47 x 2.95	1.1/16" -12 UN	1.5/16" -12 UN	15.1	41.8	58.6	41	38	32	15.5	21.5	**GEO12AJ16**
26.62 x 2.95	1.3/16" -12 UN	1.3/16" -12 UN	15.1	40.6	57.1	36	36	36	18.0	18.0	**GEO14AJ**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	15.1	41.1	56.0	32	32	41	21.5	15.5	**GEO16AJ12**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	15.1	42.1	58.9	41	38	41	21.5	21.5	**GEO16AJ**
37.47 x 3.00	1.5/8" -12 UN	1.5/16" -12 UN	15.1	44.4	61.2	41	38	50	27.5	21.5	**GEO20AJ16**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	15.1	46.3	62.6	50	50	50	27.5	27.5	**GEO20AJ**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	15.1	49.9	69.3	60	60	55	33.5	33.5	**GEO24AJ**



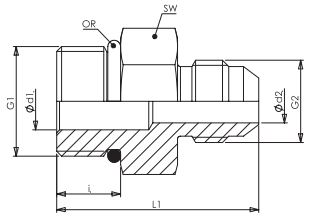




Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, AGJ 37°, steel

Connection 1: UN/UNF external threads
Sealing form 1: O-ring seal, on screw-in socket
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: 37° external cone
Standard connection 1: ISO 11926-3
Standard: ISO 8434-2

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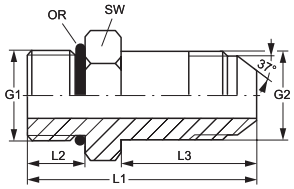
OR	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
7.65 x 1.63	3/8" -24 UNF	7/16" -20 UNF	7.5	29.7	12	3	3	**GEO03HJ04**
9.17 x 1.83	7/16" -20 UNF	7/16" -20 UNF	9.1	31	14	4.4	4.4	**GEO04HJ**
9.17 x 1.83	7/16" -20 UNF	1/2" -20 UNF	9.1	31.2	14	4	6	**GEO04HJ05**
9.17 x 1.83	7/16" -20 UNF	9/16" -18 UNF	9.1	32.2	17	4	7.5	**GEO04HJ06**
10.52 x 1.83	1/2" -20 UNF	7/16" -20 UNF	9.1	31.2	17	4.4	4.4	**GEO05HJ04**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	9.1	31	17	6	6	**GEO05HJ**
10.52 x 1.83	1/2" -20 UNF	9/16" -18 UNF	9.1	32.2	17	6	6	**GEO05HJ06**
11.90 x 1.98	9/16" -18 UNF	7/16" -20 UNF	10	32.7	17	7.5	4.4	**GEO06HJ04**
11.90 x 1.98	9/16" -18 UNF	1/2" -20 UNF	10	32.7	17	6	6	**GEO06HJ05**
11.90 x 1.98	9/16" -18 UNF	9/16" -18 UNF	10	33	17	7.5	7.5	**GEO06HJ**
11.90 x 1.98	9/16" -18 UNF	3/4" -16 UNF	10	36.6	19	7.5	9.9	**GEO06HJ08**
16.36 x 2.20	3/4" -16 UNF	7/16" -20 UNF	11.1	34.8	22	9.9	4.4	**GEO08HJ04**

OR	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
16.36 x 2.20	3/4" -16 UNF	1/2" -20 UNF	11.1	34.8	22	9.9	6	**GEO08HJ05**
16.36 x 2.20	3/4" -16 UNF	9/16" -18 UNF	11.1	35.1	22	9.9	7.5	**GEO08HJ06**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	11.1	37.5	22	9.9	9.9	**GEO08HJ**
16.36 x 2.20	3/4" -16 UNF	7/8" -14 UNF	11.1	41.7	24	9.9	12.3	**GEO08HJ10**
16.36 x 2.20	3/4" -16 UNF	1.1/16" -12 UN	11.1	49.2	27	9.9	15.5	**GEO08HJ12**
19.18 x 2.46	7/8" -14 UNF	9/16" -18 UNF	12.7	38.1	27	12.3	7.5	**GEO10HJ06**
19.18 x 2.46	7/8" -14 UNF	3/4" -16 UNF	12.7	40.7	27	9.9	9.9	**GEO10HJ08**
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	12.7	43	27	12.3	12.3	**GEO10HJ**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	12.7	47.7	27	12.3	15.5	**GEO10HJ12**
19.18 x 2.46	7/8" -14 UNF	1.5/16" -12 UN	12.7	52.6	36	12.3	21.5	**GEO10HJ16**
23.47 x 2.95	1.1/16" -12 UN	9/16" -18 UNF	15.1	42.1	32	15.5	7.5	**GEO12HJ06**
23.47 x 2.95	1.1/16" -12 UN	3/4" -16 UNF	15.1	44.7	32	15.5	9.9	**GEO12HJ08**
23.47 x 2.95	1.1/16" -12 UN	7/8" -14 UNF	15.1	47.2	32	12.3	12.3	**GEO12HJ10**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	15.1	50	32	15.5	15.5	**GEO12HJ**
23.47 x 2.95	1.1/16" -12 UN	1.5/16" -12 UN	15.1	51.8	36	15.5	21.5	**GEO12HJ16**
26.62 x 2.95	1.3/16" -12 UN	1.1/16" -12 UN	15.1	49.7	36	15.5	15.5	**GEO14HJ12**
26.62 x 2.95	1.3/16" -12 UN	1.3/16" -12 UN	15.1	50.5	36	18	18	**GEO14HJ**
29.74 x 2.95	1.5/16" -12 UN	7/8" -14 UNF	15.1	48	41	21.5	12.3	**GEO16HJ10**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	15.1	50.5	41	21.5	15.5	**GEO16HJ12**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	15.1	52	41	21.5	21.5	**GEO16HJ**
29.74 x 2.95	1.5/16" -12 UN	1.5/8" -12 UN	15.1	59.2	46	21.5	27.5	**GEO16HJ20**
29.74 x 2.95	1.5/16" -12 UN	1.7/8" -12 UN	15.1	62.7	50	21.5	33.5	**GEO16HJ24**
37.47 x 3.00	1.5/8" -12 UN	1.5/16" -12 UN	15.1	53.8	50	27.5	21.5	**GEO20HJ16**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	15.1	55	50	27.5	27.5	**GEO20HJ**
37.47 x 3.00	1.5/8" -12 UN	1.7/8" -12 UN	15.1	58.2	50	27.5	27.5	**GEO20HJ24**
43.69 x 3.00	1.7/8" -12 UN	1.5/8" -12 UN	15.1	56.9	55	33	27.5	**GEO24HJ20**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	15.1	60	55	33.5	33.5	**GEO24HJ**
59.36 x 3.00	2.1/2" -12 UN	2.1/2" -12 UN	15.1	70.5	70	45	45	**GEO32HJ**

Product variants:

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, AGJ 37°, straight, stainless steel, GE**...GEOHJVA**
O HJ VA

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, AGJ 37°, straight, long, steel



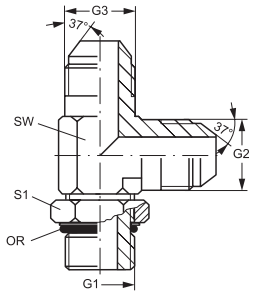
Connection 2: UN/UNF external threads
Construction type: screw-in socket, long
Type: straight
Sealing form 2: 37° external cone
Standard connection 1: ISO 11926-3
Standard: ISO 8434-2

www ...GEOLHJ

OR	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
8.92 x 1.83	7/16" -20 UNF	7/16" -20 UNF	52.8	9.5	35	17	**GEOL04HJ**
10.52 x 1.83	1/2" -20 UNF	7/16" -20 UNF	52.5	9.5	35	19	**GEOL05HJ04**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	54.5	9.5	37	19	**GEOL05HJ**
11.90 x 1.98	9/16" -18 UNF	7/16" -20 UNF	54.5	10.0	35	21	**GEOL06HJ04**
11.90 x 1.98	9/16" -18 UNF	9/16" -18 UNF	58.5	10.0	39	18	**GEOL06HJ**
16.36 x 2.20	3/4" -16 UNF	9/16" -18 UNF	60.0	9.5	39	26	**GEOL08HJ06**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	68.5	10.0	48	26	**GEOL08HJ**
16.36 x 2.20	3/4" -16 UNF	7/8" -14 UNF	74.5	13.0	53	36	**GEOL08HJ10**
16.36 x 2.20	3/4" -16 UNF	1.1/16" -12 UN	86.5	13.0	63	36	**GEOL08HJ12**
19.18 x 2.46	7/8" -14 UNF	3/4" -16 UNF	71.5	11.5	48	30	**GEOL10HJ08**

OR	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	77.0	15.5	53	30	**GEOL10HJ**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	88.0	15.5	63	36	**GEOL10HJ12**
23.47 x 2.95	1.1/16" -12 UN	3/4" -16 UNF	76.0	11.5	48	36	**GEOL12HJ08**
23.47 x 2.95	1.1/16" -12 UN	7/8" -14 UNF	81.5	11.5	53	36	**GEOL12HJ10**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	91.5	11.5	63	36	**GEOL12HJ**
23.47 x 2.95	1.1/16" -12 UN	1.5/16" -12 UN	100.0	15.5	72	45	**GEOL12HJ16**
26.59 x 2.95	1.3/16" -12 UN	1.3/16" -12 UN	96.5	15.5	68	40	**GEOL14HJ**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	92.5	13.0	63	45	**GEOL16HJ12**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	101.0	15.5	72	45	**GEOL16HJ**
37.47 x 3.00	1.5/8" -12 UN	1.5/16" -12 UN	102.0	15.5	72	55	**GEOL20HJ16**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	119.0	15.5	88	55	**GEOL20HJ**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	131.0	15.5	98	62	**GEOL24HJ**

2



Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, L form, steel

Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: 37° external cone
Standard: ISO 11926-3

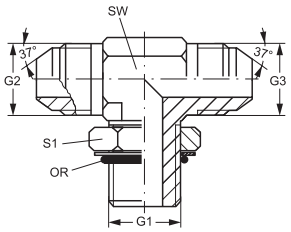
www ...LOHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.92 x 1.83	7/16" -20 UNF	7/16" -20 UNF	14	11	**LO04HJ**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	16	14	**LO05HJ**
15.40 x 2.10	9/16" -18 UNF	9/16" -18 UNF	17	14	**LO06HJ**
16.36 x 2.20	3/4" -16 UNF	9/16" -18 UNF	22	19	**LO08HJ06**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	22	19	**LO08HJ**
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	25	22	**LO10HJ**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	25	27	**LO10HJ12**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	32	27	**LO12HJ**
23.47 x 2.95	1.1/16" -12 UN	1.5/16" -12 UN	32	33	**LO12HJ16**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	38	27	**LO16HJ12**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	38	33	**LO16HJ**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	48	41	**LO20HJ**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	54	48	**LO24HJ**

Product variants:

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, L-shaped, stainless steel, L O HJ VA	**...LOHJVA**

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, T form, steel



Connection 2 + 3: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 37° external cone
Standard connection 1: ISO 11926-3
Standard: ISO 8434-2

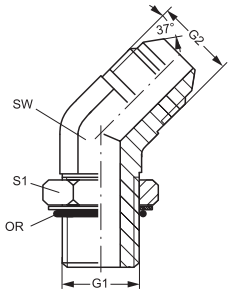
www ...TOHJ

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
8.92 x 1.83	7/16" -20 UNF	7/16" -20 UNF	14	11	**TO04HJ**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	16	14	**TO05HJ**
11.90 x 1.98	9/16" -18 UNF	9/16" -18 UNF	17	14	**TO06HJ**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	22	19	**TO08HJ**
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	27	22	**TO10HJ**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	32	27	**TO12HJ**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	38	33	**TO16HJ**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	48	42	**TO20HJ**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	55	48	**TO24HJ**

Product variants:

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, T-shaped, stainless steel, T O HJ VA	**...TOHJVA**

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, elbow 45°, steel



Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 37° external cone
Standard connection 1: ISO 11926-3
Standard: ISO 8434-2

www ...W45OHJ

OR	G1	G2	S1	SW	Item no.
				mm	
8.92 x 1.83	7/16" -20 UNF	7/16" -20 UNF	14	11	**W45O04HJ**
10.52 x 1.83	1/2" -20 UNF	7/16" -20 UNF	16	13	**W45O05HJ04**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	16	13	**W45O05HJ**
11.90 x 1.98	9/16" -18 UNF	9/16" -18 UNF	17	14	**W45O06HJ**
11.90 x 1.98	9/16" -18 UNF	3/4" -16 UNF	17	19	**W45O06HJ08**
16.36 x 2.20	3/4" -16 UNF	9/16" -18 UNF	22	19	**W45O08HJ06**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	22	19	**W45O08HJ**
16.36 x 2.20	3/4" -16 UNF	7/8" -14 UNF	22	22	**W45O08HJ10**
16.36 x 2.20	3/4" -16 UNF	1.1/16" -12 UN	27	22	**W45O08HJ12**
19.18 x 2.46	7/8" -14 UNF	3/4" -16 UNF	25	22	**W45O10HJ08**
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	27	22	**W45O10HJ**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	25	27	**W45O10HJ12**
23.47 x 2.95	1.1/16" -12 UN	3/4" -16 UNF	32	22	**W45O12HJ08**
23.47 x 2.95	1.1/16" -12 UN	7/8" -14 UNF	22	32	**W45O12HJ10**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	32	27	**W45O12HJ**
23.47 x 2.95	1.1/16" -12 UN	1.5/16" -12 UN	32	33	**W45O12HJ16**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	27	38	**W45O16HJ12**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	38	33	**W45O16HJ**

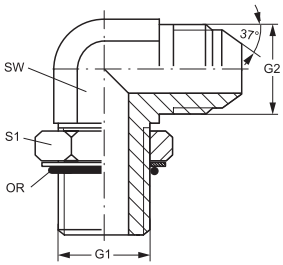
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OR	G1	G2	S1	SW	Item no.
				mm	
29.74 x 2.95	1.5/16" -12 UN	1.5/8" -12 UN	38	41	**W45O16HJ20**
37.47 x 3.00	1.5/8" -12 UN	1.5/16" -12 UN	48	33	**W45O20HJ16**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	48	41	**W45O20HJ**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	54	48	**W45O24HJ**
59.36 x 3.00	2.1/2" -12 UN	2.1/2" -12 UN	70	66	**W45O32HJ**

Product variants:

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, elbow 45°, stainless steel, W45 O HJ VA **...W45OHJVA**

2



Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, elbow 90°, steel

Connection 2: UN/UNF external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: 37° external cone
Standard connection 1: ISO 11926-3
Standard: ISO 8434-2

www ...W90OHJ

OR	G1	G2	S1	SW	Item no.
				mm	
9.17 x 1.63	7/16" -20 UNF	7/16" -20 UNF	14	12	**W90O04HJ**
9.17 x 1.63	7/16" -20 UNF	1/2" -20 UNF	14	12	**W90O04HJ05**
9.17 x 1.63	7/16" -20 UNF	9/16" -18 UNF	14	12	**W90O04HJ06**
9.17 x 1.63	7/16" -20 UNF	3/4" -16 UNF	14	12	**W90O04HJ08**
10.52 x 1.83	1/2" -20 UNF	1/2" -20 UNF	17	13	**W90O05HJ**
10.52 x 1.83	1/2" -20 UNF	7/16" -20 UNF	17	13	**W90O05HJ04**
10.52 x 1.83	1/2" -20 UNF	9/16" -18 UNF	17	13	**W90O05HJ06**
11.90 x 1.98	9/16" -18 UNF	9/16" -18 UNF	17	14	**W90O06HJ**
11.90 x 1.98	9/16" -18 UNF	7/16" -20 UNF	17	14	**W90O06HJ04**
11.90 x 1.98	9/16" -18 UNF	1/2" -20 UNF	17	14	**W90O06HJ05**
11.90 x 1.98	9/16" -18 UNF	3/4" -16 UNF	17	14	**W90O06HJ08**
16.36 x 2.20	3/4" -16 UNF	3/4" -16 UNF	22	19	**W90O08HJ**
16.36 x 2.20	3/4" -16 UNF	9/16" -18 UNF	22	19	**W90O08HJ06**
16.36 x 2.20	3/4" -16 UNF	7/8" -14 UNF	22	19	**W90O08HJ10**
16.36 x 2.20	3/4" -16 UNF	1.1/16" -12 UN	22	19	**W90O08HJ12**
19.18 x 2.46	7/8" -14 UNF	7/8" -14 UNF	27	22	**W90O10HJ**
19.18 x 2.46	7/8" -14 UNF	9/16" -18 UNF	27	22	**W90O10HJ06**
19.18 x 2.46	7/8" -14 UNF	3/4" -16 UNF	27	22	**W90O10HJ08**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	27	22	**W90O10HJ12**
23.47 x 2.95	1.1/16" -12 UN	1.1/16" -12 UN	32	27	**W90O12HJ**
23.47 x 2.95	1.1/16" -12 UN	3/4" -16 UNF	32	27	**W90O12HJ08**
23.47 x 2.95	1.1/16" -12 UN	7/8" -14 UNF	32	27	**W90O12HJ10**
23.47 x 2.95	1.1/16" -12 UN	1.5/16" -12 UN	32	27	**W90O12HJ16**
29.74 x 2.95	1.5/16" -12 UN	1.5/16" -12 UN	41	33	**W90O16HJ**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	41	33	**W90O16HJ12**
29.74 x 2.95	1.5/16" -12 UN	1.5/8" -12 UN	41	33	**W90O16HJ20**
37.47 x 3.00	1.5/8" -12 UN	1.5/8" -12 UN	50	41	**W90O20HJ**
37.47 x 3.00	1.5/8" -12 UN	1.5/16" -12 UN	50	41	**W90O20HJ16**
43.69 x 3.00	1.7/8" -12 UN	1.7/8" -12 UN	55	48	**W90O24HJ**
59.36 x 3.00	2.1/2" -12 UN	2.1/2" -12 UN	70	65	**W90O32HJ**

Product variants:

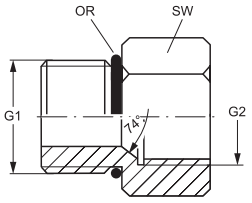
Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, adjustable, AGJ 37°, elbow 90°, stainless steel, W90 O HJ VA **...W90OHJVA**

Stud connector, ISO 8434-2, AG UNF, OR, ISO 11926, IGJ 37°, straight, steel



Connection 1: UN/UNF external threads
Connection 2: UN/UNF inner thread
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 37° internal cone
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEOIJ

OR	G1	G2	SW	Item no.
			mm	
11.90 x 1.98	9/16" -18 UNF	3/4" -16 UNF	27	**GEO06IJ08**
19.18 x 2.46	7/8" -14 UNF	3/4" -16 UNF	25	**GEO10IJ08**
19.18 x 2.46	7/8" -14 UNF	1.1/16" -12 UN	35	**GEO10IJ12**
23.47 x 2.95	1.1/16" -12 UN	3/4" -16 UNF	32	**GEO12IJ08**
23.47 x 2.95	1.1/16" -12 UN	7/8" -14 UNF	32	**GEO12IJ10**
29.74 x 2.95	1.5/16" -12 UN	1.1/16" -12 UN	38	**GEO16IJ12**

Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, steel



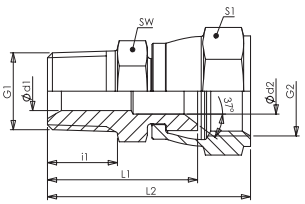




Sealing form 1: thread seal
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, straight, steel



Connection 1: NPT external threads
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 2: 37° internal cone
Standard: ISO 8434-2
SAE J 514

www ...GEHNAJ

d1	d2	G1	G2	i1	L1	L2	S1	S1	SW	Item no.
mm	mm			mm	mm	mm	mm		mm	
4	4	1/8" -27 NPT	7/16" -20 UNF	10.1	23.6	33.1	14	14	11	**GEHN02AJ04**
4.4	4.4	1/8" -27 NPT	1/2" -20 UNF	10.1	24.8	34.3	17	17	12	**GEHN02AJ05**
4.5	6	1/8" -27 NPT	9/16" -18 UNF	10.1	25.9	35.9	19	14	14	**GEHN02AJ06**

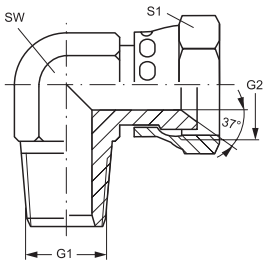
d1	d2	G1	G2	i1	L1	L2	S1	S1	SW	Item no.
mm	mm			mm	mm	mm	mm		mm	
5.6	4	1/4" -18 NPT	7/16" -20 UNF	15	29.5	39	14	14	14	**GEHN04AJ**
5.6	4.4	1/4" -18 NPT	1/2" -20 UNF	15	30.7	40.2	17	16	14	**GEHN04AJ05**
5.6	5.6	1/4" -18 NPT	9/16" -18 UNF	15	30.8	40.8	19	17	14	**GEHN04AJ06**
5.6	9.9	1/4" -18 NPT	3/4" -16 UNF	15	32.4	43.9	24	22	19	**GEHN04AJ08**
8.4	6	3/8" -18 NPT	9/16" -18 UNF	15.2	32.6	44.1	24	17	19	**GEHN06AJ**
8.4	9.9	3/8" -18 NPT	3/4" -16 UNF	15.2	32.6	44.1	24	22	19	**GEHN06AJ08**
8.4	12.3	3/8" -18 NPT	7/8" -14 UNF	15.2	35.3	49	27	27	22	**GEHN06AJ10**
11.9	6	1/2" -14 NPT	9/16" -18 UNF	19.9	37.2	47.2	19	19	22	**GEHN08AJ06**
11.9	9.9	1/2" -14 NPT	3/4" -16 UNF	19.9	38.8	50.3	22	22	22	**GEHN08AJ**
11.9	11.9	1/2" -14 NPT	7/8" -14 UNF	19.9	40	53.7	27	25	22	**GEHN08AJ10**
11.9	15.5	1/2" -14 NPT	1.1/16" -12 UN	19.9	42	56.9	32	32	27	**GEHN08AJ12**
16.5	9.9	3/4" -14 NPT	3/4" -16 UNF	20.2	40.6	52.1	24	22	27	**GEHN12AJ08**
16.5	12.3	3/4" -14 NPT	7/8" -14 UNF	20.2	41.8	55.5	27	27	27	**GEHN12AJ10**
15.5	15.5	3/4" -14 NPT	1.1/16" -12 UN	20.2	42.3	57.2	32	32	27	**GEHN12AJ**
16.5	16.5	3/4" -14 NPT	1.3/16" -12 UN	20.2	42.4	58.9	36	32	32	**GEHN12AJ14**
16.5	21.5	3/4" -14 NPT	1.5/16" -12 UN	20.2	43.8	60.6	41	38	32	**GEHN12AJ16**
21.1	21.1	1" -11.5 NPT	1.5/16" -12 UN	25.1	48.7	65.5	41	38	36	**GEHN16AJ**
21.1	27.5	1" -11.5 NPT	1.5/8" -12 UN	25.1	51.6	67.9	50	50	41	**GEHN16AJ20**
27.5	27.5	1.1/4" -11.5 NPT	1.5/8" -12 UN	25.7	53.2	69.5	50	50	46	**GEHN20AJ**
33.5	33.5	1.1/2" -11.5 NPT	1.7/8" -12 UN	26.1	55.9	75.3	60	58	50	**GEHN24AJ**

Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, straight, stainless steel, GE HN AJ VA **...GEHNAJVA**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, elbow 90°, steel

Connection 1: NPT external threads
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: angle 90°
Sealing form 2: 37° internal cone
Standard connection 1: SAE J 514
Standard: ISO 8434-2

www **...W90HNAJ**

G1	G2	S1	SW	Item no.
			mm	
1/8" -27 NPT	7/16" -20 UNF	14	13	**W90HN02AJ04**
1/8" -27 NPT	1/2" -20 UNF	16	14	**W90HN02AJ05**
1/4" -18 NPT	7/16" -20 UNF	14	14	**W90HN04AJ**
1/4" -18 NPT	9/16" -18 UNF	19	16	**W90HN04AJ06**
3/8" -18 NPT	9/16" -18 UNF	19	19	**W90HN06AJ**
3/8" -18 NPT	3/4" -16 UNF	22	19	**W90HN06AJ08**
1/2" -14 NPT	7/8" -14 UNF	27	24	**W90HN08AJ10**
3/4" -14 NPT	1.1/16" -12 UN	32	27	**W90HN12AJ**
1" -11.5 NPT	1.5/16" -12 UN	38	36	**W90HN16AJ**

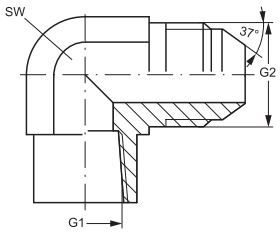
Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, DKJ 37°, elbow 90°, stainless steel, W90HN AJ VA **...W90HNAJVA**

Accessories:

PTFE sealing tape, TF BAND Page 494

Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, elbow 90°, steel



Connection 1: NPT internal threads
Connection 2: UN/UNF external threads
Construction type: screw-on socket
Type: angle 90°
Sealing form 2: 37° external cone
Standard connection 1: SAE J 514
Standard: ISO 8434-2

www ...W90INHJ

G1	G2	SW	Item no.
		mm	
1/8" -27 NPT	7/16" -20 UNF	14	**W90IN02HJ04**
1/8" -27 NPT	1/2" -20 UNF	14	**W90IN02HJ05**
1/8" -27 NPT	9/16" -18 UNF	14	**W90IN02HJ06**
1/4" -18 NPT	7/16" -20 UNF	19	**W90IN04HJ**
1/4" -18 NPT	1/2" -20 UNF	19	**W90IN04HJ05**
1/4" -18 NPT	9/16" -18 UNF	19	**W90IN04HJ06**
1/4" -18 NPT	3/4" -16 UNF	19	**W90IN04HJ08**
3/8" -18 NPT	9/16" -18 UNF	22	**W90IN06HJ**
1/2" -14 NPT	3/4" -16 UNF	27	**W90IN08HJ**
1/2" -14 NPT	7/8" -14 UNF	27	**W90IN08HJ10**
1/2" -14 NPT	1.1/16" -12 UN	27	**W90IN08HJ12**
3/4" -14 NPT	1.1/16" -12 UN	33	**W90IN12HJ**
1" -11.5 NPT	1.5/16" -12 UN	41	**W90IN16HJ**
1.1/4" -11.5 NPT	1.5/8" -12 UN	48	**W90IN20HJ**
1.1/2" -11.5 NPT	1.7/8" -12 UN	64	**W90IN24HJ**

Product variants:

Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, elbow 90°, stainless steel, W90 **...W90INHJVA**
IN HJ VA

Connecting socket, ISO 8434-2,DKJ 37°, steel





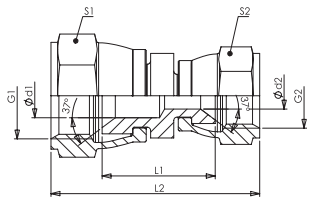


Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2

Union connector, ISO 8434-2, DKJ 37°, straight, steel



Connection 1: UN/UNF nut threads
Connection 2: UN/UNF nut threads
Construction type: connectors
Type: straight
Sealing form 1: 37° internal cone
Sealing form 2: 37° internal cone

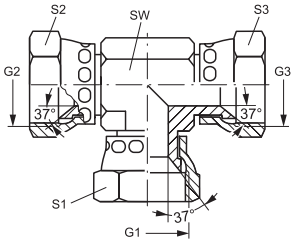
www ...GAJ

d1	d2	G1	G2	L1	L2	S1	S2	Item no.
mm	mm			mm	mm			
4.0	4.0	7/16" -20 UNF	7/16" -20 UNF	19.0	38.0	14	14	**GAJ04**
4.4	4.4	1/2" -20 UNF	1/2" -20 UNF	21.4	40.4	17	17	**GAJ05**
6.0	4.0	9/16" -18 UNF	7/16" -20 UNF	21.9	41.4	19	14	**GAJ06AJ04**
6.0	4.4	9/16" -18 UNF	1/2" -20 UNF	23.0	42.5	19	17	**GAJ06AJ05**
6.0	6.0	9/16" -18 UNF	9/16" -18 UNF	21.6	41.6	19	19	**GAJ06**
9.9	6.0	3/4" -16 UNF	9/16" -18 UNF	25.4	46.9	24	19	**GAJ08AJ06**
9.9	9.9	3/4" -16 UNF	3/4" -16 UNF	24.8	47.8	24	24	**GAJ08**
12.3	6.0	7/8" -14 UNF	9/16" -18 UNF	27.3	51.0	27	19	**GAJ10AJ06**
12.3	9.9	7/8" -14 UNF	3/4" -16 UNF	27.7	52.9	27	24	**GAJ10AJ08**
12.3	12.3	7/8" -14 UNF	7/8" -14 UNF	27.2	54.6	27	27	**GAJ10**
15.5	15.5	1.1/16" -12 UN	1.1/16" -12 UN	28.2	58.0	32	32	**GAJ12**
21.5	15.5	1.5/16" -12 UN	1.1/16" -12 UN	32.0	63.7	41	32	**GAJ16AJ12**
21.5	21.5	1.5/16" -12 UN	1.5/16" -12 UN	30.2	63.8	41	41	**GAJ16**
27.5	27.5	1.5/8" -12 UN	1.5/8" -12 UN	34.0	66.6	50	50	**GAJ20**
33.5	33.5	1.7/8" -12 UN	1.7/8" -12 UN	37.6	76.4	60	60	**GAJ24**

Product variants:

Union connector, ISO 8434-2, DKJ 37°, straight, stainless steel, G AJ VA	**...GAJVA**

Swivel connector, ISO 8434-2, DKJ 37°, T shape, steel

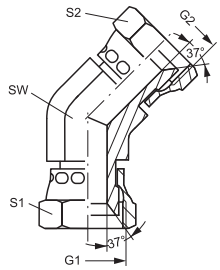


Connection 1 - 3: UN/UNF nut threads
Construction type: connection socket
Type: T shape
Sealing form 1 - 3: 37° internal cone

www ...TAJ

S1 - S3	G1 - G3	SW	Item no.
mm		mm	
14	7/16" -20 UNF	11	**TAJ04**
17	1/2" -20 UNF	13	**TAJ05**
18	9/16" -18 UNF	14	**TAJ06**
22	3/4" -16 UNF	19	**TAJ08**
25	7/8" -14 UNF	19	**TAJ10**
32	1.1/16" -12 UN	27	**TAJ12**
41	1.5/16" -12 UN	30	**TAJ16**
50	1.5/8" -12 UN	41	**TAJ20**

Swivel connector, ISO 8434-2, DKJ 37°, elbow 45°, steel

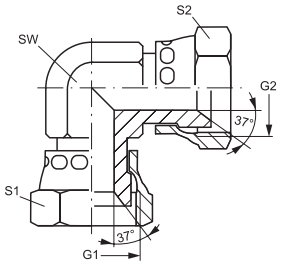


Connection 1: UN/UNF nut threads
Connection 2: UN/UNF nut threads
Construction type: connection socket
Type: angle 45°
Sealing form 1: 37° internal cone
Sealing form 2: 37° internal cone

www ...W45AJ

G1 + G2	S1	S2	Item no.
7/16" -20 UNF	17	17	**W45AJ04**
1/2" -20 UNF	17	17	**W45AJ05**
9/16" -18 UNF	19	19	**W45AJ06**
3/4" -16 UNF	24	24	**W45AJ08**
7/8" -14 UNF	27	27	**W45AJ10**
1.1/16" -12 UN	32	32	**W45AJ12**
1.5/16" -12 UN	41	41	**W45AJ16**

Swivel connector, ISO 8434-2, DKJ 37°, elbow 90°, steel



Connection 1: UN/UNF nut threads
Connection 2: UN/UNF nut threads
Construction type: connection socket
Type: angle 90°
Sealing form 1: 37° internal cone
Sealing form 2: 37° internal cone

www ...W90AJ

S1 + S2	G1 + G2	SW	Item no.
mm		mm	
17	7/16" -20 UNF	12	**W90AJ04**
17	1/2" -20 UNF	13	**W90AJ05**
19	9/16" -18 UNF	14	**W90AJ06**
24	3/4" -16 UNF	19	**W90AJ08**
27	7/8" -14 UNF	24	**W90AJ10**
32	1.1/16" -12 UN	24	**W90AJ12**
41	1.5/16" -12 UN	33	**W90AJ16**



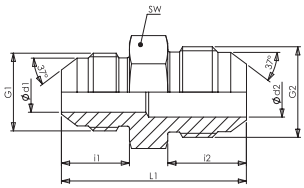




Connecting socket, ISO 8434-2, AGJ 37°, steel

Surface: electro galvanised
Material: steel

2



Union connector, ISO 8434-2, AGJ 37°, straight, steel

Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Construction type: connection socket
Type: straight
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone

www ...GHJ

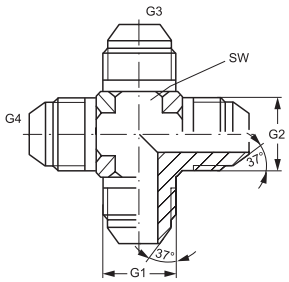
G1	G2	i1	i2	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	mm	
3/8" -24 UNF	3/8" -24 UNF	14	14	35	12	4	4	**GHJ03**
3/8" -24 UNF	7/16" -20 UNF	14	14	35	12	4	4	**GHJ03HJ04**
7/16" -20 UNF	7/16" -20 UNF	14	14	35	12	4.4	4.4	**GHJ04**
7/16" -20 UNF	1/2" -20 UNF	14	14	35	14	4.4	4.4	**GHJ04HJ05**
7/16" -20 UNF	9/16" -18 UNF	14	14	35	17	4.4	7.5	**GHJ04HJ06**
7/16" -20 UNF	3/4" -16 UNF	14	16.7	38.3	19	4.4	9.9	**GHJ04HJ08**
7/16" -20 UNF	7/8" -14 UNF	14	19.3	42.7	24	4.4	12.3	**GHJ04HJ10**
1/2" -20 UNF	1/2" -20 UNF	14	14	35	14	6	6	**GHJ05**
1/2" -20 UNF	9/16" -18 UNF	14	14.1	35.9	17	6	7.5	**GHJ05HJ06**
1/2" -20 UNF	3/4" -16 UNF	14	16.7	38.3	19	6	9.9	**GHJ05HJ08**
1/2" -20 UNF	7/8" -14 UNF	14	19.3	42.7	24	6	12.3	**GHJ05HJ10**
9/16" -18 UNF	9/16" -18 UNF	14.1	14.1	36	17	7.5	7.5	**GHJ06**
9/16" -18 UNF	3/4" -16 UNF	14.1	16.7	38.4	19	7.5	9.9	**GHJ06HJ08**
9/16" -18 UNF	7/8" -14 UNF	14.1	19.3	42.8	24	7.5	12.3	**GHJ06HJ10**
9/16" -18 UNF	1.1/16" -12 UN	14.1	21.9	47.2	27	7.5	15.5	**GHJ06HJ12**
3/4" -16 UNF	3/4" -16 UNF	16.7	16.7	41	19	9.9	9.9	**GHJ08**
3/4" -16 UNF	7/8" -14 UNF	16.7	19.3	45.4	24	9.9	12.3	**GHJ08HJ10**
3/4" -16 UNF	1.1/16" -12 UN	16.7	21.9	49.8	27	9.9	15.5	**GHJ08HJ12**
3/4" -16 UNF	1.5/16" -12 UN	16.7	23.1	50.6	36	9.9	21.5	**GHJ08HJ16**
7/8" -14 UNF	7/8" -14 UNF	19.3	19.3	48	24	12.3	12.3	**GHJ10**
7/8" -14 UNF	1.1/16" -12 UN	19.3	21.9	52.4	27	12.3	15.5	**GHJ10HJ12**
7/8" -14 UNF	1.5/16" -12 UN	19.3	23.1	53.2	36	12.3	21.5	**GHJ10HJ16**
1.1/16" -12 UN	1.1/16" -12 UN	21.9	21.9	55	27	15.5	15.5	**GHJ12**
1.1/16" -12 UN	1.3/16" -12 UN	21.9	22.7	55.2	32	21.9	22.7	**GHJ12HJ14**
1.1/16" -12 UN	1.5/16" -12 UN	21.9	23.1	55.8	36	15.5	21.5	**GHJ12HJ16**
1.1/16" -12 UN	1.5/8" -12 UN	21.9	24.3	59.1	46	15.5	27.5	**GHJ12HJ20**
1.3/16" -12 UN	1.3/16" -12 UN	22.7	22.7	56	32	18	18	**GHJ14**
1.3/16" -12 UN	1.5/16" -12 UN	22.7	23.1	56.6	36	18	21.5	**GHJ14HJ16**
1.5/16" -12 UN	1.5/16" -12 UN	23.1	23.1	57	36	21.5	21.5	**GHJ16**
1.5/16" -12 UN	1.5/8" -12 UN	23.1	24.3	60.3	46	21.5	27.5	**GHJ16HJ20**
1.5/16" -12 UN	1.7/8" -12 UN	23.1	27.5	65.6	50	21.5	33	**GHJ16HJ24**
1.5/8" -12 UN	1.5/8" -12 UN	24.3	24.3	61.5	46	27.5	27.5	**GHJ20**

G1	G2	i1	i2	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	mm	
1.5/8" -12 UN	1.7/8" -12 UN	24.3	27.5	66.8	50	27.5	33	**GHJ20HJ24**
1.7/8" -12 UN	1.7/8" -12 UN	27.5	27.5	70	50	33	33	**GHJ24**
2.1/2" -12 UN	2.1/2" -12 UN	33.9	33.9	86.5	65	45	45	**GHJ32**

Product variants:

Union connector, ISO 8434-2, AGJ 37°, straight, stainless steel, G HJ VA	**...GHJVA**

Union connector, ISO 8434-2, AGJ 37°, cross shape, steel



Sealing form 1 - 4: 37° external cone
Connection 1 - 4: UN/UNF external threads
Construction type: fitting socket
Type: cross shape
Standard: ISO 8434-2

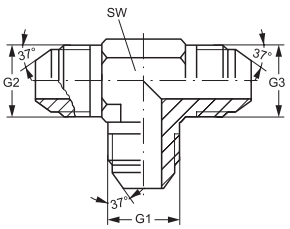
www ...KHJ

G1 - G4	SW	Item no.
	mm	
7/16" -20 UNF	11	**KHJ04**
1/2" -20 UNF	14	**KHJ05**
9/16" -18 UNF	14	**KHJ06**
3/4" -16 UNF	19	**KHJ08**
7/8" -14 UNF	22	**KHJ10**
1.1/16" -12 UN	27	**KHJ12**
1.5/16" -12 UN	33	**KHJ16**
1.5/8" -12 UN	41	**KHJ20**
1.7/8" -12 UN	48	**KHJ24**

Product variants:

Union connector, ISO 8434-2, AGJ 37°, cross-shaped, stainless steel, K HJ VA	**...KHJVA**

Union connector, ISO 8434-2, AGJ 37°, T shape, steel



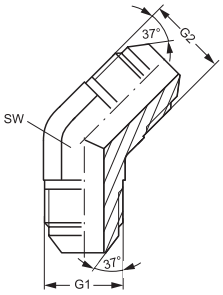
Connection 1 - 3: UN/UNF external threads
Construction type: connection socket
Type: T shape
Sealing form 1 - 3: 37° external cone
Standard: ISO 8434-2

www ...THJ

G1 - G3	SW	Item no.
	mm	
7/16" -20 UNF	11	**THJ04**
1/2" -20 UNF	13	**THJ05**
9/16" -18 UNF	14	**THJ06**
3/4" -16 UNF	19	**THJ08**
7/8" -14 UNF	22	**THJ10**
1.1/16" -12 UN	27	**THJ12**
1.3/16" -12 UN	33	**THJ14**
1.5/16" -12 UN	33	**THJ16**
1.5/8" -12 UN	41	**THJ20**
1.7/8" -12 UN	48	**THJ24**
2.1/2" -12 UN	66	**THJ32**

Product variants:

Union connector, ISO 8434-2, AGJ 37°, T-shaped, stainless steel, T HJ VA	**...THJVA**

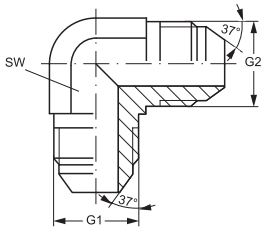


Union connector, ISO 8434-2, AGJ 37°, elbow 45°, steel

Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Construction type: fitting socket
Type: angle 45°
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone
Standard: ISO 8434-2

www ...W45HJ

G1 + G2	SW	Item no.
	mm	
7/16" -20 UNF	11	**W45HJ04**
1/2" -20 UNF	13	**W45HJ05**
9/16" -18 UNF	14	**W45HJ06**
3/4" -16 UNF	19	**W45HJ08**
7/8" -14 UNF	22	**W45HJ10**
1.1/16" -12 UN	27	**W45HJ12**
1.5/16" -12 UN	33	**W45HJ16**



Union connector, ISO 8434-2, AGJ 37°, elbow 90°, steel

Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Construction type: fitting socket
Type: angle 90°
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone
Standard: ISO 8434-2

www ...W90HJ

G1 + G2	SW	Item no.
	mm	
7/16" -20 UNF	11	**W90HJ04**
1/2" -20 UNF	13	**W90HJ05**
9/16" -18 UNF	14	**W90HJ06**
3/4" -16 UNF	19	**W90HJ08**
7/8" -14 UNF	22	**W90HJ10**
1.1/16" -12 UN	27	**W90HJ12**
1.3/16" -12 UN	30	**W90HJ14**
1.5/16" -12 UN	33	**W90HJ16**
1.5/8" -12 UN	41	**W90HJ20**
1.7/8" -12 UN	48	**W90HJ24**
2.1/2" -12 UN	64	**W90HJ32**

Product variants:

Union connector, ISO 8434-2, AGJ 37°, elbow 90°, stainless steel, W90 HJ VA	**...W90HJVA**

Connecting socket, ISO 8434-2, DKJ 37°, AGJ 37°, steel

Connection 1: UN/UNF nut threads
Sealing form 1: 37° internal cone
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

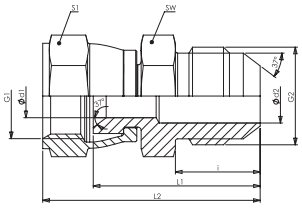






Union connector, ISO 8434-2, DKJ 37°, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Construction type: connectors
Type: straight
Sealing form 2: 37° external cone



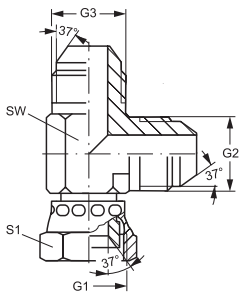
www ...GAJHJ

G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
7/16" -20 UNF	7/16" -20 UNF	14	28.5	38	17	12	4	4	GAJ04HJ
7/16" -20 UNF	9/16" -18 UNF	14.1	30	39.5	17	17	4	7	GAJ04HJ06
1/2" -20 UNF	7/16" -20 UNF	14	28.5	38	17	14	4.4	4.4	GAJ05HJ04
1/2" -20 UNF	1/2" -20 UNF	14	29.5	39	17	14	4.4	6	GAJ05HJ
9/16" -18 UNF	7/16" -20 UNF	14	30.5	40.5	17	17	6	4.4	GAJ06HJ04
9/16" -18 UNF	1/2" -20 UNF	14	30.5	40.5	19	17	6	6	GAJ06HJ05
9/16" -18 UNF	9/16" -18 UNF	14.1	30.5	40.5	19	17	6	7.5	GAJ06HJ
9/16" -18 UNF	3/4" -16 UNF	16.7	34	44	19	22	6	9.9	GAJ06HJ08
3/4" -16 UNF	7/16" -20 UNF	14	32.5	44	22	19	9.9	4.4	GAJ08HJ04
3/4" -16 UNF	1/2" -20 UNF	14	32.5	44	22	22	9.9	6	GAJ08HJ05
3/4" -16 UNF	9/16" -18 UNF	14.1	33	44.5	22	19	9.9	7.5	GAJ08HJ06
3/4" -16 UNF	3/4" -16 UNF	16.7	33.5	47	24	22	9.9	9.9	GAJ08HJ
3/4" -16 UNF	7/8" -14 UNF	19.3	38	49.5	24	24	9.9	12.3	GAJ08HJ10
3/4" -16 UNF	1.1/16" -12 UN	21.9	41.5	53	24	24	9.9	15.5	GAJ08HJ12
7/8" -14 UNF	7/16" -20 UNF	14	33.5	47.2	27	19	12.3	4.4	GAJ10HJ04
7/8" -14 UNF	1/2" -20 UNF	14	33.5	47.2	27	19	12.3	6	GAJ10HJ05
7/8" -14 UNF	9/16" -18 UNF	14.1	34	47.7	27	24	12.3	7.5	GAJ10HJ06
7/8" -14 UNF	3/4" -16 UNF	16.7	36	49.7	27	22	12.3	9.9	GAJ10HJ08
7/8" -14 UNF	7/8" -14 UNF	19.3	39	52.7	27	24	12.3	12.3	GAJ10HJ
7/8" -14 UNF	1.1/16" -12 UN	21.9	42.5	56.2	27	28	12.3	15.5	GAJ10HJ12
1.1/16" -12 UN	7/16" -20 UNF	14	36.5	51.4	32	24	15.5	4.4	GAJ12HJ04
1.1/16" -12 UN	1/2" -20 UNF	14	36.5	51.4	32	24	15.5	6	GAJ12HJ05
1.1/16" -12 UN	9/16" -18 UNF	14.1	36.5	51.4	32	27	15.5	7.5	GAJ12HJ06
1.1/16" -12 UN	3/4" -16 UNF	16.7	39.5	54.4	32	29	15.5	9.9	GAJ12HJ08
1.1/16" -12 UN	7/8" -14 UNF	19.3	42	56.9	32	27	15.5	12.3	GAJ12HJ10
1.1/16" -12 UN	1.1/16" -12 UN	21.9	44.5	59.4	32	32	15.5	15.5	GAJ12HJ
1.1/16" -12 UN	1.5/16" -12 UN	23.1	47	61.9	32	27	15.5	21.1	GAJ12HJ16
1.3/16" -12 UN	1.1/16" -12 UN	21.9	44.5	61	35	32	18	15.5	GAJ14HJ12
1.5/16" -12 UN	3/4" -16 UNF	16.7	39	55.8	41	36	21.5	9.9	GAJ16HJ08
1.5/16" -12 UN	7/8" -14 UNF	19.3	42	58.8	41	36	21.5	12.3	GAJ16HJ10
1.5/16" -12 UN	1.1/16" -12 UN	21.9	44.5	61.3	41	36	21.5	15.5	GAJ16HJ12
1.5/16" -12 UN	1.3/16" -12 UN	22.7	45.5	62.3	41	36	21.5	18	GAJ16HJ14
1.5/16" -12 UN	1.5/16" -12 UN	23.1	47	63.8	41	36	21.5	21.5	GAJ16HJ
1.5/8" -12 UN	7/8" -14 UNF	19.3	45	61.3	50	46	27.5	12.3	GAJ20HJ10

G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
1.5/8" -12 UN	1.1/16" -12 UN	21.9	47.5	63.8	41	41	27.5	15.5	**GAJ20HJ12**
1.5/8" -12 UN	1.3/16" -12 UN	22.7	48.5	64.8	50	46	27.5	18	**GAJ20HJ14**
1.5/8" -12 UN	1.5/16" -12 UN	23.1	49	65.3	50	46	27.5	21.5	**GAJ20HJ16**
1.5/8" -12 UN	1.5/8" -12 UN	24.3	52	68.3	50	46	27.5	27.5	**GAJ20HJ**
1.7/8" -12 UN	1.5/8" -12 UN	24.3	52.5	71.9	55	50	33.5	27.5	**GAJ24HJ20**
1.7/8" -12 UN	1.7/8" -12 UN	27.5	55.5	74.9	55	50	33.5	33.5	**GAJ24HJ**
2.1/2" -12 UN	1.7/8" -12 UN	27.5	65.5	89	75	65	45	33.5	**GAJ32HJ24**

Product variants:

Union connector, ISO 8434-2, DKJ 37°, AGJ 37°, straight, stainless steel, G AJ HJ VA **...GAJHJVA**



Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, L shape, steel

Connection 2 + 3: UN/UNF external threads
Construction type: screw-on socket, adjustable
Type: L shape
Sealing form 2 + 3: 37° external cone

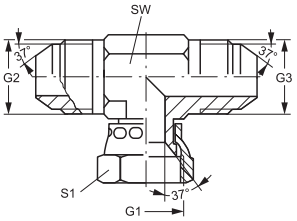
www ...LAJHJ

G1	G2 + G3	S1	SW	Item no.
			mm	
7/16" -20 UNF	7/16" -20 UNF	14	12	**LAJ04HJ**
1/2" -20 UNF	1/2" -20 UNF	17	13	**LAJ05HJ**
9/16" -18 UNF	9/16" -18 UNF	19	14	**LAJ06HJ**
3/4" -16 UNF	3/4" -16 UNF	22	19	**LAJ08HJ**
7/8" -14 UNF	7/8" -14 UNF	17	22	**LAJ10HJ**
1.1/16" -12 UN	1.1/16" -12 UN	32	27	**LAJ12HJ**
1.3/16" -12 UN	1.3/16" -12 UN	36	33	**LAJ14HJ**
1.5/16" -12 UN	1.5/16" -12 UN	41	33	**LAJ16HJ**
1.5/8" -12 UN	1.5/8" -12 UN	50	41	**LAJ20HJ**
1.7/8" -12 UN	1.7/8" -12 UN	60	48	**LAJ24HJ**

Product variants:

Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, L-shaped, stainless steel, L AJ HJ VA **...LAJHJVA**

Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, T shape, steel



Connection 2 + 3: UN/UNF external threads
Construction type: screw-on socket, adjustable
Type: T shape
Sealing form 2 + 3: 37° external cone

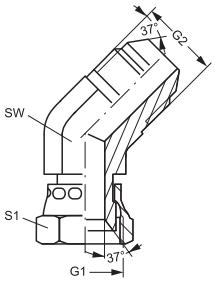
www ...TAJHJ

G1	G2 + G3	S1	SW	Item no.
			mm	
7/16" -20 UNF	7/16" -20 UNF	16	11	**TAJ04HJ**
1/2" -20 UNF	1/2" -20 UNF	17	13	**TAJ05HJ**
9/16" -18 UNF	9/16" -18 UNF	19	14	**TAJ06HJ**
3/4" -16 UNF	3/4" -16 UNF	22	19	**TAJ08HJ**
7/8" -14 UNF	7/8" -14 UNF	27	22	**TAJ10HJ**
1.1/16" -12 UN	1.1/16" -12 UN	32	27	**TAJ12HJ**
1.5/16" -12 UN	1.5/16" -12 UN	38	33	**TAJ16HJ**
1.5/8" -12 UN	1.5/8" -12 UN	50	41	**TAJ20HJ**
1.7/8" -12 UN	1.7/8" -12 UN	55	48	**TAJ24HJ**

Product variants:

Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, T-shaped, stainless steel, T AJ HJ VA	**...TAJHJVA**

Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 45°, steel



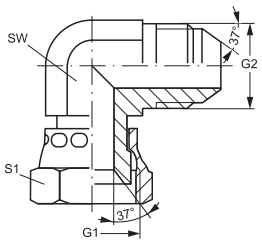
Connection 2: UN/UNF external threads
Construction type: screw-on socket
Type: angle 45°
Sealing form 2: 37° external cone

www ...W45AJHJ

Working pressure	G1	G2	S1	SW	Item no.
				mm	
PN 350	7/16" -20 UNF	7/16" -20 UNF	14	12	**W45AJ04HJ**
PN 350	1/2" -20 UNF	1/2" -20 UNF	16	14	**W45AJ05HJ**
PN 250	9/16" -18 UNF	9/16" -18 UNF	19	14	**W45AJ06HJ**
PN 250	3/4" -16 UNF	3/4" -16 UNF	22	19	**W45AJ08HJ**
PN 200	7/8" -14 UNF	7/8" -14 UNF	27	22	**W45AJ10HJ**
PN 200	1.1/16" -12 UN	1.1/16" -12 UN	32	27	**W45AJ12HJ**
PN 160	1.3/16" -12 UN	1.3/16" -12 UN	36	32	**W45AJ14HJ**
PN 160	1.5/16" -12 UN	1.5/16" -12 UN	41	33	**W45AJ16HJ**
PN 125	1.5/8" -12 UN	1.5/8" -12 UN	50	41	**W45AJ20HJ**
PN 100	1.7/8" -12 UN	1.7/8" -12 UN	60	48	**W45AJ24HJ**
PN 80	2.1/2" -12 UN	2.1/2" -12 UN	75	65	**W45AJ32HJ**

Product variants:

Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 45°, stainless steel, W45 AJ HJ VA	**...W45AJHJVA**



Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 90°, steel

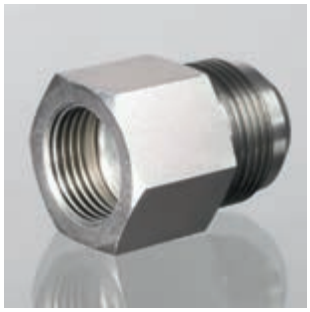
Connection 2: UN/UNF external threads
Construction type: screw-on socket
Type: angle 90°
Sealing form 2: 37° external cone

www ...W90AJHJ

G1 + G2	S1	SW	Item no.
		mm	
7/16" -20 UNF	14	12	W90AJ04HJ
1/2" -20 UNF	17	13	W90AJ05HJ
9/16" -18 UNF	19	14	W90AJ06HJ
3/4" -16 UNF	22	19	W90AJ08HJ
7/8" -14 UNF	27	22	W90AJ10HJ
1.1/16" -12 UN	32	27	W90AJ12HJ
1.3/16" -12 UN	36	33	W90AJ14HJ
1.5/16" -12 UN	41	33	W90AJ16HJ
1.5/8" -12 UN	50	41	W90AJ20HJ
1.7/8" -12 UN	60	48	W90AJ24HJ
2.1/2" -12 UN	75	65	W90AJ32HJ

Product variants:

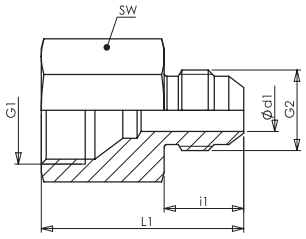
Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 90°, stainless steel, W90 AJ HJ VA	**...W90AJHJVA**



Union connector, ISO 8434-2, IGJ 37°, AGJ 37°, straight, steel

Connection 1: UN/UNF inner thread
Connection 2: UN/UNF external threads
Construction type: connectors
Type: straight
Sealing form 1: 37° internal cone
Sealing form 2: 37° external cone
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GIJHJ

d1	G1	G2	i1	L1	SW	Item no.
mm			mm	mm	mm	
4.4	7/16" -20 UNF	9/16" -18 UNF	14.1	31.7	17	GIJ04HJ06
4.4	7/16" -20 UNF	3/4" -16 UNF	16.7	35.2	22	GIJ04HJ08
4.4	7/16" -20 UNF	7/8" -14 UNF	19.3	38.2	24	GIJ04HJ10
4.4	1/2" -20 UNF	7/16" -20 UNF	14	33.1	17	GIJ05HJ04
6	1/2" -20 UNF	9/16" -18 UNF	14.1	33.1	17	GIJ05HJ06
6	1/2" -20 UNF	3/4" -16 UNF	16.7	36.1	22	GIJ05HJ08
4.4	9/16" -18 UNF	7/16" -20 UNF	14	33	19	GIJ06HJ04
6	9/16" -18 UNF	1/2" -20 UNF	14	33	19	GIJ06HJ05
7.5	9/16" -18 UNF	3/4" -16 UNF	16.7	36.5	22	GIJ06HJ08
4.4	3/4" -16 UNF	7/16" -20 UNF	14	35.9	22	GIJ08HJ04
7.5	3/4" -16 UNF	9/16" -18 UNF	14.1	35.9	22	GIJ08HJ06
9.9	3/4" -16 UNF	7/8" -14 UNF	19.3	40.4	24	GIJ08HJ10
9.9	3/4" -16 UNF	1.1/16" -12 UN	21.9	43.9	30	GIJ08HJ12
4.4	7/8" -14 UNF	7/16" -20 UNF	14	39.7	27	GIJ10HJ04
7.5	7/8" -14 UNF	9/16" -18 UNF	14.1	39.7	27	GIJ10HJ06
9.9	7/8" -14 UNF	3/4" -16 UNF	16.7	42.7	27	GIJ10HJ08
4.4	1.1/16" -12 UN	7/16" -20 UNF	14	42.4	32	GIJ12HJ04

d1	G1	G2	i1	L1	SW	Item no.
mm			mm	mm	mm	
9.9	1.1/16" -12 UN	3/4" -16 UNF	16.7	45.4	32	**GIJ12HJ08**
12.3	1.1/16" -12 UN	7/8" -14 UNF	19.3	45.9	32	**GIJ12HJ10**
9.9	1.5/16" -12 UN	3/4" -16 UNF	16.7	47.8	41	**GIJ16HJ08**
12.3	1.5/16" -12 UN	7/8" -14 UNF	19.3	50.8	41	**GIJ16HJ10**
15.5	1.5/16" -12 UN	1.1/16" -12 UN	21.9	54.3	41	**GIJ16HJ12**
15.5	1.5/8" -12 UN	1.1/16" -12 UN	21.9	55.3	50	**GIJ20HJ12**
21.5	1.5/8" -12 UN	1.5/16" -12 UN	23.1	56.3	50	**GIJ20HJ16**
27.5	1.7/8" -12 UN	1.5/8" -12 UN	24.3	62.4	60	**GIJ24HJ20**
33.5	2.1/2" -12 UN	1.7/8" -12 UN	27.5	75	75	**GIJ32HJ24**

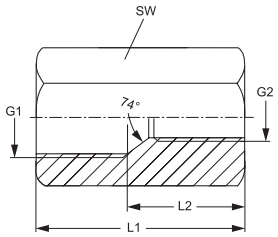
Union connector, ISO 8434-2, DKJ 37°, IGR, steel



Connection 1: UN/UNF inner thread
Connection 2: BSPP female thread, cylindric
Construction type: tube nut
Type: straight
Sealing form 1: 37° internal cone
Sealing form 2: flat seal
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...UEMAJIR



G1	G2	SW	Item no.
		mm	
7/16" -20 UNF	G 1/4" -19	19	**UEMAJ04IR**
1/2" -20 UNF	G 1/4" -19	19	**UEMAJ05IR04**
9/16" -18 UNF	G 1/4" -19	19	**UEMAJ06IR04**
9/16" -18 UNF	G 3/8" -19	19	**UEMAJ06IR**
3/4" -16 UNF	G 1/4" -19	22	**UEMAJ08IR04**
3/4" -16 UNF	G 1/2" -14	22	**UEMAJ08IR**
7/8" -14 UNF	G 1/4" -19	27	**UEMAJ10IR04**
7/8" -14 UNF	G 1/2" -14	27	**UEMAJ10IR08**
1.1/16" -12 UN	G 1/4" -19	32	**UEMAJ12IR04**
1.1/16" -12 UN	G 3/4" -14	32	**UEMAJ12IR**
1.3/16" -12 UN	G 1/4" -19	36	**UEMAJ14IR04**
1.5/16" -12 UN	G 1/4" -19	41	**UEMAJ16IR04**
1.5/16" -12 UN	G 1" -11	41	**UEMAJ16IR**
1.5/8" -12 UN	G 1/4" -19	50	**UEMAJ20IR04**
1.7/8" -12 UN	G 1/4" -19	60	**UEMAJ24IR04**





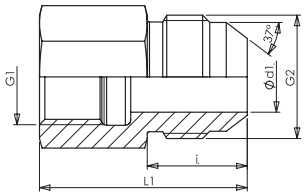


Connecting socket, ISO 8434-2, IGR, AGJ 37°, steel

Connection 1: BSPP female thread, cylindric
Construction type: connection socket
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Union connector, ISO 8434-2, IGR, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Type: straight
Sealing form 1: flat seal
Sealing form 2: 37° external cone

www ...GIRHJ

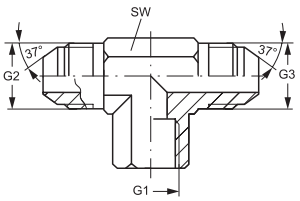
G1	G2	i	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
G 1/8" -28	7/16" -20 UNF	14	29.5	14	4.4	**GIR02HJ04**
G 1/8" -28	1/2" -20 UNF	14	29	14	6	**GIR02HJ05**
G 1/4" -19	7/16" -20 UNF	14	34.5	19	4.4	**GIR04HJ**
G 1/4" -19	1/2" -20 UNF	14	34	19	6	**GIR04HJ05**
G 1/4" -19	9/16" -18 UNF	14.1	33.5	19	7.5	**GIR04HJ06**
G 1/4" -19	3/4" -16 UNF	16.7	37	22	9.9	**GIR04HJ08**
G 3/8" -19	9/16" -18 UNF	14.1	35.5	22	7.5	**GIR06HJ**
G 3/8" -19	3/4" -16 UNF	16.7	37	22	9.9	**GIR06HJ08**
G 1/2" -14	9/16" -18 UNF	14.1	39.5	27	7.5	**GIR08HJ06**
G 1/2" -14	3/4" -16 UNF	16.7	42	27	9.9	**GIR08HJ**
G 1/2" -14	7/8" -14 UNF	19.3	44	27	12.3	**GIR08HJ10**
G 1/2" -14	1.1/16" -12 UN	21.9	45.5	27	15.5	**GIR08HJ12**
G 3/4" -14	3/4" -16 UNF	16.7	46	32	9.9	**GIR12HJ08**
G 3/4" -14	1.1/16" -12 UN	21.9	49	32	15.5	**GIR12HJ**
G 3/4" -14	1.3/16" -12 UN	22.7	50	32	18	**GIR12HJ14**
G 1" -11	1.5/16" -12 UN	23.1	57	41	21.5	**GIR16HJ**
G 1" -11	1.5/8" -12 UN	24.3	56	41	27.5	**GIR16HJ20**
G 1.1/4" -11	1.5/8" -12 UN	24.3	59.5	50	27.5	**GIR20HJ**
G 1.1/4" -11	1.7/8" -12 UN	27.5	62.5	50	33	**GIR20HJ24**
G 1.1/2" -11	1.7/8" -12 UN	27.5	65.5	55	33	**GIR24HJ**
G 2" -11	2.1/2" -12 UN	33.9	72	70	45	**GIR32HJ**

Product variants:

Union connector, straight, IGR, AGJ, stainless steel, G IR HJ VA	**...GIRHJVA**

Union connector, ISO 8434-2, IGR, AGJ 37°, T shape, steel

Connection 2 + 3: UN/UNF external threads
Type: T shape
Sealing form 1: type A
Sealing form 2 + 3: 37° external cone

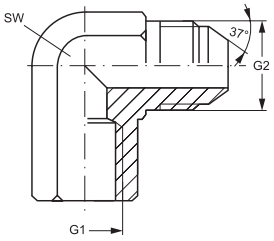


www ...TIRHJ

G1	G2 + G3	SW	Item no.
		mm	
G 1/8" -28	1/2" -20 UNF	14	**TIR02HJ05**
G 1/4" -19	9/16" -18 UNF	19	**TIR04HJ**
G 1/4" -19	1/2" -20 UNF	19	**TIR04HJ05**
G 1/4" -19	9/16" -18 UNF	19	**TIR04HJ06**
G 1/4" -19	3/4" -16 UNF	22	**TIR04HJ08**
G 3/8" -19	7/16" -20 UNF	22	**TIR06HJ04**
G 3/8" -19	9/16" -18 UNF	22	**TIR06HJ**
G 3/8" -19	3/4" -16 UNF	22	**TIR06HJ08**
G 1/2" -14	3/4" -16 UNF	27	**TIR08HJ**
G 1/2" -14	7/8" -14 UNF	27	**TIR08HJ10**
G 1/2" -14	1.1/16" -12 UN	33	**TIR08HJ12**
G 3/4" -14	1.1/16" -12 UN	33	**TIR12HJ**
G 1" -11	1.5/16" -12 UN	41	**TIR16HJ**

Union connector, ISO 8434-2, IGR, AGJ 37°, elbow 90°, steel

Connection 2: UN/UNF external threads
Type: angle 90°
Sealing form 1: flat seal
Sealing form 2: 37° external cone



www ...W90IRHJ

G1	G2	SW	Item no.
		mm	
G 1/8" -28	7/16" -20 UNF	14	**W90IR02HJ04**
G 1/8" -28	1/2" -20 UNF	14	**W90IR02HJ05**
G 1/4" -19	7/16" -20 UNF	19	**W90IR04HJ**
G 1/4" -19	1/2" -20 UNF	19	**W90IR04HJ05**
G 1/4" -19	9/16" -18 UNF	19	**W90IR04HJ06**
G 1/4" -19	3/4" -16 UNF	19	**W90IR04HJ08**
G 3/8" -19	9/16" -18 UNF	22	**W90IR06HJ**
G 3/8" -19	3/4" -16 UNF	22	**W90IR06HJ08**
G 1/2" -14	3/4" -16 UNF	27	**W90IR08HJ**
G 1/2" -14	7/8" -14 UNF	27	**W90IR08HJ10**
G 1/2" -14	1.1/16" -12 UN	27	**W90IR08HJ12**
G 3/4" -14	1.1/16" -12 UN	33	**W90IR12HJ**
G 1" -11	1.5/16" -12 UN	41	**W90IR16HJ**
G 1" -11	1.5/8" -12 UN	48	**W90IR16HJ20**
G 1.1/4" -11	1.5/8" -12 UN	48	**W90IR20HJ**





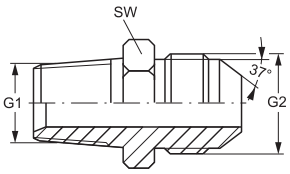


Screw-in socket, ISO 8434-2, AGN, SAE J 514, AGJ 37°, steel

Connection 1: NPT external threads
Construction type: screw-in socket
Sealing form 1: thread seal
Standard connection 1: SAE J 514
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Type: straight
Sealing form 2: 37° external cone

www ...GEHNHJ

G1	G2	SW	Item no.
		mm	
1/8" -27 NPT	3/8" -24 UNF	12	GEHN02HJ03
1/8" -27 NPT	7/16" -20 UNF	12	GEHN02HJ04
1/8" -27 NPT	1/2" -20 UNF	14	GEHN02HJ05
1/8" -27 NPT	9/16" -18 UNF	17	GEHN02HJ06
1/8" -27 NPT	3/4" -16 UNF	19	GEHN02HJ08
1/4" -18 NPT	7/16" -20 UNF	14	GEHN04HJ
1/4" -18 NPT	1/2" -20 UNF	14	GEHN04HJ05
1/4" -18 NPT	9/16" -18 UNF	17	GEHN04HJ06
1/4" -18 NPT	3/4" -16 UNF	19	GEHN04HJ08
3/8" -18 NPT	7/16" -20 UNF	19	GEHN06HJ04
3/8" -18 NPT	1/2" -20 UNF	19	GEHN06HJ05
3/8" -18 NPT	9/16" -18 UNF	19	GEHN06HJ
3/8" -18 NPT	3/4" -16 UNF	19	GEHN06HJ08
3/8" -18 NPT	7/8" -14 UNF	24	GEHN06HJ10
3/8" -18 NPT	1.1/16" -12 UN	27	GEHN06HJ12
1/2" -14 NPT	7/16" -20 UNF	24	GEHN08HJ04
1/2" -14 NPT	1/2" -20 UNF	24	GEHN08HJ05
1/2" -14 NPT	9/16" -18 UNF	24	GEHN08HJ06
1/2" -14 NPT	3/4" -16 UNF	24	GEHN08HJ
1/2" -14 NPT	7/8" -14 UNF	24	GEHN08HJ10
1/2" -14 NPT	1.1/16" -12 UN	27	GEHN08HJ12
1/2" -14 NPT	1.5/16" -12 UN	36	GEHN08HJ16
3/4" -14 NPT	7/16" -20 UNF	27	GEHN12HJ04
3/4" -14 NPT	9/16" -18 UNF	27	GEHN12HJ06
3/4" -14 NPT	3/4" -16 UNF	27	GEHN12HJ08
3/4" -14 NPT	7/8" -14 UNF	27	GEHN12HJ10
3/4" -14 NPT	1.1/16" -12 UN	27	GEHN12HJ
3/4" -14 NPT	1.3/16" -12 UN	32	GEHN12HJ14
3/4" -14 NPT	1.5/16" -12 UN	36	GEHN12HJ16
1" -11.5 NPT	1.1/16" -12 UN	36	GEHN16HJ12
1" -11.5 NPT	1.5/16" -12 UN	36	GEHN16HJ
1" -11.5 NPT	1.5/8" -12 UN	46	GEHN16HJ20
1" -11.5 NPT	1.7/8" -12 UN	50	GEHN16HJ24
1.1/4" -11.5 NPT	1.1/16" -12 UN	46	GEHN20HJ12

G1	G2	SW	Item no.
		mm	
1.1/4" -11.5 NPT	1.5/16" -12 UN	46	**GEHN20HJ16**
1.1/4" -11.5 NPT	1.5/8" -12 UN	46	**GEHN20HJ**
1.1/4" -11.5 NPT	1.7/8" -12 UN	50	**GEHN20HJ24**
1.1/4" -11.5 NPT	2.1/2" -12 UN	65	**GEHN20HJ32**
1.1/2" -11.5 NPT	1.1/16" -12 UN	50	**GEHN24HJ12**
1.1/2" -11.5 NPT	1.5/16" -12 UN	50	**GEHN24HJ16**
1.1/2" -11.5 NPT	1.5/8" -12 UN	50	**GEHN24HJ20**
1.1/2" -11.5 NPT	1.7/8" -12 UN	50	**GEHN24HJ**
1.1/2" -11.5 NPT	2.1/2" -12 UN	65	**GEHN24HJ32**
2" -11.5 NPT	1.7/8" -12 UN	65	**GEHN32HJ24**
2" -11.5 NPT	2.1/2" -12 UN	65	**GEHN32HJ**

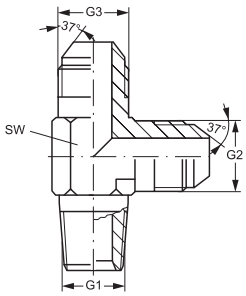
Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, straight, stainless steel, GE HN HJ VA **...GEHNHJVA**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, L shape, steel



Connection 2 + 3: UN/UNF external threads
Type: L shape
Sealing form 2 + 3: 37° external cone

www ...LHNHJ

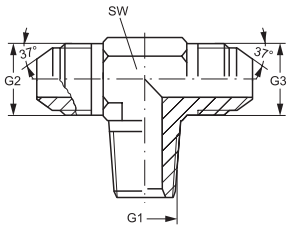
G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	7/16" -20 UNF	11	**LHN02HJ04**
1/8" -27 NPT	1/2" -20 UNF	14	**LHN02HJ05**
1/8" -27 NPT	9/16" -18 UNF	14	**LHN02HJ06**
1/4" -18 NPT	7/16" -20 UNF	14	**LHN04HJ**
1/4" -18 NPT	1/2" -20 UNF	14	**LHN04HJ05**
1/4" -18 NPT	9/16" -18 UNF	14	**LHN04HJ06**
3/8" -18 NPT	9/16" -18 UNF	19	**LHN06HJ**
3/8" -18 NPT	3/4" -16 UNF	19	**LHN06HJ08**
1/2" -14 NPT	3/4" -16 UNF	22	**LHN08HJ**
1/2" -14 NPT	7/8" -14 UNF	22	**LHN08HJ10**
1/2" -14 NPT	1.1/16" -12 UN	27	**LHN08HJ12**
3/4" -14 NPT	7/8" -14 UNF	27	**LHN12HJ10**
3/4" -14 NPT	1.1/16" -12 UN	27	**LHN12HJ**
3/4" -14 NPT	1.3/16" -12 UN	33	**LHN12HJ14**
3/4" -14 NPT	1.5/16" -12 UN	33	**LHN12HJ16**
1" -11.5 NPT	1.5/16" -12 UN	33	**LHN16HJ**
1.1/4" -11.5 NPT	1.5/8" -12 UN	41	**LHN20HJ**

Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, L-shaped, stainless steel, L HN HJ VA **...LHNHJVA**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, T shape, steel

Connection 2 + 3: UN/UNF external threads
Type: T shape
Sealing form 2 + 3: 37° external cone

...THNHJ

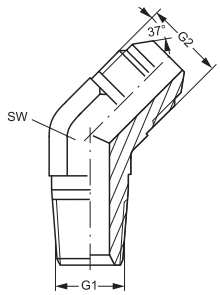
G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	7/16" -20 UNF	11	**THN02HJ04**
1/8" -27 NPT	1/2" -20 UNF	14	**THN02HJ05**
1/8" -27 NPT	9/16" -18 UNF	14	**THN02HJ06**
1/4" -18 NPT	7/16" -20 UNF	14	**THN04HJ**
1/4" -18 NPT	1/2" -20 UNF	14	**THN04HJ05**
1/4" -18 NPT	9/16" -18 UNF	14	**THN04HJ06**
1/4" -18 NPT	3/4" -16 UNF	19	**THN04HJ08**
3/8" -18 NPT	9/16" -18 UNF	19	**THN06HJ**
3/8" -18 NPT	3/4" -16 UNF	19	**THN06HJ08**
3/8" -18 NPT	7/8" -14 UNF	22	**THN06HJ10**
1/2" -14 NPT	9/16" -18 UNF	22	**THN08HJ06**
1/2" -14 NPT	3/4" -16 UNF	22	**THN08HJ**
1/2" -14 NPT	7/8" -14 UNF	22	**THN08HJ10**
1/2" -14 NPT	1.1/16" -12 UN	27	**THN08HJ12**
3/4" -14 NPT	1.1/16" -12 UN	27	**THN12HJ**
3/4" -14 NPT	1.5/16" -12 UN	33	**THN12HJ16**
1" -11.5 NPT	1.5/16" -12 UN	33	**THN16HJ**
1.1/4" -11.5 NPT	1.5/8" -12 UN	41	**THN20HJ**
1.1/2" -11.5 NPT	1.7/8" -12 UN	48	**THN24HJ**

Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, T-shaped, stainless steel, T HN HJ VA	**...THNHJVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494



Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 45°, steel

Connection 2: UN/UNF external threads
Type: angle 45°
Sealing form 2: 37° external cone

...W45HNHJ

G1	G2	SW	Item no.
		mm	
1/8" -27 NPT	7/16" -20 UNF	11	**W45HN02HJ04**
1/8" -27 NPT	1/2" -20 UNF	13	**W45HN02HJ05**
1/8" -27 NPT	9/16" -18 UNF	14	**W45HN02HJ06**
1/4" -18 NPT	7/16" -20 UNF	14	**W45HN04HJ**
1/4" -18 NPT	1/2" -20 UNF	14	**W45HN04HJ05**
1/4" -18 NPT	9/16" -18 UNF	14	**W45HN04HJ06**
1/4" -18 NPT	3/4" -16 UNF	19	**W45HN04HJ08**
3/8" -18 NPT	9/16" -18 UNF	19	**W45HN06HJ**
3/8" -18 NPT	3/4" -16 UNF	19	**W45HN06HJ08**
3/8" -18 NPT	7/8" -14 UNF	22	**W45HN06HJ10**
1/2" -14 NPT	9/16" -18 UNF	22	**W45HN08HJ06**
1/2" -14 NPT	3/4" -16 UNF	22	**W45HN08HJ**
1/2" -14 NPT	7/8" -14 UNF	22	**W45HN08HJ10**
1/2" -14 NPT	1.1/16" -12 UN	27	**W45HN08HJ12**

G1	G2	SW	Item no.
		mm	
3/4" -14 NPT	3/4" -16 UNF	27	**W45HN12HJ08**
3/4" -14 NPT	7/8" -14 UNF	27	**W45HN12HJ10**
3/4" -14 NPT	1.1/16" -12 UN	27	**W45HN12HJ**
3/4" -14 NPT	1.3/16" -12 UN	33	**W45HN12HJ14**
3/4" -14 NPT	1.5/16" -12 UN	33	**W45HN12HJ16**
1" -11.5 NPT	1.1/16" -12 UN	33	**W45HN16HJ12**
1" -11.5 NPT	1.5/16" -12 UN	33	**W45HN16HJ**
1" -11.5 NPT	1.5/8" -12 UN	41	**W45HN16HJ20**
1.1/4" -11.5 NPT	1.5/8" -12 UN	41	**W45HN20HJ**
1.1/2" -11.5 NPT	1.7/8" -12 UN	48	**W45HN24HJ**
2" -11.5 NPT	2.1/2" -12 UN	55	**W45HN32HJ**

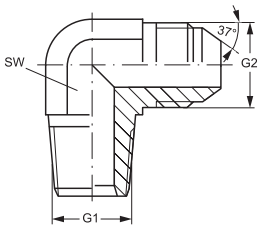
Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 45°, stainless steel, W45**...W45HNHJVA**
HN HJ VA

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 90°, steel



Connection 2: UN/UNF external threads
Type: angle 90°
Sealing form 2: 37° external cone

www ...W90HNHJ

G1	G2	SW	Item no.
		mm	
1/8" -27 NPT	5/16" -24 UN	8	**W90HN02HJ**
1/8" -27 NPT	7/16" -20 UNF	11	**W90HN02HJ04**
1/8" -27 NPT	1/2" -20 UNF	13	**W90HN02HJ05**
1/8" -27 NPT	9/16" -18 UNF	14	**W90HN02HJ06**
1/4" -18 NPT	7/16" -20 UNF	14	**W90HN04HJ**
1/4" -18 NPT	1/2" -20 UNF	14	**W90HN04HJ05**
1/4" -18 NPT	9/16" -18 UNF	14	**W90HN04HJ06**
1/4" -18 NPT	3/4" -16 UNF	19	**W90HN04HJ08**
3/8" -18 NPT	7/16" -20 UNF	19	**W90HN06HJ04**
3/8" -18 NPT	1/2" -20 UNF	19	**W90HN06HJ05**
3/8" -18 NPT	9/16" -18 UNF	19	**W90HN06HJ**
3/8" -18 NPT	3/4" -16 UNF	19	**W90HN06HJ08**
3/8" -18 NPT	7/8" -14 UNF	22	**W90HN06HJ10**
1/2" -14 NPT	7/16" -20 UNF	22	**W90HN08HJ04**
1/2" -14 NPT	1/2" -20 UNF	19	**W90HN08HJ05**
1/2" -14 NPT	9/16" -18 UNF	22	**W90HN08HJ06**
1/2" -14 NPT	3/4" -16 UNF	22	**W90HN08HJ**
1/2" -14 NPT	7/8" -14 UNF	22	**W90HN08HJ10**
1/2" -14 NPT	1.1/16" -12 UN	27	**W90HN08HJ12**
3/4" -14 NPT	9/16" -18 UNF	27	**W90HN12HJ06**
3/4" -14 NPT	3/4" -16 UNF	27	**W90HN12HJ08**
3/4" -14 NPT	7/8" -14 UNF	27	**W90HN12HJ10**
3/4" -14 NPT	1.1/16" -12 UN	27	**W90HN12HJ**
3/4" -14 NPT	1.3/16" -12 UN	31	**W90HN12HJ14**
3/4" -14 NPT	1.5/16" -12 UN	33	**W90HN12HJ16**
1" -11.5 NPT	1.1/16" -12 UN	33	**W90HN16HJ12**
1" -11.5 NPT	1.5/16" -12 UN	33	**W90HN16HJ**
1" -11.5 NPT	1.5/8" -12 UN	41	**W90HN16HJ20**
1.1/4" -11.5 NPT	1.5/16" -12 UN	45	**W90HN20HJ16**

G1	G2	SW	Item no.
		mm	
1.1/4" -11.5 NPT	1.5/8" -12 UN	45	**W90HN20HJ**
1.1/4" -11.5 NPT	1.7/8" -12 UN	48	**W90HN20HJ24**
1.1/2" -11.5 NPT	1.5/8" -12 UN	48	**W90HN24HJ20**
1.1/2" -11.5 NPT	1.7/8" -12 UN	48	**W90HN24HJ**
2" -11.5 NPT	2.1/2" -12 UN	64	**W90HN32HJ**

Product variants:

Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 90°, stainless steel, W90**...W90HNHJVA**
HN HJ VA

Accessories:

PTFE sealing tape, TF BAND Page 494

2



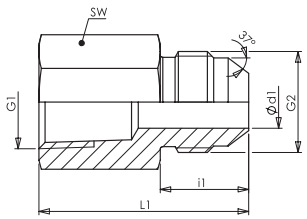




Connecting socket, ISO 8434-2, IGN, SAE J 514, AGJ 37°, straight, steel

Connection 1: NPT internal threads
Sealing form 1: thread seal
Standard connection 1: SAE J 514
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, straight, steel

Connection 2: UN/UNF external threads
Construction type: connection socket
Type: straight
Sealing form 2: 37° external cone

www ...GINHJ

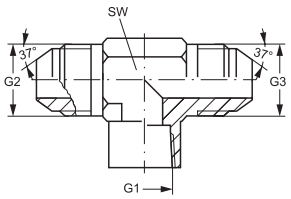
d1	G1	G2	i1	L1	SW	Item no.
mm			mm	mm	mm	
4.4	1/8" -27 NPT	7/16" -20 UNF	14	30.2	14	**GIN02HJ04**
6	1/8" -27 NPT	1/2" -20 UNF	14	29.7	14	**GIN02HJ05**
4.4	1/4" -18 NPT	7/16" -20 UNF	14	35.3	17	**GIN04HJ**
6	1/4" -18 NPT	1/2" -20 UNF	14	35.3	17	**GIN04HJ05**
7.5	1/4" -18 NPT	9/16" -18 UNF	14.1	35.6	17	**GIN04HJ06**
9.9	1/4" -18 NPT	3/4" -16 UNF	16.7	39.3	19	**GIN04HJ08**
7.5	3/8" -18 NPT	9/16" -18 UNF	14.1	37.1	22	**GIN06HJ**
9.9	3/8" -18 NPT	3/4" -16 UNF	16.7	39.6	22	**GIN06HJ08**
12.3	3/8" -18 NPT	7/8" -14 UNF	19	42.4	24	**GIN06HJ10**
9.9	1/2" -14 NPT	3/4" -16 UNF	16.7	45.5	27	**GIN08HJ**
12.3	1/2" -14 NPT	7/8" -14 UNF	19.3	48	27	**GIN08HJ10**
15.5	1/2" -14 NPT	1.1/16" -12 UN	21.9	49	27	**GIN08HJ12**
15.5	3/4" -14 NPT	1.1/16" -12 UN	21.9	52.3	32	**GIN12HJ**
18	3/4" -14 NPT	1.3/16" -12 UN	22.7	52	32	**GIN12HJ14**

d1	G1	G2	i1	L1	SW	Item no.
mm			mm	mm	mm	
21.5	1" -11.5 NPT	1.5/16" -12 UN	23.1	59.7	41	**GIN16HJ**
27.5	1.1/4" -11.5 NPT	1.5/8" -12 UN	24.3	63.2	50	**GIN20HJ**
33.5	1.1/2" -11.5 NPT	1.7/8" -12 UN	27.5	66.5	55	**GIN24HJ**
45	2" -11.5 NPT	2.1/2" -12 UN	33.9	75.4	70	**GIN32HJ**

Product variants:

Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, straight, stainless steel, G IN HJ VA	**...GINHJVA**

Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, T shape, steel



Connection 2 + 3: UN/UNF external threads
Construction type: screw-on socket
Type: T shape
Sealing form 2 + 3: 37° external cone

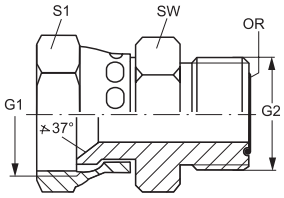
www ...TINHJ

G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	7/16" -20 UNF	14	**TIN02HJ04**
1/8" -27 NPT	1/2" -20 UNF	14	**TIN02HJ05**
1/4" -18 NPT	7/16" -20 UNF	19	**TIN04HJ**
1/4" -18 NPT	1/2" -20 UNF	19	**TIN04HJ05**
1/4" -18 NPT	9/16" -18 UNF	19	**TIN04HJ06**
1/4" -18 NPT	3/4" -16 UNF	19	**TIN04HJ08**
3/8" -18 NPT	9/16" -18 UNF	22	**TIN06HJ**
3/8" -18 NPT	3/4" -16 UNF	22	**TIN06HJ08**
1/2" -14 NPT	7/8" -14 UNF	27	**TIN08HJ10**
1/2" -14 NPT	1.1/16" -12 UN	27	**TIN08HJ12**
3/4" -14 NPT	1.1/16" -12 UN	33	**TIN12HJ**
1" -11.5 NPT	1.5/16" -12 UN	41	**TIN16HJ**
1.1/4" -11.5 NPT	1.5/8" -12 UN	48	**TIN20HJ**
1.1/2" -11.5 NPT	1.7/8" -12 UN	64	**TIN24HJ**

Product variants:

Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, T-shaped, stainless steel, T IN HJ VA	**...TINHJVA**





Union connector, ISO 8434-2, DKJ 37°, AG ORFS, ISO 8434-3, straight, steel

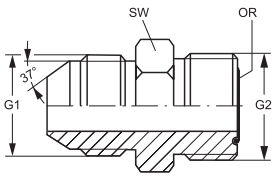
Connection 1: UN/UNF nut threads
Connection 2: ORFS external threads
Construction type: connectors
Type: straight
Sealing form 1: 37° internal cone
Sealing form 2: flat seal with O-ring
Standard connection 2: ISO 8434-3
Standard: ISO 8434-2
ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

...GAJHJOF

OR	G1	G2	S1	SW	Item no.
				mm	
7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	14	16	**GAJ04HJOF**
9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	18	19	**GAJ06HJOF**
12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	22	22	**GAJ08HJOF**
15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	25	27	**GAJ10HJOF**
18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	32	32	**GAJ12HJOF**
23.53 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	38	38	**GAJ16HJOF**





Union connector, ISO 8434-2, AGJ 37°, AG ORFS, ISO 8434-3, straight, steel

Connection 1: UN/UNF external threads
Connection 2: ORFS external threads
Construction type: connection socket
Type: straight
Sealing form 1: 37° external cone
Sealing form 2: flat seal with O-ring
Standard connection 2: ISO 8434-3
Standard: ISO 8434-2
ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

...GHJHJOF

OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	16	**GHJ04HJOF**
9.25 x 1.78	1/2" -20 UNF	11/16" -16 UN	19	**GHJ05HJOF06**
9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	**GHJ06HJOF**
12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	22	**GHJ08HJOF**
15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	27	**GHJ10HJOF**
18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	32	**GHJ12HJOF**
23.53 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	38	**GHJ16HJOF**
29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	45	**GHJ20HJOF**
37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	54	**GHJ24HJOF**

Connecting socket, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, steel

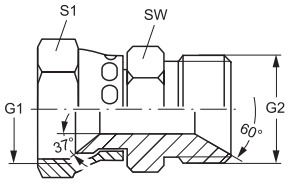
Connection 1: UN/UNF nut threads
Connection 2: BSPP male thread, cylindric
Sealing form 1: 37° internal cone
Sealing form 2: 60° inner cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



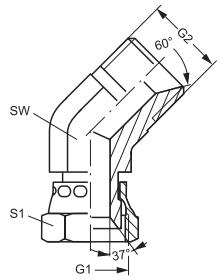
Union connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, straight, steel

Construction type: connectors
Type: straight
Standard connection 2: ISO 8434-6
Standard: ISO 8434-2
ISO 8434-6



www ...GAJHB

G1	G2	S1	SW	Item no.
			mm	
7/16" -20 UNF	G 1/8" -28	17	14	**GAJ04HB02**
7/16" -20 UNF	G 1/4" -19	17	19	**GAJ04HB**
7/16" -20 UNF	G 3/8" -19	17	22	**GAJ04HB06**
7/16" -20 UNF	G 1/2" -14	17	27	**GAJ04HB08**
1/2" -20 UNF	G 1/4" -19	17	19	**GAJ05HB04**
9/16" -18 UNF	G 1/4" -19	19	19	**GAJ06HB04**
9/16" -18 UNF	G 3/8" -19	19	22	**GAJ06HB**
9/16" -18 UNF	G 1/2" -14	19	27	**GAJ06HB08**
3/4" -16 UNF	G 1/4" -19	24	19	**GAJ08HB04**
3/4" -16 UNF	G 3/8" -19	24	22	**GAJ08HB06**
3/4" -16 UNF	G 1/2" -14	22	27	**GAJ08HB**
3/4" -16 UNF	G 3/4" -14	24	32	**GAJ08HB12**
7/8" -14 UNF	G 3/8" -19	27	22	**GAJ10HB06**
7/8" -14 UNF	G 1/2" -14	27	27	**GAJ10HB08**
7/8" -14 UNF	G 5/8" -14	27	30	**GAJ10HB**
7/8" -14 UNF	G 3/4" -14	27	32	**GAJ10HB12**
1.1/16" -12 UN	G 1/2" -14	32	27	**GAJ12HB08**
1.1/16" -12 UN	G 3/4" -14	32	32	**GAJ12HB**
1.1/16" -12 UN	G 1" -11	32	41	**GAJ12HB16**
1.5/16" -12 UN	G 3/4" -14	41	32	**GAJ16HB12**
1.5/16" -12 UN	G 1" -11	41	41	**GAJ16HB**
1.5/8" -12 UN	G 1.1/4" -11	50	50	**GAJ20HB**
1.7/8" -12 UN	G 1.1/2" -11	55	55	**GAJ24HB**
2.1/2" -12 UN	G 2" -11	70	70	**GAJ32HB**

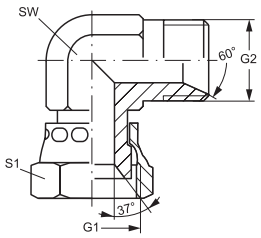


Swivel connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, elbow 45°, steel

Construction type: connection socket
Type: angle 45°
Standard connection 2: ISO 8434-2
Standard: ISO 8434-6

www ...W45AJHB

G1	G2	S1	SW	Item no.
			mm	
7/16" -20 UNF	G 1/4" -19	17	14	**W45AJ04HB**
9/16" -18 UNF	G 3/8" -19	19	17	**W45AJ06HB**
3/4" -16 UNF	G 1/2" -14	24	19	**W45AJ08HB**
7/8" -14 UNF	G 5/8" -14	27	24	**W45AJ10HB**
1.1/16" -12 UN	G 3/4" -14	32	27	**W45AJ12HB**
1.5/16" -12 UN	G 1" -11	41	36	**W45AJ16HB**



Swivel connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, elbow 90°, steel

Construction type: connection socket
Type: angle 90°
Standard connection 2: ISO 8434-6
Standard: ISO 8434-2

www ...W90AJHB

G1	G2	S1	SW	Item no.
			mm	
7/16" -20 UNF	G 1/4" -19	17	17	**W90AJ04HB**
3/4" -16 UNF	G 1/2" -14	19	22	**W90AJ08HB**
7/8" -14 UNF	G 5/8" -14	22	27	**W90AJ10HB**
1.1/16" -12 UN	G 3/4" -14	27	32	**W90AJ12HB**

Bulkhead connector, ISO 8434-2, AGJ 37°, steel

Construction type: bulkhead fitting socket
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

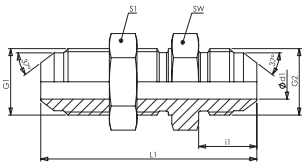






Bulkhead connector, ISO 8434-2, AGJ 37°, straight, steel

Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Type: straight
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone



www ...SVHJ

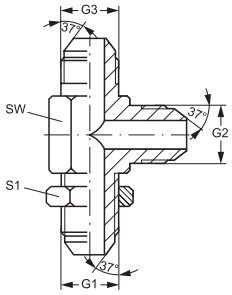
G1	G2	i1	L1	S1	S1	SW	Item no.
		mm	mm	mm		mm	
7/16" -20 UNF	7/16" -20 UNF	14.0	52.5	17	17	17	**SVHJ04**
1/2" -20 UNF	1/2" -20 UNF	14.0	52.5	19	19	19	**SVHJ05**
9/16" -18 UNF	9/16" -18 UNF	14.1	55.5	22	22	22	**SVHJ06**
3/4" -16 UNF	3/4" -16 UNF	16.7	62	24	24	24	**SVHJ08**
7/8" -14 UNF	7/8" -14 UNF	19.3	69.5	30	30	30	**SVHJ10**
1.1/16" -12 UN	1.1/16" -12 UN	21.9	78.5	36	36	36	**SVHJ12**
1.3/16" -12 UN	1.3/16" -12 UN	22.7	80.0	38	38	38	**SVHJ14**
1.5/16" -12 UN	1.5/16" -12 UN	23.1	80.0	41	41	41	**SVHJ16**
1.5/8" -12 UN	1.5/8" -12 UN	24.3	84.0	50	50	50	**SVHJ20**
1.7/8" -12 UN	1.7/8" -12 UN	27.5	89.5	55	55	55	**SVHJ24**
2.1/2" -12 UN	2.1/2" -12 UN	33.9	106.5	65	65	65	**SVHJ32**

Product variants:

Bulkhead connector, ISO 8434-2, AGJ 37°, straight, stainless steel, SV HJ VA	**...SVHJVA**

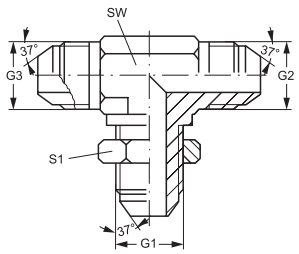
Bulkhead connector, ISO 8434-2, AGJ 37°, L shape, steel

Connection 1 - 3: UN/UNF external threads
Type: L shape
Sealing form 1 - 3: 37° external cone



www ...LSVHJ

G1 - G3	S1	SW	Item no.
		mm	
7/16" -20 UNF	17	11	**LSV04HJ**
1/2" -20 UNF	19	14	**LSV05HJ**
9/16" -18 UNF	21	14	**LSV06HJ**
3/4" -16 UNF	25	19	**LSV08HJ**
7/8" -14 UNF	29	22	**LSV10HJ**
1.1/16" -12 UN	35	27	**LSV12HJ**



Bulkhead connector, ISO 8434-2, AGJ 37°, T shape, steel

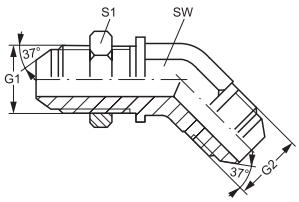
Connection 1 - 3: UN/UNF external threads
Type: T shape
Sealing form 1 - 3: 37° external cone

...TSVHJ

G1 - G3	S1	SW	Item no.
		mm	
7/16" -20 UNF	17	11	**TSV04HJ**
1/2" -20 UNF	19	14	**TSV05HJ**
9/16" -18 UNF	21	14	**TSV06HJ**
3/4" -16 UNF	25	19	**TSV08HJ**
7/8" -14 UNF	29	22	**TSV10HJ**
1.1/16" -12 UN	35	27	**TSV12HJ**

Product variants:

Bulkhead connector, ISO 8434-2, AGJ 37°, T-shaped, stainless steel, TSV HJ VA	**...TSVHJVA**



Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 45°, steel

Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Type: angle 45°
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone

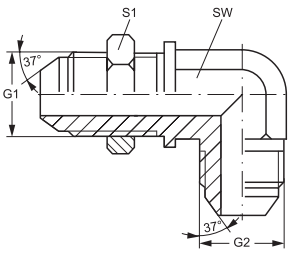
...SW45HJ

G1 + G2	S1	SW	Item no.
		mm	
7/16" -20 UNF	17	11	**SW45HJ04**
1/2" -20 UNF	19	14	**SW45HJ05**
9/16" -18 UNF	21	14	**SW45HJ06**
3/4" -16 UNF	25	19	**SW45HJ08**
7/8" -14 UNF	29	22	**SW45HJ10**
1.1/16" -12 UN	35	27	**SW45HJ12**
1.5/16" -12 UN	41	33	**SW45HJ16**
1.5/8" -12 UN	48	41	**SW45HJ20**
1.7/8" -12 UN	55	48	**SW45HJ24**

Product variants:

Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 45°, stainless steel, SW 45 HJ VA	**...SW45HJVA**

Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 90°, steel



Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Type: angle 90°
Sealing form 1: 37° external cone
Sealing form 2: 37° external cone

www ...SW90HJ

G1 + G2	S1	SW	Item no.
		mm	
7/16" -20 UNF	17	11	**SW90HJ04**
1/2" -20 UNF	19	13	**SW90HJ05**
9/16" -18 UNF	22	14	**SW90HJ06**
3/4" -16 UNF	24	19	**SW90HJ08**
7/8" -14 UNF	30	22	**SW90HJ10**
1.1/16" -12 UN	36	27	**SW90HJ12**
1.3/16" -12 UN	38	41	**SW90HJ14**
1.5/16" -12 UN	41	41	**SW90HJ16**
1.5/8" -12 UN	48	41	**SW90HJ20**
1.7/8" -12 UN	55	55	**SW90HJ24**

Product variants:

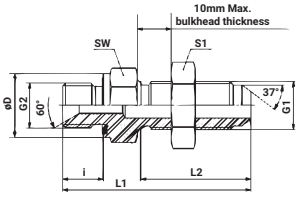
Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 90°, stainless steel, SW 90 HJ VA	**...SW90HJVA**

Bulkhead connector, ISO 8434-2, AGJ 37°, AGR soft seal, ISO 1179, type E, straight, steel



Connection 1: UN/UNF external threads
Connection 2: BSPP male thread, cylindric
Construction type: bulkhead fitting socket
Type: straight
Sealing form 1: 37° external cone
Sealing form 2: type E
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

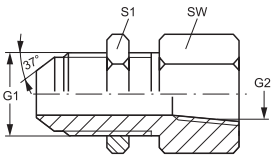


www ...SVHJHRED

G1	G2	i	L1	L2	S1	SW	Ø D	Item no.
		mm	mm	mm		mm	mm	
9/16" -18 UNF	G 1/4" -19	12.0	55.50	32.50	22	19	18.9	**SVHJ06HR04ED**
9/16" -18 UNF	G 3/8" -19	12.0	55.50	32.50	22	22	21.9	**SVHJ06HRED**
3/4" -16 UNF	G 1/2" -14	14.0	62.00	36.60	24	27	26.9	**SVHJ08HRED**
1.1/16" -12 UN	G 3/4" -14	16.0	79.40	48.20	36	32	31.9	**SVHJ12HRED**



Bulkhead connector, ISO 8434-2, AGJ 37°, IGN, SAE J 514, straight, steel

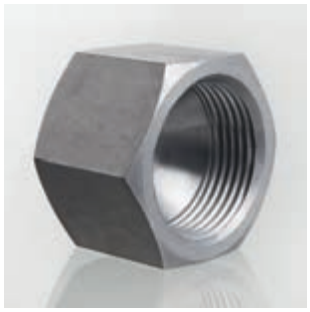


Connection 1: UN/UNF external threads
Connection 2: NPT internal threads
Construction type: bulkhead fitting socket
Type: straight
Sealing form 1: 37° external cone
Sealing form 2: thread seal
Standard connection 2: SAE J 514
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

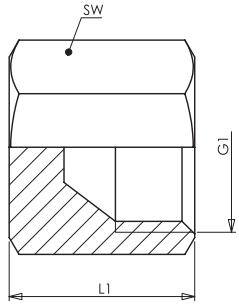
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...SVHJIN

G1	G2	S1	SW	Item no.
			mm	
7/16" -20 UNF	1/8" -27 NPT	17	17	SVHJ04IN02
7/16" -20 UNF	1/4" -18 NPT	19	19	SVHJ04IN
1/2" -20 UNF	1/8" -27 NPT	17	21	SVHJ05IN02
1/2" -20 UNF	1/4" -18 NPT	17	19	SVHJ05IN04
9/16" -18 UNF	1/8" -27 NPT	21	17	SVHJ06IN02
9/16" -18 UNF	1/4" -18 NPT	21	21	SVHJ06IN04
9/16" -18 UNF	3/8" -18 NPT	21	25	SVHJ06IN
3/4" -16 UNF	1/4" -18 NPT	25	21	SVHJ08IN04
3/4" -16 UNF	3/8" -18 NPT	25	25	SVHJ08IN06
3/4" -16 UNF	1/2" -14 NPT	25	29	SVHJ08IN
7/8" -14 UNF	1/2" -14 NPT	29	29	SVHJ10IN08
1.1/16" -12 UN	1/2" -14 NPT	35	29	SVHJ12IN08
1.1/16" -12 UN	3/4" -14 NPT	35	35	SVHJ12IN
1.3/16" -12 UN	3/4" -14 NPT	41	35	SVHJ14IN12
1.5/16" -12 UN	1" -11.5 NPT	41	41	SVHJ16IN
1.5/8" -12 UN	1.1/4" -11.5 NPT	46	46	SVHJ20IN
1.7/8" -12 UN	1.1/2" -11.5 NPT	50	50	SVHJ24IN



Cap, ISO 8434-2, DKJ 37°, steel



Connection 1: UN/UNF nut threads
Construction type: blanking nut
Type: straight
Sealing form 1: 37° internal cone
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...VERSCHLUSSAJ

G1	L1	S1	SW	Item no.
	mm		mm	
7/16" -20 UNF	16.0	14	14	VERSCHLUSSAJ04
1/2" -20 UNF	17.0	17	17	VERSCHLUSSAJ05
9/16" -18 UNF	19.0	19	19	VERSCHLUSSAJ06
3/4" -16 UNF	22.0	22	22	VERSCHLUSSAJ08
7/8" -14 UNF	25.0	27	27	VERSCHLUSSAJ10
1.1/16" -12 UN	26.0	32	32	VERSCHLUSSAJ12
1.3/16" -12 UN	27.0	35	35	VERSCHLUSSAJ14
1.5/16" -12 UN	29.0	41	41	VERSCHLUSSAJ16
1.5/8" -12 UN	31.0	50	50	VERSCHLUSSAJ20
1.7/8" -12 UN	37.0	60	60	VERSCHLUSSAJ24
2.1/2" -12 UN	45.0	75	75	VERSCHLUSSAJ32

Product variants:

Cap, ISO 8434-2, DKJ 37°, stainless steel, VERSCHLUSS AJ VA	**...VERSCHLUSSAJVA**

Plug, ISO 8434-2, AGJ 37°, steel

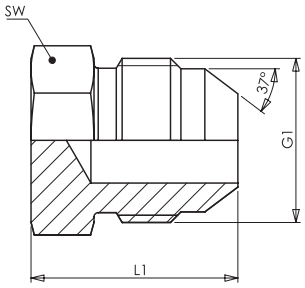
Connection 1: UN/UNF external threads
Construction type: blanking socket
Sealing form 1: 37° external cone
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSHJ

G1	L1	SW	Item no.
	mm	mm	
7/16" -20 UNF	20.5	12	VERSCHLUSSHJ04
1/2" -20 UNF	20.5	14	VERSCHLUSSHJ05
9/16" -18 UNF	21.5	19	VERSCHLUSSHJ06
3/4" -16 UNF	24.0	19	VERSCHLUSSHJ08
7/8" -14 UNF	28.0	24	VERSCHLUSSHJ10
1.1/16" -12 UN	32.5	27	VERSCHLUSSHJ12
1.3/16" -12 UN	33.5	32	VERSCHLUSSHJ14
1.5/16" -12 UN	34.0	36	VERSCHLUSSHJ16
1.5/8" -12 UN	37.0	46	VERSCHLUSSHJ20
1.7/8" -12 UN	42.0	50	VERSCHLUSSHJ24
2.1/2" -12 UN	52.0	65	VERSCHLUSSHJ32



Product variants:

Plug, ISO 8434-2, AGJ 37°, stainless steel, VERSCHLUSS HJ VA	**...VERSCHLUSSHJVA**

Plug, AG UNF, OR, ISO 11926, steel

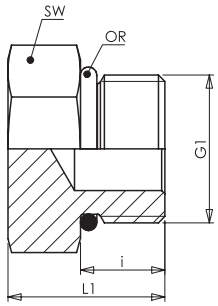
Connection 1: UN/UNF external threads
Construction type: blanking socket
Type: straight
Sealing form 1: O-ring seal
Standard connection 1: ISO 11926-3
Surface: electro galvanised
Material: steel

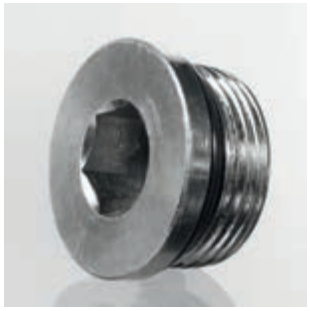
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSO

OR	G1	i	L1	SW	Item no.
		mm	mm	mm	
6.07 x 1.63	5/16" -24 UNF	7.5	15.2	12	VERSCHLUSSO02
7.65 x 1.63	3/8" -24 UNF	7.5	15.2	12	VERSCHLUSSO03
9.17 x 1.83	7/16" -20 UNF	9.1	17.0	14	VERSCHLUSSO04
10.52 x 1.83	1/2" -20 UNF	9.1	17.0	17	VERSCHLUSSO05
11.90 x 1.98	9/16" -18 UNF	10.0	18.5	17	VERSCHLUSSO06
16.36 x 2.20	3/4" -16 UNF	11.1	20.3	22	VERSCHLUSSO08
19.18 x 2.46	7/8" -14 UNF	12.7	23.6	27	VERSCHLUSSO10
23.47 x 2.95	1.1/16" -12 UN	15.1	27.7	32	VERSCHLUSSO12
26.59 x 2.95	1.3/16" -12 UN	15.1	27.7	36	VERSCHLUSSO14
29.74 x 2.95	1.5/16" -12 UN	15.1	28.4	41	VERSCHLUSSO16
37.47 x 3.00	1.5/8" -12 UN	15.1	30.5	50	VERSCHLUSSO20
43.69 x 3.00	1.7/8" -12 UN	15.1	32.3	55	VERSCHLUSSO24
59.36 x 3.00	2.1/2" -12 UN	15.1	36.3	70	VERSCHLUSSO32

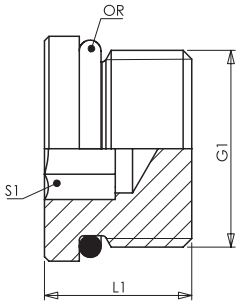




Plug, hexagon socket, AG UNF, OR, ISO 11926, steel

Connection 1: UN/UNF external threads
Construction type: blanking socket, with hexagon socket
Type: straight
Sealing form 1: O-ring seal
Standard connection 1: ISO 11926-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



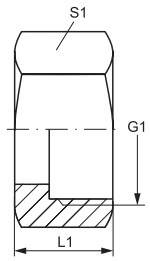
www ...VERSCHLUSSOIS

OR	G1	L1	S1	Item no.
		mm		
6.07 x 1.63	5/16" -24 UNF	10.24	3	VERSCHLUSSO02IS
7.65 x 1.78	3/8" -24 UNF	10.24	4	VERSCHLUSSO03IS
8.92 x 1.83	7/16" -20 UNF	12.02	5	VERSCHLUSSO04IS
10.52 x 1.83	1/2" -20 UNF	12.02	5	VERSCHLUSSO05IS
11.90 x 1.98	9/16" -18 UNF	12.92	6	VERSCHLUSSO06IS
16.36 x 2.20	3/4" -16 UNF	14.83	8	VERSCHLUSSO08IS
19.18 x 2.46	7/8" -14 UNF	16.64	10	VERSCHLUSSO10IS
23.47 x 2.95	1.1/16" -12 UN	19.7	14	VERSCHLUSSO12IS
26.59 x 2.95	1.3/16" -12 UN	19.7	14	VERSCHLUSSO14IS
29.74 x 2.95	1.5/16" -12 UN	19.7	17	VERSCHLUSSO16IS
37.47 x 3.00	1.5/8" -12 UN	19.7	22	VERSCHLUSSO20IS
43.69 x 3.00	1.7/8" -12 UN	19.7	22	VERSCHLUSSO24IS
59.36 x 3.00	2.1/2" -12 UN	19.7	22	VERSCHLUSSO32IS



Tube nut, AJ, ISO 8434-2, steel

Connection 1: UN/UNF inner thread
Construction type: tube nut
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel



www ...UEMAJ

For tube outside Ø	G1	L1	S1	Item no.
		mm		
	3/8" -24 UNF	16.0	11	UEMAJ03
6	7/16" -20 UNF	16.0	14	UEMAJ04
8	1/2" -20 UNF	17.0	17	UEMAJ05
10	9/16" -18 UNF	18.0	19	UEMAJ06
12	3/4" -16 UNF	21.0	22	UEMAJ08
	7/8" -14 UNF	25.0	27	UEMAJ10
18	1.1/16" -12 UN	26.0	32	UEMAJ12
22	1.3/16" -12 UN	27.5	36	UEMAJ14
25	1.5/16" -12 UN	28.0	41	UEMAJ16
	1.5/8" -12 UN	31.0	50	UEMAJ20
	1.7/8" -12 UN	36.0	60	UEMAJ24
42	2.1/2" -12 UN	45.0	70	UEMAJ32
20	1.1/16" -12 UN	26.2	32	UEMAJM20

Product variants:

Tube nut, AJ, ISO 8434-2, stainless steel, UEM AJ VA	**...UEMAJVA**

Accessories:

Support sleeve for flare 37°, ISO 8434-2, imperial tube, steel, STUETZRING AJ	Page 271
Support sleeve for flare 37°, ISO 8434-2, metric tube, steel, STUETZRING AJM	Page 272
Soft seal JIC, WD HJ VA	**...WDHJVA**

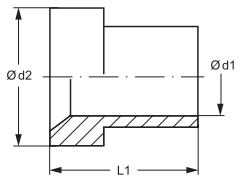
Support sleeve for flare 37°, ISO 8434-2, imperial tube, steel



Construction type: support sleeve for flange
Construction type addition: for imperial tubes
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

www ...STUETZRINGAJ

Tube outer Ø	Tube outer Ø	L1	Ø d1	Ø d2	Item no.
mm		mm	mm	mm	
6.35	1/4"	10.4	6.6	9.7	**STUETZRINGAJ04**
7.94	5/16"	11.2	8.2	11.3	**STUETZRINGAJ05**
9.52	3/8"	12.7	9.7	12.7	**STUETZRINGAJ06**
12.7	1/2"	14.2	12.9	17.3	**STUETZRINGAJ08**
15.88	5/8"	16.8	16.1	20.2	**STUETZRINGAJ10**
19.05	3/4"	17.3	19.3	24.7	**STUETZRINGAJ12**
22.22	7/8"	19.5	22.3	28.0	**STUETZRINGAJ14**
25.4	1"	19.8	25.6	31.0	**STUETZRINGAJ16**
31.75	1.1/4"	23.1	32.1	38.9	**STUETZRINGAJ20**
38.1	1.1/2"	28.4	38.4	45.3	**STUETZRINGAJ24**



Product variants:

Support sleeve for flare 37°, ISO 8434-2, imperial tube, stainless steel, STUETZ-RING AJ VA **...STUETZRINGAJVA**

Accessories:

Tube nut, AJ, ISO 8434-2, steel, UEM AJ Page 270

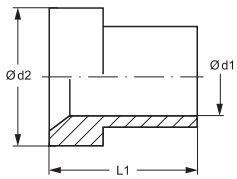
Soft seal JIC, WD HJ VA **...WDHJVA**



Support sleeve for flare 37°, ISO 8434-2, metric tube, steel

Construction type: support sleeve for flange
Construction type addition: for metric tubes
Standard: ISO 8434-2
Surface: electro galvanised
Material: steel

...STUETZRINGAJM



Tube outer Ø	L1	Ø d1	Ø d2	Item no.
mm	mm	mm	mm	
6	10.4	6.2	9.7	**STUETZRINGAJM06**
8	11.2	8.2	11.3	**STUETZRINGAJM08**
10	12.7	10.2	12.7	**STUETZRINGAJM10**
12	14.2	12.2	17.3	**STUETZRINGAJM12**
14	14.3	14.3	20.1	**STUETZRINGAJM14**
15	17.5	15.1	20.1	**STUETZRINGAJM15**
16	16.8	16.2	20.2	**STUETZRINGAJM16**
18	17.4	18.3	24.5	**STUETZRINGAJM18**
20	17.3	20.2	24.7	**STUETZRINGAJM20**
22	24.1	22.3	27.8	**STUETZRINGAJM22**
25	19.8	25.2	31.0	**STUETZRINGAJM25**
30	23.1	30.3	38.9	**STUETZRINGAJM30**
32	23.1	32.3	38.9	**STUETZRINGAJM32**
38	28.4	38.4	45.3	**STUETZRINGAJM38**
42	29.0	42.4	55.0	**STUETZRINGAJM42**
50	30.2	50.4	61.2	**STUETZRINGAJM50**

Product variants:

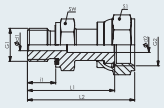
Support sleeve for flare 37°, ISO 8434-2, metric tube, stainless steel, STUETZ-RING AJM VA **...STUETZRINGAJMVA**

Accessories:

Tube nut, AJ, ISO 8434-2, steel, UEM AJ	Page 270
Soft seal JIC, WD HJ VA	**...WDHJVA**

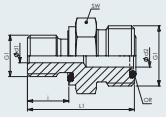
Stud connectors (ORFS / ISO 8434-3 adaptors)

Metric



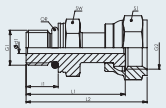
Stud connector, ISO 8434-3, AGM soft seal, ISO 9974, type E, DK ORFS, straight, steel

GEHMEDAJF Page 277



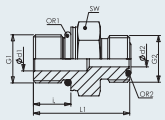
Stud connector, ISO 8434-3, AGM soft seal, ISO 9974, type E, AG ORFS, straight, steel

GEHMEDHJOF Page 277



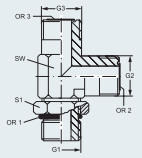
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, DK ORFS, straight, steel

GEHMOAJF Page 278



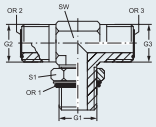
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, AG ORFS, straight, steel

GEHMOHJOF Page 279



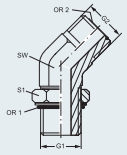
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, L form, steel

LHMOHJOF Page 280



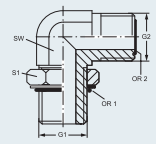
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, T form, steel

THMOHJOF Page 280



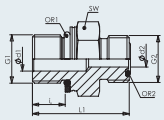
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, elbow 45°, steel

W45HMOHJOF Page 281



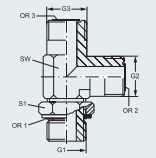
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, elbow 90°, steel

W90HMOHJOF Page 281



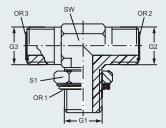
Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, AG ORFS, straight, steel

GEHMOKHJOF Page 282



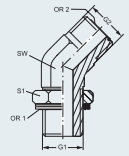
Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, L form, steel

LHMOKHJOF Page 283



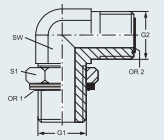
Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, T form, steel

THMOKHJOF Page 283



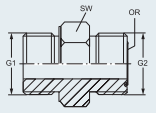
Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, elbow 45°, steel

W45HMOKHJOF Page 284



Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, elbow 90°, steel

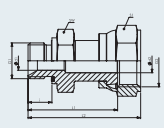
W90HMOKHJOF Page 284



Stud connector, ISO 8434-3, AGM, AG ORFS, straight, steel

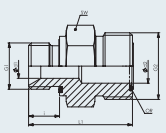
GEMHJOF Page 285

BSP



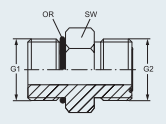
Stud connector, ISO 8434-3, AGR soft seal, ISO 1179, type E, DK ORFS, straight, steel

GEHREDAJF Page 285



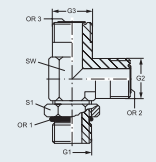
Stud connector, ISO 8434-3, AGR soft seal, ISO 1179, type E, AG ORFS, straight, steel

GEHREDHJOF Page 286



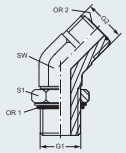
Stud connector, ISO 8434-3, AGR, OR, AG ORFS, straight, steel

GEHROHJOF Page 287



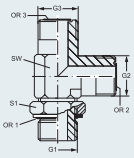
Stud connector, ISO 8434-3, AGR, OR, adjustable, AG ORFS, L form, steel

LHROHJOF Page 288



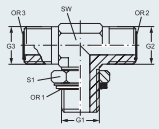
Stud connector, ISO 8434-3, AGR, OR, adjustable, AG ORFS, elbow 45°, steel

W45HROHJOF Page 288



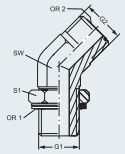
Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, L form, steel

LHROKHJOF Page 289



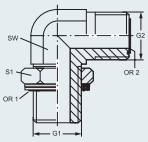
Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, T form, steel

THROKHJOF Page 290



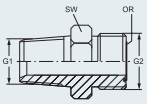
Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, elbow 45°, steel

W45HROKHJOF Page 290



Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, elbow 90°, steel

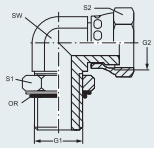
W90HROKHJOF Page 291



Stud connector, ISO 8434-3, AGR tapered, DIN 3852-2, type C, AG ORFS, straight, steel

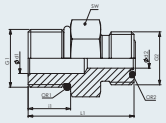
GEHRKHJOF Page 292

UN / UNF



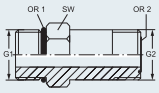
Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, DK ORFS, elbow 90°, steel

W90OAJF Page 292



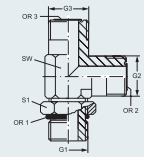
Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, AG ORFS, straight, steel

GEOHJOF Page 293



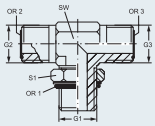
Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, AG ORFS, straight, long, steel

GEOLHJOF Page 294



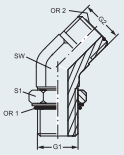
Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, L form, steel

LOHJOF Page 294



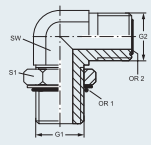
Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, T form, steel

TOHJOF Page 295



Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, elbow 45°, steel

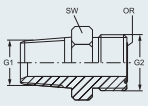
W45OHJOF Page 295



Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, elbow 90°, steel

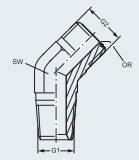
W90OHJOF Page 296

NPT



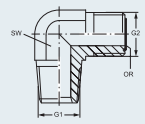
Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, straight, steel

GEHNHJOF Page 297



Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, elbow 45°, steel

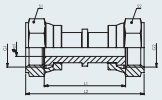
W45HNHJOF Page 298



Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, elbow 90°, steel

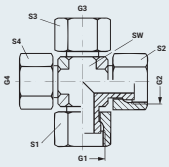
W90HNHJOF Page 298

Union connectors (ORFS / ISO 8434-3 adaptors)



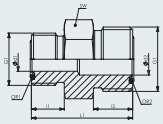
Union connector, ISO 8434-3, DK ORFS, straight, steel

GAJF Page 299



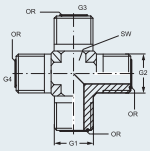
Union connector, ISO 8434-3, DK ORFS, cross shape, steel

KAJF Page 299



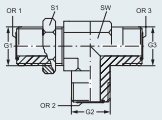
Union connector, ISO 8434-3, AG ORFS, straight, steel

GHJOF Page 300



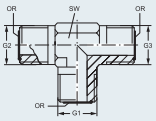
Union connector, ISO 8434-3, AG ORFS, cross shape, steel

KHJOF Page 301



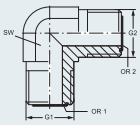
Bulkhead connector, 8434-3, AG ORFS, L-shape, steel

SLHJOF Page 301



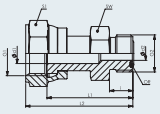
Union connector, ISO 8434-3, AG ORFS, T form, steel

THJOF Page 302



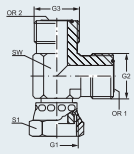
Union connector, ISO 8434-3, AG ORFS, elbow 90°, steel

W90HJOF Page 302



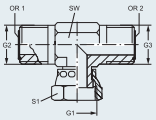
Union connector, ISO 8434-3, DK ORFS, AG ORFS, straight, steel

GAJFHJOF Page 303



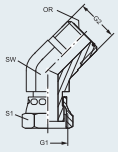
Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, L form, steel

LAJFHJOF Page 304



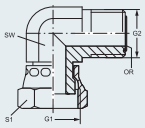
Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, T form, steel

TAJFHJOF Page 304



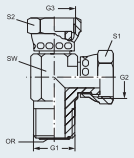
Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, elbow 45°, steel

W45AJFHJOF Page 304



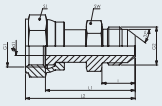
Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, elbow 90°, steel

W90AJFHJOF Page 305



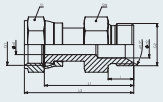
Swivel connector, ISO 8434-3, AG ORFS, DK ORFS, L-shaped, steel

LHJOFAJF Page 305



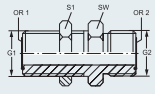
Union connector, ISO 8434-3, DK ORFS, AGJ 37°, ISO 8434-2, straight, steel

GAJFHJ Page 306



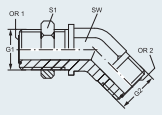
Union connector, ISO 8434-3, DK ORFS, AGR 60°, ISO 8434-6, straight, steel

GAJFHB Page 306



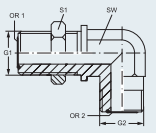
Bulkhead connector, ISO 8434-3, AG ORFS, straight, steel

SVHJOF Page 307



Bulkhead connector, ISO 8434-3, AG ORFS, elbow 45°, steel

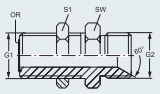
SW45HJOF Page 307



Bulkhead connector, ISO 8434-3, AG ORFS, elbow 90°, steel

SWHJOF Page 308

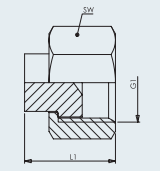
Bulkhead connectors (ORFS / ISO 8434-3 adaptors)



Bulkhead connector, ISO 8434-3, AG ORFS, AGR 60°, ISO 8434-6, straight, steel

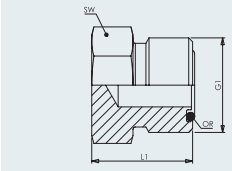
SVHJOFHB Page 308

Caps and plugs (ORFS / ISO 8434-3 adaptors)



Cap, ISO 8434-3, DK ORFS, steel

VERSCHLUSSAJF Page 309



Plug, ISO 8434-3, AG ORFS, steel

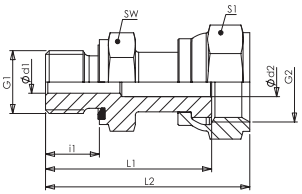
VERSCHLUSSHJOF Page 309

Stud connector, ISO 8434-3, AGM soft seal, ISO 9974, type E, DK ORFS, straight, steel



Connection 1: metric cylindrical outer thread
Connection 2: UN/UNF nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: flat seal
Standard connection 1: ISO 9974-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHMEDAJF

G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
M 12 x 1.5	9/16" -18 UNF	12	34.5	42.0	19	17	4.0	4.0	**GEHMED12AJF04**
M 14 x 1.5	11/16" -16 UN	12	37.0	45.5	22	19	5.0	6.5	**GEHMED14AJF06**
M 16 x 1.5	13/16" -16 UN	12	41.0	51.0	27	22	7.0	9.5	**GEHMED16AJF08**
M 22 x 1.5	1" -14 UNS	14	51.0	63.5	30	27	12.0	12.0	**GEHMED22AJF10**
M 27 x 2	1.3/16" -12 UN	16	54.0	67.5	36	32	15.5	15.5	**GEHMED27AJF12**
M 33 x 2	1.7/16" -12 UN	18	60.5	74.0	41	41	20.0	20.0	**GEHMED33AJF16**
M 42 x 2	1.11/16" -12 UN	20	63.0	76.5	50	50	25.0	25.0	**GEHMED42AJF20**

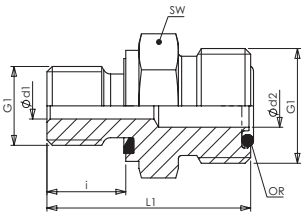
Spare parts:
Soft seal for ED fittings, WD **...WD**

Stud connector, ISO 8434-3, AGM soft seal, ISO 9974, type E, AG ORFS, straight, steel



Connection 1: metric cylindrical outer thread
Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: flat seal with O-ring
Standard connection 1: ISO 9974-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

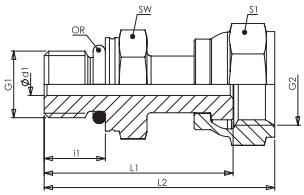


www ...GEHMEDHJOF

OR	G1	G2	i1	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
7.65 x 1.78	M 10 x 1	9/16" -18 UNF	8	24.5	17	3.0	4.5	**GEHMED10HJOF04**
9.25 x 1.78	M 12 x 1.5	11/16" -16 UN	12	31.0	19	4.0	6.5	**GEHMED12HJOF06**
9.25 x 1.78	M 14 x 1.5	11/16" -16 UN	12	31.0	19	5.0	5.0	**GEHMED14HJOF06**
12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	12	36.0	24	8.0	8.0	**GEHMED18HJOF08**
15.60 x 1.78	M 22 x 1.5	1" -14 UNS	14	41.5	27	12.0	12.0	**GEHMED22HJOF10**
18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	16	46.5	32	15.5	15.5	**GEHMED27HJOF12**
23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	18	51.5	41	20.0	20.0	**GEHMED33HJOF16**
29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	20	55.5	50	25.0	25.0	**GEHMED42HJOF20**

Spare parts:
Soft seal for ED fittings, WD **...WD**





Stud connector, ISO 8434-3, AGM, OR, ISO 6149, DK ORFS, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: ORFS nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: flat seal
Standard connection 1: ISO 6149-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GEHMOAJF

OR	G1	G2	i1	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm		mm	mm	mm	
9.4 x 2.2	M 12 x 1.5	9/16" -18 UNF	11.0	34.0	41.5	19	17	4.0	4.0	**GEHMO12AJF04**
11.4 x 2.2	M 14 x 1.5	11/16" -16 UN	11.0	36.5	45.0	22	19	6.0	6.0	**GEHMO14AJF06**
13.4 x 2.2	M 16 x 1.5	11/16" -16 UN	12.5	38.5	47.0	22	22	6.5	6.5	**GEHMO16AJF06**
13.4 x 2.2	M 16 x 1.5	13/16" -16 UN	12.5	42.0	52.0	27	22	7.0	9.5	**GEHMO16AJF08**
19.4 x 2.2	M 22 x 1.5	1" -14 UNS	15.0	51.5	64.0	30	27	12.0	12.0	**GEHMO22AJF10**
23.7 x 2.9	M 27 x 2	1" -14 UNS	18.5	55.5	68.0	32	32	15.0	12.5	**GEHMO27AJF10**
23.7 x 2.9	M 27 x 2	1.3/16" -12 UN	18.5	56.0	69.5	36	32	15.0	15.0	**GEHMO27AJF12**
29.7 x 2.9	M 33 x 2	1.7/16" -12 UN	18.5	61.0	74.5	41	41	20.0	20.0	**GEHMO33AJF16**
38.7 x 2.9	M 42 x 2	1.11/16" -12 UN	19.0	62.0	75.5	50	50	26.0	26.0	**GEHMO42AJF20**

Stud connector, ISO 8434-3, AGM, OR, ISO 6149, AG ORFS, steel

Connection 1: metric cylindrical outer thread
Sealing form 1: O-ring seal, on screw-in socket
Standard connection 1: ISO 6149-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

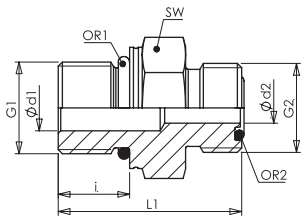






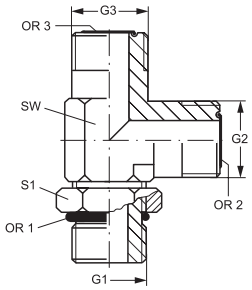
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, AG ORFS, straight, steel

Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: flat seal with O-ring



www ...GEHMOHJOF

OR1	OR2	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
				mm	mm	mm	mm	mm	
8.1 x 2.6	7.65 x 1.78	M 10 x 1	9/16" -18 UNF	9.5	27	17	3	3	**GEHMO10HJOF04**
9.3 x 2.2	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	11	28.5	17	4	4	**GEHMO12HJOF04**
11.3 x 2.2	9.25 x 1.78	M 14 x 1.5	11/16" -16 UN	11	30.5	19	6	6	**GEHMO14HJOF06**
13.3 x 2.2	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	12.5	33.5	22	6	6	**GEHMO16HJOF06**
13.3 x 2.2	9.25 x 1.78	M 18 x 1.5	11/16" -16 UN	14	36	24	9	6	**GEHMO18HJOF06**
13.3 x 2.2	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	14	38	24	9	9	**GEHMO18HJOF08**
15.3 x 2.2	23.53 x 1.78	M 18 x 1.5	1" -14 UNS	14	41	27	9	12	**GEHMO18HJOF10**
19.3 x 2.2	12.42 x 1.78	M 22 x 1.5	13/16" -16 UN	15	39.5	27	12	9	**GEHMO22HJOF08**
19.3 x 2.2	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	15	42	27	12	12	**GEHMO22HJOF10**
19.3 x 2.2	18.77 x 1.78	M 22 x 1.5	1.3/16" -12 UN	15	45	32	12	15	**GEHMO22HJOF12**
23.6 x 2.9	15.60 x 1.78	M 27 x 2	1" -14 UNS	18.5	47	32	15	12	**GEHMO27HJOF10**
23.6 x 2.9	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	18.5	48.5	32	15	15	**GEHMO27HJOF12**
29.6 x 2.9	18.77 x 1.78	M 33 x 2	1.3/16" -12 UN	18.5	51.5	41	20	15	**GEHMO33HJOF12**
29.6 x 2.9	23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	18.5	52	41	20	20	**GEHMO33HJOF16**
29.6 x 2.9	29.87 x 1.78	M 33 x 2	1.11/16" -12 UN	18.5	53	46	20	26	**GEHMO33HJOF20**
38.6 x 2.9	23.53 x 1.78	M 42 x 2	1.7/8" -12 UN	19	54.5	50	26	20	**GEHMO42HJOF16**
38.6 x 2.9	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	19	54.5	50	26	26	**GEHMO42HJOF20**
44.6 x 2.9	29.87 x 1.78	M 48 x 2	1.11/16" -12 UN	21.5	57	55	32	26	**GEHMO48HJOF20**
44.6 x 2.9	37.82 x 1.78	M 48 x 2	2" -12 UN	21.5	57	55	32	32	**GEHMO48HJOF24**

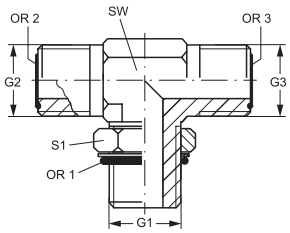


Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, L form, steel

Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: flat seal with O-ring

www ...LHMOHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
8.2 x 1.5	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	**LHMO12HJOF04**
13.4 x 2.1	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	19	**LHMO16HJOF06**
15.4 x 2.1	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	24	19	**LHMO18HJOF08**
19.4 x 2.1	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	**LHMO22HJOF10**
23.7 x 2.8	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	**LHMO27HJOF12**
29.7 x 2.8	23.52 x 1.78	M 33 x 2	1.7/16" -12 UN	41	36	**LHMO33HJOF16**
38.7 x 2.8	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	**LHMO42HJOF20**
46.7 x 2.8	37.82 x 1.78	M 48 x 2	2" -12 UN	55	48	**LHMO48HJOF24**



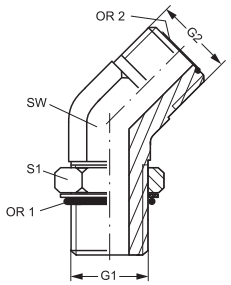
Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, T form, steel

Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: flat seal with O-ring

www ...THMOHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
8.2 x 1.5	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	**THMO12HJOF04**
13.4 x 2.1	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	19	**THMO16HJOF06**
15.4 x 2.1	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	24	19	**THMO18HJOF08**
19.4 x 2.1	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	**THMO22HJOF10**
23.7 x 2.8	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	**THMO27HJOF12**
29.7 x 2.8	23.52 x 1.78	M 33 x 2	1.7/16" -12 UN	41	36	**THMO33HJOF16**
38.7 x 2.8	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	**THMO42HJOF20**
46.7 x 2.8	37.82 x 1.78	M 48 x 2	2" -12 UN	55	48	**THMO48HJOF24**

Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, elbow 45°, steel

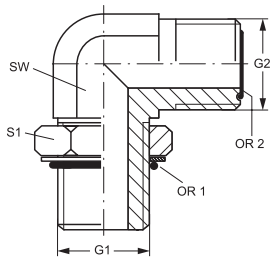


Connection 2: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: flat seal with O-ring

www ...W45HMOHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
9.30 x 2.30	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	**W45HMO12HJOF04**
13.30 x 2.30	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	19	**W45HMO16HJOF06**
15.30 x 2.30	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	24	19	**W45HMO18HJOF08**
19.30 x 2.30	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	**W45HMO22HJOF10**
23.47 x 2.95	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	**W45HMO27HJOF12**
29.74 x 2.95	23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	41	36	**W45HMO33HJOF16**
38.00 x 3.00	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	**W45HMO42HJOF20**
44.04 x 3.53	37.82 x 1.78	M 48 x 2	2" -12 UN	55	50	**W45HMO48HJOF24**

Stud connector, ISO 8434-3, AGM, OR, ISO 6149, adjustable, AG ORFS, elbow 90°, steel



Connection 2: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: flat seal with O-ring

www ...W90HMOHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
8.2 x 1.5	7.65 x 1.78	M 10 x 1	9/16" -18 UNF	14	14	**W90HMO10HJOF04**
9.4 x 2.1	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	**W90HMO12HJOF04**
11.4 x 2.1	9.25 x 1.78	M 14 x 1.5	11/16" -16 UN	19	19	**W90HMO14HJOF06**
13.4 x 2.1	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	19	**W90HMO16HJOF06**
13.4 x 2.1	12.42 x 1.78	M 16 x 1.5	13/16" -16 UN	22	19	**W90HMO16HJOF08**
15.4 x 2.1	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	24	19	**W90HMO18HJOF08**
15.4 x 2.1	15.60 x 1.78	M 18 x 1.5	1" -14 UNS	24	27	**W90HMO18HJOF10**
19.4 x 2.1	12.42 x 1.78	M 22 x 1.5	13/16" -16 UN	27	27	**W90HMO22HJOF08**
19.4 x 2.1	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	**W90HMO22HJOF10**
19.4 x 2.1	18.77 x 1.78	M 22 x 1.5	1.3/16" -12 UN	27	30	**W90HMO22HJOF12**
23.7 x 2.8	15.60 x 1.78	M 27 x 2	1" -14 UNS	32	27	**W90HMO27HJOF10**
23.7 x 2.8	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	**W90HMO27HJOF12**
29.7 x 2.8	18.77 x 1.78	M 33 x 2	1.3/16" -12 UN	41	30	**W90HMO33HJOF12**
29.7 x 2.8	23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	41	36	**W90HMO33HJOF16**
38.7 x 2.8	23.53 x 1.78	M 42 x 2	1.7/16" -12 UN	50	36	**W90HMO42HJOF16**
38.7 x 2.8	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	**W90HMO42HJOF20**
46.7 x 2.8	29.87 x 1.78	M 48 x 2	1.11/16" -12 UN	55	41	**W90HMO48HJOF20**
46.7 x 2.8	37.82 x 1.78	M 48 x 2	2" -12 UN	55	50	**W90HMO48HJOF24**





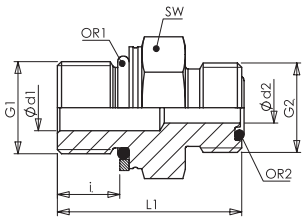


Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, AG ORFS, steel

Connection 1: metric cylindrical outer thread
Sealing form 1: O-ring and retaining ring
Standard connection 1: ISO 6149-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, AG ORFS, straight, steel

Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: flat seal with O-ring

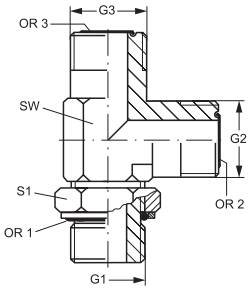
www ...GEHMOKHJOF

OR1	OR2	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
				mm	mm	mm	mm	mm	
8 x 1.6	7.65 x 1.78	M 10 x 1	9/16" -18 UNF	8.5	27	17	3	3	**GEHMOK10HJOF04**
9.3 x 2.2	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	9.6	28.5	17	4	4	**GEHMOK12HJOF04**
11.3 x 2.2	7.65 x 1.78	M 14 x 1.5	9/16" -18 UNF	9.6	29.5	19	4	4	**GEHMOK14HJOF04**
11.3 x 2.2	9.25 x 1.78	M 14 x 1.5	11/16" -16 UN	9.6	30.5	19	6	6	**GEHMOK14HJOF06**
13.3 x 2.2	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	11.1	33.5	22	6	6	**GEHMOK16HJOF06**
15.3 x 2.2	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	12.6	38	24	9	9	**GEHMOK18HJOF08**
19.3 x 2.2	12.42 x 1.78	M 22 x 1.5	13/16" -16 UN	13.6	39.5	27	12	9	**GEHMOK22HJOF08**
19.3 x 2.2	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	13.6	42	27	12	12	**GEHMOK22HJOF10**
23.6 x 2.2	15.60 x 1.78	M 27 x 2	1" -14 UNS	16	47	32	15	12	**GEHMOK27HJOF10**
23.6 x 2.9	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	16	48.5	32	15	15	**GEHMOK27HJOF12**
29.6 x 2.9	18.77 x 1.78	M 33 x 2	1.3/16" -12 UN	16	51.5	41	20	15	**GEHMOK33HJOF12**
29.6 x 2.9	23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	16	52	41	20	20	**GEHMOK33HJOF16**
29.6 x 2.9	29.87 x 1.78	M 33 x 2	1.11/16" -12 UN	16	53	46	20	26	**GEHMOK33HJOF20**
38.6 x 2.9	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	16.5	54.5	50	26	26	**GEHMOK42HJOF20**
44.6 x 2.9	29.87 x 1.78	M 48 x 2	1.11/16" -12 UN	19	57	55	32	26	**GEHMOK48HJOF20**
44.6 x 2.9	37.82 x 1.78	M 48 x 2	2" -12 UN	19	57	55	32	32	**GEHMOK48HJOF24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, L form, steel



Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: flat seal with O-ring

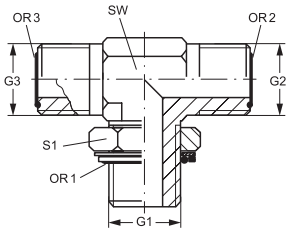
www ...LHMOKHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
9.4 x 2.1	7.66 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	**LHMOK12HJOF04**
13.4 x 2.1	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	19	**LHMOK16HJOF06**
15.4 x 2.1	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	24	19	**LHMOK18HJOF08**
19.4 x 2.1	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	**LHMOK22HJOF10**
23.7 x 2.8	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	**LHMOK27HJOF12**
29.7 x 2.8	23.52 x 1.78	M 33 x 2	1.7/16" -12 UN	41	36	**LHMOK33HJOF16**
38.7 x 2.8	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	**LHMOK42HJOF20**
46.7 x 2.8	37.82 x 1.78	M 48 x 2	2" -12 UN	55	48	**LHMOK48HJOF24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, T form, steel



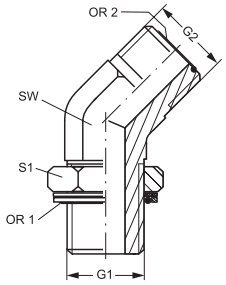
Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: flat seal with O-ring

www ...THMOKHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
9.4 x 2.1	7.66 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	**THMOK12HJOF04**
13.4 x 2.1	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	19	**THMOK16HJOF06**
15.4 x 2.1	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	24	19	**THMOK18HJOF08**
19.4 x 2.1	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	**THMOK22HJOF10**
23.7 x 2.8	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	**THMOK27HJOF12**
29.7 x 2.8	23.52 x 1.78	M 33 x 2	1.7/16" -12 UN	41	36	**THMOK33HJOF16**
38.7 x 2.8	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	**THMOK42HJOF20**
46.7 x 2.8	37.82 x 1.78	M 48 x 2	2" -12 UN	55	48	**THMOK48HJOF24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**



Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, elbow 45°, steel

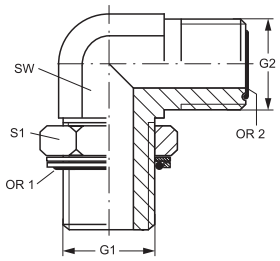
Connection 2: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: flat seal with O-ring

www ...W45HMOKHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
9.30 x 2.30	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	14	W45HMOK12HJOF04
13.30 x 2.30	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	19	19	W45HMOK16HJOF06
15.30 x 2.30	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	22	19	W45HMOK18HJOF08
19.30 x 2.30	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	27	27	W45HMOK22HJOF10
23.47 x 2.95	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	W45HMOK27HJOF12
29.74 x 2.95	23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	38	36	W45HMOK33HJOF16
38.00 x 3.00	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	W45HMOK42HJOF20
44.04 x 3.53	37.82 x 1.78	M 48 x 2	2" -12 UN	55	50	W45HMOK48HJOF24

Spare parts:

Retaining ring, metric, KAMMRING M	...KAMMRINGM



Stud connector, ISO 8434-3, AGM, ORK, ISO 6149, adjustable, AG ORFS, elbow 90°, steel

Connection 2: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: flat seal with O-ring

www ...W90HMOKHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
8.00 x 1.50	7.65 x 1.78	M 10 x 1	9/16" -18 UNF	15	14	W90HMOK10HJOF04
9.30 x 2.30	7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	18	14	W90HMOK12HJOF04
11.30 x 2.30	9.25 x 1.78	M 14 x 1.5	11/16" -16 UN	20	19	W90HMOK14HJOF06
13.30 x 2.30	9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	20	19	W90HMOK16HJOF06
15.30 x 2.30	12.42 x 1.78	M 18 x 1.5	13/16" -16 UN	25	19	W90HMOK18HJOF08
19.30 x 2.30	12.42 x 1.78	M 22 x 1.5	13/16" -16 UN	28	19	W90HMOK22HJOF08
19.30 x 2.30	15.60 x 1.78	M 22 x 1.5	1" -14 UNS	28	27	W90HMOK22HJOF10
23.47 x 2.95	15.60 x 1.78	M 27 x 2	1" -14 UNS	32	27	W90HMOK27HJOF10
23.47 x 2.95	18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	30	W90HMOK27HJOF12
29.74 x 2.95	18.77 x 1.78	M 33 x 2	1.3/16" -12 UN	42	30	W90HMOK33HJOF12
29.74 x 2.95	23.53 x 1.78	M 33 x 2	1.7/16" -12 UN	42	36	W90HMOK33HJOF16
38.00 x 3.00	23.53 x 1.78	M 42 x 2	1.7/16" -12 UN	50	36	W90HMOK42HJOF16
38.00 x 3.00	29.87 x 1.78	M 42 x 2	1.11/16" -12 UN	50	41	W90HMOK42HJOF20
44.04 x 3.53	29.87 x 1.78	M 48 x 2	1.11/16" -12 UN	56	41	W90HMOK48HJOF20
44.04 x 3.53	37.82 x 1.78	M 48 x 2	2" -12 UN	56	50	W90HMOK48HJOF24

Spare parts:

Retaining ring, metric, KAMMRING M	...KAMMRINGM

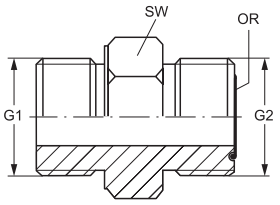
Stud connector, ISO 8434-3, AGM, AG ORFS, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type A
Sealing form 2: flat seal with O-ring
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEMHJOF



OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	M 12 x 1.5	9/16" -18 UNF	17	**GEM12HJOF04**
9.25 x 1.78	M 16 x 1.5	11/16" -16 UN	22	**GEM16HJOF06**
18.77 x 1.78	M 27 x 2	1.3/16" -12 UN	32	**GEM27HJOF12**

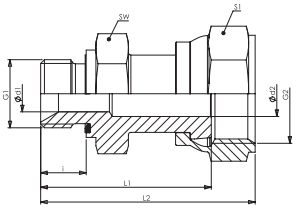
Stud connector, ISO 8434-3, AGR soft seal, ISO 1179, type E, DK ORFS, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: ORFS nut threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: flat seal
Standard connection 1: ISO 1179-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHREDAJF

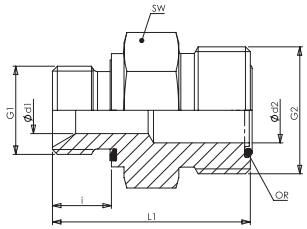


Working pressure	G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm		mm	mm	mm	
PN 500	G 1/8" -28	9/16" -18 UNF	8	30	37.5	19	14	3.5	3.5	**GEHRED02AJF04**
PN 500	G 1/4" -19	9/16" -18 UNF	12	38	45.5	19	19	4	4	**GEHRED04AJF**
PN 630	G 1/4" -19	11/16" -16 UN	12	39.5	48	22	19	4.7	6.5	**GEHRED04AJF06**
PN 630	G 1/4" -19	13/16" -16 UN	12	43.5	53.5	27	22	4.7	9	**GEHRED04AJF08**
PN 630	G 3/8" -19	11/16" -16 UN	12	40.5	49	22	22	6.5	6.5	**GEHRED06AJF**
PN 630	G 3/8" -19	13/16" -16 UN	12	44	54	27	22	7.9	7.9	**GEHRED06AJF08**
PN 420	G 1/2" -14	11/16" -16 UN	14	43.5	52	22	27	11.1	6.5	**GEHRED08AJF06**
PN 420	G 1/2" -14	13/16" -16 UN	14	47	57	27	27	11.1	9	**GEHRED08AJF**
PN 420	G 1/2" -14	1" -14 UNS	14	51.5	64	30	27	11.1	11.1	**GEHRED08AJF10**
PN 420	G 1/2" -14	1.3/16" -12 UN	14	52.5	66	36	32	11.1	14	**GEHRED08AJF12**
PN 420	G 3/4" -14	1" -14 UNS	16	54	66.5	30	32	16.7	11.5	**GEHRED12AJF10**
PN 400	G 3/4" -14	1.3/16" -12 UN	16	54.5	68	36	32	16.7	14	**GEHRED12AJF**
PN 400	G 1" -11	1.7/16" -12 UN	18	60.5	74	41	41	20	20	**GEHRED16AJF**
PN 350	G 1.1/4" -11	1.11/16" -12 UN	20	63	76.5	50	50	26	26	**GEHRED20AJF**
PN 280	G 1.1/2" -11	2" -12 UN	22	65	78.5	60	55	32	32	**GEHRED24AJF**

Spare parts:

Soft seal for ED fittings, WD	**...WD**





Stud connector, ISO 8434-3, AGR soft seal, ISO 1179, type E, AG ORFS, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: type E
Sealing form 2: flat seal with O-ring
Standard connection 1: ISO 1179-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GEHREDHJOF

OR	G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
7.65 x 1.78	G 1/8" -28	9/16" -18 UNF	8	27	17	3.5	3.5	GEHRED02HJOF04
9.25 x 1.78	G 1/8" -28	11/16" -16 UN	8	29	19	3.5	6.5	GEHRED02HJOF06
7.65 x 1.78	G 1/4" -19	9/16" -18 UNF	12	33	19	4.5	4.5	GEHRED04HJOF
9.25 x 1.78	G 1/4" -19	11/16" -16 UN	12	34	19	4.7	4.7	GEHRED04HJOF06
12.42 x 1.78	G 1/4" -19	13/16" -16 UN	12	36.5	22	4.7	9.5	GEHRED04HJOF08
7.65 x 1.78	G 3/8" -19	9/16" -18 UNF	12	34	22	7.9	4.5	GEHRED06HJOF04
9.25 x 1.78	G 3/8" -19	11/16" -16 UN	12	35	22	6.5	6.5	GEHRED06HJOF
12.42 x 1.78	G 3/8" -19	13/16" -16 UN	12	37	22	7.9	7.9	GEHRED06HJOF08
15.60 x 1.78	G 3/8" -19	1" -14 UNS	12	41.5	27	7.9	12.5	GEHRED06HJOF10
7.65 x 1.78	G 1/2" -14	9/16" -18 UNF	14	38.5	27	11.1	4.5	GEHRED08HJOF04
9.25 x 1.78	G 1/2" -14	11/16" -16 UN	14	39.5	27	11.1	6.5	GEHRED08HJOF06
12.42 x 1.78	G 1/2" -14	13/16" -16 UN	14	41.5	27	9.5	9.5	GEHRED08HJOF
15.60 x 1.78	G 1/2" -14	1" -14 UNS	14	44	27	11.1	11.1	GEHRED08HJOF10
18.77 x 1.78	G 1/2" -14	1.3/16" -12 UN	14	47	32	11.1	15.5	GEHRED08HJOF12
9.25 x 1.78	G 3/4" -14	11/16" -16 UN	16	43	32	16.7	6.5	GEHRED12HJOF06
12.42 x 1.78	G 3/4" -14	13/16" -16 UN	16	45	32	16.7	9.5	GEHRED12HJOF08
15.60 x 1.78	G 3/4" -14	1" -14 UNS	16	47.5	32	16.7	12.5	GEHRED12HJOF10
18.77 x 1.78	G 3/4" -14	1.3/16" -12 UN	16	49	32	15.5	15.5	GEHRED12HJOF
23.53 x 1.78	G 3/4" -14	1.7/16" -12 UN	16	51	41	16.7	20	GEHRED12HJOF16
15.60 x 1.78	G 1" -11	1" -14 UNS	18	51	41	22.2	12.5	GEHRED16HJOF10
18.77 x 1.78	G 1" -11	1.3/16" -12 UN	18	52.5	41	22.2	15.5	GEHRED16HJOF12
23.53 x 1.78	G 1" -11	1.7/16" -12 UN	18	53	41	20.5	20.5	GEHRED16HJOF
29.87 x 1.78	G 1" -11	1.11/16" -12 UN	18	55	46	22.2	26	GEHRED16HJOF20
23.53 x 1.78	G 1.1/4" -11	1.7/16" -12 UN	20	57.5	50	28.6	20.5	GEHRED20HJOF16
29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	20	57.5	50	26	26	GEHRED20HJOF
23.53 x 1.78	G 1.1/2" -11	1.7/16" -12 UN	22	60.5	55	33.3	20.5	GEHRED24HJOF16
29.87 x 1.78	G 1.1/2" -11	1.11/16" -12 UN	22	60.5	55	33.3	26	GEHRED24HJOF20
37.82 x 1.78	G 1.1/2" -11	2" -12 UN	22	60.5	55	32	32	GEHRED24HJOF

Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Stud connector, ISO 8434-3, AGR soft seal, ISO 1179, type E, AG ORFS, straight, stainless steel, GE HRED HJOF VA	**...GEHREDHJOFVA**

Stud connector, ISO 8434-3, AGR, OR, AG ORFS, steel

Connection 1: BSPP male thread, cylindric
Sealing form 1: type G
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

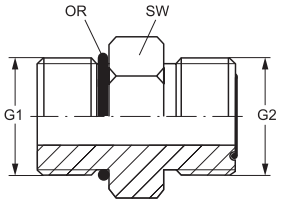






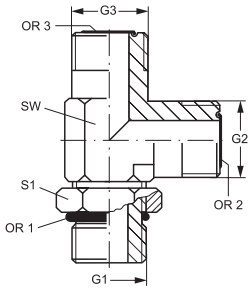
Stud connector, ISO 8434-3, AGR, OR, AG ORFS, straight, steel

Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 2: flat seal with O-ring



www ...GEHROHJOF

OR1	OR2	G1	G2	SW	Item no.
				mm	
7.65 x 1.78	7.65 x 1.78	G 1/8" -28	9/16" -18 UNF	16	GEHRO02HJOF04
7.65 x 1.78	9.25 x 1.78	G 1/8" -28	11/16" -16 UN	20	GEHRO02HJOF06
10.77 x 2.62	7.65 x 1.78	G 1/4" -19	9/16" -18 UNF	20	GEHRO04HJOF
10.77 x 2.62	9.25 x 1.78	G 1/4" -19	11/16" -16 UN	20	GEHRO04HJOF06
10.77 x 2.62	12.42 x 1.78	G 1/4" -19	13/16" -16 UN	24	GEHRO04HJOF08
13.94 x 2.62	7.65 x 1.78	G 3/8" -19	9/16" -18 UNF	24	GEHRO06HJOF04
13.94 x 2.62	9.25 x 1.78	G 3/8" -19	11/16" -16 UN	24	GEHRO06HJOF
13.94 x 2.62	12.42 x 1.78	G 3/8" -19	13/16" -16 UN	24	GEHRO06HJOF08
13.94 x 2.62	15.60 x 1.78	G 3/8" -19	1" -14 UNS	28	GEHRO06HJOF10
17.86 x 2.62	7.65 x 1.78	G 1/2" -14	9/16" -18 UNF	28	GEHRO08HJOF04
17.86 x 2.62	9.25 x 1.78	G 1/2" -14	11/16" -16 UN	28	GEHRO08HJOF06
17.86 x 2.62	12.42 x 1.78	G 1/2" -14	13/16" -16 UN	28	GEHRO08HJOF
17.86 x 2.62	15.60 x 1.78	G 1/2" -14	1" -14 UNS	28	GEHRO08HJOF10
17.86 x 2.62	18.77 x 1.78	G 1/2" -14	1.3/16" -12 UN	35	GEHRO08HJOF12
23.47 x 2.62	9.25 x 1.78	G 3/4" -14	11/16" -16 UN	35	GEHRO12HJOF06
23.47 x 2.62	12.42 x 1.78	G 3/4" -14	13/16" -16 UN	35	GEHRO12HJOF08
23.47 x 2.62	15.60 x 1.78	G 3/4" -14	1" -14 UNS	35	GEHRO12HJOF10
23.47 x 2.62	18.77 x 1.78	G 3/4" -14	1.3/16" -12 UN	35	GEHRO12HJOF
23.47 x 2.62	23.53 x 1.78	G 3/4" -14	1.7/16" -12 UN	43	GEHRO12HJOF16
29.75 x 3.53	18.77 x 1.78	G 1" -11	1.3/16" -12 UN	43	GEHRO16HJOF12
29.75 x 3.53	23.53 x 1.78	G 1" -11	1.7/16" -12 UN	43	GEHRO16HJOF
29.75 x 3.53	29.87 x 1.78	G 1" -11	1.11/16" -12 UN	45	GEHRO16HJOF20
37.69 x 3.53	18.77 x 1.78	G 1.1/4" -11	1.3/16" -12 UN	52	GEHRO20HJOF12
37.69 x 3.53	23.53 x 1.78	G 1.1/4" -11	1.7/16" -12 UN	52	GEHRO20HJOF16
37.69 x 3.53	29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	52	GEHRO20HJOF
44.04 x 3.53	29.87 x 1.78	G 1.1/2" -11	1.11/16" -12 UN	58	GEHRO24HJOF20
44.04 x 3.53	37.82 x 1.78	G 1.1/2" -11	2" -12 UN	58	GEHRO24HJOF

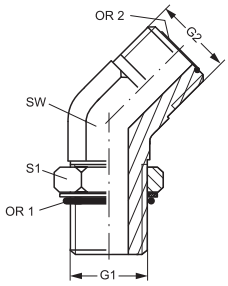


Stud connector, ISO 8434-3, AGR, OR, adjustable, AG ORFS, L form, steel

Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: flat seal with O-ring

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OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
23.47 x 2.62	15.60 x 1.78	G 3/4" -14	1" -14 UNS	36	30	**LHRO12HJOF10**
29.75 x 3.53	18.77 x 1.78	G 1" -11	1.3/16" -12 UN	41	36	**LHRO16HJOF12**



Stud connector, ISO 8434-3, AGR, OR, adjustable, AG ORFS, elbow 45°, steel

Connection 2: ORFS external threads
Construction type: screw-in socket
Type: angle 45°
Sealing form 2: flat seal with O-ring

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OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
37.69 x 3.53	29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	50	41	**W45HRO20HJOF**
44.04 x 3.53	37.82 x 1.78	G 1.1/2" -11	2" -12 UN	55	50	**W45HRO24HJOF**

Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, AG ORFS, steel





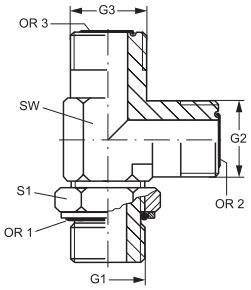


Connection 1: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Sealing form 1: O-ring and retaining ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2

Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, L form, steel



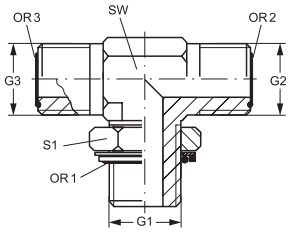
Connection 2 + 3: ORFS external threads
Type: L shape
Sealing form 2 + 3: flat seal with O-ring

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OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
8.00 x 2.00	7.65 x 1.78	G 1/8" -28	9/16" -18 UNF	14	14	**LHROK02HJOF04**
10.77 x 2.62	7.65 x 1.78	G 1/4" -19	9/16" -18 UNF	19	19	**LHROK04HJOF**
10.77 x 2.62	9.25 x 1.78	G 1/4" -19	11/16" -16 UN	19	19	**LHROK04HJOF06**
13.94 x 2.62	9.25 x 1.78	G 3/8" -19	11/16" -16 UN	22	19	**LHROK06HJOF**
13.94 x 2.62	12.42 x 1.78	G 3/8" -19	13/16" -16 UN	22	19	**LHROK06HJOF08**
17.86 x 2.62	12.42 x 1.78	G 1/2" -14	13/16" -16 UN	27	27	**LHROK08HJOF**
17.86 x 2.62	15.60 x 1.78	G 1/2" -14	1" -14 UNS	27	27	**LHROK08HJOF10**
23.47 x 2.62	18.77 x 1.78	G 3/4" -14	1.3/16" -12 UN	36	30	**LHROK12HJOF**
23.47 x 2.62	15.60 x 1.78	G 3/4" -14	1" -14 UNS	36	30	**LHROK12HJOF10**
29.75 x 3.53	23.52 x 1.78	G 1" -11	1.7/16" -12 UN	41	36	**LHROK16HJOF**
29.75 x 3.53	18.77 x 1.78	G 1" -11	1.3/16" -12 UN	41	36	**LHROK16HJOF12**
37.69 x 3.53	29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	50	41	**LHROK20HJOF**
44.04 x 3.53	37.82 x 1.78	G 1.1/2" -11	2" -12 UN	55	50	**LHROK24HJOF**

Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**



Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, T form, steel

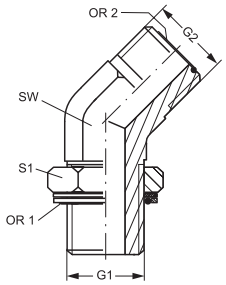
Connection 2 + 3: ORFS external threads
Type: T shape
Sealing form 2 + 3: flat seal with O-ring

...THROKHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
8.00 x 2.00	7.65 x 1.78	G 1/8" -28	9/16" -18 UNF	14	14	THROK02HJOF04
10.77 x 2.62	7.65 x 1.78	G 1/4" -19	9/16" -18 UNF	19	19	THROK04HJOF
10.70 x 2.62	9.25 x 1.78	G 1/4" -19	11/16" -16 UN	19	19	THROK04HJOF06
13.94 x 2.62	9.25 x 1.78	G 3/8" -19	11/16" -16 UN	22	19	THROK06HJOF
13.94 x 2.62	12.42 x 1.78	G 3/8" -19	13/16" -16 UN	22	19	THROK06HJOF08
17.86 x 2.62	12.42 x 1.78	G 1/2" -14	13/16" -16 UN	27	27	THROK08HJOF
17.86 x 2.62	15.60 x 1.78	G 1/2" -14	1" -14 UNS	27	27	THROK08HJOF10
23.47 x 2.62	12.42 x 1.78	G 3/4" -14	1.3/16" -12 UN	36	30	THROK12HJOF
23.47 x 2.62	15.60 x 1.78	G 3/4" -14	1" -14 UNS	36	30	THROK12HJOF10
29.75 x 3.53	23.52 x 1.78	G 1" -11	1.7/16" -12 UN	41	36	THROK16HJOF
37.69 x 3.53	29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	50	41	THROK20HJOF
44.04 x 3.53	37.82 x 1.78	G 1.1/2" -11	2" -12 UN	55	50	THROK24HJOF

Spare parts:

Retaining ring, imperial, KAMMRING G ...KAMMRINGG



Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, elbow 45°, steel

Connection 2: ORFS external threads
Type: angle 45°
Sealing form 2: flat seal with O-ring

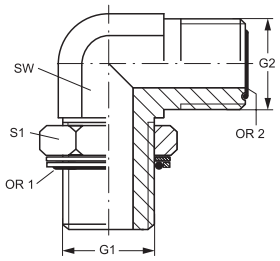
...W45HROKHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
8.00 x 2.00	7.65 x 1.78	G 1/8" -28	9/16" -18 UNF	14	14	W45HROK02HJOF04
10.77 x 2.62	7.65 x 1.78	G 1/4" -19	9/16" -18 UNF	19	19	W45HROK04HJOF
10.77 x 2.62	9.25 x 1.78	G 1/4" -19	11/16" -16 UN	19	19	W45HROK04HJOF06
13.94 x 2.62	9.25 x 1.78	G 3/8" -19	11/16" -16 UN	22	19	W45HROK06HJOF
13.94 x 2.62	12.42 x 1.78	G 3/8" -19	13/16" -16 UN	22	19	W45HROK06HJOF08
17.86 x 2.62	9.25 x 1.78	G 1/2" -14	11/16" -16 UN	27	27	W45HROK08HJOF06
17.86 x 2.62	12.42 x 1.78	G 1/2" -14	13/16" -16 UN	27	27	W45HROK08HJOF
17.86 x 2.62	15.60 x 1.78	G 1/2" -14	1" -14 UNS	27	27	W45HROK08HJOF10
23.47 x 2.62	15.60 x 1.78	G 3/4" -14	1" -14 UNS	36	30	W45HROK12HJOF10
23.47 x 2.62	18.77 x 1.78	G 3/4" -14	1.3/16" -12 UN	36	30	W45HROK12HJOF
29.75 x 3.53	18.77 x 1.78	G 1" -11	1.3/16" -12 UN	41	36	W45HROK16HJOF12
29.75 x 3.53	23.53 x 1.78	G 1" -11	1.7/16" -12 UN	41	36	W45HROK16HJOF
37.69 x 3.53	29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	50	41	W45HROK20HJOF
44.04 x 3.53	37.82 x 1.78	G 1.1/2" -11	2" -12 UN	55	50	W45HROK24HJOF

Spare parts:

Retaining ring, imperial, KAMMRING G ...KAMMRINGG

Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, elbow 90°, steel



Connection 2: ORFS external threads
Type: angle 90°
Sealing form 2: flat seal with O-ring

www ...W90HROKHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
8.00 x 2.00	7.65 x 1.78	G 1/8" -28	9/16" -18 UNF	14	14	**W90HROK02HJOF04**
10.77 x 2.62	7.65 x 1.78	G 1/4" -19	9/16" -18 UNF	19	19	**W90HROK04HJOF**
10.77 x 2.62	9.25 x 1.78	G 1/4" -19	11/16" -16 UN	19	19	**W90HROK04HJOF06**
10.77 x 2.62	12.42 x 1.78	G 1/4" -19	13/16" -16 UN	19	19	**W90HROK04HJOF08**
13.94 x 2.62	7.65 x 1.78	G 3/8" -19	9/16" -18 UNF	22	19	**W90HROK06HJOF04**
13.94 x 2.62	9.25 x 1.78	G 3/8" -19	11/16" -16 UN	22	19	**W90HROK06HJOF**
13.94 x 2.62	12.42 x 1.78	G 3/8" -19	13/16" -16 UN	22	19	**W90HROK06HJOF08**
13.94 x 2.62	15.60 x 1.78	G 3/8" -19	1" -14 UNS	22	27	**W90HROK06HJOF10**
17.86 x 2.62	9.25 x 1.78	G 1/2" -14	11/16" -16 UN	27	27	**W90HROK08HJOF06**
17.86 x 2.62	12.42 x 1.78	G 1/2" -14	13/16" -16 UN	27	27	**W90HROK08HJOF**
17.86 x 2.62	15.60 x 1.78	G 1/2" -14	1" -14 UNS	27	27	**W90HROK08HJOF10**
17.86 x 2.62	18.77 x 1.78	G 1/2" -14	1.3/16" -12 UN	27	30	**W90HROK08HJOF12**
23.47 x 2.62	12.42 x 1.78	G 3/4" -14	13/16" -16 UN	36	30	**W90HROK12HJOF08**
23.47 x 2.62	15.60 x 1.78	G 3/4" -14	1" -14 UNS	36	30	**W90HROK12HJOF10**
23.47 x 2.62	18.77 x 1.78	G 3/4" -14	1.3/16" -12 UN	36	30	**W90HROK12HJOF**
23.47 x 2.62	23.53 x 1.78	G 3/4" -14	1.7/16" -12 UN	36	36	**W90HROK12HJOF16**
29.75 x 3.53	15.60 x 1.78	G 1" -11	1" -14 UNS	41	36	**W90HROK16HJOF10**
29.75 x 3.53	18.77 x 1.78	G 1" -11	1.3/16" -12 UN	41	36	**W90HROK16HJOF12**
29.75 x 3.53	23.53 x 1.78	G 1" -11	1.7/16" -12 UN	41	36	**W90HROK16HJOF**
29.75 x 3.53	29.87 x 1.78	G 1" -11	1.11/16" -12 UN	41	41	**W90HROK16HJOF20**
37.69 x 3.53	23.53 x 1.78	G 1.1/4" -11	1.7/16" -12 UN	50	41	**W90HROK20HJOF16**
37.69 x 3.53	29.87 x 1.78	G 1.1/4" -11	1.11/16" -12 UN	50	41	**W90HROK20HJOF**
44.04 x 3.53	29.87 x 1.78	G 1.1/2" -11	1.11/16" -12 UN	55	50	**W90HROK24HJOF20**
44.04 x 3.53	37.82 x 1.78	G 1.1/2" -11	2" -12 UN	55	50	**W90HROK24HJOF**

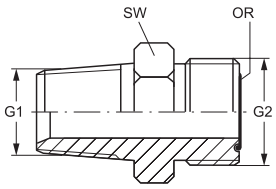
Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**

Product variants:

Stud connector, ISO 8434-3, AGR, ORK, ISO 1179, adjustable, AG ORFS, elbow 90°, stainless steel, W90 HROK HJOF VA	**...W90HROKHJOFVA**





Stud connector, ISO 8434-3, AGR tapered, DIN 3852-2, type C, AG ORFS, straight, steel

Connection 1: BSPT conical external threads
Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: thread seal
Sealing form 2: flat seal with O-ring
Standard connection 1: DIN 3852-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

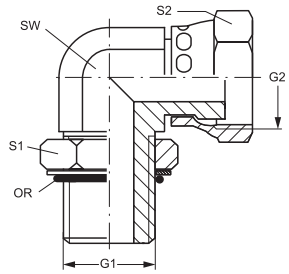
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

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OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	R 1/4" K	9/16" -18 UNF	17	GEHRK04HJOF
9.25 x 1.78	R 3/8" K	11/16" -16 UN	19	GEHRK06HJOF
12.42 x 1.78	R 1/2" K	13/16" -16 UN	22	GEHRK08HJOF
15.60 x 1.78	R 1/2" K	1" -14 UNS	27	GEHRK08HJOF10
18.77 x 1.78	R 3/4" K	1.3/16" -12 UN	32	GEHRK12HJOF
18.77 x 1.78	R 1" K	1.3/16" -12 UN	36	GEHRK16HJOF12
23.53 x 1.78	R 1" K	1.7/16" -12 UN	38	GEHRK16HJOF
29.87 x 1.78	R 1.1/4" K	1.11/16" -12 UN	48	GEHRK20HJOF
37.82 x 1.78	R 1.1/2" K	2" -12 UN	55	GEHRK24HJOF

Accessories:
PTFE sealing tape, TF BAND Page 494





Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, DK ORFS, elbow 90°, steel

Connection 1: UN/UNF external threads
Connection 2: ORFS nut threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: flat seal
Standard connection 1: ISO 11926-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

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OR	G1	G2	S1	S2	SW	Item no.
					mm	
8.92 x 1.83	7/16" -20 UNF	9/16" -18 UNF	16	18	14	W90O04AJF
11.90 x 1.98	9/16" -18 UNF	11/16" -16 UN	19	21	19	W90O06AJF
16.36 x 2.20	3/4" -16 UNF	13/16" -16 UN	24	24	19	W90O08AJF
19.18 x 2.46	7/8" -14 UNF	1" -14 UNS	27	29	27	W90O10AJF
23.47 x 2.95	1.1/16" -12 UN	1.3/16" -12 UN	35	35	27	W90O12AJF
29.74 x 2.95	1.5/16" -12 UN	1.7/16" -12 UN	41	41	33	W90O16AJF
37.47 x 3.00	1.5/8" -12 UN	1.11/16" -12 UN	48	48	41	W90O20AJF
43.69 x 3.00	1.7/8" -12 UN	2" -12 UN	54	57	48	W90O24AJF

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, AG ORFS, steel

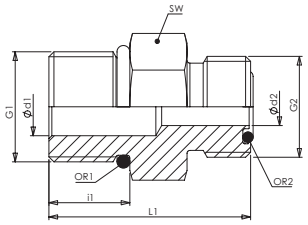






Connection 1: UN/UNF external threads
Standard connection 1: ISO 11926-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, AG ORFS, straight, steel



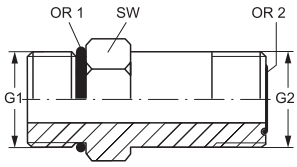
Connection 2: ORFS external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: flat seal with O-ring

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OR1	OR2	G1	G2	i1	L1	SW	Ø d1	Ø d2	Item no.
				mm	mm	mm	mm	mm	
9.17 x 1.83	7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	11.0	29.0	17	4.5	4.5	GEO04HJOF
9.17 x 1.83	9.25 x 1.78	7/16" -20 UNF	11/16" -16 UN	11.0	33.9	19	4.5	4.5	GEO04HJOF06
10.52 x 1.83	7.65 x 1.78	1/2" -20 UNF	9/16" -18 UNF	11.0	29.0	17	4.5	4.5	GEO05HJOF04
10.52 x 1.83	9.25 x 1.78	1/2" -20 UNF	11/16" -16 UN	11.0	30.6	19	6.5	6.5	GEO05HJOF06
11.89 x 1.98	7.65 x 1.78	9/16" -18 UNF	9/16" -18 UNF	12.0	29.7	17	7.5	4.5	GEO06HJOF04
11.89 x 1.98	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	12.0	31.7	19	6.5	6.5	GEO06HJOF
11.89 x 1.98	12.42 x 1.78	9/16" -18 UNF	13/16" -16 UN	12.0	37.7	22	7.5	7.5	GEO06HJOF08
16.36 x 2.21	7.65 x 1.78	3/4" -16 UNF	9/16" -18 UNF	14.0	33.8	22	10.0	4.5	GEO08HJOF04
16.36 x 2.21	9.25 x 1.78	3/4" -16 UNF	11/16" -16 UN	14.0	34.9	22	10.0	6.5	GEO08HJOF06
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	14.0	36.8	22	9.5	9.5	GEO08HJOF
16.36 x 2.21	15.60 x 1.78	3/4" -16 UNF	1" -14 UNS	14.0	45.2	27	10.0	10.0	GEO08HJOF10
16.36 x 2.21	18.77 x 1.78	3/4" -16 UNF	1.3/16" -12 UN	14.0	48.5	32	10.0	15.5	GEO08HJOF12
19.18 x 2.46	9.25 x 1.78	7/8" -14 UNF	11/16" -16 UN	16.0	38.3	27	12.5	6.5	GEO10HJOF06
19.18 x 2.46	12.42 x 1.78	7/8" -14 UNF	13/16" -16 UN	16.0	40.7	27	12.5	9.5	GEO10HJOF08
19.18 x 2.46	15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	16.0	43.1	27	12.5	12.5	GEO10HJOF
19.18 x 2.46	18.77 x 1.78	7/8" -14 UNF	1.3/16" -12 UN	16.0	50.5	32	12.5	12.5	GEO10HJOF12
23.47 x 2.95	12.42 x 1.78	1.1/16" -12 UN	13/16" -16 UN	18.5	40.5	32	15.5	9.5	GEO12HJOF08
23.47 x 2.95	15.60 x 1.78	1.1/16" -12 UN	1" -14 UNS	18.5	47.1	32	15.5	15.5	GEO12HJOF10
23.47 x 2.95	18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	18.5	48.6	32	15.5	15.5	GEO12HJOF
23.47 x 2.95	23.53 x 1.78	1.1/16" -12 UN	1.7/16" -12 UN	18.5	54.3	41	15.5	20.5	GEO12HJOF16
29.74 x 2.95	18.77 x 1.78	1.5/16" -12 UN	1.3/16" -12 UN	18.5	48.5	41	21.5	15.5	GEO16HJOF12
29.74 x 2.95	23.53 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	18.5	50.3	41	20.5	20.5	GEO16HJOF
29.74 x 2.95	29.87 x 1.78	1.5/16" -12 UN	1.11/16" -12 UN	18.5	52.0	46	21.5	26.0	GEO16HJOF20
37.47 x 3.00	23.53 x 1.78	1.5/8" -12 UN	1.7/16" -12 UN	18.5	52.3	50	27.5	20.5	GEO20HJOF16
37.47 x 3.00	29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	18.5	52.3	50	26.0	26.0	GEO20HJOF
37.47 x 3.00	37.82 x 1.78	1.5/8" -12 UN	2" -12 UN	18.5	60.0	55	27.5	32.0	GEO20HJOF24
43.69 x 3.00	29.87 x 1.78	1.7/8" -12 UN	1.11/16" -12 UN	18.5	54.1	55	33.5	26.0	GEO24HJOF20
43.69 x 3.00	37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	18.5	54.1	55	32.0	32.0	GEO24HJOF
59.36 x 3.00	48.90 x 2.62	2.1/2" -12 UN	2.1/2" -12 UN	19.0	59.0	70	40.0	45.0	GEO32HJOF

Product variants:

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, AG ORFS, straight, stainless steel, GE O HJOF VA	**...GEOHJOFVA**

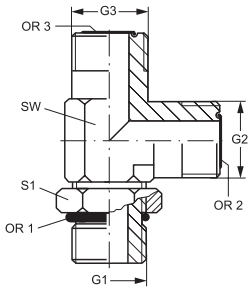


Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, AG ORFS, straight, long, steel

Connection 2: ORFS external threads
Construction type: screw-in socket, long
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: flat seal with O-ring

www ...GEOLHJOF

OR1	OR2	G1	G2	SW	Item no.
				mm	
8.92 x 1.83	7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	16	**GEOL04HJOF**
11.89 x 1.98	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	**GEOL06HJOF**
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	22	**GEOL08HJOF**
19.18 x 2.46	15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	27	**GEOL10HJOF**
23.47 x 2.95	18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	33	**GEOL12HJOF**
29.74 x 2.95	23.53 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	41	**GEOL16HJOF**
37.47 x 3.00	29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	48	**GEOL20HJOF**
43.69 x 3.00	37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	54	**GEOL24HJOF**



Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, L form, steel

Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 1: type F
Sealing form 2 + 3: flat seal with O-ring

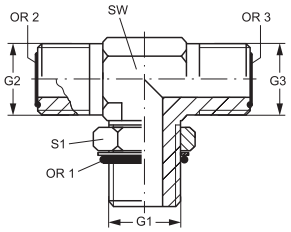
www ...LOHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
8.92 x 1.83	7.66 x 1.78	7/16" -20 UNF	9/16" -18 UNF	16	14	**LO04HJOF**
11.89 x 1.98	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	19	**LO06HJOF**
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	24	19	**LO08HJOF**
19.18 x 2.46	15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	27	27	**LO10HJOF**
23.47 x 2.95	18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	35	30	**LO12HJOF**
29.74 x 2.95	23.52 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	41	36	**LO16HJOF**
37.47 x 3.00	29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	48	41	**LO20HJOF**
43.69 x 3.00	37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	54	48	**LO24HJOF**

Product variants:

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, L-shaped, stainless steel, L O HJOF VA	**...LOHJOFVA**

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, T form, steel

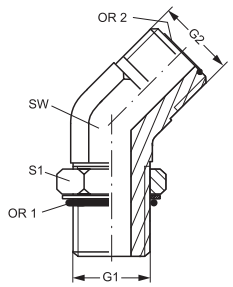


Connection 2 + 3: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2 + 3: flat seal with O-ring

www ...TOHJOF

OR1	OR2 + OR3	G1	G2 + G3	S1	SW	Item no.
					mm	
8.92 x 1.83	7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	16	14	**TO04HJOF**
11.89 x 1.98	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	19	**TO06HJOF**
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	24	19	**TO08HJOF**
19.18 x 2.46	15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	27	27	**TO10HJOF**
23.47 x 2.95	18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	36	30	**TO12HJOF**
29.74 x 2.95	23.52 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	41	37	**TO16HJOF**
37.47 x 3.00	29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	48	41	**TO20HJOF**
43.69 x 3.00	37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	54	48	**TO24HJOF**

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, elbow 45°, steel



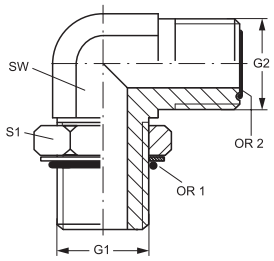
Connection 2: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: flat seal with O-ring

www ...W45OHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
8.92 x 1.83	7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	16	14	**W45O04HJOF**
8.92 x 1.83	9.25 x 1.78	7/16" -20 UNF	11/16" -16 UN	16	19	**W45O04HJOF06**
11.89 x 1.98	7.65 x 1.78	9/16" -18 UNF	9/16" -18 UNF	19	19	**W45O06HJOF04**
11.89 x 1.98	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	19	**W45O06HJOF**
11.89 x 1.98	12.42 x 1.78	9/16" -18 UNF	13/16" -16 UN	19	19	**W45O06HJOF08**
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	11/16" -16 UN	24	19	**W45O08HJOF06**
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	24	19	**W45O08HJOF**
16.36 x 2.21	15.60 x 1.78	3/4" -16 UNF	1" -14 UNS	24	27	**W45O08HJOF10**
19.18 x 2.46	12.42 x 1.78	7/8" -14 UNF	13/16" -16 UN	27	27	**W45O10HJOF08**
19.18 x 2.46	15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	27	27	**W45O10HJOF**
19.18 x 2.46	18.77 x 1.78	7/8" -14 UNF	1.3/16" -12 UN	27	30	**W45O10HJOF12**
23.47 x 2.95	15.60 x 1.78	1.1/16" -12 UN	1" -14 UNS	36	30	**W45O12HJOF10**
23.47 x 2.95	18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	35	30	**W45O12HJOF**
23.47 x 2.95	23.53 x 1.78	1.1/16" -12 UN	1.7/16" -12 UN	36	36	**W45O12HJOF16**
29.74 x 2.95	18.77 x 1.78	1.5/16" -12 UN	1.3/16" -12 UN	41	37	**W45O16HJOF12**
29.74 x 2.95	23.53 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	41	37	**W45O16HJOF**
37.47 x 3.00	23.53 x 1.78	1.5/8" -12 UN	1.7/16" -12 UN	48	41	**W45O20HJOF16**
37.47 x 3.00	29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	48	41	**W45O20HJOF**
43.69 x 3.00	29.87 x 1.78	1.7/8" -12 UN	1.11/16" -12 UN	54	48	**W45O24HJOF20**
43.69 x 3.00	37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	54	48	**W45O24HJOF**

Product variants:

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, elbow 45°, stainless steel, W45 O HJOF VA	**...W45OHJOFVA**



Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, elbow 90°, steel

Connection 2: ORFS external threads
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: flat seal with O-ring

www ...W90OHJOF

OR1	OR2	G1	G2	S1	SW	Item no.
					mm	
8.92 x 1.83	7.65 x 1.78	7/16" -20 UNF	9/16" -18 UNF	16	14	**W90O04HJOF**
8.92 x 1.83	9.25 x 1.78	7/16" -20 UNF	11/16" -16 UN	16	19	**W90O04HJOF06**
11.89 x 1.98	7.65 x 1.78	9/16" -18 UNF	9/16" -18 UNF	19	19	**W90O06HJOF04**
11.89 x 1.98	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	19	**W90O06HJOF**
11.89 x 1.98	12.42 x 1.78	9/16" -18 UNF	13/16" -16 UN	19	19	**W90O06HJOF08**
16.36 x 2.21	9.25 x 1.78	3/4" -16 UNF	11/16" -16 UN	24	19	**W90O08HJOF06**
16.36 x 2.21	12.42 x 1.78	3/4" -16 UNF	13/16" -16 UN	24	19	**W90O08HJOF**
16.36 x 2.21	15.60 x 1.78	3/4" -16 UNF	1" -14 UNS	24	27	**W90O08HJOF10**
16.36 x 2.21	18.77 x 1.78	3/4" -16 UNF	1.3/16" -12 UN	24	30	**W90O08HJOF12**
19.18 x 2.46	9.25 x 1.78	7/8" -14 UNF	11/16" -16 UN	27	22	**W90O10HJOF06**
19.18 x 2.46	12.42 x 1.78	7/8" -14 UNF	13/16" -16 UN	27	27	**W90O10HJOF08**
19.18 x 2.46	15.60 x 1.78	7/8" -14 UNF	1" -14 UNS	27	27	**W90O10HJOF**
19.18 x 2.46	18.77 x 1.78	7/8" -14 UNF	1.3/16" -12 UN	27	30	**W90O10HJOF12**
23.47 x 2.95	12.42 x 1.78	1.1/16" -12 UN	13/16" -16 UN	36	30	**W90O12HJOF08**
23.47 x 2.95	15.60 x 1.78	1.1/16" -12 UN	1" -14 UNS	35	30	**W90O12HJOF10**
23.47 x 2.95	18.77 x 1.78	1.1/16" -12 UN	1.3/16" -12 UN	36	30	**W90O12HJOF**
23.47 x 2.95	23.53 x 1.78	1.1/16" -12 UN	1.7/16" -12 UN	35	37	**W90O12HJOF16**
29.74 x 2.95	18.77 x 1.78	1.5/16" -12 UN	1.3/16" -12 UN	41	36	**W90O16HJOF12**
29.74 x 2.95	23.53 x 1.78	1.5/16" -12 UN	1.7/16" -12 UN	41	37	**W90O16HJOF**
29.74 x 2.95	29.87 x 1.78	1.5/16" -12 UN	1.11/16" -12 UN	41	41	**W90O16HJOF20**
37.47 x 3.00	23.53 x 1.78	1.5/8" -12 UN	1.7/16" -12 UN	48	41	**W90O20HJOF16**
37.47 x 3.00	29.87 x 1.78	1.5/8" -12 UN	1.11/16" -12 UN	48	41	**W90O20HJOF**
37.47 x 3.00	37.82 x 1.78	1.5/8" -12 UN	2" -12 UN	48	48	**W90O20HJOF24**
43.69 x 3.00	29.87 x 1.78	1.7/8" -12 UN	1.11/16" -12 UN	54	48	**W90O24HJOF20**
43.69 x 3.00	37.82 x 1.78	1.7/8" -12 UN	2" -12 UN	54	48	**W90O24HJOF**
59.36 x 3.00	48.90 x 2.62	2.1/2" -12 UN	2.1/2" -12 UN	70	64	**W90O32HJOF**

Product variants:

Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, AG ORFS, elbow 90°, stainless steel, W90 O HJOF VA	**...W90OHJOFVA**

Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, steel

Connection 1: NPT external threads
Connection 2: ORFS external threads
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: flat seal with O-ring
Standard connection 1: SAE J 514
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

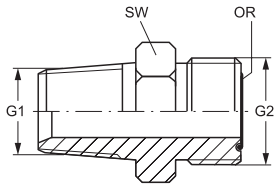






Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, straight, steel

Type: straight



www ...GEHNHJOF

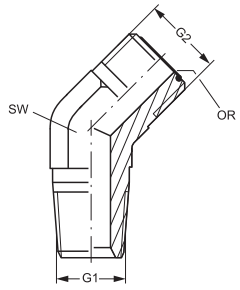
OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	1/8" -27 NPT	9/16" -18 UNF	16	**GEHN02HJOF04**
7.65 x 1.78	1/4" -18 NPT	9/16" -18 UNF	16	**GEHN04HJOF**
9.25 x 1.78	1/4" -18 NPT	11/16" -16 UN	19	**GEHN04HJOF06**
9.25 x 1.78	3/8" -18 NPT	11/16" -16 UN	19	**GEHN06HJOF**
12.42 x 1.78	3/8" -18 NPT	13/16" -16 UN	22	**GEHN06HJOF08**
9.25 x 1.78	1/2" -14 NPT	11/16" -16 UN	22	**GEHN08HJOF06**
12.42 x 1.78	1/2" -14 NPT	13/16" -16 UN	22	**GEHN08HJOF**
15.60 x 1.78	1/2" -14 NPT	1" -14 UNS	27	**GEHN08HJOF10**
12.42 x 1.78	3/4" -14 NPT	13/16" -16 UN	29	**GEHN12HJOF08**
15.60 x 1.78	3/4" -14 NPT	1" -14 UNS	29	**GEHN12HJOF10**
18.77 x 1.78	3/4" -14 NPT	1.3/16" -12 UN	32	**GEHN12HJOF**
23.53 x 1.78	3/4" -14 NPT	1.7/16" -12 UN	38	**GEHN12HJOF16**
18.77 x 1.78	1" -11.5 NPT	1.3/16" -12 UN	35	**GEHN16HJOF12**
23.53 x 1.78	1" -11.5 NPT	1.7/16" -12 UN	38	**GEHN16HJOF**
29.87 x 1.78	1.1/4" -11.5 NPT	1.11/16" -12 UN	48	**GEHN20HJOF**
37.82 x 1.78	1.1/2" -11.5 NPT	2" -12 UN	54	**GEHN24HJOF**

Product variants:

Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, straight, stainless steel, GE HN HJOF VA **...GEHNHJOFVA**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, elbow 45°, steel

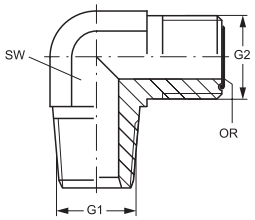
Type: angle 45°

www ...W45HNHJOF

OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	1/8" -27 NPT	9/16" -18 UNF	14	W45HN02HJOF04
7.65 x 1.78	1/4" -18 NPT	9/16" -18 UNF	14	W45HN04HJOF
9.25 x 1.78	1/4" -18 NPT	11/16" -16 UN	19	W45HN04HJOF06
7.65 x 1.78	3/8" -18 NPT	9/16" -18 UNF	19	W45HN06HJOF04
9.25 x 1.78	3/8" -18 NPT	11/16" -16 UN	19	W45HN06HJOF
12.42 x 1.78	3/8" -18 NPT	13/16" -16 UN	19	W45HN06HJOF08
9.25 x 1.78	1/2" -14 NPT	11/16" -16 UN	22	W45HN08HJOF06
12.42 x 1.78	1/2" -14 NPT	13/16" -16 UN	22	W45HN08HJOF
15.60 x 1.78	1/2" -14 NPT	1" -14 UNS	27	W45HN08HJOF10
18.77 x 1.78	3/4" -14 NPT	1.3/16" -12 UN	30	W45HN12HJOF
23.53 x 1.78	1" -11.5 NPT	1.7/16" -12 UN	37	W45HN16HJOF

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, elbow 90°, steel

Type: angle 90°

www ...W90HNHJOF

OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	1/8" -27 NPT	9/16" -18 UNF	14	W90HN02HJOF04
7.65 x 1.78	1/4" -18 NPT	9/16" -18 UNF	14	W90HN04HJOF
9.25 x 1.78	1/4" -18 NPT	11/16" -16 UN	19	W90HN04HJOF06
9.25 x 1.78	3/8" -18 NPT	11/16" -16 UN	19	W90HN06HJOF
12.42 x 1.78	3/8" -18 NPT	13/16" -16 UN	19	W90HN06HJOF08
9.25 x 1.78	1/2" -14 NPT	11/16" -16 UN	22	W90HN08HJOF06
12.42 x 1.78	1/2" -14 NPT	13/16" -16 UN	22	W90HN08HJOF
15.60 x 1.78	1/2" -14 NPT	1" -14 UNS	27	W90HN08HJOF10
18.77 x 1.78	1/2" -14 NPT	1.3/16" -12 UN	30	W90HN08HJOF12
12.42 x 1.78	3/4" -14 NPT	13/16" -16 UN	30	W90HN12HJOF08
15.60 x 1.78	3/4" -14 NPT	1" -14 UNS	30	W90HN12HJOF10
18.77 x 1.78	3/4" -14 NPT	1.3/16" -12 UN	30	W90HN12HJOF
23.53 x 1.78	3/4" -14 NPT	1.7/16" -12 UN	37	W90HN12HJOF16
18.77 x 1.78	1" -11.5 NPT	1.3/16" -12 UN	33	W90HN16HJOF12
23.53 x 1.78	1" -11.5 NPT	1.7/16" -12 UN	37	W90HN16HJOF
29.87 x 1.78	1.1/4" -11.5 NPT	1.11/16" -12 UN	41	W90HN20HJOF
37.82 x 1.78	1.1/2" -11.5 NPT	2" -12 UN	48	W90HN24HJOF

Product variants:

Stud connector, ISO 8434-3, AGN, SAE J 514, ORFS, elbow 90°, stainless steel, W90 HN HJOF VA **...W90HNHJOFVA**

Accessories:

PTFE sealing tape, TF BAND Page 494

Union connector, ISO 8434-2, DK ORFS, straight, steel

Construction type: connectors
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

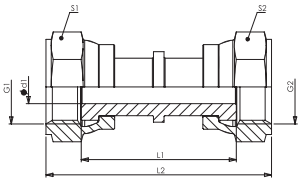
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.





Union connector, ISO 8434-3, DK ORFS, straight, steel

Connection 1: ORFS nut threads
Connection 2: ORFS nut threads
Type: straight
Sealing form 1: flat seal
Sealing form 2: flat seal

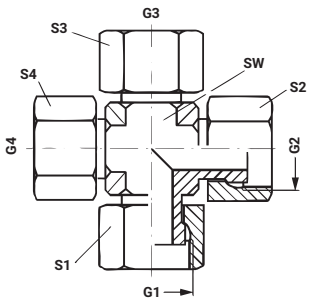


www ...GAJF

G1 + G2	L1	L2	S1	S2	SW	Ø d1	Ø d2	Item no.
	mm	mm			mm	mm	mm	
9/16" -18 UNF	34	49	19	19	17	4.5	4.5	**GAJF04**
11/16" -16 UN	37	54	22	22	19	6.5	6.5	**GAJF06**
13/16" -16 UN	44	64	27	27	22	9.5	9.5	**GAJF08**
1" -14 UNS	53	78	30	30	27	12.5	12.5	**GAJF10**
1.3/16" -12 UN	54	81	36	36	32	15.5	15.5	**GAJF12**
1.7/16" -12 UN	56	83	41	41	38	20.5	20.5	**GAJF16**
1.11/16" -12 UN	57	84	50	50	46	26	26	**GAJF20**
2" -12 UN	57	84	60	60	55	32	32	**GAJF24**

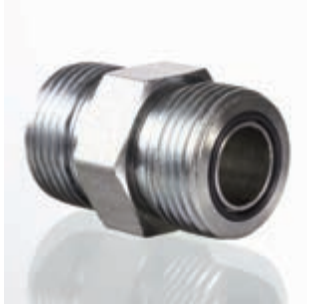
Union connector, ISO 8434-3, DK ORFS, cross shape, steel

Sealing form 1 - 4: flat seal
Connection 1 - 4: ORFS nut threads
Type: cross shape



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S1 - S4	G1 - G4	SW	Item no.
mm		mm	
17	9/16" -18 UNF	14	**KAJF04**
22	11/16" -16 UN	19	**KAJF06**
24	13/16" -16 UN	19	**KAJF08**
30	1" -14 UNS	27	**KAJF10**
36	1.3/16" -12 UN	30	**KAJF12**
41	1.7/16" -12 UN	37	**KAJF16**





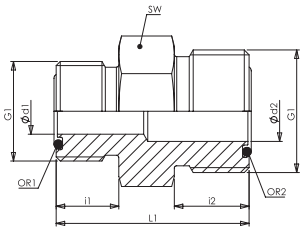


Union connector, ISO 8434-3, AG ORFS, steel

Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Union connector, ISO 8434-3, AG ORFS, straight, steel

Connection 1: ORFS external threads
Connection 2: ORFS external threads
Construction type: connection socket
Type: straight
Sealing form 1: flat seal with O-ring
Sealing form 2: flat seal with O-ring

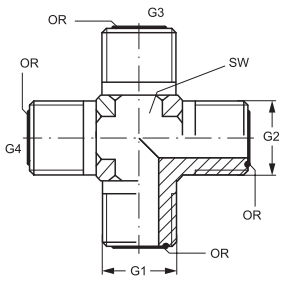
www ...GHJOF

OR1	OR2	G1	G2	i1	i2	L1	SW	Item no.
				mm	mm	mm	mm	
7.65 x 1.78	7.65 x 1.78	9/16" -18 UNF	9/16" -18 UNF	10	10	27.5	17	**GHJOF04**
7.65 x 1.78	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	10	11	30	19	**GHJOF04HJOF06**
9.25 x 1.78	9.25 x 1.78	11/16" -16 UN	11/16" -16 UN	11	11	31	19	**GHJOF06**
9.25 x 1.78	12.42 x 1.78	11/16" -16 UN	13/16" -16 UN	11	13	33.5	22	**GHJOF06HJOF08**
12.42 x 1.78	12.42 x 1.78	13/16" -16 UN	13/16" -16 UN	13	13	35.5	22	**GHJOF08**
12.42 x 1.78	15.60 x 1.78	13/16" -16 UN	1" -14 UNS	13	15.5	40	27	**GHJOF08HJOF10**
15.60 x 1.78	15.60 x 1.78	1" -14 UNS	1" -14 UNS	15.5	15.5	42.5	27	**GHJOF10**
15.60 x 1.78	18.77 x 1.78	1" -14 UNS	1.3/16" -12 UN	15.5	17	45.5	32	**GHJOF10HJOF12**
18.77 x 1.78	18.77 x 1.78	1.3/16" -12 UN	1.3/16" -12 UN	17	17	47	32	**GHJOF12**
18.77 x 1.78	23.53 x 1.78	1.3/16" -12 UN	1.7/16" -12 UN	17	17.5	49	41	**GHJOF12HJOF16**
23.53 x 1.78	23.53 x 1.78	1.7/16" -12 UN	1.7/16" -12 UN	17.5	17.5	49.5	41	**GHJOF16**
23.53 x 1.78	29.87 x 1.78	1.7/16" -12 UN	1.11/16" -12 UN	17.5	17.5	51.5	46	**GHJOF16HJOF20**
29.87 x 1.78	29.87 x 1.78	1.11/16" -12 UN	1.11/16" -12 UN	17.5	17.5	51.5	46	**GHJOF20**
37.82 x 1.78	37.82 x 1.78	2" -12 UN	2" -12 UN	17.5	17.5	53	55	**GHJOF24**
48.90 x 2.62	48.90 x 2.62	2.1/2" -12 UN	2.1/2" -12 UN	22	22	73	70	**GHJOF32**

Product variants:

Union connector, ISO 8434-3, AG ORFS, straight, stainless steel, G HJOF VA	**...GHJOFVA**

Union connector, ISO 8434-3, AG ORFS, cross shape, steel

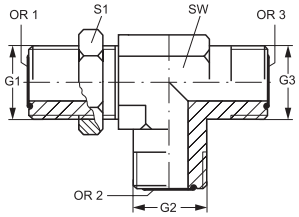


Sealing form 1 - 4: flat seal with O-ring
Connection 1 - 4: ORFS external threads
Construction type: fitting socket
Type: cross shape

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OR1 - OR4	G1 - G4	SW	Item no.
		mm	
7.66 x 1.78	9/16" -18 UNF	14	**KHJOF04**
9.25 x 1.78	11/16" -16 UN	19	**KHJOF06**
12.42 x 1.78	13/16" -16 UN	19	**KHJOF08**
15.60 x 1.78	1" -14 UNS	27	**KHJOF10**
18.77 x 1.78	1.3/16" -12 UN	30	**KHJOF12**
23.52 x 1.78	1.7/16" -12 UN	36	**KHJOF16**
29.87 x 1.78	1.11/16" -12 UN	41	**KHJOF20**
37.82 x 1.78	2" -12 UN	48	**KHJOF24**

Bulkhead connector, 8434-3, AG ORFS, L-shape, steel

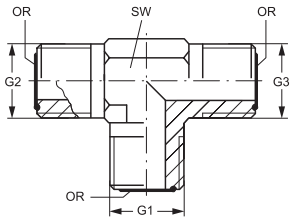


Connection 1 - 3: ORFS external threads
Construction type: adjustable bulkhead fitting socket
Type: L shape
Sealing form 1 - 3: flat seal with O-ring

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OR1 - OR3	G1 - G3	S1	SW	Item no.
			mm	
7.66 x 1.78	9/16" -18 UNF	22	14	**SLHJOF04**
9.25 x 1.78	11/16" -16 UN	27	19	**SLHJOF06**
12.42 x 1.78	13/16" -16 UN	30	19	**SLHJOF08**
15.60 x 1.78	1" -14 UNS	32	27	**SLHJOF10**
18.77 x 1.78	1.3/16" -12 UN	38	30	**SLHJOF12**
23.52 x 1.78	1.7/16" -12 UN	46	37	**SLHJOF16**
29.87 x 1.78	1.11/16" -12 UN	51	41	**SLHJOF20**
37.82 x 1.78	2" -12 UN	60	48	**SLHJOF24**

Union connector, ISO 8434-3, AG ORFS, T form, steel



Connection 1 - 3: ORFS external threads
Construction type: fitting socket
Type: T shape
Sealing form 1 - 3: flat seal with O-ring

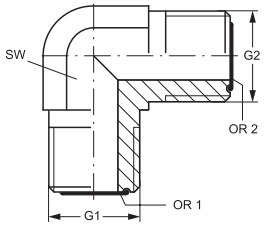
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OR1 - OR3	G1 - G3	SW	Item no.
		mm	
7.65 x 1.78	9/16" -18 UNF	14	**THJOF04**
9.25 x 1.78	11/16" -16 UN	19	**THJOF06**
12.42 x 1.78	13/16" -16 UN	19	**THJOF08**
15.60 x 1.78	1" -14 UNS	27	**THJOF10**
18.77 x 1.78	1.3/16" -12 UN	30	**THJOF12**
23.52 x 1.78	1.7/16" -12 UN	36	**THJOF16**
29.87 x 1.78	1.11/16" -12 UN	41	**THJOF20**
37.82 x 1.78	2" -12 UN	48	**THJOF24**
48.90 x 2.62	2.1/2" -12 UN	64	**THJOF32**

Product variants:

Union connector, ISO 8434-3, AG ORFS,T-shaped, stainless steel, T HJOF VA	**...THJOFVA**

Union connector, ISO 8434-3, AG ORFS, elbow 90°, steel



Connection 1: ORFS external threads
Connection 2: ORFS external threads
Construction type: fitting socket
Type: angle 90°
Sealing form 1: flat seal with O-ring
Sealing form 2: flat seal with O-ring

www ...W90HJOF

OR1	OR2	G1	G2	SW	Item no.
				mm	
7.65 x 1.78	7.65 x 1.78	9/16" -18 UNF	9/16" -18 UNF	14	**W90HJOF04**
7.65 x 1.78	9.25 x 1.78	9/16" -18 UNF	11/16" -16 UN	19	**W90HJOF04HJOF06**
9.25 x 1.78	9.25 x 1.78	11/16" -16 UN	11/16" -16 UN	19	**W90HJOF06**
9.25 x 1.78	12.42 x 1.78	11/16" -16 UN	13/16" -16 UN	19	**W90HJOF06HJOF08**
12.42 x 1.78	12.42 x 1.78	13/16" -16 UN	13/16" -16 UN	19	**W90HJOF08**
12.42 x 1.78	18.77 x 1.78	13/16" -16 UN	1.3/16" -12 UN	30	**W90HJOF08HJOF12**
15.60 x 1.78	15.60 x 1.78	1" -14 UNS	1" -14 UNS	27	**W90HJOF10**
18.77 x 1.78	18.77 x 1.78	1.3/16" -12 UN	1.3/16" -12 UN	30	**W90HJOF12**
23.53 x 1.78	23.53 x 1.78	1.7/16" -12 UN	1.7/16" -12 UN	36	**W90HJOF16**
29.87 x 1.78	29.87 x 1.78	1.11/16" -12 UN	1.11/16" -12 UN	41	**W90HJOF20**
37.82 x 1.78	37.82 x 1.78	2" -12 UN	2" -12 UN	48	**W90HJOF24**
48.90 x 2.62	48.90 x 2.62	2.1/2" -12 UN	2.1/2" -12 UN	64	**W90HJOF32**

Product variants:

Union connector, ISO 8434-3, AG ORFS, elbow 90°, stainless steel, W90 HJOF VA	**...W90HJOFVA**

Union connector, ISO 8434-2, DK ORFS, AG ORFS, steel

Connection 1: ORFS nut threads
Sealing form 1: flat seal
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

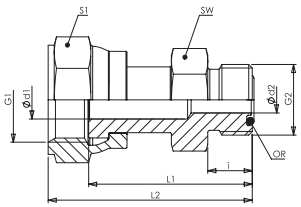






Union connector, ISO 8434-3, DK ORFS, AG ORFS, straight, steel

Connection 2: ORFS external threads
Construction type: connectors
Type: straight
Sealing form 2: flat seal with O-ring

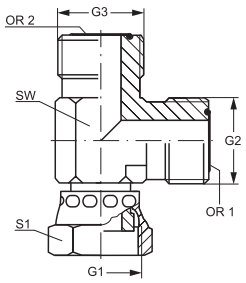


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OR	G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm		mm	mm	mm	
7.65 x 1.78	11/16" -16 UN	9/16" -18 UNF	10	35	43.5	22	17	6.5	4.5	**GAJF06HJOF04**
7.65 x 1.78	13/16" -16 UN	9/16" -18 UNF	10	39.5	49.5	27	22	9.5	4.5	**GAJF08HJOF04**
9.25 x 1.78	13/16" -16 UN	11/16" -16 UN	11	40.5	50.5	27	22	9.5	6.5	**GAJF08HJOF06**
7.65 x 1.78	1" -14 UNS	9/16" -18 UNF	10	45.5	58	30	27	12.5	4.5	**GAJF10HJOF04**
9.25 x 1.78	1" -14 UNS	11/16" -16 UN	11	46.5	59	30	27	12.5	6.5	**GAJF10HJOF06**
12.42 x 1.78	1" -14 UNS	13/16" -16 UN	13	48.5	61	30	27	12.5	9.5	**GAJF10HJOF08**
7.65 x 1.78	1.3/16" -12 UN	9/16" -18 UNF	10	46	59.5	36	32	15.5	4.5	**GAJF12HJOF04**
9.25 x 1.78	1.3/16" -12 UN	11/16" -16 UN	11	47	60.5	36	32	15.5	6.5	**GAJF12HJOF06**
12.42 x 1.78	1.3/16" -12 UN	13/16" -16 UN	13	49	62.5	36	32	15.5	9.5	**GAJF12HJOF08**
15.60 x 1.78	1.3/16" -12 UN	1" -14 UNS	15.5	51.5	65	36	32	15.5	12.5	**GAJF12HJOF10**
12.42 x 1.78	1.7/16" -12 UN	13/16" -16 UN	13	50	63.5	41	36	20.5	9.5	**GAJF16HJOF08**
15.60 x 1.78	1.7/16" -12 UN	1" -14 UNS	15.5	52.5	66	41	36	20.5	12.5	**GAJF16HJOF10**
18.77 x 1.78	1.7/16" -12 UN	1.3/16" -12 UN	17	54	67.5	41	36	20.5	15.5	**GAJF16HJOF12**
18.77 x 1.78	1.11/16" -12 UN	1.3/16" -12 UN	17	54.5	68	50	41	26	15.5	**GAJF20HJOF12**
23.53 x 1.78	1.11/16" -12 UN	1.7/16" -12 UN	17.5	55	68.5	50	41	26	20.5	**GAJF20HJOF16**
23.53 x 1.78	2" -12 UN	1.7/16" -12 UN	17.5	55	68.5	60	50	32	20.5	**GAJF24HJOF16**
29.87 x 1.78	2" -12 UN	1.11/16" -12 UN	17.5	55	68.5	60	50	32	26	**GAJF24HJOF20**

Product variants:

Union connector, ISO 8434-2, DK ORFS, AG ORFS, straight, stainless steel, G AJF HJOF VA	**...GAJFHJOFVA**

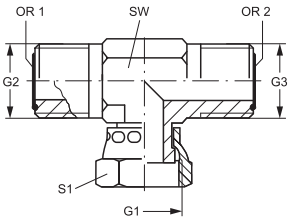


Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, L form, steel

Connection 2 + 3: ORFS external threads
Construction type: screw-on socket, adjustable
Type: L shape
Sealing form 2 + 3: flat seal with O-ring

...LAJFHJOF

OR1 + OR2	G1	G2 + G3	S1	SW	Item no.
				mm	
7.66 x 1.78	9/16" -18 UNF	9/16" -18 UNF	17	14	LAJF04HJOF
9.25 x 1.78	11/16" -16 UN	11/16" -16 UN	22	19	LAJF06HJOF
12.42 x 1.78	13/16" -16 UN	13/16" -16 UN	24	19	LAJF08HJOF
15.60 x 1.78	1" -14 UNS	1" -14 UNS	30	27	LAJF10HJOF
18.77 x 1.78	1.3/16" -12 UN	1.3/16" -12 UN	36	30	LAJF12HJOF
23.52 x 1.78	1.7/16" -12 UN	1.7/16" -12 UN	41	36	LAJF16HJOF
29.87 x 1.78	1.11/16" -12 UN	1.11/16" -12 UN	50	41	LAJF20HJOF
37.82 x 1.78	2" -12 UN	2" -12 UN	60	48	LAJF24HJOF

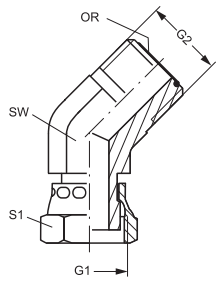


Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, T form, steel

Connection 2 + 3: ORFS external threads
Construction type: screw-on socket, adjustable
Type: T shape
Sealing form 2 + 3: flat seal with O-ring

...TAJFHJOF

OR1 + OR2	G1	G2 + G3	S1	SW	Item no.
				mm	
7.66 x 1.78	9/16" -18 UNF	9/16" -18 UNF	17	14	TAJF04HJOF
9.25 x 1.78	11/16" -16 UN	11/16" -16 UN	22	19	TAJF06HJOF
12.42 x 1.78	13/16" -16 UN	13/16" -16 UN	24	19	TAJF08HJOF
15.60 x 1.78	1" -14 UNS	1" -14 UNS	30	27	TAJF10HJOF
18.77 x 1.78	1.3/16" -12 UN	1.3/16" -12 UN	35	30	TAJF12HJOF
23.52 x 1.78	1.7/16" -12 UN	1.7/16" -12 UN	41	37	TAJF16HJOF
29.87 x 1.78	1.11/16" -12 UN	1.11/16" -12 UN	48	41	TAJF20HJOF
37.82 x 1.78	2" -12 UN	2" -12 UN	55	48	TAJF24HJOF



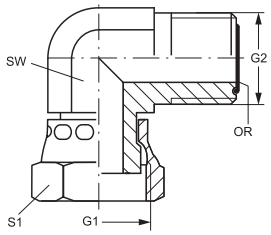
Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, elbow 45°, steel

Connection 2: ORFS external threads
Construction type: connectors
Type: angle 45°
Sealing form 2: flat seal with O-ring

...W45AJFHJOF

Working pressure	OR	G1 + G2	S1	SW	Item no.
				mm	
PN 630	7.65 x 1.78	9/16" -18 UNF	17	14	W45AJF04HJOF
PN 630	9.25 x 1.78	11/16" -16 UN	22	19	W45AJF06HJOF
PN 630	12.42 x 1.78	13/16" -16 UN	24	19	W45AJF08HJOF
PN 400	15.60 x 1.78	1" -14 UNS	30	27	W45AJF10HJOF
PN 400	18.77 x 1.78	1.3/16" -12 UN	36	30	W45AJF12HJOF
PN 400	23.53 x 1.78	1.7/16" -12 UN	41	36	W45AJF16HJOF
PN 250	29.87 x 1.78	1.11/16" -12 UN	50	41	W45AJF20HJOF
PN 250	37.82 x 1.78	2" -12 UN	60	48	W45AJF24HJOF

Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, elbow 90°, steel



Connection 2: ORFS external threads
Construction type: screw-on socket
Type: angle 90°
Sealing form 2: flat seal with O-ring

www ...W90AJFHJOF

OR	G1 + G2	S1	SW	Item no.
			mm	
7.65 x 1.78	9/16" -18 UNF	17	14	**W90AJF04HJOF**
9.25 x 1.78	11/16" -16 UN	22	19	**W90AJF06HJOF**
12.42 x 1.78	13/16" -16 UN	24	19	**W90AJF08HJOF**
15.60 x 1.78	1" -14 UNS	30	27	**W90AJF10HJOF**
18.77 x 1.78	1.3/16" -12 UN	36	30	**W90AJF12HJOF**
23.53 x 1.78	1.7/16" -12 UN	41	36	**W90AJF16HJOF**
29.87 x 1.78	1.11/16" -12 UN	50	41	**W90AJF20HJOF**
37.82 x 1.78	2" -12 UN	60	48	**W90AJF24HJOF**

Product variants:

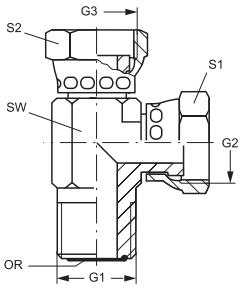
Swivel connector, ISO 8434-2, DK ORFS, AG ORFS, elbow 90°, stainless steel, W90 **...W90AJFHJOFVA**
AJF HJOF VA

Swivel connector, ISO 8434-3, AG ORFS, DK ORFS, L-shaped, steel



Connection 1: ORFS external threads
Connection 2 + 3: ORFS nut threads
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 1: flat seal with O-ring
Sealing form 2 + 3: flat seal
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

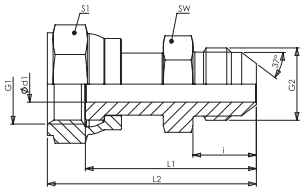
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...LHJOFAJF

OR	S1 + S2	G1	G2 + G3	SW	Item no.
	mm			mm	
7.65 x 1.78	17	9/16" -18 UNF	9/16" -18 UNF	14	**LHJOF04AJF**
9.25 x 1.78	22	11/16" -16 UN	11/16" -16 UN	19	**LHJOF06AJF**
12.42 x 1.78	24	13/16" -16 UN	13/16" -16 UN	19	**LHJOF08AJF**
15.60 x 1.78	30	1" -14 UNS	1" -14 UNS	27	**LHJOF10AJF**
18.77 x 1.78	35	1.3/16" -12 UN	1.3/16" -12 UN	30	**LHJOF12AJF**
23.53 x 1.78	41	1.7/16" -12 UN	1.7/16" -12 UN	37	**LHJOF16AJF**





Union connector, ISO 8434-3, DK ORFS, AGJ 37°, ISO 8434-2, straight, steel

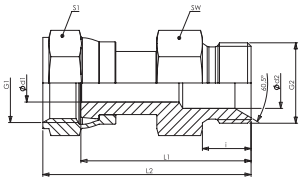
Connection 1: ORFS nut threads
Connection 2: UN/UNF external threads
Construction type: connectors
Type: straight
Sealing form 1: flat seal
Sealing form 2: 37° external cone
Standard connection 2: ISO 8434-2
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GAJFHJ

G1	G2	i	L1	L2	S1	SW	Ø d1	Item no.
		mm	mm	mm		mm	mm	
9/16" -18 UNF	7/16" -20 UNF	14	36.5	44	19	14	4.4	GAJF04HJ
11/16" -16 UN	9/16" -18 UNF	14.1	39	47.5	22	17	6.4	GAJF06HJ
13/16" -16 UN	3/4" -16 UNF	16.7	45	55	27	22	9.5	GAJF08HJ
1" -14 UNS	7/8" -14 UNF	19.3	53.5	66	30	24	12.3	GAJF10HJ
1.3/16" -12 UN	1.1/16" -12 UN	21.9	58.5	72	36	30	15.5	GAJF12HJ
1.7/16" -12 UN	1.5/16" -12 UN	23.1	60.5	74	41	36	20.5	GAJF16HJ





Union connector, ISO 8434-3, DK ORFS, AGR 60°, ISO 8434-6, straight, steel

Connection 1: ORFS nut threads
Connection 2: BSPP male thread, cylindric
Construction type: connectors
Type: straight
Sealing form 1: flat seal
Sealing form 2: 60° inner cone
Standard connection 2: ISO 8434-6
Standard: ISO 8434-3
ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...GAJFHB

G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
9/16" -18 UNF	G 1/4" -19	11	34.5	42	19	17	4.5	4.5	GAJF04HB
9/16" -18 UNF	G 3/8" -19	12	38.5	46	19	19	4.5	7.9	GAJF04HB06
11/16" -16 UN	G 1/4" -19	11	36	44.5	22	17	6.5	4.7	GAJF06HB04
11/16" -16 UN	G 3/8" -19	12	40	48.5	22	19	6.5	6.5	GAJF06HB
11/16" -16 UN	G 1/2" -14	14	42	50.5	22	22	6.5	11.1	GAJF06HB08
13/16" -16 UN	G 3/8" -19	12	43.5	53.5	27	24	7.9	7.9	GAJF08HB06
13/16" -16 UN	G 1/2" -14	14	45.5	55.5	27	22	9.5	9.5	GAJF08HB
1" -14 UNS	G 1/2" -14	14	50	62.5	30	24	11.1	11.1	GAJF10HB08
1" -14 UNS	G 5/8" -14	16	52	64.5	30	24	12.5	12.5	GAJF10HB
1" -14 UNS	G 3/4" -14	16	56	68.5	30	30	12.5	16.7	GAJF10HB12
1.3/16" -12 UN	G 3/4" -14	16	56.5	70	36	30	15.5	15.5	GAJF12HB
1.3/16" -12 UN	G 1" -11	19	59.5	73	36	36	15.5	22.2	GAJF12HB16
1.7/16" -12 UN	G 3/4" -14	16	57.5	71	41	36	20.5	16.7	GAJF16HB12
1.7/16" -12 UN	G 1" -11	19	60.5	74	41	36	20.5	20.5	GAJF16HB
1.7/16" -12 UN	G 1.1/4" -11	20	64.5	78	41	46	20.5	28.6	GAJF16HB20
1.11/16" -12 UN	G 1.1/4" -11	20	65	78.5	50	46	26	26	GAJF20HB
2" -12 UN	G 1.1/2" -11	22	67	80.5	60	50	32	32	GAJF24HB

Bulkhead connector, ISO 8434-3, AG ORFS, steel

Connection 1: ORFS external threads
Connection 2: ORFS external threads
Construction type: bulkhead fitting socket
Sealing form 1: flat seal with O-ring
Sealing form 2: flat seal with O-ring
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

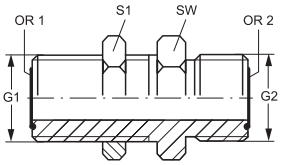






Bulkhead connector, ISO 8434-3, AG ORFS, straight, steel

Type: straight



www ...SVHJOF

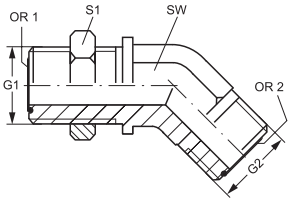
OR1 + OR2	G1 + G2	i1	L1	S1	S1	SW	Ø d	Item no.
		mm	mm	mm		mm		
7.66 x 1.78	9/16" -18 UNF	10	48	22	22	22	4.5 „	SVHJOF04
9.25 x 1.78	11/16" -16 UN	11	53	27	27	27	6.5 „	SVHJOF06
12.42 x 1.78	13/16" -16 UN	13	58.5	30	30	30	9.5 „	SVHJOF08
15.60 x 1.78	1" -14 UNS	15.5	66.5	36	36	36	12.5 „	SVHJOF10
18.77 x 1.78	1.3/16" -12 UN	17	69	41	41	41	15.5 „	SVHJOF12
23.52 x 1.78	1.7/16" -12 UN	17.5	70	46	46	46	20.5 „	SVHJOF16
29.87 x 1.78	1.11/16" -12 UN	17.5	70	50	50	50	26 „	SVHJOF20
37.82 x 1.78	2" -12 UN	17.5	70	60	60	60	32 „	SVHJOF24

Product variants:

Bulkhead connector, ISO 8434-3, AG ORFS, straight, stainless steel, SV HJOF VA	**...SVHJOFVA**

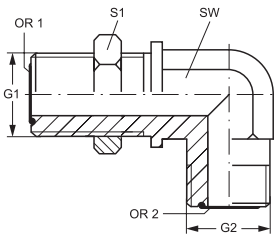
Bulkhead connector, ISO 8434-3, AG ORFS, elbow 45°, steel

Type: angle 45°



www ...SW45HJOF

OR1 + OR2	G1 + G2	S1	SW	Item no.
			mm	
7.66 x 1.78	9/16" -18 UNF	22	14	SW45HJOF04
9.25 x 1.78	11/16" -16 UN	27	19	SW45HJOF06
12.42 x 1.78	13/16" -16 UN	30	19	SW45HJOF08
15.60 x 1.78	1" -14 UNS	32	27	SW45HJOF10
18.77 x 1.78	1.3/16" -12 UN	38	30	SW45HJOF12
23.52 x 1.78	1.7/16" -12 UN	46	37	SW45HJOF16
29.87 x 1.78	1.11/16" -12 UN	51	41	SW45HJOF20
37.82 x 1.78	2" -12 UN	60	48	SW45HJOF24



Bulkhead connector, ISO 8434-3, AG ORFS, elbow 90°, steel

Type: angle 90°

...SWHJOF

OR1 + OR2	G1 + G2	S1	SW	Item no.
			mm	
7.66 x 1.78	9/16" -18 UNF	22	14	**SWHJOF04**
9.25 x 1.78	11/16" -16 UN	27	19	**SWHJOF06**
12.42 x 1.78	13/16" -16 UN	30	19	**SWHJOF08**
15.60 x 1.78	1" -14 UNS	32	27	**SWHJOF10**
18.77 x 1.78	1.3/16" -12 UN	38	30	**SWHJOF12**
23.52 x 1.78	1.7/16" -12 UN	46	37	**SWHJOF16**
29.87 x 1.78	1.11/16" -12 UN	51	41	**SWHJOF20**
37.82 x 1.78	2" -12 UN	48	60	**SWHJOF24**

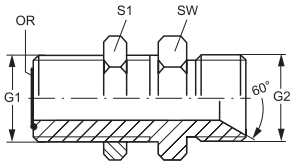
2



Bulkhead connector, ISO 8434-3, AG ORFS, AGR 60°, ISO 8434-6, straight, steel

Connection 1: ORFS external threads
Connection 2: BSPP male thread, cylindric
Construction type: bulkhead fitting socket
Type: straight
Sealing form 1: flat seal with O-ring
Sealing form 2: 60° inner cone
Standard connection 2: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



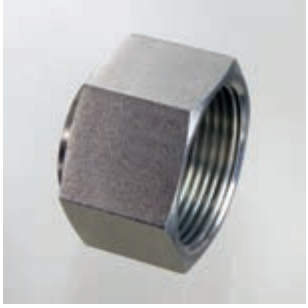
...SVHJOFHB

OR	G1	G2	S1	SW	Item no.
				mm	
9.25 x 1.78	11/16" -16 UN	G 3/8" -19	27	27	**SVHJOF06HB**
12.42 x 1.78	13/16" -16 UN	G 1/2" -14	30	27	**SVHJOF08HB**
18.77 x 1.78	1.3/16" -12 UN	G 3/4" -14	41	36	**SVHJOF12HB**
23.53 x 1.78	1.7/16" -12 UN	G 1" -11	46	41	**SVHJOF16HB**

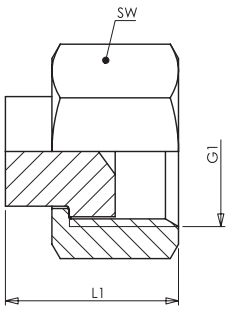
Cap, ISO 8434-3, DK ORFS, steel

Connection 1: ORFS nut threads
Construction type: blanking nut
Type: straight
Sealing form 1: flat seal
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSAJF



G1	L1	S1	SW	Item no.
	mm		mm	
9/16" -18 UNF	16.8	17	17	VERSCHLUSSAJF04
11/16" -16 UN	18.8	22	22	VERSCHLUSSAJF06
13/16" -16 UN	22.0	24	24	VERSCHLUSSAJF08
1" -14 UNS	26.0	30	30	VERSCHLUSSAJF10
1.3/16" -12 UN	28.6	36	36	VERSCHLUSSAJF12
1.7/16" -12 UN	29.5	41	41	VERSCHLUSSAJF16
1.11/16" -12 UN	29.5	50	50	VERSCHLUSSAJF20
2" -12 UN	29.5	60	60	VERSCHLUSSAJF24
2.1/2" -12 UN	37.0	75	75	VERSCHLUSSAJF32

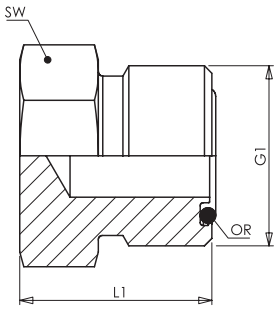
Plug, ISO 8434-3, AG ORFS, steel

Connection 1: ORFS external threads
Construction type: blanking socket
Sealing form 1: flat seal with O-ring
Standard: ISO 8434-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



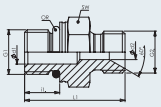
www ...VERSCHLUSSHJOF



OR	G1	i	L1	SW	Item no.
		mm	mm	mm	
7.65 x 1.78	9/16" -18 UNF	10.0	16.5	17	VERSCHLUSSHJOF04
9.25 x 1.78	11/16" -16 UN	11.0	19.0	19	VERSCHLUSSHJOF06
12.42 x 1.78	13/16" -16 UN	13.0	22.0	22	VERSCHLUSSHJOF08
15.60 x 1.78	1" -14 UNS	15.5	26.0	27	VERSCHLUSSHJOF10
18.77 x 1.78	1.3/16" -12 UN	17.0	27.5	32	VERSCHLUSSHJOF12
23.53 x 1.78	1.7/16" -12 UN	17.5	28.0	41	VERSCHLUSSHJOF16
29.87 x 1.78	1.11/16" -12 UN	17.5	28.0	46	VERSCHLUSSHJOF20
37.82 x 1.78	2" -12 UN	17.5	28.0	55	VERSCHLUSSHJOF24

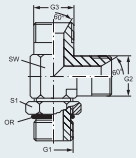
Stud connectors (60° BSP / ISO 8434-6 adaptors)

Metric



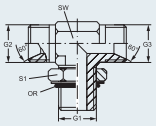
Stud connector, ISO 8434-6, AGM, OR, ISO 6149, AGR 60°, straight, steel

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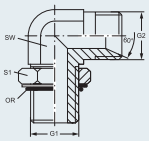
Stud connector, ISO 8434-6, AGM, OR, ISO 6149, adjustable, AGR 60°, L-shape, steel

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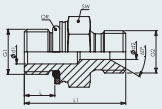
Stud connector, ISO 8434-6, AGM, OR, ISO 6149, adjustable, AGR 60°, T shape, steel

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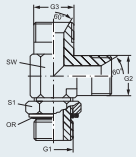
Stud connector, ISO 8434-6, AGM, OR, ISO 6149, adjustable, AGR 60°, elbow 90°, steel

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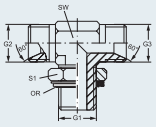
Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, AGR 60°, straight, steel

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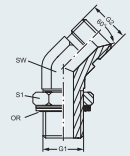
Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, L shape, steel

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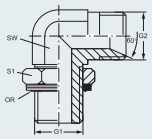
Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, T shape, steel

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Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, elbow 45°, steel

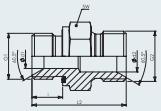
W45HMOKHB Page 320



Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, elbow 90°, steel

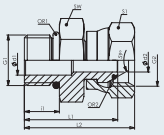
W90HMOKHB Page 320

BSP



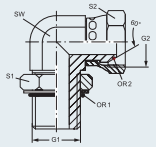
Stud connector, ISO 8434-6, AGR soft seal, ISO 1179, type E, AGR 60°, straight, steel

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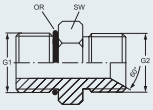
Stud connector, ISO 8434-6, AGR, OR, DKOR 60°, straight, steel

GEHROAOB Page 322



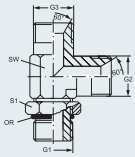
Stud connector, ISO 8434-6, AGR, OR, adjustable, DKOR 60°, elbow 90°, steel

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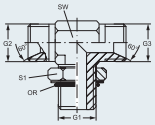
Stud connector, ISO 8434-6, AGR, OR, AGR 60°, straight, steel

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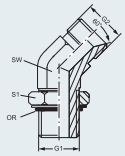
Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, L shape, steel

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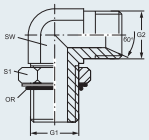
Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, T shape, steel

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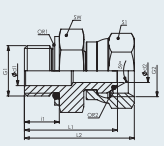
Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, elbow 45°, steel

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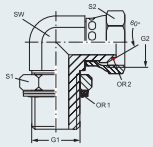
Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, elbow 90°, steel

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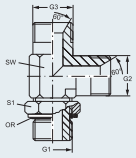
Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, DKOR 60°, straight, steel

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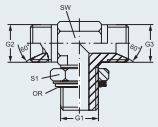
Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, DKOR 60°, elbow 90°, steel

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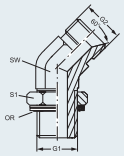
Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, L shape, steel

LHROKHB Page 327



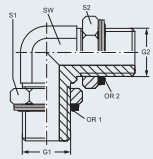
Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, T shape, steel

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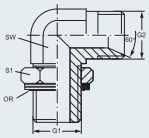
Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, elbow 45°, steel

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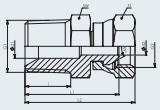
Stud connector, AGR, ORK, ISO 1179, adjustable, elbow 90°, steel

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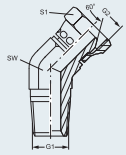
Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, elbow 90°, steel

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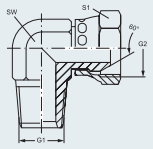
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, straight, steel

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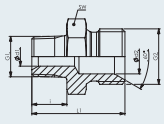
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, angle 45°, steel

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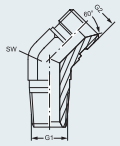
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, angle 90°, Steel

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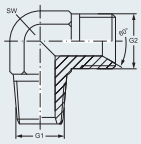
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, straight, steel

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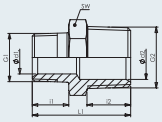
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, angle 45°, steel

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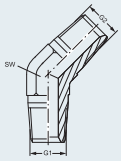
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, angle 90°, steel

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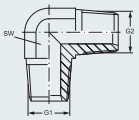
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, straight, steel

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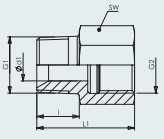
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, angle 45°, steel

W45HRK Page 335



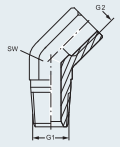
Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, angle 90°, steel

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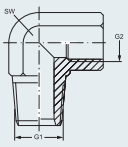
Stud connector, AGR tapered, DIN 3852-2, type C, IGR, straight, steel

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Stud connector, AGR tapered, DIN 3852-2, type C, IGR, angle 90°, steel

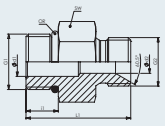
W45HRKIR Page 337



Stud connector, AGR tapered, DIN 3852-2, type C, IGR, angle 45°, steel

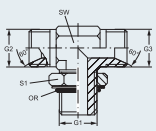
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UN / UNF



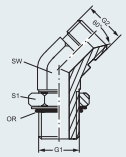
Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, AGR 60°, straight, steel

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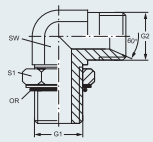
Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, adjustable, AGR 60°, T shape, steel

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Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, adjustable, AGR 60°, T form, steel

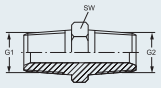
W45OHB Page 339



Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, adjustable, AGR 60°, elbow 90°, steel

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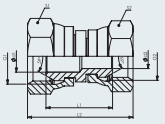
NPT



Stud connector, AGR tapered, DIN 3852-2, type C, AGN, SAE J 514, steel

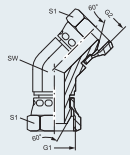
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Union connectors (60° BSP / ISO 8434-6 adaptors)



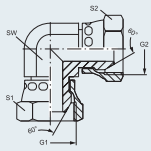
Union connector, ISO 8434-6, DKR 60°, straight, steel

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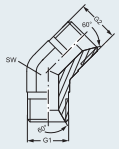
Swivel connector, ISO 8434-6, DKR 60°, elbow 45°, steel

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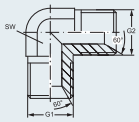
Swivel connector, ISO 8434-6, DKR 60°, elbow 90°, steel

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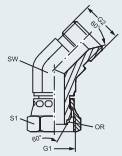
Union connector, ISO 8434-6, AGR 60°, elbow 45°, steel

W45HB Page 343



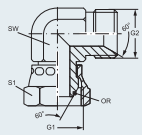
Union connector, ISO 8434-6, AGR 60°, elbow 90°, steel

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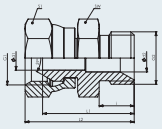
Swivel connector, ISO 8434-6, DKOR 60°, AGR 60°, elbow 45°, steel

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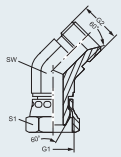
Swivel connector, ISO 8434-6, DKOR 60°, AGR 60°, elbow 90°, steel

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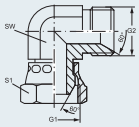
Union connector, ISO 8434-6, DKR 60°, AGR 60°, straight, steel

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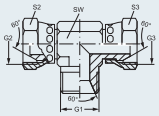
Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 45°, steel

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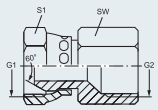
Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 90°, steel

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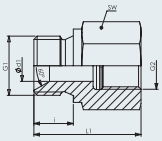
Union connector, ISO 8434-6, AGR 60°, DKR 60°, T shape, steel

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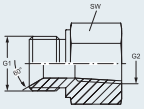
Union connector, ISO 8434-6, DKR 60°, IGR, straight, steel

GABIR Page 348



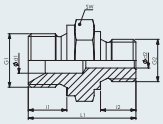
Union connector, ISO 8434-6, AGR 60°, IGR, straight, steel

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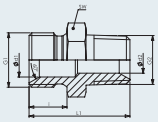
Union connector, ISO 8434-6, AGR 60°, IGR tapered, straight, steel

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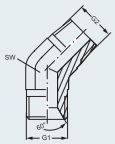
Union connector, ISO 8434-6, AGR 60°, AGR flat, straight, steel

GEHBHR Page 350



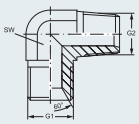
Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, straight, steel

GEHBHN Page 351



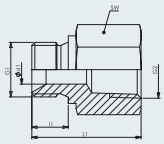
Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, elbow 45°, steel

W45HBHN Page 352



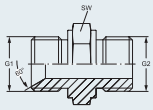
Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, elbow 90°, steel

W90HBHN Page 352



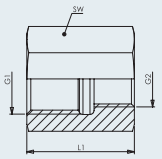
Union connector, ISO 8434-6, AGR, 60°, IGN, straight, steel

GHBIN Page 353



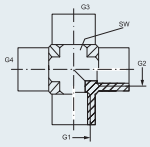
Union connector, ISO 8434-6, AGR 60°, AGM flat, straight, steel

GEHBM Page 353



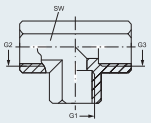
Union connector, IGR, straight, steel

GIR Page 354



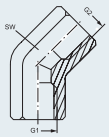
Union connector, IGR, cross shape, steel

KIR Page 355



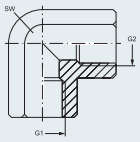
Union connector, IGR, T shape, steel

TIR Page 355



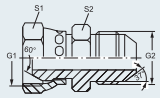
Union connector, IGR, elbow 45°, steel

W45IR Page 355



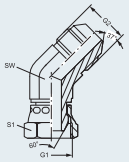
Union connector, IGR, elbow 90°, steel

W90IR Page 356



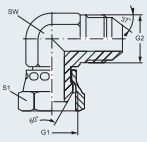
Union connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, straight, steel

GABHJ Page 356



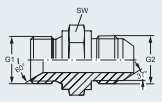
Swivel connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, elbow 45°, steel

W45ABHJ Page 357



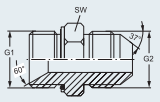
Swivel connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, elbow 90°, steel

W90ABHJ Page 357



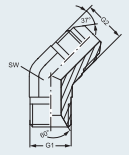
Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, straight, steel

GHBHJ Page 358



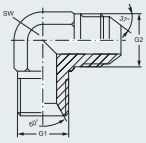
Union connector, ISO 8434-6, AGR soft seal, ISO 1179, type E, AGJ 37°, ISO 8434-2, straight, steel

GHBEDHJ Page 359



Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, elbow 45°, steel

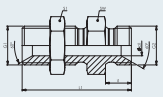
W45HBHJ Page 359



Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, elbow 90°, steel

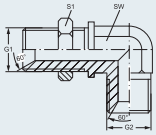
W90HBHJ Page 359

Bulkhead connectors (60° BSP / ISO 8434-6 adaptors)



Bulkhead connector, ISO 8434-6, AGR 60°, straight, steel

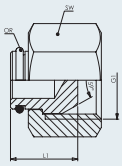
SVHB Page 360



Bulkhead connector, ISO 8434-6, AGR 60°, elbow 90°, steel

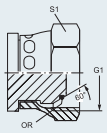
SWHB Page 361

Caps and plugs (60° BSP / ISO 8434-6 adaptors)



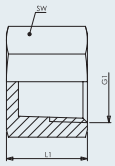
Cap, ISO 8434-6, DKR 60°, steel

VERSCHLUSSAB Page 361



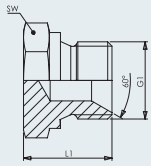
Cap, ISO 8434-6, DKOR 60°, steel

VERSCHLUSSAOB Page 362



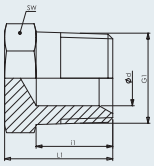
Cap, IGR, steel

VERSCHLUSSIR Page 362



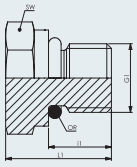
Plug, ISO 8434-6, AGR 60°, steel

VERSCHLUSSHB Page 363



Plug, hexagon head, AGR tapered, DIN 3852-2, type C, steel

VERSCHLUSSHRK Page 363



Plug, hexagon head, AGR, OR, steel

VERSCHLUSSHRO Page 364

Stud connector, ISO 8434-6, AGM, OR, ISO 6149, AGR 60°, steel

Connection 1: metric cylindrical outer thread
Standard connection 1: ISO 6149-3
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

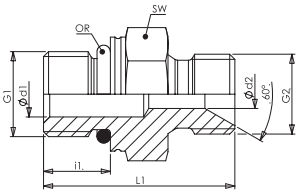






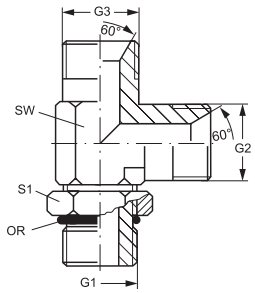
Stud connector, ISO 8434-6, AGM, OR, ISO 6149, AGR 60°, straight, steel

Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 60° inner cone



www ...GEHMOHB

OR	G1	G2	i1	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
8.00 x 1.50	M 10 x 1	G 1/8" -28	8.5	24	15	3.5	3.5	GEHMO10HB02
9.30 x 2.30	M 12 x 1.5	G 1/8" -28	11	27.5	18	6	3.5	GEHMO12HB02
9.30 x 2.30	M 12 x 1.5	G 1/4" -19	11	31.5	18	4.7	4.7	GEHMO12HB04
11.30 x 2.30	M 14 x 1.5	G 1/4" -19	11	31.5	20	7.5	4.5	GEHMO14HB04
11.30 x 2.30	M 14 x 1.5	G 3/8" -19	11	33.5	20	7.5	7.5	GEHMO14HB06
13.30 x 2.30	M 16 x 1.5	G 1/4" -19	11.5	33	22	9	4.7	GEHMO16HB04
13.30 x 2.30	M 16 x 1.5	G 3/8" -19	11.5	34	22	7.5	7.5	GEHMO16HB06
15.30 x 2.30	M 18 x 1.5	G 3/8" -19	12.5	12	24	11	7.5	GEHMO18HB06
15.30 x 2.30	M 18 x 1.5	G 1/2" -14	12.5	38	24	11	11	GEHMO18HB08
17.30 x 2.30	M 20 x 1.5	G 1/2" -14	14	40.5	28	11	11	GEHMO20HB08
19.30 x 2.30	M 22 x 1.5	G 1/2" -14	13	39.5	28	14	11	GEHMO22HB08
19.30 x 2.30	M 22 x 1.5	G 5/8" -14	13	41.5	28	14	14	GEHMO22HB10
19.30 x 2.30	M 22 x 1.5	G 3/4" -14	13	41.5	28	14	16.7	GEHMO22HB12
23.47 x 2.95	M 27 x 2	G 3/4" -14	16	44.5	33	16.7	16.7	GEHMO27HB12
23.47 x 2.95	M 27 x 2	G 1" -11	16	51.5	33	18	18	GEHMO27HB16
29.74 x 2.95	M 33 x 2	G 1" -11	16	52	42	22.2	22.2	GEHMO33HB16
38.00 x 3.00	M 42 x 2	G 1.1/4" -11	16	55	50	28.6	28.6	GEHMO42HB20
44.00 x 3.00	M 48 x 2	G 1.1/2" -11	17.5	59.5	56	33.3	33.3	GEHMO48HB24

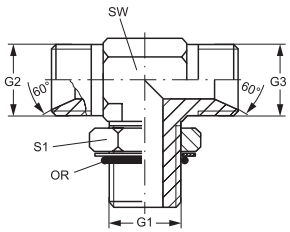


Stud connector, ISO 8434-6, AGM, OR, ISO 6149, adjustable, AGR 60°, L-shape, steel

Connection 2 + 3: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2 + 3: 60° inner cone

www ...LHMOHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
9.3 x 2.4	M 12 x 1.5	G 1/8" -28	18	14	LHMO12HB02
9.3 x 2.4	M 12 x 1.5	G 1/4" -19	18	14	LHMO12HB04
11.3 x 2.4	M 14 x 1.5	G 1/4" -19	20	14	LHMO14HB04
11.3 x 2.4	M 14 x 1.5	G 3/8" -19	20	19	LHMO14HB06
13.3 x 2.4	M 16 x 1.5	G 1/4" -19	22	19	LHMO16HB04
13.3 x 2.4	M 16 x 1.5	G 3/8" -19	22	19	LHMO16HB06
15.3 x 2.4	M 18 x 1.5	G 3/8" -19	24	19	LHMO18HB06
15.3 x 2.4	M 18 x 1.5	G 1/2" -14	24	19	LHMO18HB08
17.3 x 2.4	M 20 x 1.5	G 1/2" -14	28	27	LHMO20HB08
19.3 x 2.4	M 22 x 1.5	G 1/2" -14	28	22	LHMO22HB08
19.3 x 2.4	M 22 x 1.5	G 3/4" -14	28	22	LHMO22HB12



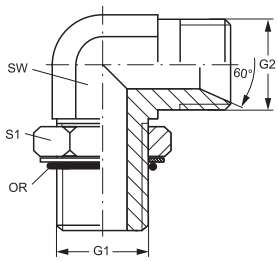
Stud connector, ISO 8434-6, AGM, OR, ISO 6149, adjustable, AGR 60°, T shape, steel

Connection 2 + 3: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 1: type F
Sealing form 2 + 3: 60° inner cone

www ...THMOHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
9.3 x 2.4	M 12 x 1.5	G 1/4" -19	18	13	THMO12HB04
11.3 x 2.4	M 14 x 1.5	G 1/4" -19	20	14	THMO14HB04
11.3 x 2.4	M 14 x 1.5	G 3/8" -19	20	19	THMO14HB06
13.3 x 2.4	M 16 x 1.5	G 3/8" -19	22	19	THMO16HB06
15.3 x 2.4	M 18 x 1.5	G 3/8" -19	24	19	THMO18HB06
15.3 x 2.4	M 18 x 1.5	G 1/2" -14	24	19	THMO18HB08
19.3 x 2.4	M 22 x 1.5	G 3/4" -14	28	27	THMO22HB12

Stud connector, ISO 8434-6, AGM, OR, ISO 6149, adjustable, AGR 60°, elbow 90°, steel



Connection 2: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 60° inner cone

www ...W90HMOHB

OR	G1	G2	S1	SW	Item no.
				mm	
8.00 x 1.50	M 10 x 1	G 1/8" -28	14	11	**W90HMO10HB02**
9.30 x 2.40	M 12 x 1.5	G 1/8" -28	14	18	**W90HMO12HB02**
9.30 x 2.40	M 12 x 1.5	G 1/4" -19	17	14	**W90HMO12HB04**
11.30 x 2.40	M 14 x 1.5	G 1/4" -19	19	17	**W90HMO14HB04**
11.30 x 2.40	M 14 x 1.5	G 3/8" -19	19	24	**W90HMO14HB06**
13.30 x 2.40	M 16 x 1.5	G 1/4" -19	20	17	**W90HMO16HB04**
13.30 x 2.40	M 16 x 1.5	G 3/8" -19	20	17	**W90HMO16HB06**
15.30 x 2.40	M 18 x 1.5	G 3/8" -19	24	19	**W90HMO18HB06**
15.30 x 2.40	M 18 x 1.5	G 1/2" -14	24	19	**W90HMO18HB08**
17.30 x 2.40	M 20 x 1.5	G 1/2" -14	27	19	**W90HMO20HB08**
19.30 x 2.40	M 22 x 1.5	G 1/2" -14	27	19	**W90HMO22HB08**
19.30 x 2.40	M 22 x 1.5	G 3/4" -14	27	27	**W90HMO22HB12**
29.74 x 2.95	M 33 x 2	G 1" -11	41	33	**W90HMO33HB16**
38.00 x 3.00	M 42 x 2	G 1.1/4" -11	50	41	**W90HMO42HB20**
44.00 x 3.00	M 48 x 2	G 1.1/2" -11	55	48	**W90HMO48HB24**





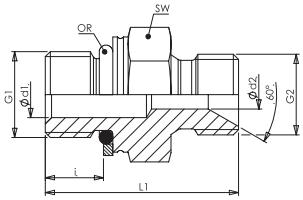


Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, AGR 60°, steel

Connection 1: metric cylindrical outer thread
Sealing form 1: O-ring and retaining ring
Standard connection 1: ISO 6149-3
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, AGR 60°, straight, steel

Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 2: 60° inner cone

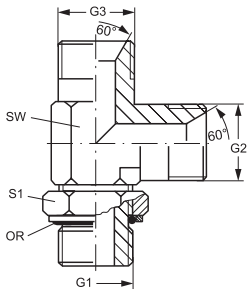
www ...GEHMOKHB

OR	G1	G2	i1	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
8.1 x 1.6	M 10 x 1	G 1/8" -28	7.5	24	14	3.5	3.5	GEHMOK10HB02
9.3 x 2.2	M 12 x 1.5	G 1/8" -28	9.6	27.5	17	6	3.5	GEHMOK12HB02
9.3 x 2.2	M 12 x 1.5	G 1/4" -19	9.6	31.5	19	4.7	4.7	GEHMOK12HB04
11.3 x 2.2	M 14 x 1.5	G 1/4" -19	9.6	31.5	19	7.5	4.7	GEHMOK14HB04
11.3 x 2.2	M 14 x 1.5	G 3/8" -19	9.6	33.5	22	7.5	7.5	GEHMOK14HB06
13.3 x 2.2	M 16 x 1.5	G 1/4" -19	10.1	33	22	9	4.7	GEHMOK16HB04
13.3 x 2.2	M 16 x 1.5	G 3/8" -19	10.1	34	22	7.5	7.5	GEHMOK16HB06
15.3 x 2.2	M 18 x 1.5	G 3/8" -19	11.1	36	24	11	7.5	GEHMOK18HB06
15.3 x 2.2	M 18 x 1.5	G 1/2" -14	11.1	38	24	11	11	GEHMOK18HB08
17.3 x 2.2	M 20 x 1.5	G 1/2" -14	12.6	40.5	27	11	11	GEHMOK20HB08
19.3 x 2.2	M 22 x 1.5	G 1/2" -14	11.6	39.5	27	14	11	GEHMOK22HB08
19.3 x 2.2	M 22 x 1.5	G 5/8" -14	11.6	41.5	27	14	14	GEHMOK22HB10
19.3 x 2.2	M 22 x 1.5	G 3/4" -14	11.6	41.5	32	14	16.7	GEHMOK22HB12
23.6 x 2.9	M 26 x 1.5	G 3/4" -14	13.5	44.5	32	16.7	16.7	GEHMOK26HB12
23.6 x 2.9	M 27 x 2	G 3/4" -14	13.5	44.5	32	16.7	16.7	GEHMOK27HB12
23.6 x 2.9	M 27 x 2	G 1" -11	13.5	51.5	41	18	18	GEHMOK27HB16
29.6 x 2.9	M 33 x 2	G 1" -11	13.5	52	41	22.2	22.2	GEHMOK33HB16
38.6 x 2.9	M 42 x 2	G 1.1/4" -11	13.5	55	50	28.6	28.6	GEHMOK42HB20
44.6 x 2.9	M 48 x 2	G 1.1/2" -11	15	59.5	55	33.3	33.3	GEHMOK48HB24

Spare parts:

Retaining ring, metric, KAMMRING M	...KAMMRINGM

Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, L shape, steel



Connection 2 + 3: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: L shape
Sealing form 2 + 3: 60° inner cone

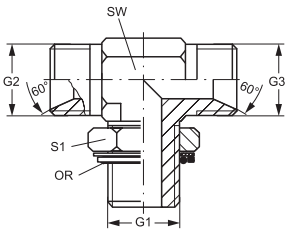
www ...LHMOKHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
9.3 x 2.4	M 12 x 1.5	G 1/8" -28	18	13	**LHMOK12HB02**
9.3 x 2.4	M 12 x 1.5	G 1/4" -19	18	14	**LHMOK12HB04**
11.3 x 2.4	M 14 x 1.5	G 1/4" -19	20	14	**LHMOK14HB04**
11.3 x 2.4	M 14 x 1.5	G 3/8" -19	20	19	**LHMOK14HB06**
13.3 x 2.4	M 16 x 1.5	G 1/4" -19	22	19	**LHMOK16HB04**
13.3 x 2.4	M 16 x 1.5	G 3/8" -19	22	19	**LHMOK16HB06**
15.3 x 2.4	M 18 x 1.5	G 3/8" -19	24	22	**LHMOK18HB06**
15.3 x 2.4	M 18 x 1.5	G 1/2" -14	24	22	**LHMOK18HB08**
17.3 x 2.4	M 20 x 1.5	G 1/2" -14	28	22	**LHMOK20HB08**
19.3 x 2.4	M 22 x 1.5	G 1/2" -14	28	22	**LHMOK22HB08**
19.3 x 2.4	M 22 x 1.5	G 3/4" -14	28	27	**LHMOK22HB12**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, T shape, steel



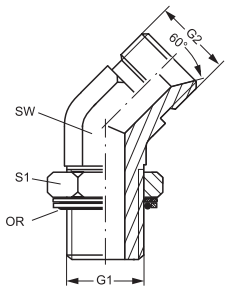
Connection 2 + 3: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 60° inner cone

www ...THMOKHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
9.3 x 2.4	M 12 x 1.5	G 1/4" -19	18	13	**THMOK12HB04**
11.3 x 2.4	M 14 x 1.5	G 1/4" -19	20	14	**THMOK14HB04**
11.3 x 2.4	M 14 x 1.5	G 3/8" -19	20	14	**THMOK14HB06**
13.3 x 2.4	M 16 x 1.5	G 3/8" -19	22	19	**THMOK16HB06**
15.3 x 2.4	M 18 x 1.5	G 3/8" -19	24	19	**THMOK18HB06**
15.3 x 2.4	M 18 x 1.5	G 1/2" -14	24	19	**THMOK18HB08**
19.3 x 2.4	M 22 x 1.5	G 3/4" -14	28	22	**THMOK22HB12**
23.5 x 2.6	M 26 x 1.5	G 3/4" -14	28	32	**THMOK26HB12**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**



Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, elbow 45°, steel

Connection 2: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 60° inner cone

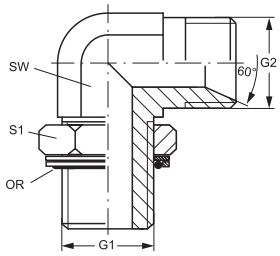
...W45HMOKHB

OR	G1	G2	S1	SW	Item no.
				mm	
44.0 x 3.0	M 48 x 2	G 1.1/2" -11	55	50	**W45HMOK48HB24**

Spare parts:

Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

2



Stud connector, ISO 8434-6, AGM, ORK, ISO 6149, adjustable, AGR 60°, elbow 90°, steel

Connection 2: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: 60° inner cone

...W90HMOKHB

OR	G1	G2	S1	SW	Item no.
				mm	
8.00 x 1.50	M 10 x 1	G 1/8" -28	15	11	**W90HMOK10HB02**
9.30 x 2.40	M 12 x 1.5	G 1/8" -28	18	14	**W90HMOK12HB02**
9.30 x 2.40	M 12 x 1.5	G 1/4" -19	18	14	**W90HMOK12HB04**
11.30 x 2.40	M 14 x 1.5	G 1/4" -19	20	14	**W90HMOK14HB04**
11.30 x 2.40	M 14 x 1.5	G 3/8" -19	20	14	**W90HMOK14HB06**
13.30 x 2.40	M 16 x 1.5	G 1/4" -19	20	19	**W90HMOK16HB04**
13.30 x 2.40	M 16 x 1.5	G 3/8" -19	20	19	**W90HMOK16HB06**
15.30 x 2.40	M 18 x 1.5	G 3/8" -19	25	19	**W90HMOK18HB06**
15.30 x 2.40	M 18 x 1.5	G 1/2" -14	25	19	**W90HMOK18HB08**
17.30 x 2.40	M 20 x 1.5	G 1/2" -14	28	27	**W90HMOK20HB08**
19.30 x 2.40	M 22 x 1.5	G 1/2" -14	28	27	**W90HMOK22HB08**
19.30 x 2.40	M 22 x 1.5	G 5/8" -14	28	27	**W90HMOK22HB10**
19.30 x 2.40	M 22 x 1.5	G 3/4" -14	28	27	**W90HMOK22HB12**
23.50 x 2.60	M 26 x 1.5	G 3/4" -14	33	30	**W90HMOK26HB12**
23.47 x 2.95	M 27 x 2	G 3/4" -14	33	30	**W90HMOK27HB12**
29.74 x 2.95	M 33 x 2	G 1" -11	42	36	**W90HMOK33HB16**
38.00 x 3.00	M 42 x 2	G 1.1/4" -11	50	41	**W90HMOK42HB20**
44.00 x 3.00	M 48 x 2	G 1.1/2" -11	56	50	**W90HMOK48HB24**

Spare parts:

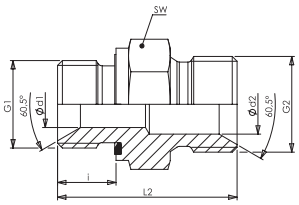
Retaining ring, metric, KAMMRING M	**...KAMMRINGM**

Stud connector, ISO 8434-6, AGR soft seal, ISO 1179, type E, AGR 60°, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone type E
Sealing form 2: 60° inner cone
Standard connection 1: ISO 1179-2
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Can be used as a screwing agent with ED and as a connector with 60° inside taper
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHREDHB

G1	G2	i	L1	L2	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	mm	
G 1/8" -28	G 1/8" -28	8	24.0	22.5	14	3.5	3.5	**GEHRED02HB**
G 1/4" -19	G 1/8" -28	12	28.5	29	19	4.7	3.5	**GEHRED04HB02**
G 1/4" -19	G 1/4" -19	12	33.0	32	19	4.7	4.7	**GEHRED04HB**
G 1/4" -19	G 3/8" -19	12	34.5	33	19	4.7	7.9	**GEHRED04HB06**
G 3/8" -19	G 1/4" -19	12	33.5	33.5	22	7.9	4.7	**GEHRED06HB04**
G 3/8" -19	G 3/8" -19	12	35.0	34.5	22	7.9	7.9	**GEHRED06HB**
G 3/8" -19	G 1/2" -14	12	38.5	36.5	22	7.9	11.1	**GEHRED06HB08**
G 1/2" -14	G 3/8" -19	14	37.5	39	27	11.1	7.9	**GEHRED08HB06**
G 1/2" -14	G 1/2" -14	14	41.0	41	27	11.1	11.1	**GEHRED08HB**
G 1/2" -14	G 5/8" -14	14	43.0	43	27	11.1	14.3	**GEHRED08HB10**
G 1/2" -14	G 3/4" -14	14	45.0	43	27	11.1	16.7	**GEHRED08HB12**
G 3/4" -14	G 1/2" -14	16	43.0	45	32	16.7	11.1	**GEHRED12HB08**
G 3/4" -14	G 3/4" -14	16	47.0	47	32	22.9	22.9	**GEHRED12HB**
G 3/4" -14	G 1" -11	16	51.0	50	36	16.7	22.2	**GEHRED12HB16**
G 1" -11	G 3/4" -14	18	49.0	51	41	22.2	16.7	**GEHRED16HB12**
G 1" -11	G 1" -11	18	53.0	54	41	22.2	22.2	**GEHRED16HB**
G 1.1/4" -11	G 1" -11	20	55.0	58	50	28.6	22.2	**GEHRED20HB16**
G 1.1/4" -11	G 1.1/4" -11	20	58.0	59	50	28.6	28.6	**GEHRED20HB**
G 1.1/2" -11	G 1.1/2" -11	22	64.0	64	55	33.3	33.3	**GEHRED24HB**

Spare parts:

Soft seal for ED fittings, WD	**...WD**



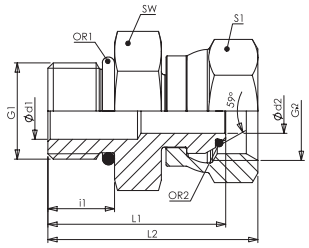


Stud connector, ISO 8434-6, AGR, OR, DKOR 60°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP nut thread
Sealing form 1: type G
Sealing form 2: 60° outer cone with O-ring
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2

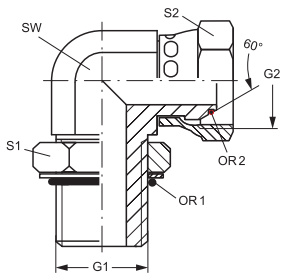


Stud connector, ISO 8434-6, AGR, OR, DKOR 60°, straight, steel

Construction type: screw-in socket
Type: straight

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OR1	OR2	G1 + G2	S1	SW	Item no.
				mm	
10.77 x 2.62	6.0 x 1.0	G 1/4" -19	17	20	GEHRO04AOB
13.94 x 2.62	8.1 x 1.6	G 3/8" -19	22	24	GEHRO06AOB
17.86 x 2.62	12.1 x 1.6	G 1/2" -14	27	28	GEHRO08AOB
23.47 x 2.62	17.1 x 1.6	G 3/4" -14	32	35	GEHRO12AOB
29.75 x 3.53	22.1 x 1.6	G 1" -11	41	43	GEHRO16AOB
37.69 x 3.53	29.1 x 1.6	G 1.1/4" -11	50	52	GEHRO20AOB
44.04 x 3.53	35.1 x 1.6	G 1.1/2" -11	60	58	GEHRO24AOB



Stud connector, ISO 8434-6, AGR, OR, adjustable, DKOR 60°, elbow 90°, steel

Construction type: adjustable direction screw-in socket
Type: angle 90°

www ...W90HROAOB

OR1	OR2	G1	G2	S1	S2	SW	Item no.
						mm	
10.77 x 2.62	4.5 x 1.5	G 1/4" -19	G 1/8" -28	20	14	14	W90HRO04AOB02
10.77 x 2.62	6.5 x 1.0	G 1/4" -19	G 1/4" -19	20	17	14	W90HRO04AOB
13.94 x 2.62	6.5 x 1.0	G 3/8" -19	G 1/4" -19	17	24	19	W90HRO06AOB04
13.94 x 2.62	8.1 x 1.6	G 3/8" -19	G 3/8" -19	24	22	19	W90HRO06AOB
17.86 x 2.62	8.1 x 1.6	G 1/2" -14	G 3/8" -19	28	22	22	W90HRO08AOB06
17.86 x 2.62	12.1 x 1.6	G 1/2" -14	G 1/2" -14	28	27	22	W90HRO08AOB
17.86 x 2.62	17.1 x 1.6	G 1/2" -14	G 3/4" -14	28	32	30	W90HRO08AOB12
23.47 x 2.62	12.1 x 1.6	G 3/4" -14	G 1/2" -14	35	27	30	W90HRO12AOB08
23.47 x 2.62	17.1 x 1.6	G 3/4" -14	G 3/4" -14	35	32	30	W90HRO12AOB
29.75 x 3.53	22.1 x 1.6	G 1" -11	G 1" -11	43	41	36	W90HRO16AOB
37.69 x 3.53	29.1 x 1.6	G 1.1/4" -11	G 1.1/4" -11	52	50	50	W90HRO20AOB
44.04 x 3.53	35.1 x 1.6	G 1.1/2" -11	G 1.1/2" -11	58	60	50	W90HRO24AOB

Stud connector, ISO 8434-6, AGR, OR, AGR 60°, steel

Connection 1: BSPP male thread, cylindric
Sealing form 1: type G
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

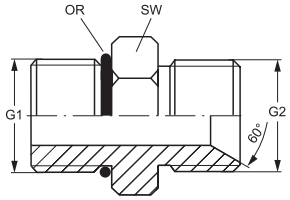






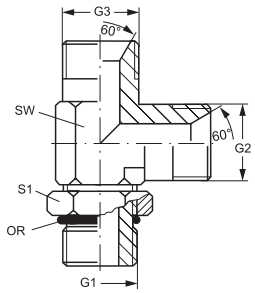
Stud connector, ISO 8434-6, AGR, OR, AGR 60°, straight, steel

Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 2: 60° inner cone



www ...GEHROHB

OR	G1	G2	SW	Item no.
			mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	20	**GEHRO02HB**
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	**GEHRO04HB02**
10.78 x 2.62	G 1/4" -19	G 1/4" -19	20	**GEHRO04HB**
10.78 x 2.62	G 1/4" -19	G 3/8" -19	24	**GEHRO04HB06**
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	**GEHRO06HB04**
13.94 x 2.62	G 3/8" -19	G 3/8" -19	24	**GEHRO06HB**
13.94 x 2.62	G 3/8" -19	G 1/2" -14	29	**GEHRO06HB08**
17.86 x 2.62	G 1/2" -14	G 3/8" -19	29	**GEHRO08HB06**
17.86 x 2.62	G 1/2" -14	G 1/2" -14	28	**GEHRO08HB**
17.86 x 2.62	G 1/2" -14	G 5/8" -14	29	**GEHRO08HB10**
17.86 x 2.62	G 1/2" -14	G 3/4" -14	29	**GEHRO08HB12**
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	**GEHRO12HB08**
23.47 x 2.62	G 3/4" -14	G 3/4" -14	35	**GEHRO12HB**
23.47 x 2.62	G 3/4" -14	G 1" -11	43	**GEHRO12HB16**
29.74 x 3.53	G 1" -11	G 3/4" -14	43	**GEHRO16HB12**
29.74 x 3.53	G 1" -11	G 1" -11	43	**GEHRO16HB**
37.69 x 3.53	G 1.1/4" -11	G 1" -11	53	**GEHRO20HB16**
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	53	**GEHRO20HB**
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	**GEHRO24HB**

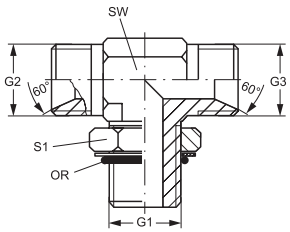


Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, L shape, steel

Connection 2 + 3: BSPP male thread, cylindric
Construction type: screw-in socket
Type: L shape
Sealing form 2 + 3: 60° inner cone

...LHROHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	16	11	LHRO02HB
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	14	LHRO04HB02
10.78 x 2.62	G 1/4" -19	G 1/4" -19	20	14	LHRO04HB
10.78 x 2.62	G 1/4" -19	G 3/8" -19	20	19	LHRO04HB06
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	19	LHRO06HB04
13.94 x 2.62	G 3/8" -19	G 3/8" -19	24	19	LHRO06HB
13.94 x 2.62	G 3/8" -19	G 1/2" -14	24	22	LHRO06HB08
17.86 x 2.62	G 1/2" -14	G 3/8" -19	28	22	LHRO08HB06
17.86 x 2.62	G 1/2" -14	G 1/2" -14	28	22	LHRO08HB
17.86 x 2.62	G 1/2" -14	G 5/8" -14	28	22	LHRO08HB10
17.86 x 2.62	G 1/2" -14	G 3/4" -14	28	27	LHRO08HB12
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	27	LHRO12HB08
23.47 x 2.62	G 3/4" -14	G 3/4" -14	35	27	LHRO12HB
23.47 x 2.62	G 3/4" -14	G 1" -11	35	33	LHRO12HB16
29.74 x 3.53	G 1" -11	G 3/4" -14	43	33	LHRO16HB12
29.74 x 3.53	G 1" -11	G 1" -11	43	33	LHRO16HB
37.69 x 3.53	G 1.1/4" -11	G 1" -11	52	41	LHRO20HB16
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	52	41	LHRO20HB
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	48	LHRO24HB



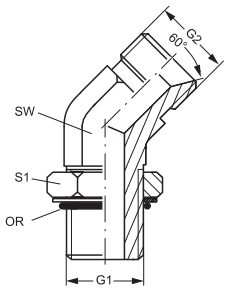
Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, T shape, steel

Connection 2 + 3: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 60° inner cone

...THROHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	16	11	THRO02HB
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	14	THRO04HB02
10.78 x 2.62	G 1/4" -19	G 1/4" -19	20	19	THRO04HB
10.78 x 2.62	G 1/4" -19	G 3/8" -19	20	14	THRO04HB06
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	19	THRO06HB04
13.94 x 2.62	G 3/8" -19	G 3/8" -19	24	19	THRO06HB
13.94 x 2.62	G 3/8" -19	G 1/2" -14	24	19	THRO06HB08
17.86 x 2.62	G 1/2" -14	G 3/8" -19	28	22	THRO08HB06
17.86 x 2.62	G 1/2" -14	G 1/2" -14	28	22	THRO08HB
17.86 x 2.62	G 1/2" -14	G 5/8" -14	28	22	THRO08HB10
17.86 x 2.62	G 1/2" -14	G 3/4" -14	28	27	THRO08HB12
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	27	THRO12HB08
23.47 x 2.62	G 3/4" -14	G 3/4" -14	35	27	THRO12HB
23.47 x 2.62	G 3/4" -14	G 1" -11	35	33	THRO12HB16
29.74 x 3.53	G 1" -11	G 3/4" -14	43	33	THRO16HB12
29.74 x 3.53	G 1" -11	G 1" -11	43	33	THRO16HB
37.69 x 3.53	G 1.1/4" -11	G 1" -11	52	41	THRO20HB16
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	52	41	THRO20HB
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	50	THRO24HB

Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, elbow 45°, steel

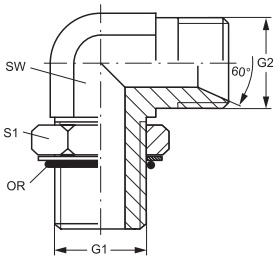


Connection 2: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: angle 45°
Sealing form 2: 60° inner cone

www ...W45HROHB

OR	G1	G2	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	16	11	W45HRO02HB
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	14	W45HRO04HB02
10.78 x 2.62	G 1/4" -19	G 1/4" -19	20	14	W45HRO04HB
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	14	W45HRO06HB04
13.94 x 2.62	G 3/8" -19	G 3/8" -19	24	19	W45HRO06HB
13.94 x 2.62	G 3/8" -19	G 1/2" -14	24	22	W45HRO06HB08
17.86 x 2.62	G 1/2" -14	G 3/8" -19	28	22	W45HRO08HB06
17.86 x 2.62	G 1/2" -14	G 1/2" -14	28	22	W45HRO08HB
17.86 x 2.62	G 1/2" -14	G 5/8" -14	28	22	W45HRO08HB10
17.86 x 2.62	G 1/2" -14	G 3/4" -14	28	27	W45HRO08HB12
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	27	W45HRO12HB08
23.47 x 2.62	G 3/4" -14	G 3/4" -14	35	27	W45HRO12HB
23.47 x 2.62	G 3/4" -14	G 1" -11	35	27	W45HRO12HB16
29.74 x 3.53	G 1" -11	G 3/4" -14	43	33	W45HRO16HB12
29.74 x 3.53	G 1" -11	G 1" -11	43	33	W45HRO16HB
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	52	41	W45HRO20HB
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	48	W45HRO24HB

Stud connector, ISO 8434-6, AGR, OR, adjustable, AGR 60°, elbow 90°, steel



Connection 2: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 2: 60° inner cone

www ...W90HROHB

OR	G1	G2	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	16	14	W90HRO02HB
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	14	W90HRO04HB02
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	19	W90HRO06HB04
17.86 x 2.62	G 1/2" -14	G 3/8" -19	28	22	W90HRO08HB06
17.86 x 2.62	G 1/2" -14	G 5/8" -14	28	22	W90HRO08HB10
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	27	W90HRO12HB08
29.74 x 3.53	G 1" -11	G 3/4" -14	43	27	W90HRO16HB12
29.74 x 3.53	G 1" -11	G 1.1/4" -11	43	33	W90HRO16HB20
37.69 x 3.53	G 1.1/4" -11	G 1" -11	52	41	W90HRO20HB16
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	48	W90HRO24HB



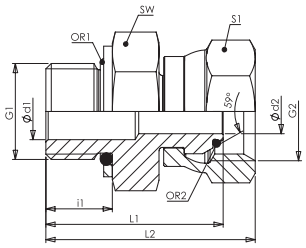


Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, DKOR 60°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP nut thread
Construction type: screw-in socket
Sealing form 1: O-ring and retaining ring
Sealing form 2: 60° outer cone with O-ring
Standard connection 1: ISO 1179-3
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, DKOR 60°, straight, steel

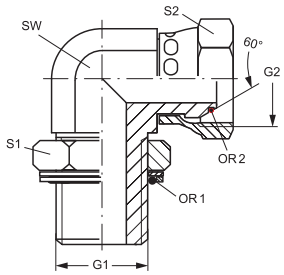
Type: straight

...GEHROKAOB

OR1	OR2	d1	d2	G1 + G2	i1	L1	L2	S1	S1	SW	Item no.
		mm	mm		mm	mm	mm	mm		mm	
10.78 x 2.62	6.0 x 1.0	7.5	4.5	G 1/4" -19	11.2	28	33	19	17	19	GEHROK04AOB
13.94 x 2.62	8.1 x 1.6	9.9	7.1	G 3/8" -19	11.2	30.8	37.3	22	22	22	GEHROK06AOB
17.86 x 2.62	12.1 x 1.6	12.3	9.7	G 1/2" -14	14.5	38.7	45.7	27	27	30	GEHROK08AOB
23.47 x 2.62	17.1 x 1.6	15.5	15.5	G 3/4" -14	14.5	40.1	49.1	32	32	36	GEHROK12AOB
29.75 x 3.53	22.1 x 1.6	20.4	20.4	G 1" -11	18.6	47.9	58.9	38	41	46	GEHROK16AOB
37.69 x 3.53	29.1 x 1.6	26	26	G 1.1/4" -11	18.6	54.7	65.2	50	50	50	GEHROK20AOB
44.04 x 3.53	35.1 x 1.6	30.8	30.8	G 1.1/2" -11	18.6	55	68	55	60	55	GEHROK24AOB

Spare parts:

Retaining ring, imperial, KAMMRING G ...KAMMRINGG



Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, DKOR 60°, elbow 90°, steel

Type: angle 90°

...W90HROKAOB

OR1	OR2	G1	G2	S1	S2	SW	Item no.
						mm	
10.77 x 2.62	4.5 x 1.5	G 1/4" -19	G 1/8" -28	20	14	14	W90HROK04AOB02
10.77 x 2.62	6.5 x 1.0	G 1/4" -19	G 1/4" -19	20	17	14	W90HROK04AOB
13.94 x 2.62	6.5 x 1.0	G 3/8" -19	G 1/4" -19	24	17	19	W90HROK06AOB04
13.94 x 2.62	8.1 x 1.6	G 3/8" -19	G 3/8" -19	24	22	19	W90HROK06AOB
17.86 x 2.62	8.1 x 1.6	G 1/2" -14	G 3/8" -19	28	27	22	W90HROK08AOB06
17.86 x 2.62	12.1 x 1.6	G 1/2" -14	G 1/2" -14	28	27	22	W90HROK08AOB
17.86 x 2.62	17.1 x 1.6	G 1/2" -14	G 3/4" -14	28	32	27	W90HROK08AOB12
23.47 x 2.62	12.1 x 1.6	G 3/4" -14	G 1/2" -14	35	27	30	W90HROK12AOB08
23.47 x 2.62	17.1 x 1.6	G 3/4" -14	G 3/4" -14	35	32	30	W90HROK12AOB
29.75 x 3.53	22.1 x 1.6	G 1" -11	G 1" -11	43	32	36	W90HROK16AOB
37.69 x 3.53	29.1 x 1.6	G 1.1/4" -11	G 1.1/4" -11	52	50	50	W90HROK20AOB
44.04 x 3.53	35.1 x 1.6	G 1.1/2" -11	G 1.1/2" -11	58	60	50	W90HROK24AOB

Spare parts:

Retaining ring, imperial, KAMMRING G ...KAMMRINGG

Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, directionally adjustable, AGR 60°, steel

Connection 1: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Sealing form 1: O-ring and retaining ring
Standard connection 1: ISO 1179-3
Surface: electro galvanised
Material: steel

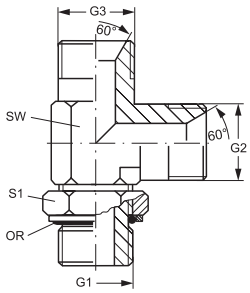
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.







Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, L shape, steel



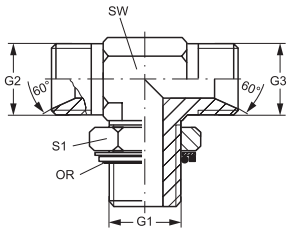
Connection 2 + 3: BSPP male thread, cylindric
Type: L shape
Sealing form 2 + 3: 60° inner cone
Standard: ISO 8434-6

www ...LHROKHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	16	11	**LHROK02HB**
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	14	**LHROK04HB02**
10.78 x 2.62	G 1/4" -19	G 1/4" -19	20	14	**LHROK04HB**
10.78 x 2.62	G 1/4" -19	G 3/8" -19	20	19	**LHROK04HB06**
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	19	**LHROK06HB04**
13.94 x 2.62	G 3/8" -19	G 3/8" -19	24	19	**LHROK06HB**
13.94 x 2.62	G 3/8" -19	G 1/2" -14	24	22	**LHROK06HB08**
17.86 x 2.62	G 1/2" -14	G 3/8" -19	28	22	**LHROK08HB06**
17.86 x 2.62	G 1/2" -14	G 1/2" -14	28	22	**LHROK08HB**
17.86 x 2.62	G 1/2" -14	G 5/8" -14	28	22	**LHROK08HB10**
17.86 x 2.62	G 1/2" -14	G 3/4" -14	28	27	**LHROK08HB12**
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	27	**LHROK12HB08**
23.47 x 2.62	G 3/4" -14	G 3/4" -14	35	27	**LHROK12HB**
23.47 x 2.62	G 3/4" -14	G 1" -11	35	33	**LHROK12HB16**
29.74 x 3.53	G 1" -11	G 3/4" -14	43	33	**LHROK16HB12**
29.74 x 3.53	G 1" -11	G 1" -11	45	33	**LHROK16HB**
37.69 x 3.53	G 1.1/4" -11	G 1" -11	52	41	**LHROK20HB16**
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	52	41	**LHROK20HB**
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	48	**LHROK24HB**

Spare parts:

Retaining ring, imperial, KAMMRING G	**...KAMMRINGG**



Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, T shape, steel

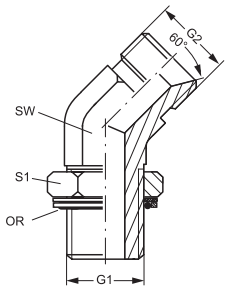
Connection 2 + 3: BSPP male thread, cylindric
Type: T shape
Sealing form 2 + 3: 60° inner cone
Standard: ISO 8434-6

www ...THROKHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	14	14	THROK02HB
10.78 x 2.62	G 1/4" -19	G 1/8" -28	19	14	THROK04HB02
10.78 x 2.62	G 1/4" -19	G 1/4" -19	19	19	THROK04HB
10.78 x 2.62	G 1/4" -19	G 3/8" -19	19	19	THROK04HB06
13.94 x 2.62	G 3/8" -19	G 1/4" -19	22	19	THROK06HB04
13.94 x 2.62	G 3/8" -19	G 3/8" -19	22	19	THROK06HB
13.94 x 2.62	G 3/8" -19	G 1/2" -14	22	19	THROK06HB08
17.86 x 2.62	G 1/2" -14	G 3/8" -19	27	27	THROK08HB06
17.86 x 2.62	G 1/2" -14	G 1/2" -14	27	27	THROK08HB
17.86 x 2.62	G 1/2" -14	G 5/8" -14	27	27	THROK08HB10
17.86 x 2.62	G 1/2" -14	G 3/4" -14	27	30	THROK08HB12
23.47 x 2.62	G 3/4" -14	G 1/2" -14	36	30	THROK12HB08
23.47 x 2.62	G 3/4" -14	G 3/4" -14	36	30	THROK12HB
23.47 x 2.62	G 3/4" -14	G 1" -11	36	36	THROK12HB16
29.74 x 3.53	G 1" -11	G 3/4" -14	41	36	THROK16HB12
29.74 x 3.53	G 1" -11	G 1" -11	41	36	THROK16HB
37.69 x 3.53	G 1.1/4" -11	G 1" -11	50	41	THROK20HB16
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	50	51	THROK20HB
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	55	50	THROK24HB

Spare parts:

Retaining ring, imperial, KAMMRING G	...KAMMRINGG



Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, elbow 45°, steel

Connection 2: BSPP male thread, cylindric
Type: angle 45°
Sealing form 2: 60° inner cone
Standard: ISO 8434-6

www ...W45HROKHB

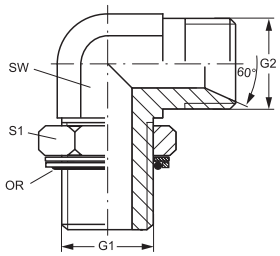
OR	G1	G2	S1	SW	Item no.
				mm	
7.65 x 1.78	G 1/8" -28	G 1/8" -28	16	11	W45HROK02HB
10.78 x 2.62	G 1/4" -19	G 1/8" -28	20	14	W45HROK04HB02
10.78 x 2.62	G 1/4" -19	G 1/4" -19	20	14	W45HROK04HB
10.78 x 2.62	G 1/4" -19	G 3/8" -19	16	14	W45HROK04HB06
13.94 x 2.62	G 3/8" -19	G 1/4" -19	24	14	W45HROK06HB04
13.94 x 2.62	G 3/8" -19	G 3/8" -19	24	22	W45HROK06HB
13.94 x 2.62	G 3/8" -19	G 1/2" -14	24	22	W45HROK06HB08
17.86 x 2.62	G 1/2" -14	G 3/8" -19	28	22	W45HROK08HB06
17.86 x 2.62	G 1/2" -14	G 1/2" -14	28	22	W45HROK08HB
17.86 x 2.62	G 1/2" -14	G 5/8" -14	28	22	W45HROK08HB10
17.86 x 2.62	G 1/2" -14	G 3/4" -14	28	27	W45HROK08HB12
23.47 x 2.62	G 3/4" -14	G 3/8" -19	35	27	W45HROK12HB06
23.47 x 2.62	G 3/4" -14	G 3/4" -14	35	27	W45HROK12HB
23.47 x 2.62	G 3/4" -14	G 1" -11	35	33	W45HROK12HB16
29.74 x 3.53	G 1" -11	G 3/4" -14	43	33	W45HROK16HB12

OR	G1	G2	S1	SW	Item no.
				mm	
29.74 x 3.53	G 1" -11	G 1" -11	43	33	**W45HROK16HB**
37.69 x 3.53	G 1.1/4" -11	G 1" -11	52	41	**W45HROK20HB16**
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	52	41	**W45HROK20HB**
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	58	48	**W45HROK24HB**

Spare parts:

Retaining ring, imperial, KAMMRING G **...KAMMRINGG**

Stud connector, ISO 8434-6, AGR, ORK, ISO 1179, adjustable, AGR 60°, elbow 90°, steel



Connection 2: BSPP male thread, cylindric
Type: angle 90°
Sealing form 2: 60° inner cone
Standard: ISO 8434-6

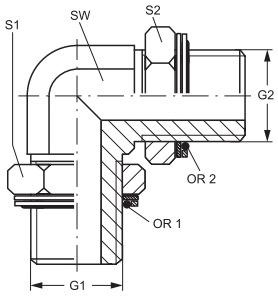
www **...W90HROKHB**

OR	G1	G2	S1	SW	Item no.
				mm	
7.97 x 1.88	G 1/8" -28	G 1/8" -28	14	11	**W90HROK02HB**
10.77 x 2.62	G 1/4" -19	G 1/8" -28	19	14	**W90HROK04HB02**
10.77 x 2.62	G 1/4" -19	G 1/4" -19	19	14	**W90HROK04HB**
10.77 x 2.62	G 1/4" -19	G 3/8" -19	19	14	**W90HROK04HB06**
13.94 x 2.62	G 3/8" -19	G 1/4" -19	22	19	**W90HROK06HB04**
13.94 x 2.62	G 3/8" -19	G 3/8" -19	22	19	**W90HROK06HB**
13.94 x 2.62	G 3/8" -19	G 1/2" -14	22	19	**W90HROK06HB08**
17.86 x 2.62	G 1/2" -14	G 3/8" -19	27	22	**W90HROK08HB06**
17.86 x 2.62	G 1/2" -14	G 1/2" -14	27	22	**W90HROK08HB**
17.86 x 2.62	G 1/2" -14	G 5/8" -14	27	22	**W90HROK08HB10**
17.86 x 2.62	G 1/2" -14	G 3/4" -14	27	27	**W90HROK08HB12**
23.47 x 2.62	G 3/4" -14	G 1/2" -14	35	27	**W90HROK12HB08**
23.47 x 2.62	G 3/4" -14	G 3/4" -14	36	27	**W90HROK12HB**
23.47 x 2.62	G 3/4" -14	G 1" -11	36	33	**W90HROK12HB16**
29.74 x 3.53	G 1" -11	G 3/4" -14	41	33	**W90HROK16HB12**
29.74 x 3.53	G 1" -11	G 1" -11	41	33	**W90HROK16HB**
37.69 x 3.53	G 1.1/4" -11	G 1" -11	50	41	**W90HROK20HB16**
37.69 x 3.53	G 1.1/4" -11	G 1.1/4" -11	50	41	**W90HROK20HB**
44.04 x 3.53	G 1.1/2" -11	G 1.1/2" -11	55	48	**W90HROK24HB**

Spare parts:

Retaining ring, imperial, KAMMRING G **...KAMMRINGG**

Stud connector, AGR, ORK, ISO 1179, adjustable, elbow 90°, steel



Connection 2: BSPP male thread, cylindric
Type: angle 90°
Sealing form 2: O-ring and retaining ring

www **...W90HROK**

OR1	OR2	G1 + G2	S1	S2	SW	Item no.
					mm	
17.86 x 2.62	17.86 x 2.62	G 1/2" -14	27	27	22	**W90HROK08**

Spare parts:

Retaining ring, imperial, KAMMRING G **...KAMMRINGG**





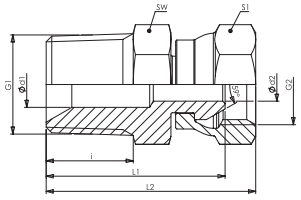


Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, steel

Connection 1: BSPT conical external threads
Connection 2: BSPP nut thread
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: 60° inner cone
Standard connection 1: DIN 3852-2
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, straight, steel

Type: straight

www ...GEHRKAB

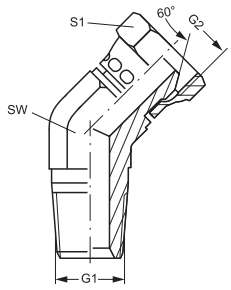
G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
R 1/8" K	G 1/8" -28	10.5	25.5	30	14	12	3.5	3.5	**GEHRK02AB**
R 1/4" K	G 1/4" -19	14	31	36	19	14	4.5	4.5	**GEHRK04AB**
R 3/8" K	G 3/8" -19	14.5	33	39.5	22	17	7.1	7.1	**GEHRK06AB**
R 3/8" K	G 1/2" -14	14.5	35.5	42.5	27	19	7.1	9.7	**GEHRK06AB08**
R 1/2" K	G 3/8" -19	18.5	38	44.5	22	22	9.7	7.1	**GEHRK08AB06**
R 1/2" K	G 1/2" -14	18.5	40.5	47.5	27	22	9.7	9.7	**GEHRK08AB**
R 5/8" K	G 5/8" -14	19.5	40.5	50.5	30	24	12	12	**GEHRK10AB**
R 3/4" K	G 3/4" -14	20	43.5	52.5	32	27	15.5	15.5	**GEHRK12AB**
R 1" K	G 3/4" -14	24	48.5	57.5	32	36	20.4	15.5	**GEHRK16AB12**
R 1" K	G 1" -11	24	51.5	62.5	41	36	20.4	20.4	**GEHRK16AB**
R 1.1/4" K	G 1.1/4" -11	26	60	70.5	50	46	26	26	**GEHRK20AB**
R 1.1/2" K	G 1.1/2" -11	27	60.5	73.5	55	50	30.8	30.8	**GEHRK24AB**
R 2" K	G 2" -11	31	70	86.5	70	65	43.5	43.5	**GEHRK32AB**

Product variants:

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, straight, stain-less steel, GE HRK AB VA — **...GEHRKABVA**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, angle 45°, steel

Type: angle 45°

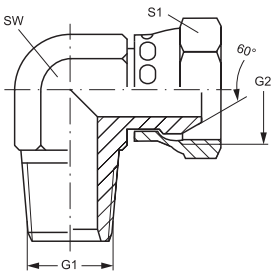
www ...W45HRKAB

G1	G2	S1	SW	Item no.
			mm	
R 1/4" K	G 1/4" -19	19	19	**W45HRK04AB**
R 3/8" K	G 3/8" -19	22	22	**W45HRK06AB**
R 1/2" K	G 1/2" -14	27	27	**W45HRK08AB**
R 3/4" K	G 3/4" -14	32	32	**W45HRK12AB**
R 1" K	G 1" -11	41	41	**W45HRK16AB**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, DKR 60°, angle 90°, Steel



Type: angle 90°

...W90HRKAB

G1	G2	S1	S2	SW	Item no.
				mm	
R 1/4" K	G 1/4" -19	19	19	14	**W90HRK04AB**
R 3/8" K	G 3/8" -19	22	22	19	**W90HRK06AB**
R 1/2" K	G 1/2" -14	27	27	22	**W90HRK08AB**
R 3/4" K	G 3/4" -14	32	32	27	**W90HRK12AB**
R 1" K	G 1" -11	41	41	33	**W90HRK16AB**
R 1.1/4" K	G 1.1/4" -11	50	50	41	**W90HRK20AB**
R 1.1/2" K	G 1.1/2" -11	60	60	48	**W90HRK24AB**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, steel



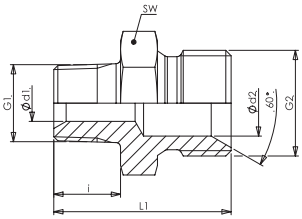




Connection 1: BSPT conical external threads
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: 60° inner cone
Standard connection 1: DIN 3852-2
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, straight, steel



Type: straight

...GEHRKHB

G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
R 1/8" K	G 1/8" -28	10.5	23.5	11	3.5	3.5	**GEHRK02HB**
R 1/8" K	G 1/4" -19	10.5	27.5	17	3.5	4.7	**GEHRK02HB04**
R 1/8" K	G 3/8" -19	10.5	28.5	17	3.5	7.9	**GEHRK02HB06**
R 1/4" K	G 1/8" -28	14	28	17	4.7	3.5	**GEHRK04HB02**
R 1/4" K	G 1/4" -19	14	31	17	4.7	4.7	**GEHRK04HB**
R 1/4" K	G 3/8" -19	14	32	17	4.7	7.9	**GEHRK04HB06**
R 1/4" K	G 1/2" -14	14	35	22	4.7	11.1	**GEHRK04HB08**
R 1/4" K	G 3/4" -14	14	38	27	4.7	16.7	**GEHRK04HB12**
R 3/8" K	G 1/8" -28	14.5	28.5	17	7.9	3.5	**GEHRK06HB02**
R 3/8" K	G 1/4" -19	14.5	31.5	17	7.9	4.7	**GEHRK06HB04**
R 3/8" K	G 3/8" -19	14.5	32.5	22	7.9	7.9	**GEHRK06HB**
R 3/8" K	G 1/2" -14	14.5	35.5	22	7.9	11.1	**GEHRK06HB08**
R 3/8" K	G 5/8" -14	14.5	38.5	27	7.9	14.3	**GEHRK06HB10**
R 3/8" K	G 3/4" -14	14.5	38.5	27	7.9	16.7	**GEHRK06HB12**



G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
R 1/2" K	G 1/4" -19	18.5	36.5	22	11.1	4.7	**GEHRK08HB04**
R 1/2" K	G 3/8" -19	18.5	37.5	22	11.1	7.9	**GEHRK08HB06**
R 1/2" K	G 1/2" -14	18.5	39.5	22	11.1	11.1	**GEHRK08HB**
R 1/2" K	G 5/8" -14	18.5	42.5	27	11.1	11.1	**GEHRK08HB10**
R 1/2" K	G 3/4" -14	18.5	42.5	27	11.1	16.7	**GEHRK08HB12**
R 1/2" K	G 1" -11	18.5	46.5	36	11.1	22.2	**GEHRK08HB16**
R 5/8" K	G 1/2" -14	19.5	41.5	27	14.3	11.1	**GEHRK10HB08**
R 5/8" K	G 5/8" -14	19.5	43.5	27	14.3	14.3	**GEHRK10HB**
R 5/8" K	G 3/4" -14	19.5	43.5	27	14.3	14.3	**GEHRK10HB12**
R 3/4" K	G 1/4" -19	20	39	27	16.7	4.7	**GEHRK12HB04**
R 3/4" K	G 3/8" -19	20	40	27	16.7	7.9	**GEHRK12HB06**
R 3/4" K	G 1/2" -14	20	42	27	16.7	11.1	**GEHRK12HB08**
R 3/4" K	G 5/8" -14	20	44	27	14.3	14.3	**GEHRK12HB10**
R 3/4" K	G 3/4" -14	20	44	27	16.7	16.7	**GEHRK12HB**
R 3/4" K	G 1" -11	20	48	36	16.7	22.2	**GEHRK12HB16**
R 3/4" K	G 1.1/4" -11	20	50	46	16.7	28.6	**GEHRK12HB20**
R 1" K	G 3/8" -19	24	45	36	22.2	7.9	**GEHRK16HB06**
R 1" K	G 1/2" -14	24	47	36	22.2	11.1	**GEHRK16HB08**
R 1" K	G 3/4" -14	24	49	36	22.2	16.7	**GEHRK16HB12**
R 1" K	G 1" -11	24	52	36	22.2	22.2	**GEHRK16HB**
R 1" K	G 1.1/4" -11	24	54	46	22.2	28.6	**GEHRK16HB20**
R 1" K	G 1.1/2" -11	24	56	50	22.2	33.3	**GEHRK16HB24**
R 1.1/4" K	G 3/4" -14	26	52	46	28.6	16.7	**GEHRK20HB12**
R 1.1/4" K	G 1" -11	26	55	46	28.6	22.2	**GEHRK20HB16**
R 1.1/4" K	G 1.1/4" -11	26	56	50	28.6	28.6	**GEHRK20HB**
R 1.1/4" K	G 1.1/2" -11	26	58	50	28.6	28.6	**GEHRK20HB24**
R 1.1/4" K	G 2" -11	26	64	65	28.6	46	**GEHRK20HB32**
R 1.1/2" K	G 1" -11	27	56	50	33.3	22.2	**GEHRK24HB16**
R 1.1/2" K	G 1.1/4" -11	27	57	50	28.6	28.6	**GEHRK24HB20**
R 1.1/2" K	G 1.1/2" -11	27	59	50	33.3	33.3	**GEHRK24HB**
R 1.1/2" K	G 2" -11	27	65	65	33.3	46	**GEHRK24HB32**
R 2" K	G 1" -11	31	63	65	46	22.2	**GEHRK32HB16**
R 2" K	G 1.1/4" -11	31	64	65	46	28.6	**GEHRK32HB20**
R 2" K	G 1.1/2" -11	31	66	65	46	33.3	**GEHRK32HB24**
R 2" K	G 2" -11	31	69	65	46	46	**GEHRK32HB**
R 2.1/2" K	G 2.1/2" -11	34	83	90	68	68	**GEHRK40HB**

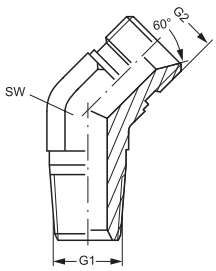
Product variants:

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, straight, stain-**...GEHRKHBVA**
less steel, GE HRK HB VA

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, angle 45°, steel



Type: angle 45°

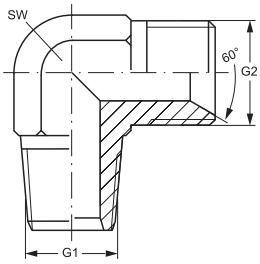
www ...W45HRKHB

G1	G2	SW	Item no.
		mm	
R 1/4" K	G 1/4" -19	14	W45HRK04HB
R 1/4" K	G 3/8" -19	19	W45HRK04HB06
R 3/8" K	G 1/4" -19	19	W45HRK06HB04
R 3/8" K	G 3/8" -19	19	W45HRK06HB
R 3/8" K	G 1/2" -14	22	W45HRK06HB08
R 1/2" K	G 3/8" -19	22	W45HRK08HB06
R 1/2" K	G 1/2" -14	22	W45HRK08HB
R 1/2" K	G 3/4" -14	27	W45HRK08HB12
R 3/4" K	G 1/2" -14	27	W45HRK12HB08
R 3/4" K	G 3/4" -14	27	W45HRK12HB
R 3/4" K	G 1" -11	33	W45HRK12HB16
R 1" K	G 3/4" -14	33	W45HRK16HB12
R 1" K	G 1" -11	33	W45HRK16HB
R 1" K	G 1.1/4" -11	41	W45HRK16HB20
R 1.1/4" K	G 1" -11	41	W45HRK20HB16
R 1.1/4" K	G 1.1/4" -11	41	W45HRK20HB
R 1.1/4" K	G 1.1/2" -11	48	W45HRK20HB24
R 1.1/2" K	G 1.1/4" -11	48	W45HRK24HB20
R 1.1/2" K	G 1.1/2" -11	48	W45HRK24HB
R 2" K	G 1.1/2" -11	64	W45HRK32HB24
R 2" K	G 2" -11	64	W45HRK32HB

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, AGR 60°, angle 90°, steel



Type: angle 90°

www ...W90HRKHB

G1	G2	SW	Item no.
		mm	
R 1/8" K	G 1/8" -28	11	W90HRK02HB
R 1/8" K	G 1/4" -19	11	W90HRK02HB04
R 1/4" K	G 1/8" -28	14	W90HRK04HB02
R 1/4" K	G 1/4" -19	14	W90HRK04HB
R 1/4" K	G 3/8" -19	14	W90HRK04HB06
R 3/8" K	G 1/4" -19	14	W90HRK06HB04
R 3/8" K	G 3/8" -19	17	W90HRK06HB
R 3/8" K	G 1/2" -14	19	W90HRK06HB08
R 1/2" K	G 3/8" -19	19	W90HRK08HB06
R 1/2" K	G 1/2" -14	19	W90HRK08HB
R 1/2" K	G 3/4" -14	27	W90HRK08HB12
R 3/4" K	G 1/2" -14	27	W90HRK12HB08
R 3/4" K	G 3/4" -14	27	W90HRK12HB
R 3/4" K	G 1" -11	33	W90HRK12HB16
R 1" K	G 3/4" -14	33	W90HRK16HB12
R 1" K	G 1" -11	36	W90HRK16HB
R 1.1/4" K	G 1.1/4" -11	41	W90HRK20HB
R 1.1/2" K	G 1.1/2" -11	48	W90HRK24HB
R 2" K	G 2" -11	64	W90HRK32HB

Accessories:

PTFE sealing tape, TF BAND Page 494





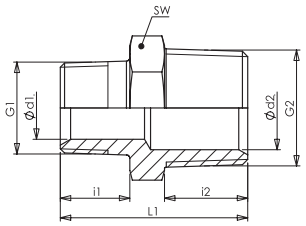


Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, steel

Connection 1: BSPT conical external threads
Connection 2: BSPT conical external threads
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: thread seal
Standard connection 1: DIN 3852-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, straight, steel

Type: straight

www ...GHRK

G1	G2	i1	i2	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	mm	
R 1/8" K	R 1/8" K	10.5	10.5	27	12	4.5	4.5	**GHRK02**
R 1/8" K	R 1/4" K	10.5	14	31.5	14	4.5	4.5	**G02HRK04**
R 1/8" K	R 3/8" K	10.5	14.5	32	17	4.5	10	**G02HRK06**
R 1/4" K	R 1/4" K	14	14	35	14	7	7	**GHRK04**
R 1/4" K	R 3/8" K	14	14.5	35.5	17	7	10	**G04HRK06**
R 1/4" K	R 1/2" K	14	18.5	40.5	22	7	13	**G04HRK08**
R 3/8" K	R 3/8" K	14.5	14.5	36	17	10	10	**GHRK06**
R 3/8" K	R 1/2" K	14.5	18.5	41	22	10	13	**G06HRK08**
R 3/8" K	R 3/4" K	14.5	14.5	43.5	27	10	18	**G06HRK12**
R 3/8" K	R 1" K	14.5	24	48.5	36	10	24	**G06HRK16**
R 1/2" K	R 1/2" K	18.5	18.5	45	22	13	13	**GHRK08**
R 1/2" K	R 5/8" K	18.5	19.5	46	24	13	13	**G08HRK10**
R 1/2" K	R 3/4" K	18.5	20	47.5	27	13	18	**G08HRK12**
R 1/2" K	R 1" K	18.5	24	52.5	36	13	24	**G08HRK16**
R 5/8" K	R 5/8" K	19.5	19.5	47	24	14	14	**GHRK10**
R 3/4" K	R 3/4" K	20	20	49	27	18	18	**GHRK12**
R 3/4" K	R 1" K	20	24	54	36	18	24	**G12HRK16**
R 1" K	R 1" K	24	24	58	36	24	24	**GHRK16**
R 1" K	R 1.1/4" K	24	26	62	46	24	31	**G16HRK20**
R 1.1/4" K	R 1.1/4" K	26	26	64	46	31	31	**GHRK20**
R 1.1/4" K	R 1.1/2" K	26	27	65	50	31	38	**G20HRK24**
R 1.1/2" K	R 1.1/2" K	27	27	66	50	38	38	**GHRK24**
R 1.1/2" K	R 2" K	27	31	73	65	38	49	**G24HRK32**
R 2" K	R 2" K	31	31	77	65	49	49	**GHRK32**

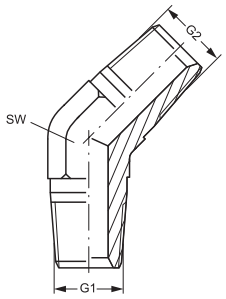
Product variants:

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, straight, stainless steel, G HRK VA **...GHRKVA**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, angle 45°, steel



Type: angle 45°

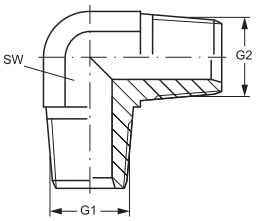
www ...W45HRK

G1 + G2	SW	Item no.
	mm	
R 1/4" K	14	**W45HRK04**
R 3/8" K	19	**W45HRK06**
R 1/2" K	22	**W45HRK08**
R 3/4" K	27	**W45HRK12**
R 1" K	33	**W45HRK16**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, angle 90°, steel



Type: angle 90°

www ...W90HRK

G1 + G2	SW	Item no.
	mm	
R 1/8" K	11	**W90HRK02**
R 1/4" K	14	**W90HRK04**
R 3/8" K	19	**W90HRK06**
R 1/2" K	22	**W90HRK08**
R 3/4" K	27	**W90HRK12**
R 1" K	33	**W90HRK16**

Accessories:

PTFE sealing tape, TF BAND Page 494





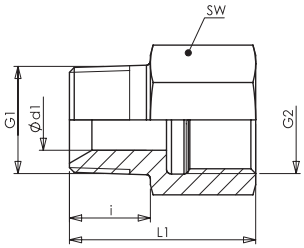


Stud connector, AGR tapered, DIN 3852-2, type C, IGR, straight, steel

Connection 1: BSPT conical external threads
Connection 2: BSPP female thread, cylindric
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: flat seal
Standard connection 1: DIN 3852-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Stud connector, AGR tapered, DIN 3852-2, type C, IGR, straight, steel

Type: straight

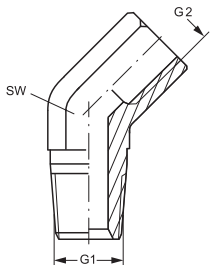
www ...GEHRKIR

G1	G2	i	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
R 1/8" K	G 1/4" -19	10.5	31	19	4	GEHRK02IR04
R 1/8" K	G 3/8" -19	10.5	32	22	4	GEHRK02IR06
R 1/8" K	G 1/2" -14	10.5	38.5	27	4	GEHRK02IR08
R 1/4" K	G 1/8" -28	14	29	14	4	GEHRK04IR02
R 1/4" K	G 1/4" -19	14	33.5	19	4	GEHRK04IR
R 1/4" K	G 3/8" -19	14	34.5	22	4	GEHRK04IR06
R 1/4" K	G 1/2" -14	14	40.5	27	4	GEHRK04IR08
R 3/8" K	G 1/8" -28	14.5	21.5	17	11	GEHRK06IR02
R 3/8" K	G 1/4" -19	14.5	35	19	7	GEHRK06IR04
R 3/8" K	G 3/8" -19	14.5	35	22	7	GEHRK06IR
R 3/8" K	G 1/2" -14	14.5	39.5	27	7	GEHRK06IR08
R 1/2" K	G 1/4" -19	18.5	26.5	22	12	GEHRK08IR04
R 1/2" K	G 3/8" -19	18.5	39	22	9.5	GEHRK08IR06
R 1/2" K	G 1/2" -14	18.5	42.5	27	9.5	GEHRK08IR
R 1/2" K	G 3/4" -14	18.5	46	32	9.5	GEHRK08IR12
R 1/2" K	G 1" -11	18.5	50.5	41	9.5	GEHRK08IR16
R 3/4" K	G 1/4" -19	20	29	27	12	GEHRK12IR04
R 3/4" K	G 3/8" -19	20	29	27	12	GEHRK12IR06
R 3/4" K	G 1/2" -14	20	44	27	15	GEHRK12IR08
R 3/4" K	G 3/4" -14	20	46	32	15	GEHRK12IR
R 3/4" K	G 1" -11	20	51	41	15	GEHRK12IR16
R 1" K	G 1/2" -14	24	34	36	19	GEHRK16IR08
R 1" K	G 3/4" -14	24	50	36	19.5	GEHRK16IR12
R 1" K	G 1" -11	24	55	41	19.5	GEHRK16IR
R 1" K	G 1.1/4" -11	24	59.5	50	19.5	GEHRK16IR20
R 1.1/4" K	G 1/2" -14	26	38	46	19	GEHRK20IR08
R 1.1/4" K	G 3/4" -14	26	38	46	24.5	GEHRK20IR12
R 1.1/4" K	G 1" -11	26	37	46	30.75	GEHRK20IR16
R 1.1/4" K	G 1.1/2" -11	26	65	55	26	GEHRK20IR24
R 1.1/2" K	G 1" -11	27	39	50	30.75	GEHRK24IR16
R 1.1/2" K	G 1.1/4" -11	27	61	50	32	GEHRK24IR20
R 1.1/2" K	G 2" -11	27	66.5	70	32	GEHRK24IR32
R 2" K	G 1.1/4" -11	31	46	65	39.25	GEHRK32IR20
R 2" K	G 1.1/2" -11	31	46	65	39.25	GEHRK32IR24

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, AGR tapered, DIN 3852-2, type C, IGR, angle 90°, steel



Type: angle 45°

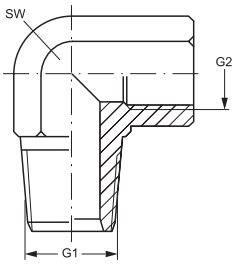
www ...W45HRKIR

G1	G2	SW	Item no.
		mm	
R 1/8" K	G 1/8" -28	14	**W45HRK02IR**
R 1/4" K	G 1/4" -19	19	**W45HRK04IR**
R 3/8" K	G 3/8" -19	22	**W45HRK06IR**
R 1/2" K	G 1/2" -14	27	**W45HRK08IR**
R 3/4" K	G 3/4" -14	32	**W45HRK12IR**
R 1" K	G 1" -11	41	**W45HRK16IR**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, AGR tapered, DIN 3852-2, type C, IGR, angle 45°, steel



Type: angle 90°

www ...W90HRKIR

G1	G2	SW	Item no.
		mm	
R 1/8" K	G 1/8" -28	14	**W90HRK02IR**
R 1/4" K	G 1/4" -19	19	**W90HRK04IR**
R 3/8" K	G 3/8" -19	22	**W90HRK06IR**
R 1/2" K	G 1/2" -14	27	**W90HRK08IR**
R 3/4" K	G 3/4" -14	32	**W90HRK12IR**
R 1" K	G 1" -11	41	**W90HRK16IR**

Accessories:

PTFE sealing tape, TF BAND Page 494





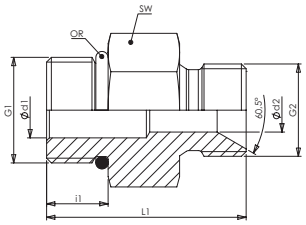


Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, AGR 60°, steel

Connection 1: UN/UNF external threads
Sealing form 1: O-ring seal, on screw-in socket
Standard connection 1: ISO 11926-3
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



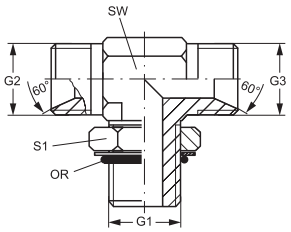
Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, AGR 60°, straight, steel

Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 2: 60° inner cone

www ...GEOHB

OR	G1	G2	i1	L1	SW	Ø d1	Ø d2	Item no.
			mm	mm	mm	mm	mm	
9.17 x 1.83	7/16" -20 UNF	G 1/8" -28	9.1	25.0	14	3.5	3.5	GEO04HB02
9.17 x 1.83	7/16" -20 UNF	G 1/4" -19	9.1	29.5	19	4.5	4.5	GEO04HB
9.17 x 1.83	7/16" -20 UNF	G 3/8" -19	9.1	33.0	22	4.5	7.9	GEO04HB06
10.52 x 1.83	1/2" -20 UNF	G 1/8" -28	9.1	25.0	17	6.0	3.5	GEO05HB02
10.52 x 1.83	1/2" -20 UNF	G 1/4" -19	9.1	29.5	19	4.7	4.7	GEO05HB04
10.52 x 1.83	1/2" -20 UNF	G 3/8" -19	9.1	32.5	22	6.0	7.9	GEO05HB06
11.90 x 1.98	9/16" -18 UNF	G 1/4" -19	10.0	32.0	19	7.5	4.7	GEO06HB04
11.90 x 1.98	9/16" -18 UNF	G 3/8" -19	10.0	33.5	22	7.5	7.5	GEO06HB
11.90 x 1.98	9/16" -18 UNF	G 1/2" -14	10.0	36.0	27	7.5	11.1	GEO06HB08
16.36 x 2.21	3/4" -16 UNF	G 1/4" -19	11.1	31.0	22	10.0	4.7	GEO08HB04
16.36 x 2.21	3/4" -16 UNF	G 3/8" -19	11.1	36.0	24	10.0	7.9	GEO08HB06
16.36 x 2.21	3/4" -16 UNF	G 1/2" -14	11.1	38.0	28	10.0	10.0	GEO08HB
16.36 x 2.21	3/4" -16 UNF	G 5/8" -14	11.1	41.5	30	10.0	14.3	GEO08HB10
16.36 x 2.21	3/4" -16 UNF	G 3/4" -14	11.1	40.5	32	10.0	16.7	GEO08HB12
19.18 x 2.46	7/8" -14 UNF	G 3/8" -19	12.7	39.5	27	12.5	7.9	GEO10HB06
19.18 x 2.46	7/8" -14 UNF	G 1/2" -14	12.7	42.0	27	11.1	11.1	GEO10HB08
19.18 x 2.46	7/8" -14 UNF	G 5/8" -14	12.7	43.5	30	12.5	12.5	GEO10HB
19.18 x 2.46	7/8" -14 UNF	G 3/4" -14	12.7	45.5	32	12.5	16.7	GEO10HB12
19.18 x 2.46	7/8" -14 UNF	G 1" -11	12.7	49.5	41	12.5	22.2	GEO10HB16
23.47 x 2.95	1.1/16" -12 UN	G 1/2" -14	15.1	42.5	36	15.5	11.1	GEO12HB08
23.47 x 2.95	1.1/16" -12 UN	G 5/8" -14	15.1	47.0	36	14.3	14.3	GEO12HB10
23.47 x 2.95	1.1/16" -12 UN	G 3/4" -14	15.1	48.0	36	15.5	15.5	GEO12HB
23.47 x 2.95	1.1/16" -12 UN	G 1" -11	15.1	52.0	41	15.5	22.2	GEO12HB16
29.74 x 2.95	1.5/16" -12 UN	G 3/4" -14	15.1	50.7	41	21.5	16.7	GEO16HB12
29.74 x 2.95	1.5/16" -12 UN	G 1" -11	15.1	52.6	41	21.5	21.5	GEO16HB
29.74 x 2.95	1.5/16" -12 UN	G 1.1/4" -11	15.1	54.7	50	21.5	28.6	GEO16HB20
37.47 x 3.00	1.5/8" -12 UN	G 1" -11	15.1	54.7	50	27.5	22.2	GEO20HB16
37.47 x 3.00	1.5/8" -12 UN	G 1.1/4" -11	15.1	54.7	50	27.5	27.5	GEO20HB
43.69 x 3.00	1.7/8" -12 UN	G 1.1/4" -11	15.1	55.0	55	33.5	28.6	GEO24HB20
43.69 x 3.00	1.7/8" -12 UN	G 1.1/2" -11	15.1	57.0	55	33.3	33.3	GEO24HB

Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, adjustable, AGR 60°, T shape, steel

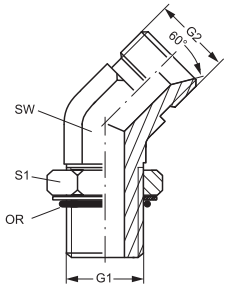


Connection 2 + 3: BSPP male thread, cylindric
Construction type: adjustable direction screw-in socket
Type: T shape
Sealing form 2 + 3: 60° inner cone

www ...TOHB

OR	G1	G2 + G3	S1	SW	Item no.
				mm	
11.90 x 1.98	9/16" -18 UNF	G 1/4" -19	17	14	**TO06HB04**
11.90 x 1.98	9/16" -18 UNF	G 3/8" -19	17	14	**TO06HB**
16.36 x 2.20	3/4" -16 UNF	G 1/2" -14	22	19	**TO08HB**
19.18 x 2.46	7/8" -14 UNF	G 3/4" -14	27	22	**TO10HB12**
23.47 x 2.95	1.1/16" -12 UN	G 3/4" -14	32	27	**TO12HB**
29.74 x 2.95	1.5/16" -12 UN	G 3/4" -14	38	33	**TO16HB12**

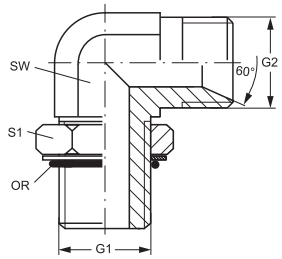
Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, adjustable, AGR 60°, T form, steel



Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: angle 45°
Sealing form 2: 60° inner cone

www ...W45OHB

OR	G1	G2	S1	SW	Item no.
				mm	
8.92 x 1.83	7/16" -20 UNF	G 1/8" -28	14	11	**W45O04HB02**
8.92 x 1.83	7/16" -20 UNF	G 1/4" -19	14	11	**W45O04HB**
8.92 x 1.83	7/16" -20 UNF	G 3/8" -19	14	14	**W45O04HB06**
10.52 x 1.83	1/2" -20 UNF	G 1/8" -28	16	13	**W45O05HB02**
10.52 x 1.83	1/2" -20 UNF	G 1/4" -19	16	13	**W45O05HB04**
11.90 x 1.98	9/16" -18 UNF	G 1/4" -19	17	14	**W45O06HB04**
11.90 x 1.98	9/16" -18 UNF	G 3/8" -19	17	14	**W45O06HB**
16.36 x 2.20	3/4" -16 UNF	G 1/4" -19	22	19	**W45O08HB04**
16.36 x 2.20	3/4" -16 UNF	G 3/8" -19	22	19	**W45O08HB06**
16.36 x 2.20	3/4" -16 UNF	G 1/2" -14	22	19	**W45O08HB**
16.36 x 2.20	3/4" -16 UNF	G 3/4" -14	22	27	**W45O08HB12**
19.18 x 2.46	7/8" -14 UNF	G 3/8" -19	25	22	**W45O10HB06**
19.18 x 2.46	7/8" -14 UNF	G 1/2" -14	25	22	**W45O10HB08**
19.18 x 2.46	7/8" -14 UNF	G 3/4" -14	25	27	**W45O10HB12**
23.47 x 2.95	1.1/16" -12 UN	G 1/2" -14	32	27	**W45O12HB08**
23.47 x 2.95	1.1/16" -12 UN	G 3/4" -14	32	27	**W45O12HB**
23.47 x 2.95	1.1/16" -12 UN	G 1" -11	32	33	**W45O12HB16**
29.74 x 2.95	1.5/16" -12 UN	G 3/4" -14	38	33	**W45O16HB12**
29.74 x 2.95	1.5/16" -12 UN	G 1" -11	38	33	**W45O16HB**



Stud connector, ISO 8434-6, AG UNF, OR, ISO 11926, adjustable, AGR 60°, elbow 90°, steel

Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: angle 90°
Sealing form 2: 60° inner cone

www ...W90OHB

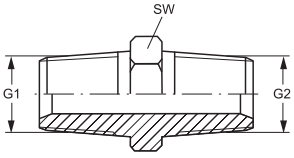
OR	G1	G2	S1	SW	Item no.
				mm	
8.92 x 1.83	7/16" -20 UNF	G 1/8" -28	17	11	W90O04HB02
8.92 x 1.83	7/16" -20 UNF	G 1/4" -19	17	11	W90O04HB
8.92 x 1.83	7/16" -20 UNF	G 3/8" -19	17	14	W90O04HB06
10.52 x 1.83	1/2" -20 UNF	G 1/8" -28	19	14	W90O05HB02
10.52 x 1.83	1/2" -20 UNF	G 1/4" -19	19	14	W90O05HB04
11.90 x 1.98	9/16" -18 UNF	G 1/4" -19	21	14	W90O06HB04
11.90 x 1.98	9/16" -18 UNF	G 3/8" -19	21	14	W90O06HB
16.36 x 2.20	3/4" -16 UNF	G 1/4" -19	25	19	W90O08HB04
16.36 x 2.20	3/4" -16 UNF	G 3/8" -19	25	19	W90O08HB06
16.36 x 2.20	3/4" -16 UNF	G 1/2" -14	25	19	W90O08HB
16.36 x 2.20	3/4" -16 UNF	G 3/4" -14	25	22	W90O08HB12
19.18 x 2.46	7/8" -14 UNF	G 3/8" -19	30	22	W90O10HB06
19.18 x 2.46	7/8" -14 UNF	G 1/2" -14	30	22	W90O10HB08
19.18 x 2.46	7/8" -14 UNF	G 5/8" -14	30	22	W90O10HB
19.18 x 2.46	7/8" -14 UNF	G 3/4" -14	30	22	W90O10HB12
23.47 x 2.95	1.1/16" -12 UN	G 1/2" -14	36	27	W90O12HB08
23.47 x 2.95	1.1/16" -12 UN	G 3/4" -14	36	27	W90O12HB
23.47 x 2.95	1.1/16" -12 UN	G 1" -11	36	33	W90O12HB16
29.74 x 2.95	1.5/16" -12 UN	G 3/4" -14	45	33	W90O16HB12
29.74 x 2.95	1.5/16" -12 UN	G 1" -11	45	33	W90O16HB
29.74 x 2.95	1.5/16" -12 UN	G 1.1/4" -11	45	41	W90O16HB20
37.47 x 3.00	1.5/8" -12 UN	G 1" -11	55	41	W90O20HB16
37.47 x 3.00	1.5/8" -12 UN	G 1.1/4" -11	55	41	W90O20HB



Stud connector, AGR tapered, DIN 3852-2, type C, AGN, SAE J 514, steel

Connection 1: BSPT conical external threads
Connection 2: NPT external threads
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: thread seal
Standard connection 1: DIN 3852-2
Standard: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHRKHN

G1	G2	SW	Item no.
		mm	
R 1/8" K	1/8" -27 NPT	14	GEHRK02HN
R 1/4" K	1/4" -18 NPT	19	GEHRK04HN
R 1/4" K	3/8" -18 NPT	19	GEHRK04HN06
R 3/8" K	1/4" -18 NPT	22	GEHRK06HN04
R 3/8" K	3/8" -18 NPT	22	GEHRK06HN
R 1/2" K	1/2" -14 NPT	27	GEHRK08HN
R 3/4" K	3/4" -14 NPT	32	GEHRK12HN

G1	G2	SW	Item no.
		mm	
R 1" K	3/4" -14 NPT	41	**GEHRK16HN12**
R 1" K	1" -11.5 NPT	41	**GEHRK16HN**
R 1.1/4" K	1" -11.5 NPT	50	**GEHRK20HN16**
R 1.1/4" K	1.1/4" -11.5 NPT	50	**GEHRK20HN**
R 1.1/2" K	1.1/2" -11.5 NPT	55	**GEHRK24HN**
R 2" K	2" -11.5 NPT	70	**GEHRK32HN**

Accessories:

PTFE sealing tape, TF BAND Page 494

Union connector, ISO 8434-6, DKR 60°, steel

Connection 1: BSPP nut thread
Connection 2: BSPP nut thread
Construction type: connectors
Sealing form 1: 60° outer cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

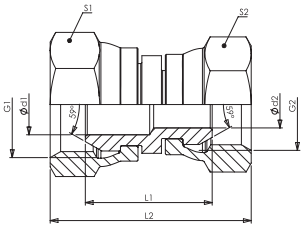
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.





Union connector, ISO 8434-6, DKR 60°, straight, steel

Connection 1: BSPP nut thread
Connection 2: BSPP nut thread
Construction type: connectors
Type: straight
Sealing form 1: 60° outer cone
Sealing form 2: 60° outer cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel



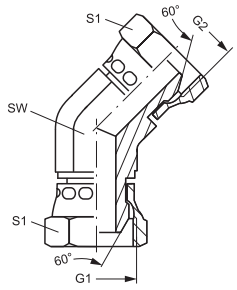
www ...GAB

G1	G2	L1	L2	S1	S2	d1 Ø	d2 Ø	Item no.
		mm	mm					
G 1/8" -28	G 1/8" -28	21	30	14	14	3.5	3.5	**GAB02**
G 1/4" -19	G 1/8" -28	22	31.5	19	14	3.5	3.5	**GAB04AB02**
G 1/4" -19	G 1/4" -19	23	33	19	19	4.5	4.5	**GAB04**
G 3/8" -19	G 1/4" -19	26.5	38	22	19	7.1	4.5	**GAB06AB04**
G 3/8" -19	G 3/8" -19	26	39	22	22	7.1	7.1	**GAB06**
G 1/2" -14	G 1/4" -19	29.5	41.5	27	19	9.7	4.5	**GAB08AB04**
G 1/2" -14	G 3/8" -19	30.5	44	27	22	9.7	7.1	**GAB08AB06**
G 1/2" -14	G 1/2" -14	31	45	27	27	9.7	9.7	**GAB08**
G 5/8" -14	G 3/8" -19	30	46.5	30	22	12	7.1	**GAB10AB06**
G 5/8" -14	G 1/2" -14	32	49	30	27	12	9.7	**GAB10AB08**
G 5/8" -14	G 5/8" -14	29	49	30	30	12	12	**GAB10**

G1	G2	L1	L2	S1	S2	d1 Ø	d2 Ø	Item no.
		mm	mm					
G 3/4" -14	G 3/8" -19	32.5	48	32	22	15.5	7.1	GAB12AB06
G 3/4" -14	G 1/2" -14	34.5	50.5	32	27	15.5	9.7	GAB12AB08
G 3/4" -14	G 5/8" -14	32.5	30	32	30	15.5	12	GAB12AB10
G 3/4" -14	G 3/4" -14	32	50	32	32	15.5	15.5	GAB12
G 1" -11	G 3/8" -19	37	54.5	41	22	20.4	7.1	GAB16AB06
G 1" -11	G 1/2" -14	39	57	41	27	20.4	9.7	GAB16AB08
G 1" -11	G 3/4" -14	37.5	57.5	41	32	20.4	15.5	GAB16AB12
G 1" -11	G 1" -11	38	60	41	41	20.4	20.4	GAB16
G 1.1/4" -11	G 1" -11	45.5	67	50	41	26	20.4	GAB20AB16
G 1.1/4" -11	G 1.1/4" -11	47	68	50	50	26	26	GAB20
G 1.1/2" -11	G 1.1/2" -11	46	72	60	60	30.8	30.8	GAB24
G 2" -11	G 2" -11	51	84	70	70	43.5	43.5	GAB32

Product variants:

Union connector, ISO 8434-6, DKR 60°, straight, stainless steel, G AB VA	**...GABVA**

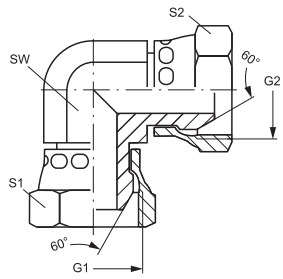


Swivel connector, ISO 8434-6, DKR 60°, elbow 45°, steel

Type: angle 45°
Sealing form 2: 60° outer cone

www ...W45AB

G1 + G2	S1	S2	SW	Item no.
			mm	
G 1/4" -19	19	19	14	W45AB04
G 3/8" -19	22	22	19	W45AB06
G 1/2" -14	27	27	22	W45AB08
G 3/4" -14	32	32	27	W45AB12
G 1" -11	41	41	33	W45AB16



Swivel connector, ISO 8434-6, DKR 60°, elbow 90°, steel

Type: angle 90°

www ...W90AB

S1 + S2	G1 + G2	SW	Item no.
mm		mm	
14	G 1/8" -28	11	W90AB02
19	G 1/4" -19	14	W90AB04
22	G 3/8" -19	19	W90AB06
27	G 1/2" -14	22	W90AB08
27	G 5/8" -14	25	W90AB10
32	G 3/4" -14	27	W90AB12
41	G 1" -11	33	W90AB16
50	G 1.1/4" -11	41	W90AB20
60	G 1.1/2" -11	48	W90AB24
70	G 2" -11	67	W90AB32

Product variants:

Swivel connector, ISO 8434-6, DKR 60°, elbow 90°, stainless steel, W90 AB VA	**...W90ABVA**

Union connector, ISO 8434-6, AGR 60°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: connectors
Sealing form 1: 60° inner cone
Sealing form 2: 60° inner cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

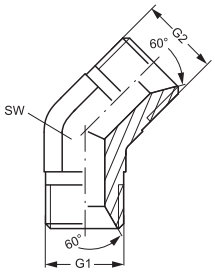
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.





Union connector, ISO 8434-6, AGR 60°, elbow 45°, steel

Type: angle 45°

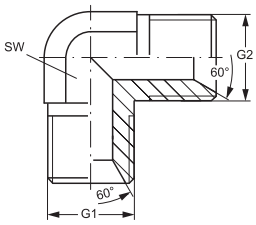


www ...W45HB

G1 + G2	SW	Item no.
	mm	
G 1/4" -19	14	**W45HB04**
G 3/8" -19	19	**W45HB06**
G 1/2" -14	22	**W45HB08**
G 3/4" -14	27	**W45HB12**
G 1" -11	33	**W45HB16**
G 1.1/4" -11	41	**W45HB20**
G 1.1/2" -11	50	**W45HB24**

Union connector, ISO 8434-6, AGR 60°, elbow 90°, steel

Type: angle 90°



www ...W90HB

G1	G2	SW	Item no.
		mm	
G 1/8" -28	G 1/8" -28	11	**W90HB02**
G 1/4" -19	G 1/8" -28	14	**W90HB04HB02**
G 1/4" -19	G 1/4" -19	14	**W90HB04**
G 3/8" -19	G 1/4" -19	19	**W90HB06HB04**
G 3/8" -19	G 3/8" -19	19	**W90HB06**
G 1/2" -14	G 3/8" -19	22	**W90HB08HB06**
G 1/2" -14	G 1/2" -14	22	**W90HB08**
G 5/8" -14	G 5/8" -14	22	**W90HB10**
G 3/4" -14	G 1/2" -14	27	**W90HB12HB08**
G 3/4" -14	G 3/4" -14	27	**W90HB12**
G 1" -11	G 3/4" -14	33	**W90HB16HB12**
G 1" -11	G 1" -11	33	**W90HB16**
G 1.1/4" -11	G 1" -11	41	**W90HB20HB16**
G 1.1/4" -11	G 1.1/4" -11	41	**W90HB20**
G 1.1/2" -11	G 1.1/2" -11	50	**W90HB24**
G 2" -11	G 2" -11	55	**W90HB32**

Product variants:

Union connector, ISO 8434-6, AGR 60°, elbow 90°, stainless steel, W90 HB VA	**...W90HBVA**

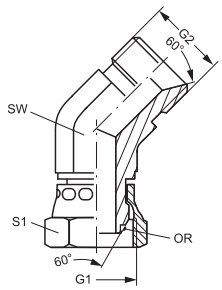




Union connector, ISO 8434-6, DKOR 60°, AGR 60°, steel

Connection 1: BSPP nut thread
Connection 2: BSPP male thread, cylindric
Construction type: connectors
Sealing form 1: 60° outer cone with O-ring
Sealing form 2: 60° inner cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

2

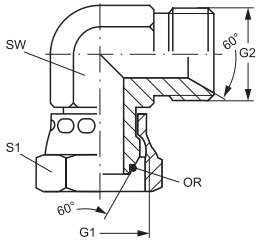


Swivel connector, ISO 8434-6, DKOR 60°, AGR 60°, elbow 45°, steel

Type: angle 45°

www ...W45AOBHB

OR	G1 + G2	S1	SW	Item no.
			mm	
without O-ring	G 1/8" -28	14	11	**W45AOB02HB**
6.5 x 1.0	G 1/4" -19	17	14	**W45AOB04HB**
8.1 x 1.6	G 3/8" -19	22	19	**W45AOB06HB**
12.1 x 1.6	G 1/2" -14	27	22	**W45AOB08HB**
13.0 x 1.6	G 5/8" -14	27	25	**W45AOB10HB**
17.1 x 1.6	G 3/4" -14	32	37	**W45AOB12HB**
22.1 x 1.6	G 1" -11	41	33	**W45AOB16HB**
29.1 x 1.6	G 1.1/4" -11	50	41	**W45AOB20HB**
35.1 x 1.6	G 1.1/2" -11	60	50	**W45AOB24HB**



Swivel connector, ISO 8434-6, DKOR 60°, AGR 60°, elbow 90°, steel

Type: angle 90°

www ...W90AOBHB

OR	G1 + G2	S1	SW	Item no.
			mm	
4.5 x 1.5	G 1/8" -28	14	11	**W90AOB02HB**
6.5 x 1.0	G 1/4" -19	17	14	**W90AOB04HB**
8.1 x 1.6	G 3/8" -19	22	19	**W90AOB06HB**
12.1 x 1.6	G 1/2" -14	27	22	**W90AOB08HB**
13.1 x 1.6	G 5/8" -14	27	25	**W90AOB10HB**
17.1 x 1.6	G 3/4" -14	32	27	**W90AOB12HB**
22.1 x 1.6	G 1" -11	41	33	**W90AOB16HB**
29.1 x 1.6	G 1.1/4" -11	50	41	**W90AOB20HB**
35.1 x 1.6	G 1.1/2" -11	60	50	**W90AOB24HB**

Union connector, ISO 8434-6, DKR 60°, AGR 60°, steel

Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

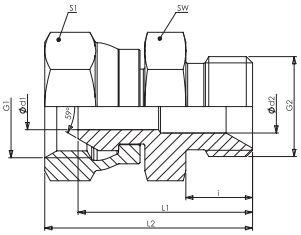






Union connector, ISO 8434-6, DKR 60°, AGR 60°, straight, steel

Connection 1: BSPP nut thread
Connection 2: BSPP male thread, cylindric
Construction type: connectors
Type: straight
Sealing form 1: 60° outer cone
Sealing form 2: 60° inner cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel



www ...GABHB

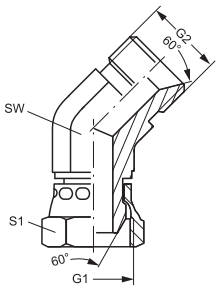
G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
G 1/8" -28	G 1/8" -28	8	22	26.5	14	12	3.5	3.5	**GAB02HB**
G 1/8" -28	G 1/4" -19	11	28	32.5	14	17	3.5	4.7	**GAB02HB04**
G 1/4" -19	G 1/8" -28	8	23	28	19	12	4.5	3.5	**GAB04HB02**
G 1/4" -19	G 1/4" -19	11	31	36	19	17	4.5	4.5	**GAB04HB**
G 1/4" -19	G 3/8" -19	12	33	38	19	19	4.5	7.9	**GAB04HB06**
G 1/4" -19	G 1/2" -14	14	35	40	19	22	4.5	11.1	**GAB04HB08**
G 3/8" -19	G 1/4" -19	11	30.5	37	22	17	7.1	4.7	**GAB06HB04**
G 3/8" -19	G 3/8" -19	12	35	41.5	22	19	7.1	7.1	**GAB06HB**
G 3/8" -19	G 1/2" -14	14	36.5	43	22	22	7.1	11.1	**GAB06HB08**
G 3/8" -19	G 3/4" -14	16	42	48.5	22	30	7.1	16.7	**GAB06HB12**
G 1/2" -14	G 1/4" -19	11	36	43	27	19	9.7	4.7	**GAB08HB04**
G 1/2" -14	G 3/8" -19	12	37	44	27	19	9.7	7.9	**GAB08HB06**
G 1/2" -14	G 1/2" -14	14	41	48	27	22	9.7	9.7	**GAB08HB**
G 1/2" -14	G 5/8" -14	16	41	48	27	24	9.7	14.3	**GAB08HB10**
G 1/2" -14	G 3/4" -14	16	44.5	51.5	27	30	9.7	16.7	**GAB08HB12**
G 1/2" -14	G 1" -11	19	47.5	54.5	27	36	9.7	22.2	**GAB08HB16**
G 5/8" -14	G 3/8" -19	12	36	46	30	22	12	7.9	**GAB10HB06**
G 5/8" -14	G 1/2" -14	14	38	48	30	22	11.1	11.1	**GAB10HB08**
G 5/8" -14	G 5/8" -14	16	42	52	30	24	12	14.3	**GAB10HB**
G 5/8" -14	G 3/4" -14	16	43.5	53.5	30	30	12	16.7	**GAB10HB12**
G 5/8" -14	G 1" -11	19	46.5	56.5	30	36	12	19	**GAB10HB16**
G 3/4" -14	G 3/8" -19	12	38.5	47.5	32	27	15.5	7.9	**GAB12HB06**
G 3/4" -14	G 1/2" -14	14	40.5	49.5	32	27	15.5	11.1	**GAB12HB08**
G 3/4" -14	G 5/8" -14	16	42.5	51.5	32	27	14.3	14.3	**GAB12HB10**
G 3/4" -14	G 3/4" -14	16	45	54	32	30	15.5	15.5	**GAB12HB**
G 3/4" -14	G 1" -11	19	48	57	32	36	15.5	22.2	**GAB12HB16**
G 3/4" -14	G 1.1/4" -11	20	47.5	56.5	32	46	15.5	28.6	**GAB12HB20**
G 1" -11	G 1/2" -14	14	46.5	57.5	41	32	20.4	11.1	**GAB16HB08**
G 1" -11	G 5/8" -14	16	48.5	59.5	41	32	20.4	14.3	**GAB16HB10**

→

G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
G 1" -11	G 3/4" -14	16	48.5	59.5	41	32	20.4	16.7	**GAB16HB12**
G 1" -11	G 1" -11	19	51	62	41	36	20.4	20.4	**GAB16HB**
G 1" -11	G 1.1/4" -11	20	50.5	61.5	41	46	20.4	28.6	**GAB16HB20**
G 1.1/4" -11	G 3/4" -14	16	54	64.5	50	41	26	16.7	**GAB20HB12**
G 1.1/4" -11	G 1" -11	19	57	67.5	50	41	26	22.2	**GAB20HB16**
G 1.1/4" -11	G 1.1/4" -11	20	55	65.5	50	46	26	26	**GAB20HB**
G 1.1/4" -11	G 1.1/2" -11	22	62	72.5	50	50	26	33.3	**GAB20HB24**
G 1.1/2" -11	G 1.1/4" -11	20	54.5	67.5	55	46	28.6	28.6	**GAB24HB20**
G 1.1/2" -11	G 1.1/2" -11	22	64	77	55	50	30.8	30.8	**GAB24HB**
G 1.1/2" -11	G 2" -11	25	66.5	79.5	55	65	30.8	46	**GAB24HB32**
G 2" -11	G 1.1/2" -11	22	66	82.5	70	60	43.5	33.3	**GAB32HB24**
G 2" -11	G 2" -11	25	69	85.5	70	65	43.5	43.5	**GAB32HB**

Product variants:

Union connector, ISO 8434-6, DKR 60°, AGR 60°, straight, stainless steel, G AB HB VA **...GABHBVA**



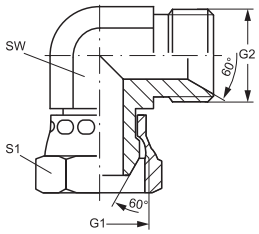
Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 45°, steel

Connection 1: BSPP nut thread
Connection 2: BSPP male thread, cylindric
Construction type: connectors
Type: angle 45°
Sealing form 1: 60° outer cone
Sealing form 2: 60° inner cone

www **...W45ABHB**

G1 + G2	S1	SW	Item no.
		mm	
G 1/4" -19	19	14	**W45AB04HB**
G 3/8" -19	22	17	**W45AB06HB**
G 1/2" -14	27	22	**W45AB08HB**
G 3/4" -14	32	27	**W45AB12HB**
G 1" -11	41	36	**W45AB16HB**
G 1.1/4" -11	50	46	**W45AB20HB**
G 1.1/2" -11	55	50	**W45AB24HB**
G 2" -11	70	60	**W45AB32HB**

Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 90°, steel



Connection 1: BSPP nut thread
Connection 2: BSPP male thread, cylindric
Construction type: connectors
Type: angle 90°
Sealing form 1: 60° outer cone
Sealing form 2: 60° inner cone

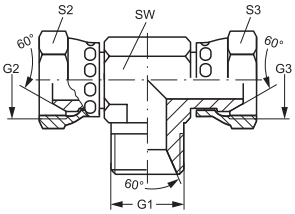
www ...W90ABHB

G1 + G2	S1	SW	Item no.
		mm	
G 1/8" -28	14	10	**W90AB02HB**
G 1/4" -19	19	14	**W90AB04HB**
G 3/8" -19	22	17	**W90AB06HB**
G 1/2" -14	27	22	**W90AB08HB**
G 5/8" -14	30	24	**W90AB10HB**
G 3/4" -14	32	27	**W90AB12HB**
G 1" -11	41	36	**W90AB16HB**
G 1.1/4" -11	50	46	**W90AB20HB**
G 1.1/2" -11	55	50	**W90AB24HB**
G 2" -11	70	60	**W90AB32HB**

Product variants:

Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 90°, stainless steel, W90 AB HB VA	**...W90ABHBVA**

Union connector, ISO 8434-6, AGR 60°, DKR 60°, T shape, steel



Connection 1: BSPP male thread, cylindric
Connection 2: BSPP nut thread
Connection 3: BSPP nut thread
Construction type: screw-in socket
Type: T shape
Sealing form 1: 60° inner cone
Sealing form 2: 60° outer cone
Sealing form 3: 60° outer cone

www ...THBAB

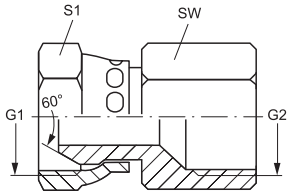
G1	G2 + G3	S2 + S3	SW	Item no.
			mm	
G 1/4" -19	G 1/4" -19	19	14	**THB04AB**
G 3/8" -19	G 3/8" -19	22	19	**THB06AB**
G 1/2" -14	G 1/2" -14	27	22	**THB08AB**
G 3/4" -14	G 3/4" -14	32	27	**THB12AB**
G 1" -11	G 1" -11	41	33	**THB16AB**



Union connector, ISO 8434-6, DKR 60°, IGR, straight, steel

Connection 1: BSPP nut thread
Connection 2: BSPP female thread, cylindric
Construction type: screw-on connector
Type: straight
Sealing form 1: 60° outer cone
Sealing form 2: flat seal
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GABIR

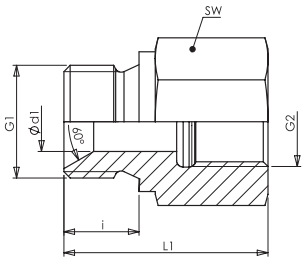
G1 + G2	S1	SW	Item no.
		mm	
G 1/8" -28	14	14	GAB02IR
G 1/4" -19	19	17	GAB04IR
G 3/8" -19	22	22	GAB06IR
G 1/2" -14	27	27	GAB08IR
G 3/4" -14	32	32	GAB12IR
G 1" -11	41	43	GAB16IR
G 1.1/4" -11	50	50	GAB20IR
G 1.1/2" -11	60	60	GAB24IR



Union connector, ISO 8434-6, AGR 60°, IGR, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: screw-on socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: flat seal
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHBIR

G1	G2	i	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
G 1/8" -28	G 1/8" -28	8	23	14	3.5	GHB02IR
G 1/8" -28	G 1/4" -19	8	29	19	3.5	GHB02IR04
G 1/4" -19	G 1/8" -28	12	28	19	4.7	GHB04IR02
G 1/4" -19	G 1/4" -19	12	33	19	4.7	GHB04IR
G 1/4" -19	G 3/8" -19	12	36	22	4.7	GHB04IR06
G 1/4" -19	G 1/2" -14	12	38	27	4.7	GHB04IR08
G 3/8" -19	G 1/8" -28	12	21	22	8.8	GHB06IR02
G 3/8" -19	G 1/4" -19	12	33.5	22	7.9	GHB06IR04
G 3/8" -19	G 3/8" -19	12	37.5	22	7.9	GHB06IR
G 3/8" -19	G 1/2" -14	12	42.5	27	7.9	GHB06IR08
G 1/2" -14	G 1/8" -28	14	24	27	8.8	GHB08IR02
G 1/2" -14	G 1/4" -19	14	24	27	11.8	GHB08IR04
G 1/2" -14	G 3/8" -19	14	38	27	11.1	GHB08IR06
G 1/2" -14	G 1/2" -14	14	45	27	11.1	GHB08IR
G 1/2" -14	G 3/4" -14	14	44.5	36	11.1	GHB08IR12
G 3/4" -14	G 1/4" -19	16	26	32	11.8	GHB12IR04
G 3/4" -14	G 3/8" -19	16	26	32	15.25	GHB12IR06
G 3/4" -14	G 1/2" -14	16	43	32	6.7	GHB12IR08
G 3/4" -14	G 3/4" -14	16	48	36	16.7	GHB12IR
G 3/4" -14	G 1" -11	16	53.5	41	16.7	GHB12IR16
G 1" -11	G 3/8" -19	18	30	41	15.25	GHB16IR06

G1	G2	i	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
G 1" -11	G 1/2" -14	18	30	41	19	**GHB16IR08**
G 1" -11	G 3/4" -14	18	47.5	41	22.2	**GHB16IR12**
G 1" -11	G 1" -11	18	55.5	41	22.2	**GHB16IR**
G 1" -11	G 1.1/4" -11	18	56.5	50	22.2	**GHB16IR20**
G 1.1/4" -11	G 1/4" -19	20	33	50	11.8	**GHB20IR04**
G 1.1/4" -11	G 1/2" -14	20	33	50	19	**GHB20IR08**
G 1.1/4" -11	G 3/4" -14	20	33	50	24.5	**GHB20IR12**
G 1.1/4" -11	G 1" -11	20	33	50	30.75	**GHB20IR16**
G 1.1/4" -11	G 1.1/4" -11	20	55	50	28.6	**GHB20IR**
G 1.1/4" -11	G 1.1/2" -11	20	59	60	28.6	**GHB20IR24**
G 1.1/2" -11	G 3/4" -14	22	38	55	24.5	**GHB24IR12**
G 1.1/2" -11	G 1" -11	22	38	55	30.75	**GHB24IR16**
G 1.1/2" -11	G 1.1/4" -11	22	54.5	55	33.3	**GHB24IR20**
G 1.1/2" -11	G 1.1/2" -11	22	60	55	33.3	**GHB24IR**
G 1.1/2" -11	G 2" -11	22	64	70	33.3	**GHB24IR32**
G 2" -11	G 1" -11	24	44	70	30.75	**GHB32IR16**
G 2" -11	G 1.1/4" -11	24	44	70	39.25	**GHB32IR20**
G 2" -11	G 1.1/2" -11	24	44	70	45.25	**GHB32IR24**
G 2" -11	G 2" -11	24	63	70	46	**GHB32IR**

Product variants:

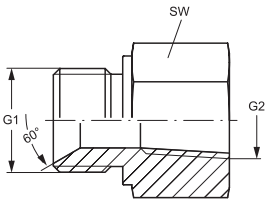
Union connector, ISO 8434-6, AGR 60°, IGR, straight, stainless steel, G HB IR VA	**...GHBIRVA**

Union connector, ISO 8434-6, AGR 60°, IGR tapered, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: BSPT female thread conical
Construction type: screw-on socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: thread seal
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHBIR-K

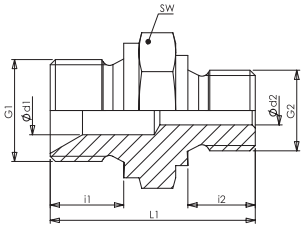
G1	G2	SW	Item no.
		mm	
G 1/4" -19	R 1/4" K	19	**GHB04IRK**
G 3/8" -19	R 3/8" K	22	**GHB06IRK**
G 1/2" -14	R 1/2" K	27	**GHB08IRK**



Union connector, ISO 8434-6, AGR 60°, AGR flat, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: flat seal
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHBHR

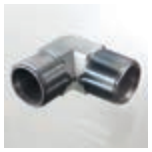
G1	G2	i1	i2	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	mm	
G 1/4" -19	G 1/8" -28	11	8	28.5	19	4.7	3.5	**GEHB04HR02**
G 1/4" -19	G 1/4" -19	11	11	32.0	19	4.7	4.7	**GEHB04HR**
G 1/4" -19	G 3/8" -19	11	12	33.5	22	4.7	7.9	**GEHB04HR06**
G 3/8" -19	G 1/4" -19	12	11	33.5	22	7.9	4.7	**GEHB06HR04**
G 3/8" -19	G 3/8" -19	12	12	35.0	22	7.9	7.9	**GEHB06HR**
G 1/2" -14	G 3/8" -19	14	12	38.5	27	11.1	7.9	**GEHB08HR06**
G 1/2" -14	G 1/2" -14	14	14	41.0	27	11.1	11.1	**GEHB08HR**
G 1/2" -14	G 3/4" -14	14	16	45.0	32	11.1	16.7	**GEHB08HR12**
G 5/8" -14	G 1/2" -14	16	14	43.0	30	14.3	11.1	**GEHB10HR08**
G 5/8" -14	G 5/8" -14	16	16	45.0	30	14.3	14.3	**GEHB10HR**
G 5/8" -14	G 3/4" -14	16	16	47.0	32	14.3	16.7	**GEHB10HR12**
G 3/4" -14	G 1/2" -14	16	14	45.0	32	16.7	11.1	**GEHB12HR08**
G 3/4" -14	G 5/8" -14	16	16	47.0	32	16.7	14.3	**GEHB12HR10**
G 3/4" -14	G 3/4" -14	16	16	47.0	32	16.7	16.7	**GEHB12HR**
G 1" -11	G 3/4" -14	19	16	51.0	41	22.2	16.7	**GEHB16HR12**
G 1" -11	G 1" -11	19	19	54.0	41	22.2	22.2	**GEHB16HR**
G 1.1/4" -11	G 1.1/4" -11	20	20	58.0	50	28.6	28.6	**GEHB20HR**
G 1.1/2" -11	G 1.1/4" -11	22	20	62.0	55	33.3	28.6	**GEHB24HR20**
G 1.1/2" -11	G 1.1/2" -11	22	22	64.0	55	33.3	33.3	**GEHB24HR**

Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, steel

Connection 1: BSPP male thread, cylindric
Connection 2: NPT external threads
Construction type: screw-in socket
Sealing form 1: 60° inner cone
Sealing form 2: thread seal
Standard connection 2: SAE J 514
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

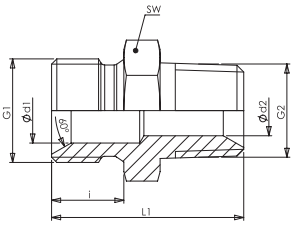






Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, straight, steel

Type: straight



www ...GEHBHN

G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
G 1/8" -28	1/8" -27 NPT	8	23.5	11	3.5	3.5	**GEHB02HN**
G 1/8" -28	1/4" -18 NPT	8	27.5	17	3.5	4.7	**GEHB02HN04**
G 1/4" -19	1/8" -27 NPT	11	27.5	17	4.7	3.5	**GEHB04HN02**
G 1/4" -19	1/4" -18 NPT	11	30.5	17	4.7	4.7	**GEHB04HN**
G 1/4" -19	3/8" -18 NPT	11	31	17	4.7	7.9	**GEHB04HN06**
G 1/4" -19	1/2" -14 NPT	11	36.5	22	4.7	11.1	**GEHB04HN08**
G 1/4" -19	3/4" -14 NPT	11	39	27	4.7	16.7	**GEHB04HN12**
G 3/8" -19	1/8" -27 NPT	12	28.5	17	7.9	3.5	**GEHB06HN02**
G 3/8" -19	1/4" -18 NPT	12	31.5	17	7.9	4.7	**GEHB06HN04**
G 3/8" -19	3/8" -18 NPT	12	32	17	7.9	7.9	**GEHB06HN**
G 3/8" -19	1/2" -14 NPT	12	37.5	22	7.9	18.5	**GEHB06HN08**
G 3/8" -19	3/4" -14 NPT	12	40	27	7.9	16.7	**GEHB06HN12**
G 3/8" -19	1" -11.5 NPT	12	45	36	7.9	22.2	**GEHB06HN16**
G 1/2" -14	1/4" -18 NPT	14	34.5	22	11.1	4.7	**GEHB08HN04**
G 1/2" -14	3/8" -18 NPT	14	35	22	11.1	7.9	**GEHB08HN06**
G 1/2" -14	1/2" -14 NPT	14	39.5	22	11.1	11.1	**GEHB08HN**
G 1/2" -14	3/4" -14 NPT	14	42	27	11.1	11.1	**GEHB08HN12**
G 1/2" -14	1" -11.5 NPT	14	47	36	11.1	22.2	**GEHB08HN16**
G 5/8" -14	1/2" -14 NPT	16	42.5	27	14.3	11.1	**GEHB10HN08**
G 5/8" -14	3/4" -14 NPT	16	44	27	14.3	16.7	**GEHB10HN12**
G 3/4" -14	1/4" -18 NPT	16	37.5	27	16.7	4.7	**GEHB12HN04**
G 3/4" -14	3/8" -18 NPT	16	38	27	16.7	7.9	**GEHB12HN06**
G 3/4" -14	1/2" -14 NPT	16	42.5	27	16.7	11.1	**GEHB12HN08**
G 3/4" -14	3/4" -14 NPT	16	44	27	16.7	16.7	**GEHB12HN**
G 3/4" -14	1" -11.5 NPT	16	49	36	16.7	22.2	**GEHB12HN16**
G 3/4" -14	1.1/4" -11.5 NPT	16	52	46	16.7	28.6	**GEHB12HN20**
G 1" -11	1/2" -14 NPT	19	46.5	36	22.2	11.1	**GEHB16HN08**
G 1" -11	3/4" -14 NPT	19	48	36	22.2	16.7	**GEHB16HN12**
G 1" -11	1" -11.5 NPT	19	52	36	22.2	22.2	**GEHB16HN**
G 1" -11	1.1/4" -11.5 NPT	19	55	46	22.2	28.6	**GEHB16HN20**
G 1" -11	1.1/2" -11.5 NPT	19	56	50	22.2	33.3	**GEHB16HN24**
G 1" -11	2" -11.5 NPT	19	63	65	22.2	46	**GEHB16HN32**
G 1.1/4" -11	3/4" -14 NPT	20	50	46	28.6	16.7	**GEHB20HN12**
G 1.1/4" -11	1" -11.5 NPT	20	54	46	28.6	22.2	**GEHB20HN16**
G 1.1/4" -11	1.1/4" -11.5 NPT	20	56	46	28.6	28.6	**GEHB20HN**
G 1.1/4" -11	1.1/2" -11.5 NPT	20	57	50	28.6	33.3	**GEHB20HN24**

→

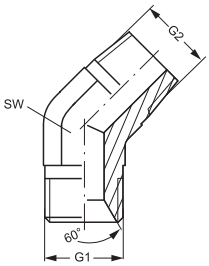
G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	
G 1.1/2" -11	1" -11.5 NPT	22	56	50	33.3	24	**GEHB24HN16**
G 1.1/2" -11	1.1/4" -11.5 NPT	22	58	50	33.3	28.6	**GEHB24HN20**
G 1.1/2" -11	1.1/2" -11.5 NPT	22	59	50	33.3	33.3	**GEHB24HN**
G 1.1/2" -11	2" -11.5 NPT	22	66	65	33.3	46	**GEHB24HN32**
G 2" -11	1.1/4" -11.5 NPT	25	64	65	46	28.6	**GEHB32HN20**
G 2" -11	1.1/2" -11.5 NPT	25	65	65	46	33.3	**GEHB32HN24**
G 2" -11	2" -11.5 NPT	25	69	65	46	46	**GEHB32HN**

Product variants:

Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, straight, stainless steel, GE HB HN VA **...GEHBHNVA**

Accessories:

PTFE sealing tape, TF BAND Page 494



Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, elbow 45°, steel

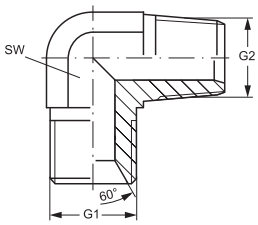
Type: angle 45°

www **...W45HBHN**

G1	G2	SW	Item no.
		mm	
G 1/4" -19	1/4" -18 NPT	14	**W45HB04HN**
G 3/8" -19	3/8" -18 NPT	19	**W45HB06HN**
G 1/2" -14	1/2" -14 NPT	22	**W45HB08HN**
G 1.1/4" -11	1.1/4" -11.5 NPT	41	**W45HB20HN**

Accessories:

PTFE sealing tape, TF BAND Page 494



Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, elbow 90°, steel

Type: angle 90°

www **...W90HBHN**

G1	G2	SW	Item no.
		mm	
G 1/8" -28	1/8" -27 NPT	11	**W90HB02HN**
G 1/4" -19	1/8" -27 NPT	14	**W90HB04HN02**
G 1/4" -19	1/4" -18 NPT	14	**W90HB04HN**
G 3/8" -19	1/4" -18 NPT	19	**W90HB06HN04**
G 3/8" -19	3/8" -18 NPT	19	**W90HB06HN**
G 3/8" -19	1/2" -14 NPT	22	**W90HB06HN08**
G 1/2" -14	3/8" -18 NPT	22	**W90HB08HN06**
G 1/2" -14	1/2" -14 NPT	22	**W90HB08HN**
G 3/4" -14	1/2" -14 NPT	27	**W90HB12HN08**
G 3/4" -14	3/4" -14 NPT	27	**W90HB12HN**
G 1" -11	1" -11.5 NPT	33	**W90HB16HN**
G 1.1/4" -11	1.1/4" -11.5 NPT	41	**W90HB20HN**
G 1.1/2" -11	1.1/2" -11.5 NPT	50	**W90HB24HN**
G 2" -11	2" -11.5 NPT	55	**W90HB32HN**

Accessories:

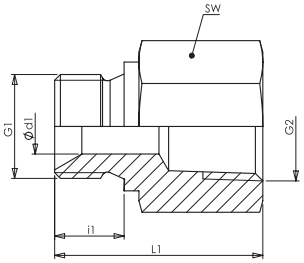
PTFE sealing tape, TF BAND Page 494

Union connector, ISO 8434-6, AGR, 60°, IGN, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: NPT internal threads
Construction type: screw-on socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: thread seal
Standard connection 2: SAE J 514
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHBIN

d1	G1	G2	i1	L1	SW	Item no.
mm			mm	mm	mm	
3.5	G 1/8" -28	1/8" -27 NPT	8	23	17	**GHB02IN**
3.5	G 1/8" -28	1/4" -18 NPT	8	28	19	**GHB02IN04**
4.7	G 1/4" -19	1/4" -18 NPT	11	30	19	**GHB04IN**
4.7	G 1/4" -19	3/8" -18 NPT	11	33	22	**GHB04IN06**
7.9	G 3/8" -19	1/4" -18 NPT	12	32	22	**GHB06IN04**
7.9	G 3/8" -19	3/8" -18 NPT	12	33	22	**GHB06IN**
11.1	G 1/2" -14	1/2" -14 NPT	14	42	30	**GHB08IN**
16.7	G 3/4" -14	3/4" -14 NPT	16	44.5	36	**GHB12IN**
22.2	G 1" -11	1" -11.5 NPT	19	52	41	**GHB16IN**
28.6	G 1.1/4" -11	1.1/4" -11.5 NPT	20	55	50	**GHB20IN**
33.3	G 1.1/2" -11	1.1/2" -11.5 NPT	22	57	60	**GHB24IN**

Product variants:

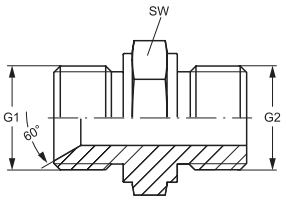
Union connector, ISO 8434-6, AGR, 60°, IGN, straight, stainless steel, G HB IN VA	**...GHBINVA**

Union connector, ISO 8434-6, AGR 60°, AGM flat, straight, steel



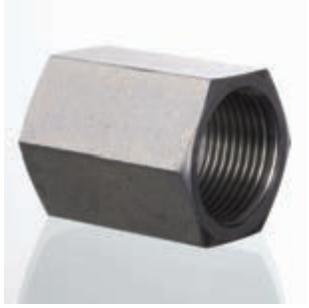
Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: type A
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHBM

G1	G2	SW	Item no.
		mm	
G 1/2" -14	M 18 x 1.5	27	**GEHB08M18**





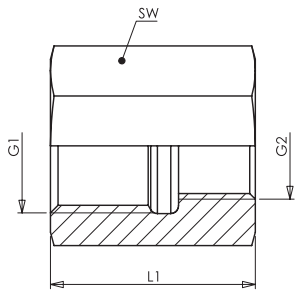


Union connector, IGR, steel

Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Union connector, IGR, straight, steel

Connection 1: BSPP female thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: connection socket
Type: straight

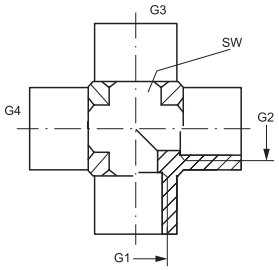
www ...GIR

G1	G2	L1	SW	Item no.
		mm	mm	
G 1/8" -28	G 1/8" -28	20	14	**GIR02**
G 1/4" -19	G 1/8" -28	24	19	**GIR04IR02**
G 1/4" -19	G 1/4" -19	27	19	**GIR04**
G 3/8" -19	G 1/4" -19	27	22	**GIR06IR04**
G 3/8" -19	G 3/8" -19	27	22	**GIR06**
G 1/2" -14	G 1/4" -19	33	27	**GIR08IR04**
G 1/2" -14	G 3/8" -19	32	27	**GIR08IR06**
G 1/2" -14	G 1/2" -14	35	27	**GIR08**
G 5/8" -14	G 1/2" -14	36	30	**GIR10IR08**
G 5/8" -14	G 5/8" -14	40	30	**GIR10**
G 3/4" -14	G 1/2" -14	36	32	**GIR12IR08**
G 3/4" -14	G 3/4" -14	40	32	**GIR12**
G 1" -11	G 3/4" -14	45	41	**GIR16IR12**
G 1" -11	G 1" -11	45	41	**GIR16**
G 1.1/4" -11	G 3/4" -14	45	50	**GIR20IR12**
G 1.1/4" -11	G 1" -11	50	50	**GIR20IR16**
G 1.1/4" -11	G 1.1/4" -11	50	50	**GIR20**
G 1.1/2" -11	G 1.1/4" -11	52	55	**GIR24IR20**
G 1.1/2" -11	G 1.1/2" -11	55	55	**GIR24**
G 2" -11	G 1.1/2" -11	59	70	**GIR32IR24**
G 2" -11	G 2" -11	60	70	**GIR32**

Product variants:

Union connector, IGR, straight, stainless steel, G IR VA	**...GIRVA**

Union connector, IGR, cross shape, steel

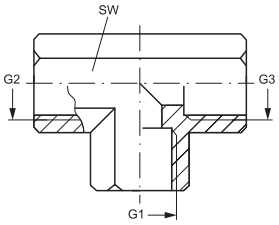


Sealing form 1 - 4: type A
Connection 1 - 4: BSPP female thread, cylindric
Construction type: screw-on socket
Type: cross shape

www ...KIR

G1 - G4	SW	Item no.
	mm	
G 1/8" -28	14	KIR02
G 1/4" -19	19	KIR04
G 3/8" -19	22	KIR06
G 1/2" -14	27	KIR08
G 3/4" -14	33	KIR12
G 1" -11	41	KIR16

Union connector, IGR, T shape, steel

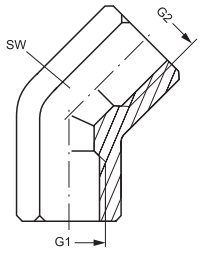


Connection 1 - 3: BSPP female thread, cylindric
Construction type: screw-on socket
Type: T shape
Sealing form 1 - 3: type A

www ...TIR

G1 - G3	SW	Item no.
	mm	
G 1/8" -28	14	TIR02
G 1/4" -19	19	TIR04
G 3/8" -19	22	TIR06
G 1/2" -14	27	TIR08
G 3/4" -14	33	TIR12
G 1" -11	41	TIR16
G 1.1/4" -11	50	TIR20
G 1.1/2" -11	60	TIR24
G 2" -11	70	TIR32

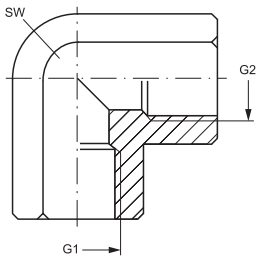
Union connector, IGR, elbow 45°, steel



Connection 1: BSPP female thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: connection socket
Type: angle 45°
Sealing form 1: flat seal
Sealing form 2: flat seal

www ...W45IR

G1 + G2	SW	Item no.
	mm	
G 1/8" -28	17	W45IR02
G 1/4" -19	19	W45IR04
G 3/8" -19	22	W45IR06
G 1/2" -14	27	W45IR08
G 3/4" -14	33	W45IR12
G 1" -11	41	W45IR16



Union connector, IGR, elbow 90°, steel

Connection 1: BSPP female thread, cylindric
Connection 2: BSPP female thread, cylindric
Construction type: connection socket
Type: angle 90°
Sealing form 1: flat seal
Sealing form 2: flat seal

www ...W90IR

G1 + G2	SW	Item no.
	mm	
G 1/8" -28	17	W90IR02
G 1/4" -19	19	W90IR04
G 3/8" -19	22	W90IR06
G 1/2" -14	27	W90IR08
G 3/4" -14	33	W90IR12
G 1" -11	41	W90IR16
G 1.1/4" -11	48	W90IR20
G 1.1/2" -11	64	W90IR24
G 2" -11	73	W90IR32



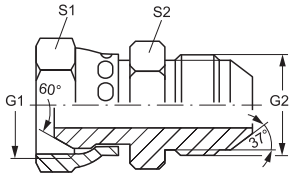




Union connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, steel

Connection 1: BSPP nut thread
Connection 2: UN/UNF external threads
Construction type: connectors
Sealing form 2: 37° external cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



Union connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, straight, steel

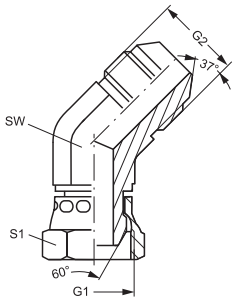
Type: straight
Sealing form 1: 60° outer cone
Standard connection 1: ISO 8434-2
Standard: ISO 8434-6

www ...GABHJ

G1	G2	S1	S2	Item no.
G 1/8" -28	7/16" -20 UNF	14	13	GAB02HJ04
G 1/4" -19	7/16" -20 UNF	19	19	GAB04HJ
G 1/4" -19	1/2" -20 UNF	19	19	GAB04HJ05
G 1/4" -19	9/16" -18 UNF	19	16	GAB04HJ06
G 3/8" -19	7/16" -20 UNF	22	19	GAB06HJ04
G 3/8" -19	9/16" -18 UNF	22	19	GAB06HJ
G 3/8" -19	3/4" -16 UNF	22	19	GAB06HJ08
G 3/8" -19	7/8" -14 UNF	22	24	GAB06HJ10

G1	G2	S1	S2	Item no.
G 1/2" -14	7/16" -20 UNF	27	22	**GAB08HJ04**
G 1/2" -14	9/16" -18 UNF	27	22	**GAB08HJ06**
G 1/2" -14	3/4" -16 UNF	27	22	**GAB08HJ**
G 1/2" -14	7/8" -14 UNF	27	24	**GAB08HJ10**
G 3/4" -14	7/8" -14 UNF	32	27	**GAB12HJ10**
G 3/4" -14	1.1/16" -12 UN	32	27	**GAB12HJ**
G 1" -11	1.1/16" -12 UN	41	36	**GAB16HJ12**
G 1" -11	1.5/16" -12 UN	41	46	**GAB16HJ**

Swivel connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, elbow 45°, steel

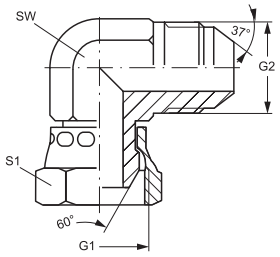


Type: angle 45°
Sealing form 1: 60° inner cone
Standard: ISO 8434-2

www ...W45ABHJ

G1	G2	S1	SW	Item no.
			mm	
G 1/4" -19	7/16" -20 UNF	19	11	**W45AB04HJ**
G 3/8" -19	9/16" -18 UNF	12	14	**W45AB06HJ**
G 1/2" -14	3/4" -16 UNF	27	19	**W45AB08HJ**
G 5/8" -14	7/8" -14 UNF	27	22	**W45AB10HJ**

Swivel connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, elbow 90°, steel



Type: angle 90°
Sealing form 1: 60° inner cone
Standard: ISO 8434-2

www ...W90ABHJ

G1	G2	S1	SW	Item no.
			mm	
G 1/4" -19	7/16" -20 UNF	14	11	**W90AB04HJ**
G 3/8" -19	9/16" -18 UNF	19	14	**W90AB06HJ**
G 1/2" -14	3/4" -16 UNF	22	19	**W90AB08HJ**
G 5/8" -14	7/8" -14 UNF	22	22	**W90AB10HJ**
G 3/4" -14	1.1/16" -12 UN	27	27	**W90AB12HJ**





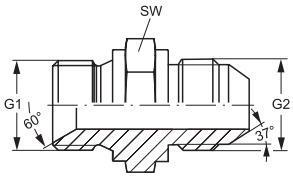


Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, steel

Connection 1: BSPP male thread, cylindric
Connection 2: UN/UNF external threads
Construction type: connection socket
Sealing form 2: 37° external cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



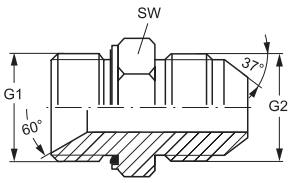
Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, straight, steel

Type: straight
Sealing form 1: 60° inner cone
Standard connection 1: ISO 8434-2
Standard: ISO 8434-6

www ...GHBHJ

G1	G2	SW	Item no.
		mm	
G 1/8" -28	7/8" -14 UNF	24	**GHB02HJ10**
G 1/4" -19	7/8" -14 UNF	24	**GHB04HJ10**
G 1/2" -14	1/2" -20 UNF	27	**GHB08HJ05**
G 1/2" -14	1.3/16" -12 UN	32	**GHB08HJ14**
G 1/2" -14	1.5/16" -12 UN	41	**GHB08HJ16**
G 5/8" -14	3/4" -16 UNF	27	**GHB10HJ08**
G 5/8" -14	7/8" -14 UNF	27	**GHB10HJ**
G 5/8" -14	1.1/16" -12 UN	32	**GHB10HJ12**
G 5/8" -14	1.5/16" -12 UN	41	**GHB10HJ16**
G 3/4" -14	9/16" -18 UNF	32	**GHB12HJ06**
G 3/4" -14	1.3/16" -12 UN	32	**GHB12HJ14**
G 3/4" -14	1.5/8" -12 UN	50	**GHB12HJ20**
G 1" -11	3/4" -16 UNF	41	**GHB16HJ08**
G 1" -11	7/8" -14 UNF	41	**GHB16HJ10**
G 1" -11	1.3/16" -12 UN	41	**GHB16HJ14**
G 1.1/4" -11	1.1/16" -12 UN	50	**GHB20HJ12**
G 1.1/2" -11	1.5/16" -12 UN	55	**GHB24HJ16**
G 1.1/2" -11	2.1/2" -12 UN	60	**GHB24HJ32**
G 2" -11	1.7/8" -12 UN	70	**GHB32HJ24**
G 2" -11	2.1/2" -12 UN	60	**GHB32HJ**

Union connector, ISO 8434-6, AGR soft seal, ISO 1179, type E, AGJ 37°, ISO 8434-2, straight, steel



Type: straight
Sealing form 1: 60° inner cone type E
Standard connection 1: ISO 8434-6
Standard: ISO 8434-2

www ...GHBEDHJ

G1	G2	SW	Item no.
		mm	
G 3/4" -14	1.3/16" -12 UN	32	**GHBED12HJ14**
G 1.1/4" -11	1.1/16" -12 UN	50	**GHBED20HJ12**

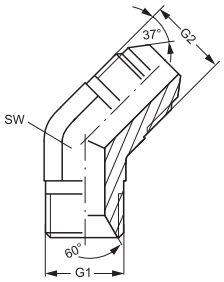
Spare parts:

Soft seal for ED fittings, WD	**...WD**

Product variants:

Union connector, ISO 8434-6, AGR soft seal, ISO 1179, type E, AGJ 37°, ISO 8434-2, straight, stainless steel, G HBED HJ VA	**...GHBEDHJVA**

Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, elbow 45°, steel

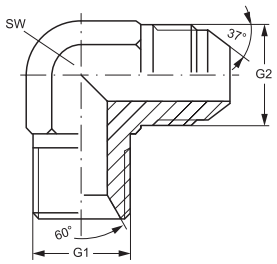


Type: angle 45°
Sealing form 1: 60° inner cone
Standard: ISO 8434-6

www ...W45HBHJ

G1	G2	SW	Item no.
		mm	
G 1/4" -19	7/16" -20 UNF	14	**W45HB04HJ**
G 1/4" -19	1/2" -20 UNF	13	**W45HB04HJ05**
G 3/8" -19	9/16" -18 UNF	19	**W45HB06HJ**
G 3/8" -19	3/4" -16 UNF	19	**W45HB06HJ08**
G 1/2" -14	3/4" -16 UNF	22	**W45HB08HJ**
G 1/2" -14	7/8" -14 UNF	22	**W45HB08HJ10**
G 5/8" -14	7/8" -14 UNF	27	**W45HB10HJ**
G 3/4" -14	1.1/16" -12 UN	27	**W45HB12HJ**
G 1" -11	1.5/16" -12 UN	33	**W45HB16HJ**

Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, elbow 90°, steel



Type: angle 90°
Sealing form 1: 60° inner cone
Standard connection 2: ISO 8434-2
Standard: ISO 8434-6

www ...W90HBHJ

G1	G2	SW	Item no.
		mm	
G 1/4" -19	7/16" -20 UNF	14	**W90HB04HJ**
G 1/4" -19	1/2" -20 UNF	14	**W90HB04HJ05**
G 1/4" -19	9/16" -18 UNF	14	**W90HB04HJ06**

→

G1	G2	SW	Item no.
		mm	
G 3/8" -19	9/16" -18 UNF	19	**W90HB06HJ**
G 3/8" -19	3/4" -16 UNF	19	**W90HB06HJ08**
G 1/2" -14	3/4" -16 UNF	22	**W90HB08HJ**
G 1/2" -14	7/8" -14 UNF	22	**W90HB08HJ10**
G 5/8" -14	7/8" -14 UNF	22	**W90HB10HJ**
G 3/4" -14	1.1/16" -12 UN	27	**W90HB12HJ**
G 1" -11	1.5/16" -12 UN	33	**W90HB16HJ**



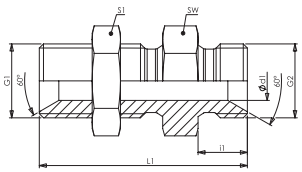




Bulkhead connector, ISO 8434-6, AGR 60°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: bulkhead fitting socket
Sealing form 1: 60° inner cone
Sealing form 2: 60° inner cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



Bulkhead connector, ISO 8434-6, AGR 60°, straight, steel

Type: straight

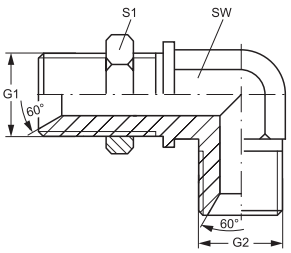
www ...SVHB

G1	G2	i1	L1	S1	SW	Ø d1	Item no.
		mm	mm	mm	mm	mm	
G 1/8"	G 1/8"	8	41.0	14	14	3.5	**SVHB02**
G 1/4"	G 1/4"	11	46.0	19	19	4.7	**SVHB04**
G 3/8"	G 3/8"	12	52.0	22	22	7.9	**SVHB06**
G 1/2"	G 1/2"	14	59.0	27	27	11.1	**SVHB08**
G 5/8"	G 5/8"	16	63.0	30	30	14.3	**SVHB10**
G 3/4"	G 3/4"	16	66.0	32	32	16.7	**SVHB12**
G 1"	G 1"	19	75.0	41	41	22.2	**SVHB16**
G 1.1/4"	G 1.1/4"	20	83.0	50	50	28.6	**SVHB20**
G 1.1/2"	G 1.1/2"	22	93.0	55	55	33.3	**SVHB24**
G 2"	G 2"	25	102.0	70	70	46.0	**SVHB32**

Product variants:

Bulkhead connector, ISO 8434-6, AGR 60°, straight, stainless steel, SV HB VA	**...SVHBVA**

Bulkhead connector, ISO 8434-6, AGR 60°, elbow 90°, steel



Type: angle 90°

www ...SWHB

G1 + G2	S1	SW	Item no.
		mm	
G 1/8" -28	14	11	**SWHB02**
G 1/4" -19	19	14	**SWHB04**
G 3/8" -19	22	19	**SWHB06**
G 1/2" -14	27	22	**SWHB08**
G 5/8" -14	30	22	**SWHB10**
G 3/4" -14	32	27	**SWHB12**
G 1" -11	41	33	**SWHB16**
G 1.1/4" -11	50	41	**SWHB20**
G 1.1/2" -11	55	50	**SWHB24**

2

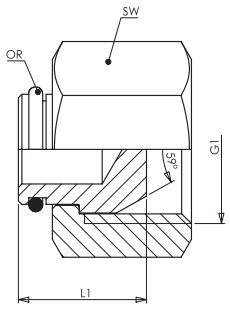
Cap, ISO 8434-6, DKR 60°, steel



Connection 1: BSPP nut thread
Construction type: blanking nut
Type: straight
Sealing form 1: 60° outer cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...VERSCHLUSSAB



OR	G1	L1	S1	SW	Item no.
		mm		mm	
5.0 x 1.5	G 1/8" -28	16.8	14	14	**VERSCHLUSSAB02**
7.0 x 2.0	G 1/4" -19	20.2	19	19	**VERSCHLUSSAB04**
10.0 x 2.0	G 3/8" -19	22.0	22	22	**VERSCHLUSSAB06**
14.00 x 2.00	G 1/2" -14	25.0	27	27	**VERSCHLUSSAB08**
16.0 x 2.0	G 5/8" -14	26.7	30	30	**VERSCHLUSSAB10**
20 x 2	G 3/4" -14	27.7	32	32	**VERSCHLUSSAB12**
26.0 x 2.0	G 1" -11	32.5	38	41	**VERSCHLUSSAB16**
34.00 x 2.00	G 1.1/4" -11	32.6	50	50	**VERSCHLUSSAB20**
39.00 x 2.00	G 1.1/2" -11	40.0	55	55	**VERSCHLUSSAB24**
51.00 x 2.50	G 2" -11	43.1	70	70	**VERSCHLUSSAB32**

Product variants:

Cap, ISO 8434-6, DKR 60°, stainless steel, VERSCHLUSS AB VA	**...VERSCHLUSSABVA**

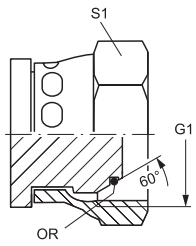


Cap, ISO 8434-6, DKOR 60°, steel

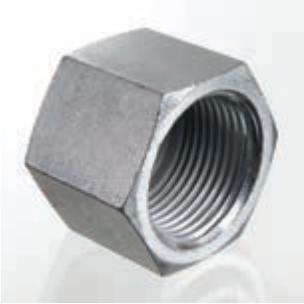
Connection 1: BSPP nut thread
Construction type: blanking nut
Type: straight
Sealing form 1: 60° outer cone with O-ring
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...VERSCHLUSSAOB



OR	G1	S1	Item no.
6.5 x 1.0	G 1/4" -19	17	VERSCHLUSSAOB04
8.1 x 1.6	G 3/8" -19	22	VERSCHLUSSAOB06
12.1 x 1.6	G 1/2" -14	27	VERSCHLUSSAOB08
13.1 x 1.6	G 5/8" -14	27	VERSCHLUSSAOB10
17.1 x 1.6	G 3/4" -14	32	VERSCHLUSSAOB12
22.1 x 1.6	G 1" -11	41	VERSCHLUSSAOB16

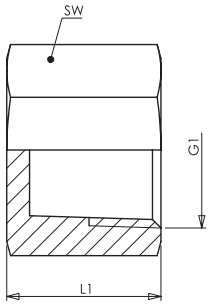


Cap, IGR, steel

Connection 1: BSPP female thread, cylindric
Construction type: blanking nut
Type: straight
Sealing form 1: flat seal
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...VERSCHLUSSIR



G1	L1	S1	SW	Item no.
	mm		mm	
G 1/8" -28	16.5	14	14	VERSCHLUSSIR02
G 1/4" -19	21.5	19	19	VERSCHLUSSIR04
G 3/8" -19	23.5	22	22	VERSCHLUSSIR06
G 1/2" -14	29.5	27	27	VERSCHLUSSIR08
G 3/4" -14	32.0	32	32	VERSCHLUSSIR12
G 1" -11	41.0	41	41	VERSCHLUSSIR16
G 1.1/4" -11	44.0	50	50	VERSCHLUSSIR20
G 1.1/2" -11	49.0	55	55	VERSCHLUSSIR24
G 2" -11	52.5	70	70	VERSCHLUSSIR32

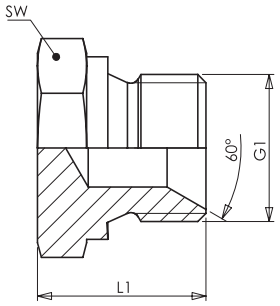
Plug, ISO 8434-6, AGR 60°, steel

Connection 1: BSPP male thread, cylindric
Construction type: blanking socket
Type: straight
Sealing form 1: 60° inner cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSHB



G1	L1	SW	Item no.
	mm	mm	
G 1/8" -28	14.5	14	VERSCHLUSSHB02
G 1/4" -19	19.0	19	VERSCHLUSSHB04
G 3/8" -19	20.5	22	VERSCHLUSSHB06
G 1/2" -14	24.0	27	VERSCHLUSSHB08
G 5/8" -14	27.0	30	VERSCHLUSSHB10
G 3/4" -14	28.0	32	VERSCHLUSSHB12
G 1" -11	32.0	41	VERSCHLUSSHB16
G 1.1/4" -11	35.0	50	VERSCHLUSSHB20
G 1.1/2" -11	40.0	55	VERSCHLUSSHB24
G 2" -11	46.0	70	VERSCHLUSSHB32

Product variants:

Plug, ISO 8434-6, AGR 60°, stainless steel, VERSCHLUSS HB VA	**...VERSCHLUSSHBVA**

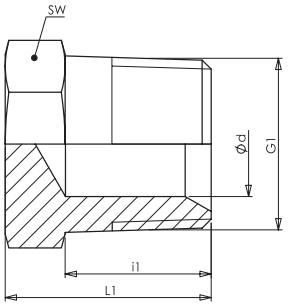
Plug, hexagon head, AGR tapered, DIN 3852-2, type C, steel

Connection 1: BSPT conical external threads
Construction type: blanking socket, with hexagon head
Type: straight
Sealing form 1: thread seal
Standard connection 1: DIN 3852-2
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSHRK



G1	i	L1	SW	Item no.
	mm	mm	mm	
R 1/8" K	10.5	16.5	12	VERSCHLUSSHRK02
R 1/4" K	14.0	21.0	14	VERSCHLUSSHRK04
R 3/8" K	14.5	21.5	17	VERSCHLUSSHRK06
R 1/2" K	18.5	26.5	22	VERSCHLUSSHRK08
R 5/8" K	19.5	27.5	24	VERSCHLUSSHRK10
R 3/4" K	20.0	29.0	27	VERSCHLUSSHRK12
R 1" K	24.0	34.0	36	VERSCHLUSSHRK16
R 1.1/4" K	26.0	38.0	46	VERSCHLUSSHRK20
R 1.1/2" K	27.0	39.0	50	VERSCHLUSSHRK24
R 2" K	31.0	46.0	65	VERSCHLUSSHRK32
R 2.1/2" K	36.0	54.0	80	VERSCHLUSSHRK40

Accessories:

PTFE sealing tape, TF BAND	Page 494

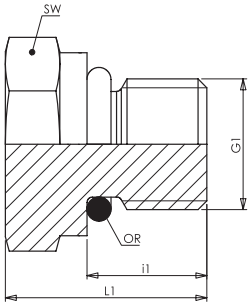


Plug, hexagon head, AGR, OR, steel

Connection 1: BSPP male thread, cylindric
Construction type: blanking socket, with hexagon head
Type: straight
Sealing form 1: type G
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

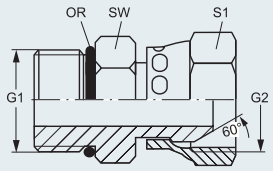
www ...VERSCHLUSSHRO



OR	G1	i1	L1	SW	Item no.
		mm	mm	mm	
7.97 x 1.88	G 1/8" -28	7.6	12.5	14	VERSCHLUSSHRO02
10.77 x 2.62	G 1/4" -19	11.2	17.0	19	VERSCHLUSSHRO04
13.94 x 2.62	G 3/8" -19	11.2	17.0	22	VERSCHLUSSHRO06
17.86 x 2.62	G 1/2" -14	14.5	21.5	27	VERSCHLUSSHRO08
23.47 x 2.62	G 3/4" -14	14.5	23.5	36	VERSCHLUSSHRO12
29.74 x 3.53	G 1" -11	18.6	28.5	41	VERSCHLUSSHRO16
37.69 x 3.53	G 1.1/4" -11	18.6	30.5	50	VERSCHLUSSHRO20
44.04 x 3.53	G 1.1/2" -11	18.6	33.5	55	VERSCHLUSSHRO24

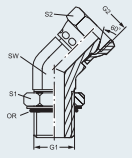
Stud connectors (NPT / SAE J 514 adaptors)

UN / UNF



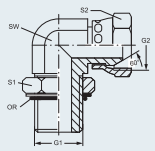
Stud connector, SAE J 514, AG UNF, OR, ISO 11926, DKN 60°, NPSM, straight, steel

GEOAN Page 367



Stud connector, SAE J 514, AG UNF, OR, ISO 11926, adjustable, DKN 60°, NPSM, elbow 45°, steel

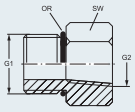
W45OAN Page 367



Stud connector, SAE J 514, AG UNF, OR, ISO 11926, adjustable, DKN 60°, NPSM, elbow 90°, steel

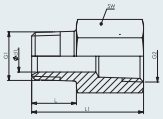
W90OAN Page 368

NPT



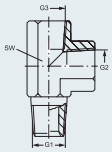
Stud connector, SAE J 514, AG UNF, OR, ISO 11926, IGN, straight, steel

GEOIN Page 368



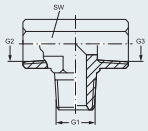
Stud connector, SAE J 514, AGN, IGN, straight, steel

GHNIN Page 369



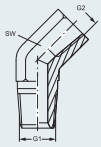
Stud connector, SAE J 514, AGN, IGN, L shape, steel

LHNIN Page 370



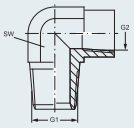
Stud connector, SAE J 514, AGN, IGN, T form, steel

THNIN Page 370



Stud connector, SAE J 514, AGN, IGN, elbow 45°, steel

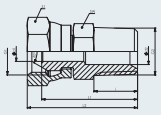
W45HNIN Page 371



Stud connector, SAE J 514, AGN, IGN, elbow 90°, steel

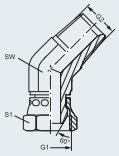
W90HNIN Page 371

Union connectors (NPT / SAE J 514 adaptors)



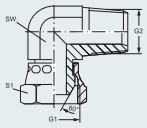
Union connector, SAE J 514, DKN 60°, NPSM, AGN, straight, steel

GANHN Page 372



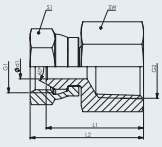
Swivel connector, SAE J 514, DKN 60°, NPSM, AGN, elbow 45°, steel

W45ANHN Page 373



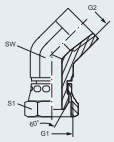
Swivel connector, SAE J 514, DKN 60°, NPSM, AGN, elbow 90°, steel

W90ANHN Page 373



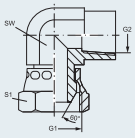
Union connector, SAE J 514, DKN 60°, NPSM, IGN, straight, steel

GANIN Page 374



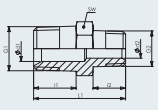
Swivel connector, SAE J 514, DKN 60°, NPSM, IGN, elbow 45°, steel

W45ANIN Page N/A



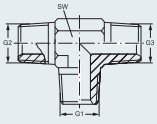
Swivel connector, SAE J 514, DKN 60°, NPSM, IGN, elbow 90°, steel

W90ANIN Page 374



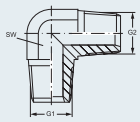
Union connector, SAE J 514, AGN, straight, steel

GHN Page 375



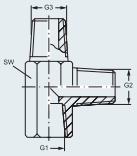
Union connector, SAE J 514, AGN, T shape, steel

THN Page 376



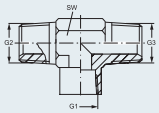
Union connector, SAE J 514, AGN, elbow 90°, steel

W90HN Page 376



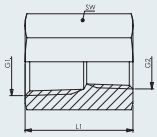
Union connector, SAE J 514, IGN, AGN, L shape, steel

LINHN Page 377



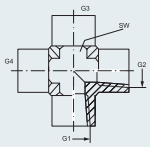
Union connector, SAE J 514, IGN, AGN, T form, steel

TINHN Page 377



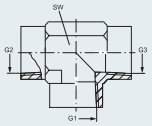
Union connector, SAE J 514, IGN, straight, steel

GIN Page 378



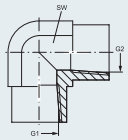
Union connector, SAE J 514, cross shape, steel

KIN Page 379



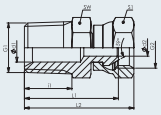
Union connector, SAE J 514, IGN, T shape, steel

TIN Page 379



Union connector, SAE J 514, IGN, elbow 90°, steel

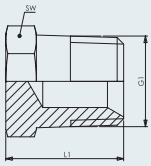
W90IN Page 380



Stud connector, SAE J 514, AGN, DKR 60°, ISO 8434-6, straight, steel

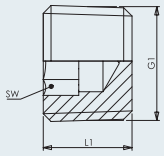
GEHNAB Page 380

Caps and plugs (NPT / SAE J 514 adaptors)



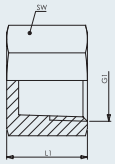
Plug, SAE J 514, hexagon head, AGN, steel

VERSCHLUSSHN Page 381



Plug, SAE J 514, hexagon socket, AGN, steel

VERSCHLUSSHNIS Page 382



Cap, SAE J 514, IGN, steel

VERSCHLUSSIN Page 382

Stud connector, SAE J 514, AG UNF, OR, ISO 11926, DKN 60°, NPSM, steel

Connection 1: UN/UNF external threads
Connection 2: NPSM nut thread
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 60° outer cone
Standard: SAE J 514
Surface: electro galvanised
Material: steel

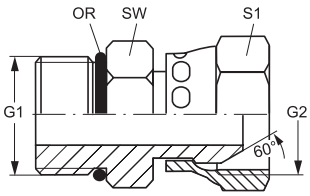
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.







Stud connector, SAE J 514, AG UNF, OR, ISO 11926, DKN 60°, NPSM, straight, steel

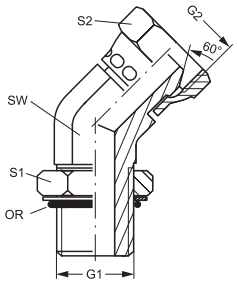


Construction type: screw-in socket
Type: straight

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OR	G1	G2	S1	SW	Item no.
				mm	
8.92 x 1.83	7/16" -20 UNF	1/4" -18 NPT	18	14	**GEO04AN**
11.90 x 1.98	9/16" -18 UNF	3/8" -18 NPT	22	18	**GEO06AN**
11.90 x 1.98	9/16" -18 UNF	1/2" -14 NPT	25	19	**GEO06AN08**
16.36 x 2.20	3/4" -16 UNF	1/2" -14 NPT	25	22	**GEO08AN**
16.36 x 2.20	3/4" -16 UNF	3/4" -14 NPT	32	25	**GEO08AN12**
19.18 x 2.46	7/8" -14 UNF	3/8" -18 NPT	25	22	**GEO10AN06**
19.18 x 2.46	7/8" -14 UNF	1/2" -14 NPT	25	25	**GEO10AN08**
23.47 x 2.95	1.1/16" -12 UN	1/2" -14 NPT	25	32	**GEO12AN08**
23.47 x 2.95	1.1/16" -12 UN	3/4" -14 NPT	32	32	**GEO12AN**
29.74 x 2.95	1.5/16" -12 UN	1" -11.5 NPT	38	38	**GEO16AN**

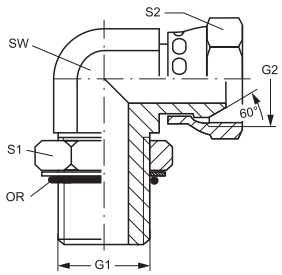
Stud connector, SAE J 514, AG UNF, OR, ISO 11926, adjustable, DKN 60°, NPSM, elbow 45°, steel



Construction type: adjustable direction screw-in socket
Type: angle 45°
Standard connection 1: ISO 11926-3

www ...W45OAN

OR	G1	G2	S1	S2	SW	Item no.
					mm	
8.92 x 1.83	7/16" -20 UNF	1/4" -18 NPT	14	18	11	**W45O04AN**
11.90 x 1.98	9/16" -18 UNF	1/4" -18 NPT	22	14	14	**W45O06AN04**
11.90 x 1.98	9/16" -18 UNF	3/8" -18 NPT	18	22	14	**W45O06AN**
16.36 x 2.20	3/4" -16 UNF	3/8" -18 NPT	22	22	19	**W45O08AN06**
16.36 x 2.20	3/4" -16 UNF	1/2" -14 NPT	22	25	19	**W45O08AN**
16.36 x 2.20	3/4" -16 UNF	3/4" -14 NPT	22	32	19	**W45O08AN12**
19.18 x 2.46	7/8" -14 UNF	1/2" -14 NPT	25	25	22	**W45O10AN08**
23.47 x 2.95	1.1/16" -12 UN	3/4" -14 NPT	32	32	27	**W45O12AN**



Stud connector, SAE J 514, AG UNF, OR, ISO 11926, adjustable, DKN 60°, NPSM, elbow 90°, steel

Construction type: adjustable direction screw-in socket
Type: angle 90°
Standard connection 1: ISO 11926-3

www ...W90OAN

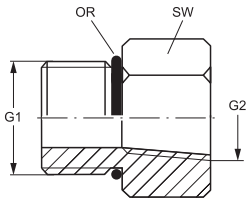
OR	G1	G2	S1	S2	SW	Item no.
					mm	
8.92 x 1.83	7/16" -20 UNF	1/4" -18 NPT	14	18	11	**W90O04AN**
11.90 x 1.98	9/16" -18 UNF	3/8" -18 NPT	18	25	14	**W90O06AN**
11.90 x 1.98	9/16" -18 UNF	1/4" -18 NPT	18	18	14	**W90O06AN04**
16.36 x 2.20	3/4" -16 UNF	1/2" -14 NPT	22	25	19	**W90O08AN**
16.36 x 2.20	3/4" -16 UNF	3/4" -14 NPT	22	32	19	**W90O08AN12**
19.18 x 2.46	7/8" -14 UNF	3/8" -18 NPT	25	22	22	**W90O10AN06**
19.18 x 2.46	7/8" -14 UNF	1/2" -14 NPT	25	25	22	**W90O10AN08**
19.18 x 2.46	7/8" -14 UNF	3/4" -14 NPT	25	32	22	**W90O10AN12**
23.47 x 2.95	1.1/16" -12 UN	3/4" -14 NPT	32	32	27	**W90O12AN**
23.47 x 2.95	1.1/16" -12 UN	1/2" -14 NPT	32	25	27	**W90O12AN08**
29.74 x 2.95	1.5/16" -12 UN	1" -11.5 NPT	38	38	33	**W90O16AN**



Stud connector, SAE J 514, AG UNF, OR, ISO 11926, IGN, straight, steel

Connection 1: UN/UNF external threads
Connection 2: NPT internal threads
Construction type: screw-on fitting
Type: straight
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: thread seal
Standard connection 1: ISO 11926-3
Standard: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



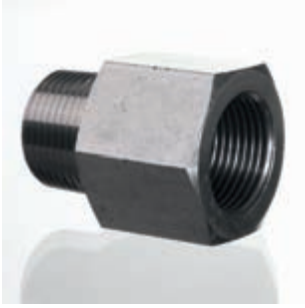
www ...GEOIN

OR	G1	G2	SW	Item no.
11.90 x 1.98	9/16" -18 UNF	1/4" -18 NPT	19	**GEO06IN04**
16.36 x 2.20	3/4" -16 UNF	1/4" -18 NPT	22	**GEO08IN04**
16.36 x 2.20	3/4" -16 UNF	3/8" -18 NPT	22	**GEO08IN06**
16.36 x 2.20	3/4" -16 UNF	1/2" -14 NPT	29	**GEO08IN**
19.18 x 2.46	7/8" -14 UNF	1/4" -18 NPT	25	**GEO10IN04**
19.18 x 2.46	7/8" -14 UNF	3/8" -18 NPT	25	**GEO10IN06**
19.18 x 2.46	7/8" -14 UNF	1/2" -14 NPT	29	**GEO10IN08**
23.47 x 2.95	1.1/16" -12 UN	1/2" -14 NPT	32	**GEO12IN08**
23.47 x 2.95	1.1/16" -12 UN	3/4" -14 NPT	35	**GEO12IN**

Stud connector, SAE J 514, AGN, IGN, steel

Connection 1: NPT external threads
Sealing form 1: thread seal
Standard: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

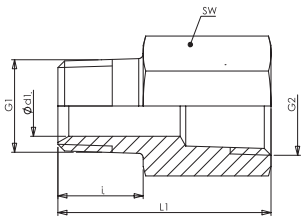






Stud connector, SAE J 514, AGN, IGN, straight, steel

Connection 2: NPT internal threads
Construction type: connection socket
Type: straight
Sealing form 2: thread seal



www ...GHNIN

G1	G2	i	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
1/8" -27 NPT	1/8" -27 NPT	9.7	26.4	17	4.8	**GHN02IN**
1/8" -27 NPT	1/4" -18 NPT	9.7	30.7	19	4.8	**GHN02IN04**
1/8" -27 NPT	3/8" -18 NPT	9.7	32.1	22	4.8	**GHN02IN06**
1/8" -27 NPT	1/2" -14 NPT	9.7	38.2	27	4.8	**GHN02IN08**
1/4" -18 NPT	1/8" -27 NPT	14.2	21.6	17	7	**GHN04IN02**
1/4" -18 NPT	1/4" -18 NPT	14.2	35.3	19	7	**GHN04IN**
1/4" -18 NPT	3/8" -18 NPT	14.2	36.6	22	7	**GHN04IN06**
1/4" -18 NPT	1/2" -14 NPT	14.2	42.7	27	7	**GHN04IN08**
1/4" -18 NPT	3/4" -14 NPT	14.2	44.2	36	7	**GHN04IN12**
3/8" -18 NPT	1/8" -27 NPT	14.2	21.3	19	7	**GHN06IN02**
3/8" -18 NPT	1/4" -18 NPT	14.2	35.2	19	10.3	**GHN06IN04**
3/8" -18 NPT	3/8" -18 NPT	14.2	36.6	22	10.3	**GHN06IN**
3/8" -18 NPT	1/2" -14 NPT	14.2	42.7	27	10.3	**GHN06IN08**
1/2" -14 NPT	1/8" -27 NPT	19	27.9	27	7	**GHN08IN02**
1/2" -14 NPT	1/4" -18 NPT	19	27.9	27	10.3	**GHN08IN04**
1/2" -14 NPT	3/8" -18 NPT	19	27.9	22	13.5	**GHN08IN06**
1/2" -14 NPT	1/2" -14 NPT	19	47.5	27	13.5	**GHN08IN**
1/2" -14 NPT	3/4" -14 NPT	19	49	36	13.5	**GHN08IN12**
1/2" -14 NPT	1" -11.5 NPT	19	55.3	41	13.5	**GHN08IN16**
3/4" -14 NPT	1/4" -18 NPT	19	29.7	27	10.3	**GHN12IN04**
3/4" -14 NPT	3/8" -18 NPT	19	29.7	27	13.5	**GHN12IN06**
3/4" -14 NPT	1/2" -14 NPT	19	29.7	27	16.6	**GHN12IN08**
3/4" -14 NPT	3/4" -14 NPT	19	49	36	18	**GHN12IN**
3/4" -14 NPT	1" -11.5 NPT	19	55.4	41	18	**GHN12IN16**
3/4" -14 NPT	1.1/4" -11.5 NPT	19	57.5	50	18	**GHN12IN20**
1" -11.5 NPT	3/8" -18 NPT	23.9	34.5	36	13.5	**GHN16IN06**
1" -11.5 NPT	1/2" -14 NPT	23.9	34.5	36	16.6	**GHN16IN08**
1" -11.5 NPT	3/4" -14 NPT	23.9	34.5	36	22.2	**GHN16IN12**
1" -11.5 NPT	1.1/4" -11.5 NPT	23.9	62.5	50	23.8	**GHN16IN20**
1.1/4" -11.5 NPT	1/2" -14 NPT	24.6	37.3	46	17.69	**GHN20IN08**
1.1/4" -11.5 NPT	3/4" -14 NPT	24.6	37.3	46	22.2	**GHN20IN12**
1.1/4" -11.5 NPT	1" -11.5 NPT	24.6	37.3	46	27.8	**GHN20IN16**
1.1/4" -11.5 NPT	1.1/2" -11.5 NPT	24.6	63.5	60	31.7	**GHN20IN24**
1.1/2" -11.5 NPT	3/4" -14 NPT	25.4	39.9	50	22.2	**GHN24IN12**

→

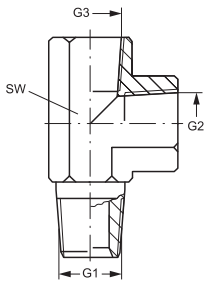
G1	G2	i	L1	SW	Ø d1	Item no.
		mm	mm	mm	mm	
1.1/2" -11.5 NPT	1" -11.5 NPT	25.4	39.9	50	27.8	**GHN24IN16**
1.1/2" -11.5 NPT	1.1/4" -11.5 NPT	25.4	64	50	38	**GHN24IN20**
2" -11.5 NPT	1" -11.5 NPT	26.2	44.5	65	29	**GHN32IN16**
2" -11.5 NPT	1.1/4" -11.5 NPT	26.2	44.5	65	38	**GHN32IN20**
2" -11.5 NPT	1.1/2" -11.5 NPT	26.2	44.5	65	43.7	**GHN32IN24**

Product variants:

Stud connector, SAE J 514, AGN, IGN, straight, stainless steel, G HN IN VA **...GHNINVA**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, SAE J 514, AGN, IGN, L shape, steel

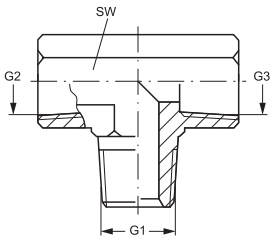
Connection 2 + 3: NPT internal threads
Construction type: screw-in socket
Type: L shape
Sealing form 2 + 3: thread seal

www ...LHNIN

G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	1/8" -27 NPT	14	**LHN02IN**
1/4" -18 NPT	1/4" -18 NPT	19	**LHN04IN**
3/8" -18 NPT	3/8" -18 NPT	22	**LHN06IN**
1/2" -14 NPT	1/2" -14 NPT	27	**LHN08IN**
3/4" -14 NPT	3/4" -14 NPT	33	**LHN12IN**
1" -11.5 NPT	1" -11.5 NPT	41	**LHN16IN**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	**LHN20IN**

Accessories:

PTFE sealing tape, TF BAND Page 494



Stud connector, SAE J 514, AGN, IGN, T form, steel

Connection 2 + 3: NPT internal threads
Construction type: screw-in socket
Type: T shape
Sealing form 2 + 3: thread seal

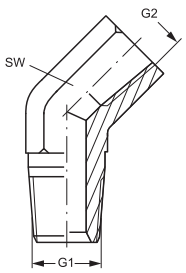
www ...THNIN

G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	1/8" -27 NPT	14	**THN02IN**
1/4" -18 NPT	1/4" -18 NPT	19	**THN04IN**
3/8" -18 NPT	3/8" -18 NPT	22	**THN06IN**
1/2" -14 NPT	1/2" -14 NPT	27	**THN08IN**
3/4" -14 NPT	3/4" -14 NPT	33	**THN12IN**
1" -11.5 NPT	1" -11.5 NPT	41	**THN16IN**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	**THN20IN**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, SAE J 514, AGN, IGN, elbow 45°, steel



Connection 2: NPT internal threads
Construction type: screw-in socket
Type: angle 45°
Sealing form 2: thread seal

www ...W45HNIN

G1 + G2	SW	Item no.
	mm	
1/8" -27 NPT	14	**W45HN02IN**
1/4" -18 NPT	19	**W45HN04IN**
3/8" -18 NPT	22	**W45HN06IN**
1/2" -14 NPT	27	**W45HN08IN**
3/4" -14 NPT	33	**W45HN12IN**
1" -11.5 NPT	41	**W45HN16IN**
1.1/4" -11.5 NPT	48	**W45HN20IN**
1.1/2" -11.5 NPT	64	**W45HN24IN**

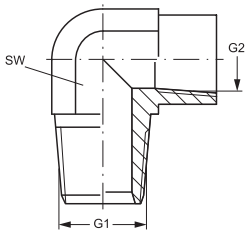
Product variants:

Stud connector, SAE J 514, AGN, IGN, elbow 45°, stainless steel, W45 HN IN VA	**...W45HNINVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494

Stud connector, SAE J 514, AGN, IGN, elbow 90°, steel



Connection 2: NPT internal threads
Construction type: screw-in socket
Type: angle 90°
Sealing form 2: thread seal

www ...W90HNIN

G1	G2	SW	Item no.
		mm	
1/8" -27 NPT	1/8" -27 NPT	16	**W90HN02IN**
1/4" -18 NPT	1/8" -27 NPT	16	**W90HN04IN02**
1/4" -18 NPT	1/4" -18 NPT	19	**W90HN04IN**
3/8" -18 NPT	3/8" -18 NPT	22	**W90HN06IN**
1/2" -14 NPT	1/2" -14 NPT	27	**W90HN08IN**
3/4" -14 NPT	1/2" -14 NPT	27	**W90HN12IN08**
3/4" -14 NPT	3/4" -14 NPT	33	**W90HN12IN**
1" -11.5 NPT	1" -11.5 NPT	41	**W90HN16IN**

Product variants:

Stud connector, SAE J 514, AGN, IGN, elbow 90°, stainless steel, W90 HN IN VA	**...W90HNINVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494





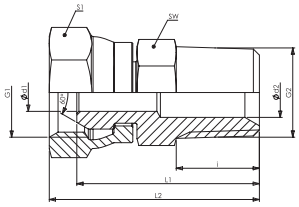


Union connector, SAE J 514, DKN 60°, NPSM, AGN, steel

Connection 1: NPT nut thread (NPSM)
Connection 2: NPT external threads
Construction type: screw-in socket
Sealing form 1: 60° outer cone
Sealing form 2: thread seal
Standard: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Union connector, SAE J 514, DKN 60°, NPSM, AGN, straight, steel

Type: straight

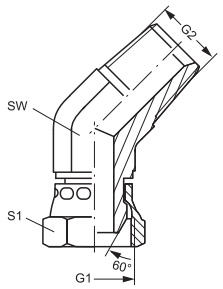
www ...GANHN

G1	G2	i	L1	L2	S1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm		mm	mm	mm	
1/8" -27 NPT	1/8" -27 NPT	10.1	25.1	28.1	14	11	3.3	3.3	**GAN02HN**
1/4"-18 NPSM	1/8"-27 NPTF	10.1	27.3	31.6	19	14	3.3	3.3	**GAN04HN02**
1/4"-18 NPSM	1/4"-18 NPTF	15	32.2	36.5	19	14	4.5	5.6	**GAN04HN**
1/4"-18 NPSM	3/8"-18 NPTF	15.2	32.4	36.7	19	19	4.5	8.4	**GAN04HN06**
3/8"-18 NPSM	1/4"-18 NPTF	15	33.7	38.5	22	17	5.6	5.6	**GAN06HN04**
3/8"-18 NPSM	3/8"-18 NPTF	15.2	33.9	38.7	22	19	6	8.4	**GAN06HN**
3/8"-18 NPSM	1/2"-14 NPTF	19.9	40.1	44.9	22	22	6	11.9	**GAN06HN08**
1/2"-14 NPSM	1/4"-18 NPTF	15	35.9	42.5	27	19	10	5.6	**GAN08HN04**
1/2"-14 NPSM	3/8"-18 NPTF	15.2	36.1	42.7	27	19	10	8.4	**GAN08HN06**
1/2"-14 NPSM	1/2"-14 NPTF	19.9	42.3	48.9	27	22	10	11.9	**GAN08HN**
1/2" -14 NPT	3/4" -14 NPT	20.2	44.1	50.7	27	27	10	16.5	**GAN08HN12**
3/4"-14 NPSM	1/2"-14 NPTF	19.9	45.5	53.9	32	27	15	11.9	**GAN12HN08**
3/4"-14 NPSM	3/4"-14 NPTF	20.2	45.8	54.2	32	27	15	16.5	**GAN12HN**
3/4"-14 NPSM	1"-11.5 NPTF	25.1	51.2	59.6	32	36	15	21.1	**GAN12HN16**
1"-11.5 NPSM	3/4"-14 NPTF	20.2	46.5	54.9	38	36	20	16.5	**GAN16HN12**
1"-11.5 NPSM	1"-11.5 NPTF	25.1	51.4	59.8	38	36	20	20	**GAN16HN**
1 1/4"-11.5 NPSM	1 1/4" -11.5 NPTF	25.7	55	65.2	50	46	26	28.4	**GAN20HN**
1 1/2"-11.5 NPSM	1"-11.5 NPTF	25.1	57.7	67.9	55	50	31	21.1	**GAN24HN16**
1 1/2"-11.5 NPSM	1 1/2"-11.5 NPTF	26.1	58.7	68.9		50	31	43	**GAN24HN**
2"-11.5 NPSM	2"-11.5 NPTF	26.9	62.5	72.7	70	67	43	45.5	**GAN32HN**

Accessories:

PTFE sealing tape, TF BAND Page 494

Swivel connector, SAE J 514, DKN 60°, NPSM, AGN, elbow 45°, steel



Type: angle 45°

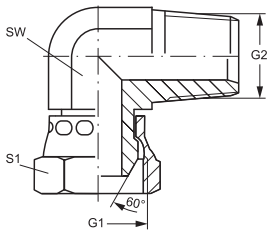
www ...W45ANHN

G1	G2	S1	SW	Item no.
			mm	
1/8" -27 NPT	1/8" -27 NPT	14	11	**W45AN02HN**
1/4" -18 NPT	1/4" -18 NPT	18	14	**W45AN04HN**
3/8" -18 NPT	3/8" -18 NPT	22	19	**W45AN06HN**
3/8" -18 NPT	1/2" -14 NPT	22	22	**W45AN06HN08**
1/2" -14 NPT	1/2" -14 NPT	25	22	**W45AN08HN**
1/2" -14 NPT	3/4" -14 NPT	25	27	**W45AN08HN12**
3/4" -14 NPT	3/4" -14 NPT	32	27	**W45AN12HN**
3/4" -14 NPT	1" -11.5 NPT	32	33	**W45AN12HN16**
1" -11.5 NPT	3/4" -14 NPT	38	33	**W45AN16HN12**
1" -11.5 NPT	1" -11.5 NPT	38	33	**W45AN16HN**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	41	**W45AN20HN**
1.1/2" -11.5 NPT	1.1/2" -11.5 NPT	54	48	**W45AN24HN**
2" -11.5 NPT	2" -11.5 NPT	67	64	**W45AN32HN**

Accessories:

PTFE sealing tape, TF BAND Page 494

Swivel connector, SAE J 514, DKN 60°, NPSM, AGN, elbow 90°, steel



Type: angle 90°

www ...W90ANHN

G1	G2	S1	SW	Item no.
			mm	
1/8" -27 NPT	1/8" -27 NPT	14	11	**W90AN02HN**
1/4" -18 NPT	1/8" -27 NPT	18	14	**W90AN04HN02**
1/4" -18 NPT	1/4" -18 NPT	18	14	**W90AN04HN**
1/4" -18 NPT	3/8" -18 NPT	18	19	**W90AN04HN06**
1/4" -18 NPT	1/2" -14 NPT	18	19	**W90AN04HN08**
3/8" -18 NPT	1/4" -18 NPT	22	19	**W90AN06HN04**
3/8" -18 NPT	3/8" -18 NPT	22	19	**W90AN06HN**
3/8" -18 NPT	1/2" -14 NPT	22	22	**W90AN06HN08**
3/8" -18 NPT	3/4" -14 NPT	22	25	**W90AN06HN12**
1/2" -14 NPT	3/8" -18 NPT	25	22	**W90AN08HN06**
1/2" -14 NPT	1/2" -14 NPT	25	22	**W90AN08HN**
1/2" -14 NPT	3/4" -14 NPT	25	27	**W90AN08HN12**
3/4" -14 NPT	1/2" -14 NPT	32	27	**W90AN12HN08**
3/4" -14 NPT	3/4" -14 NPT	32	27	**W90AN12HN**
3/4" -14 NPT	1" -11.5 NPT	32	33	**W90AN12HN16**
1" -11.5 NPT	3/4" -14 NPT	38	33	**W90AN16HN12**
1" -11.5 NPT	1" -11.5 NPT	38	33	**W90AN16HN**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	41	**W90AN20HN**
1.1/4" -11.5 NPT	1.1/2" -11.5 NPT	48	48	**W90AN20HN24**
1.1/2" -11.5 NPT	1.1/2" -11.5 NPT	54	48	**W90AN24HN**
2" -11.5 NPT	2" -11.5 NPT	67	64	**W90AN32HN**

Accessories:

PTFE sealing tape, TF BAND Page 494





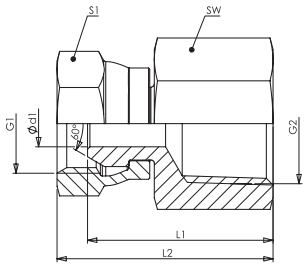


Union connector, SAE J 514, DKN 60°, NPSM, IGN, steel

Connection 1: NPT nut thread (NPSM)
Connection 2: NPT internal threads
Sealing form 2: thread seal
Standard: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2

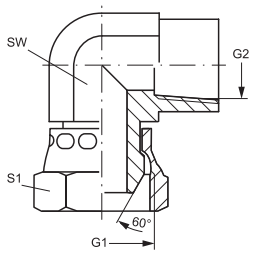


Union connector, SAE J 514, DKN 60°, NPSM, IGN, straight, steel

Construction type: screw-on socket
Type: straight
Sealing form 1: 60° outer cone

www ...GANIN

d1	G1	G2	L1	L2	S1	S1	SW	Item no.
mm			mm	mm	mm		mm	
3.3	1/8" -27 NPT	1/8" -27 NPT	22.0	25.0	14	14	14	**GAN02IN**
4.5	1/4" -18 NPT	1/4" -18 NPT	32.0	36.5	19	18	17	**GAN04IN**
6.0	3/8" -18 NPT	1/4" -18 NPT	33.5	38.3	22	22	17	**GAN06IN04**
6.0	3/8" -18 NPT	3/8" -18 NPT	33.0	37.8	22	22	22	**GAN06IN**
10.0	1/2" -14 NPT	3/8" -18 NPT	35.2	41.8	27	22	22	**GAN08IN06**
10.0	1/2" -14 NPT	1/2" -14 NPT	38.0	44.6	27	25	27	**GAN08IN**
10.0	1/2" -14 NPT	3/4" -14 NPT	40.0	46.6	27	25	32	**GAN08IN12**
15.0	3/4" -14 NPT	3/4" -14 NPT	41.0	49.4	32	32	32	**GAN12IN**
20.0	1" -11.5 NPT	1" -11.5 NPT	51.0	59.4	38	38	41	**GAN16IN**
26.0	1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	51.0	61.2	50	48	50	**GAN20IN**
31.0	1.1/2" -11.5 NPT	1.1/2" -11.5 NPT	51.0	61.2	55	54	55	**GAN24IN**
43.0	2" -11.5 NPT	2" -11.5 NPT	54.0	64.2	70	67	70	**GAN32IN**



Swivel connector, SAE J 514, DKN 60°, NPSM, IGN, elbow 90°, steel

Construction type: connection socket
Type: angle 90°
Sealing form 1: 60° outer cone

www ...W90ANIN

G1 + G2	S1	SW	Item no.
		mm	
1/8" -27 NPT	14	14	**W90AN02IN**
1/4" -18 NPT	18	19	**W90AN04IN**
3/8" -18 NPT	22	22	**W90AN06IN**
1/2" -14 NPT	25	27	**W90AN08IN**
3/4" -14 NPT	32	33	**W90AN12IN**
1" -11.5 NPT	38	41	**W90AN16IN**
1.1/4" -11.5 NPT	48	48	**W90AN20IN**
1.1/2" -11.5 NPT	54	64	**W90AN24IN**

Union connector, SAE J 514, AGN, steel

Standard: SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

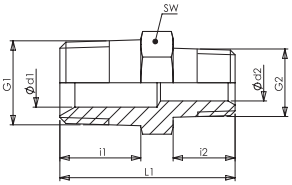






Union connector, SAE J 514, AGN, straight, steel

Connection 1: NPT external threads
Connection 2: NPT external threads
Construction type: connection socket
Type: straight
Sealing form 1: thread seal
Sealing form 2: thread seal



www ...GHN

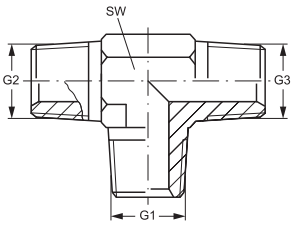
G1	G2	i1	i2	L1	SW	Ø d1	Ø d2	Item no.
1/8" -27 NPT	1/8" -27 NPT	10	10	25.5	11	4.5	4.5	**GHN02**
1/4" -18 NPT	1/8" -27 NPT	15	10	31.5	14	4.5	4.5	**G04HN02**
1/4" -18 NPT	1/4" -18 NPT	15	15	36.5	14	6	6	**GHN04**
3/8" -18 NPT	1/8" -27 NPT	15.3	10	31.8	19	9	4.5	**G06HN02**
3/8" -18 NPT	1/4" -18 NPT	15.3	15	36.8	19	9	6	**G06HN04**
3/8" -18 NPT	3/8" -18 NPT	15.3	15.3	37.1	19	9	9	**GHN06**
1/2" -14 NPT	1/4" -18 NPT	20	15	43	22	12	6	**G08HN04**
1/2" -14 NPT	3/8" -18 NPT	20	15.3	43.3	22	12	9	**G08HN06**
1/2" -14 NPT	1/2" -14 NPT	20	20	48	22	12	12	**GHN08**
3/4" -14 NPT	1/4" -18 NPT	20.2	15	44.7	27	16.5	6	**G12HN04**
3/4" -14 NPT	3/8" -18 NPT	20.2	15.3	45	27	16.5	9	**G12HN06**
3/4" -14 NPT	1/2" -14 NPT	20.2	20	49.7	27	16.5	12	**G12HN08**
3/4" -14 NPT	3/4" -14 NPT	20.2	20.2	49.9	27	16.5	16.5	**GHN12**
3/4" -14 NPT	1" -11.5 NPT	20.2	25	55.2	36	16.5	21.5	**G12HN16**
1" -11.5 NPT	1/2" -14 NPT	25	20	55	36	21.5	12	**G16HN08**
1" -11.5 NPT	1" -11.5 NPT	25	25	60	36	21.5	21.5	**GHN16**
1.1/4" -11.5 NPT	1" -11.5 NPT	25.6	25	62.6	46	28.5	21.5	**G20HN16**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	25.6	25.6	63.2	46	28.5	28.5	**GHN20**
1.1/2" -11.5 NPT	1/2" -14 NPT	26	20	59.5	50	35	12	**G24HN08**
1.1/2" -11.5 NPT	1" -11.5 NPT	26	25	64.5	50	35	21.5	**G24HN16**
1.1/2" -11.5 NPT	1.1/4" -11.5 NPT	26	25.6	65.1	50	35	28.5	**G24HN20**
1.1/2" -11.5 NPT	1.1/2" -11.5 NPT	26	26	65.5	50	35	35	**GHN24**
2" -11.5 NPT	1.1/2" -11.5 NPT	26.9	26	69.9	65	46	35	**G32HN24**
2" -11.5 NPT	2" -11.5 NPT	26.9	26.9	70.8	65	46	46	**GHN32**
2.1/2" -8 NPT	2.1/2" -8 NPT	38.5	38.5	95	70	56	56	**GHN40**

Product variants:

Union connector, SAE J 514, AGN, straight, stainless steel, G HN VA	**...GHNVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494



Union connector, SAE J 514, AGN, T shape, steel

Connection 1 - 3: NPT external threads
Construction type: screw-in socket
Type: T shape
Sealing form 1 - 3: thread seal

...THN

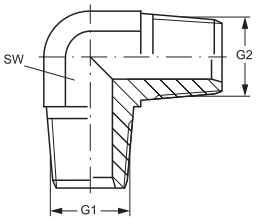
G1 - G3	SW	Item no.
	mm	
1/8" -27 NPT	11	**THN02**
1/4" -18 NPT	14	**THN04**
3/8" -18 NPT	19	**THN06**
1/2" -14 NPT	22	**THN08**
3/4" -14 NPT	27	**THN12**
1" -11.5 NPT	41	**THN16**
1.1/4" -11.5 NPT	48	**THN20**

Product variants:

Union connector, SAE J 514, AGN, T shape, stainless steel, T HN VA	**...THNVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494



Union connector, SAE J 514, AGN, elbow 90°, steel

Connection 1: NPT external threads
Connection 2: NPT external threads
Construction type: screw-in socket
Type: angle 90°
Sealing form 1: thread seal
Sealing form 2: thread seal

...W90HN

G1	G2	SW	Item no.
		mm	
1/8" -27 NPT	1/8" -27 NPT	11	**W90HN02**
1/4" -18 NPT	1/4" -18 NPT	14	**W90HN04**
3/8" -18 NPT	1/4" -18 NPT	19	**W90HN06HN04**
3/8" -18 NPT	3/8" -18 NPT	19	**W90HN06**
1/2" -14 NPT	1/2" -14 NPT	22	**W90HN08**
3/4" -14 NPT	3/4" -14 NPT	27	**W90HN12**
1" -11.5 NPT	1" -11.5 NPT	41	**W90HN16**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	**W90HN20**
1.1/2" -11.5 NPT	1.1/2" -11.5 NPT	48	**W90HN24**
2" -11.5 NPT	2" -11.5 NPT	50	**W90HN32**

Product variants:

Union connector, SAE J 514, AGN, elbow 90°, stainless steel, W90 HN VA	**...W90HNVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494

Union connector, SAE J 514, IGN, AGN, steel

Connection 1: NPT internal threads
Connection 2 + 3: NPT external threads
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2 + 3: thread seal
Standard: SAE J 514
Surface: electro galvanised
Material: steel

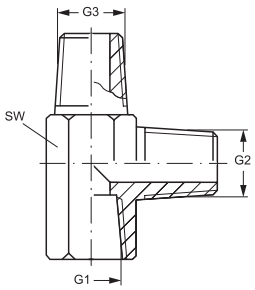
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.





Union connector, SAE J 514, IGN, AGN, L shape, steel

Type: L shape



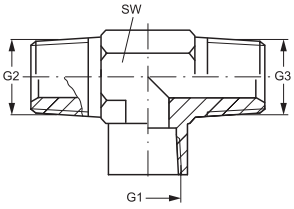
www ...LINHN

G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	1/8" -27 NPT	14	**LIN02HN**
1/4" -18 NPT	1/4" -18 NPT	19	**LIN04HN**
3/8" -18 NPT	3/8" -18 NPT	22	**LIN06HN**
1/2" -14 NPT	1/2" -14 NPT	27	**LIN08HN**
3/4" -14 NPT	3/4" -14 NPT	33	**LIN12HN**
1" -11.5 NPT	1" -11.5 NPT	41	**LIN16HN**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	**LIN20HN**

Accessories:
PTFE sealing tape, TF BAND Page 494

Union connector, SAE J 514, IGN, AGN, T form, steel

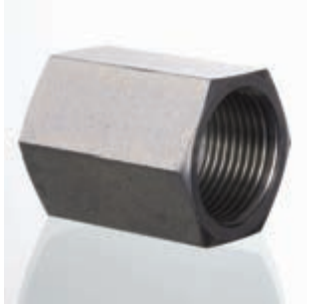
Type: T shape



www ...TINHN

G1	G2 + G3	SW	Item no.
		mm	
1/8" -27 NPT	1/8" -27 NPT	14	**TIN02HN**
1/4" -18 NPT	1/4" -18 NPT	19	**TIN04HN**
3/8" -18 NPT	3/8" -18 NPT	22	**TIN06HN**
1/2" -14 NPT	1/2" -14 NPT	27	**TIN08HN**
3/4" -14 NPT	3/4" -14 NPT	33	**TIN12HN**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	48	**TIN20HN**

Accessories:
PTFE sealing tape, TF BAND Page 494





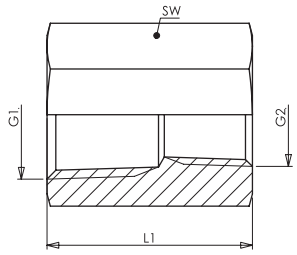


Union connector, SAE J 514, IGN, steel

Standard: SAE J 514
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



Union connector, SAE J 514, IGN, straight, steel

Connection 1: NPT internal threads
Connection 2: NPT internal threads
Construction type: connection socket
Type: straight
Sealing form 1: thread seal
Sealing form 2: thread seal

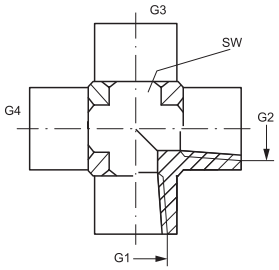
www ...GIN

G1	G2	L1	SW	Item no.
		mm	mm	
1/8" -27 NPT	1/8" -27 NPT	19.0	16	**GIN02**
1/4" -18 NPT	1/8" -27 NPT	27.0	19	**G04IN02**
1/4" -18 NPT	1/4" -18 NPT	29.0	19	**GIN04**
3/8" -18 NPT	1/4" -18 NPT	31.0	22	**G06IN04**
3/8" -18 NPT	3/8" -18 NPT	29.0	22	**GIN06**
1/2" -14 NPT	1/4" -18 NPT	39.0	29	**G08IN04**
1/2" -14 NPT	3/8" -18 NPT	39.0	29	**G08IN06**
1/2" -14 NPT	1/2" -14 NPT	38.0	30	**GIN08**
3/4" -14 NPT	1/2" -14 NPT	43.0	36	**G12IN08**
3/4" -14 NPT	3/4" -14 NPT	39.0	36	**GIN12**
1" -11.5 NPT	3/4" -14 NPT	47.0	46	**G16IN12**
1" -11.5 NPT	1" -11.5 NPT	48.0	46	**GIN16**
1.1/4" -11.5 NPT	1.1/4" -11.5 NPT	49.0	51	**GIN20**
1.1/2" -11.5 NPT	1.1/2" -11.5 NPT	49.0	60	**GIN24**
2" -11.5 NPT	2" -11.5 NPT	50.0	73	**GIN32**

Product variants:

Union connector, SAE J 514, IGN, straight, stainless steel, G IN VA	**...GINVA**

Union connector, SAE J 514, cross shape, steel

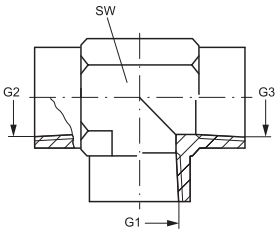


Connection 1 - 4: NPT internal threads
Construction type: screw-on socket
Type: cross shape
Sealing form 1 - 4: thread seal
Surface: electro galvanised

www ...KIN

G1 - G4	SW	Item no.
	mm	
1/8" -27 NPT	14	**KIN02**
1/4" -18 NPT	19	**KIN04**
3/8" -18 NPT	22	**KIN06**
1/2" -14 NPT	29	**KIN08**
3/4" -14 NPT	35	**KIN12**
1" -11.5 NPT	41	**KIN16**
1.1/4" -11.5 NPT	51	**KIN20**
1.1/2" -11.5 NPT	60	**KIN24**

Union connector, SAE J 514, IGN, T shape, steel



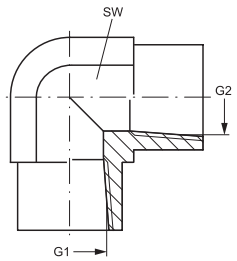
Connection 1 - 3: NPT internal threads
Construction type: screw-on socket
Type: T shape
Sealing form 1 - 3: thread seal
Surface: electro galvanised

www ...TIN

G1 - G3	SW	Item no.
	mm	
1/8" -27 NPT	14	**TIN02**
1/4" -18 NPT	19	**TIN04**
3/8" -18 NPT	22	**TIN06**
1/2" -14 NPT	27	**TIN08**
3/4" -14 NPT	33	**TIN12**
1" -11.5 NPT	41	**TIN16**
1.1/4" -11.5 NPT	48	**TIN20**
1.1/2" -11.5 NPT	64	**TIN24**

Product variants:

Union connector, SAE J 514, IGN, T-shaped, stainless steel, T IN VA	**...TINVA**



Union connector, SAE J 514, IGN, elbow 90°, steel

Connection 1: NPT internal threads
Connection 2: NPT internal threads
Construction type: screw-on socket
Type: angle 90°
Sealing form 1: thread seal
Sealing form 2: thread seal
Surface: electro galvanised

www ...W90IN

G1 + G2	SW	Item no.
	mm	
1/8" -27 NPT	14	W90IN02
1/4" -18 NPT	19	W90IN04
3/8" -18 NPT	22	W90IN06
1/2" -14 NPT	27	W90IN08
3/4" -14 NPT	41	W90IN12
1" -11.5 NPT	48	W90IN16
1.1/4" -11.5 NPT	48	W90IN20
1.1/2" -11.5 NPT	64	W90IN24
2" -11.5 NPT	64	W90IN32

Product variants:

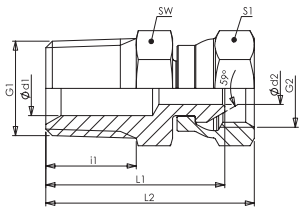
Union connector, SAE J 514, IGN, elbow 90°, stainless steel, W90 IN VA **...W90INVA**



Stud connector, SAE J 514, AGN, DKR 60°, ISO 8434-6, straight, steel

Connection 1: NPT external threads
Connection 2: BSPP nut thread
Construction type: screw-in socket
Type: straight
Sealing form 1: thread seal
Sealing form 2: 60° inner cone
Standard: ISO 8434-6
SAE J 514
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GEHNAB

d1	d2	G1	G2	i1	L1	L2	S1	S1	SW	Item no.
mm	mm			mm	mm	mm	mm		mm	
4.5	4.5	1/4" -18 NPT	G 1/4" -19	15	31.5	36.5	19	19	14	GEHN04AB
6	6	1/4" -18 NPT	G 3/8" -19	15	33	39.5	22	22	17	GEHN04AB06
9	4.5	3/8" -18 NPT	G 1/4" -19	15.2	31.7	36.7	19	19	19	GEHN06AB04
7.1	7.1	3/8" -18 NPT	G 3/8" -19	15.2	33.2	39.7	22	22	19	GEHN06AB
9	9	3/8" -18 NPT	G 1/2" -14	15.2	37.2	44.2	27	22	22	GEHN06AB08
12	7.1	1/2" -14 NPT	G 3/8" -19	19.9	39.4	45.9	22	22	22	GEHN08AB06
9.7	9.7	1/2" -14 NPT	G 1/2" -14	19.9	41.9	48.9	27	27	22	GEHN08AB
12	12	1/2" -14 NPT	G 5/8" -14	19.9	40.9	50.9	30	30	22	GEHN08AB10
16.5	9.7	3/4" -14 NPT	G 1/2" -14	20.2	43.7	50.7	27	27	27	GEHN12AB08
15.5	15.5	3/4" -14 NPT	G 3/4" -14	20.2	44.2	53.2	32	32	27	GEHN12AB
20.4	20.4	1" -11.5 NPT	G 1" -11	25.1	52.6	63.6	38	41	36	GEHN16AB

Product variants:

Stud connector, SAE J 514, AGN, DKR 60°, ISO 8434-6, straight, stainless steel, GE HN AB VA **...GEHNABVA**

Accessories:

PTFE sealing tape, TF BAND Page 494

Caps and plugs, SAE J 514, AGN, steel

Type: straight
Sealing form 1: thread seal
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

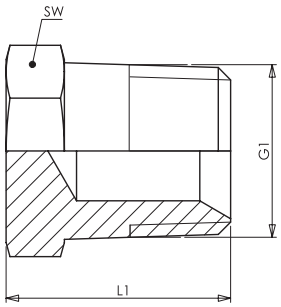






Plug, SAE J 514, hexagon head, AGN, steel

Connection 1: NPT external threads
Construction type: blanking socket
Standard: SAE J 514



www ...VERSCHLUSSHN

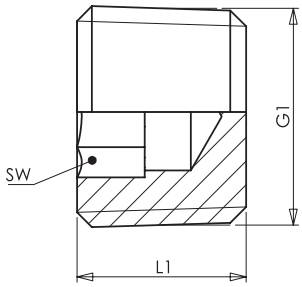
G1	L1	SW	Item no.
	mm	mm	
1/8" -27 NPT	16	12	**VERSCHLUSSHN02**
1/4" -18 NPT	20	17	**VERSCHLUSSHN04**
3/8" -18 NPT	21	19	**VERSCHLUSSHN06**
1/2" -14 NPT	27	22	**VERSCHLUSSHN08**
3/4" -14 NPT	28	27	**VERSCHLUSSHN12**
1" -11.5 NPT	36.5	36	**VERSCHLUSSHN16**
1.1/4" -11.5 NPT	38.5	46	**VERSCHLUSSHN20**
1.1/2" -11.5 NPT	43	50	**VERSCHLUSSHN24**
2" -11.5 NPT	43.5	65	**VERSCHLUSSHN32**

Product variants:

Plug, SAE J 514, hexagon head, AGN, stainless steel, VERSCHLUSS HN VA	**...VERSCHLUSSHNVA**

Accessories:

PTFE sealing tape, TF BAND	Page 494



Plug, SAE J 514, hexagon socket, AGN, steel

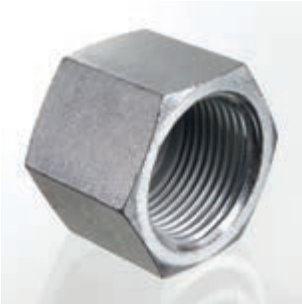
Connection 1: NPT external threads
Construction type: blanking socket, with hexagon socket
Standard: SAE J 531

...VERSCHLUSSHNIS

G1	L1	S1	SW	Item no.
	mm		mm	
1/8" -27 NPT	8.0	5	5	VERSCHLUSSHN02IS
1/4" -18 NPT	12.0	6	6	VERSCHLUSSHN04IS
3/8" -18 NPT	12.0	8	8	VERSCHLUSSHN06IS
1/2" -14 NPT	16.0	10	10	VERSCHLUSSHN08IS
3/4" -14 NPT	16.0	12	12	VERSCHLUSSHN12IS
1" -11.5 NPT	20.0	17	17	VERSCHLUSSHN16IS
1.1/4" -11.5 NPT	20.0	22	22	VERSCHLUSSHN20IS
1.1/2" -11.5 NPT	20.0	24	24	VERSCHLUSSHN24IS
2" -11.5 NPT	26.0	27	27	VERSCHLUSSHN32IS

Accessories:

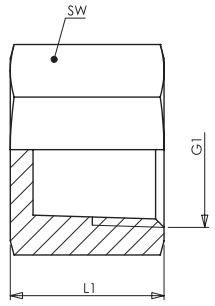
PTFE sealing tape, TF BAND Page 494



Cap, SAE J 514, IGN, steel

Connection 1: NPT internal threads
Construction type: blanking nut
Type: straight
Sealing form 1: thread seal
Standard: SAE J 514
Surface: electro galvanised
Material: steel

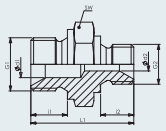
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



...VERSCHLUSSIN

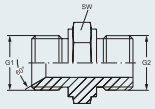
G1	L1	SW	Item no.
	mm	mm	
1/8" -27 NPT	15.5	14	VERSCHLUSSIN02
1/4" -18 NPT	21.5	17	VERSCHLUSSIN04
3/8" -18 NPT	22.0	22	VERSCHLUSSIN06
1/2" -14 NPT	27.0	27	VERSCHLUSSIN08
3/4" -14 NPT	27.0	32	VERSCHLUSSIN12
1" -11.5 NPT	32.0	41	VERSCHLUSSIN16
1.1/4" -11.5 NPT	36.0	50	VERSCHLUSSIN20
1.1/2" -11.5 NPT	36.0	55	VERSCHLUSSIN24
2" -11.5 NPT	37.5	70	VERSCHLUSSIN32

Union connectors (metric adaptors)



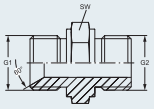
Union connector, AGM 60°, AGM, straight, steel

GH Page 384



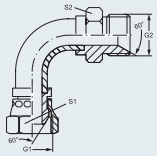
Union connector, AGM 60°, AGM flat, straight, steel

GEH00M Page 385



Union connector, AGM 60°, AGR, straight, steel

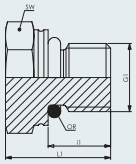
GEH00R Page 385



Swivel connector, DKM 60°, AGM 60°, elbow 90°, steel

W90AH Page 386

Caps and plugs (metric adaptors)



Plug, hexagon head, AGM, OR, ISO 6149, steel

VERSCHLUSSHMO Page 386





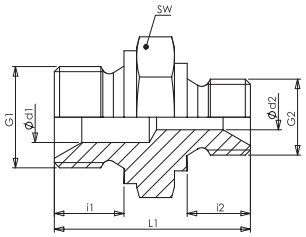


Union connector, AGM, steel

Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



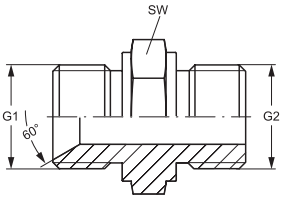
Union connector, AGM 60°, AGM, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: connectors
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: 60° inner cone

www ...GH

d1	d2	G1	G2	i1	i2	L1	SW	Item no.
mm	mm			mm	mm	mm	mm	
3	3	M 12 x 1.5	M 10 x 1	10	8	26	17	**G04H02**
4	4	M 12 x 1.5	M 12 x 1.5	10	10	28	17	**GH04**
6	4	M 14 x 1.5	M 12 x 1.5	10	10	29	19	**G06H04**
6	6	M 14 x 1.5	M 14 x 1.5	10	10	30	19	**GH06**
8	4	M 16 x 1.5	M 12 x 1.5	11	10	31	22	**G08H04**
8	6	M 16 x 1.5	M 14 x 1.5	11	10	31	22	**G08H06**
8	8	M 16 x 1.5	M 16 x 1.5	11	11	32	22	**GH08**
10	10	M 18 x 1.5	M 18 x 1.5	11	11	34	24	**GH10**
12	10	M 22 x 1.5	M 18 x 1.5	12	11	38	27	**G13H10**
12	12	M 22 x 1.5	M 22 x 1.5	12	12	38	27	**GH13**
15	15	M 26 x 1.5	M 26 x 1.5	12	12	40	32	**GH16**
19	19	M 30 x 1.5	M 30 x 1.5	14	14	38	32	**GH20**
25	19	M 38 x 1.5	M 30 x 1.5	14	14	45	41	**G25H20**
25	25	M 38 x 1.5	M 38 x 1.5	14	14	45	41	**GH25**
32	25	M 45 x 1.5	M 38 x 1.5	16	14	48	46	**G32H25**
32	32	M 45 x 1.5	M 45 x 1.5	16	16	50	46	**GH32**
39	32	M 52 x 1.5	M 45 x 1.5	16	16	50	55	**G40H32**
39	39	M 52 x 1.5	M 52 x 1.5	16	16	50	55	**GH40**
48	39	M 65 x 2	M 52 x 1.5	17	16	51	65	**G50H40**
48	48	M 65 x 2	M 65 x 2	17	17	43	65	**GH50**
58	58	M 78 x 2	M 78 x 2	17	17	43	80	**GH60**

Union connector, AGM 60°, AGM flat, straight, steel

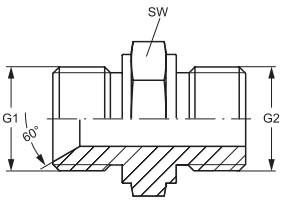


Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: type A

www ...GEH00M

G1	G2	SW	Item no.
		mm	
M 16 x 1.5	M 16 x 1.5	22	**GEH08M16**
M 18 x 1.5	M 16 x 1.5	22	**GEH10M16**
M 22 x 1.5	M 18 x 1.5	24	**GEH13M18**
M 26 x 1.5	M 22 x 1.5	32	**GEH16M22**
M 26 x 1.5	M 26 x 1.5	32	**GEH16M26**
M 30 x 1.5	M 26 x 1.5	36	**GEH20M26**

Union connector, AGM 60°, AGR, straight, steel



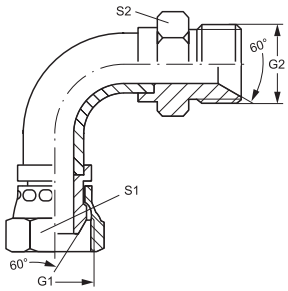
Connection 1: metric cylindrical outer thread
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: type A

www ...GEH00R

G1	G2	i1	i2	L1	SW	Ø d1	Ø d2	Item no.
		mm	mm	mm	mm	mm	mm	
M 14 x 1.5	G 1/4" -19	10	11.0	28.0	19	6.0	4.7	**GEH06R**
M 16 x 1.5	G 1/4" -19	11	11.0	29.0	19	8.0	4.7	**GEH08R06**
M 16 x 1.5	G 3/8" -19	11	12.0	31.5	22	7.0	7.0	**GEH08R10**
M 18 x 1.5	G 3/8" -19	11	12.0	31.5	22	10.0	7.9	**GEH10R**
M 18 x 1.5	G 1/2" -14	11	14.0	37.0	27	10.0	10.0	**GEH10R13**
M 22 x 1.5	G 1/2" -14	12	14.0	38.0	27	11.1	11.1	**GEH13R**
M 22 x 1.5	G 3/4" -14	12	16.0	40.0	32	12.0	16.7	**GEH13R20**
M 26 x 1.5	G 1/2" -14	12	14.0	38.0	27	15.0	11.1	**GEH16R13**
M 26 x 1.5	G 3/4" -14	12	16.0	40.0	32	15.0	15.0	**GEH16R20**
M 30 x 1.5	G 3/4" -14	14	16.0	42.0	32	19.0	16.7	**GEH20R**
M 30 x 1.5	G 1" -11	14	19.0	46.5	41	19.0	22.2	**GEH20R25**
M 38 x 1.5	G 1" -11	14	19.0	46.5	41	25.0	22.2	**GEH25R**
M 45 x 1.5	G 1.1/4" -11	16	28.6	51.0	50	32.0	28.6	**GEH32R**
M 52 x 1.5	G 1.1/2" -11	16	22.0	53.0	55	39.0	33.3	**GEH40R**
M 65 x 2	G 2" -11	17	25.0	63.5	70	46.0	46.0	**GEH50R**
M 78 x 2	G 2.1/2" -11	17	26.0	64.5	85	58.0	58.0	**GEH60R**

Product variants:

Union connector, AGM 60°, AGR, straight, stainless steel, GE H00R VA	**...GEH00RVA**



Swivel connector, DKM 60°, AGM 60°, elbow 90°, steel

Connection 1: metric nut thread
Connection 2: metric cylindrical outer thread
Construction type: Connecting socket (short tube bend)
Type: angle 90°
Sealing form 1: 60° sealing head
Sealing form 2: 60° inner cone

www ...W90AH

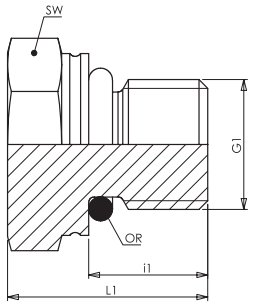
G1	G2	S1	S2	Item no.
M 14 x 1.5	M 14 x 1.5	14	19	**W90A06H**
M 16 x 1.5	M 16 x 1.5	17	22	**W90A08H**
M 18 x 1.5	M 18 x 1.5	19	24	**W90A10H**
M 22 x 1.5	M 22 x 1.5	22	27	**W90A13H**
M 26 x 1.5	M 26 x 1.5	27	32	**W90A16H**
M 30 x 1.5	M 30 x 1.5	30	36	**W90A20H**
M 38 x 1.5	M 38 x 1.5	41	46	**W90A25H**



Plug, hexagon head, AGM, OR, ISO 6149, steel

Connection 1: metric cylindrical outer thread
Construction type: blanking socket, with hexagon head
Type: straight
Sealing form 1: type F
Standard: ISO 6149-4
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

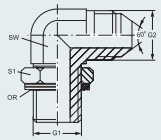


www ...VERSCHLUSSHMO

OR	G1	i1	L1	SW	Item no.
		mm	mm	mm	
8.1 x 1.6	M 10 x 1	9.5	17.0	14	**VERSCHLUSSHMO10**
9.3 x 2.2	M 12 x 1.5	11.0	18.5	17	**VERSCHLUSSHMO12**
11.3 x 2.2	M 14 x 1.5	11.0	19.5	19	**VERSCHLUSSHMO14**
13.3 x 2.2	M 16 x 1.5	12.5	22.0	22	**VERSCHLUSSHMO16**
15.3 x 2.2	M 18 x 1.5	14.0	24.0	24	**VERSCHLUSSHMO18**
17.3 x 2.2	M 20 x 1.5	14.0	25.0	27	**VERSCHLUSSHMO20**
19.30 x 2.30	M 22 x 1.5	15.0	26.0	27	**VERSCHLUSSHMO22**
23.60 x 2.90	M 27 x 2	18.5	31.5	32	**VERSCHLUSSHMO27**
29.6 x 2.9	M 33 x 2	18.5	34.0	41	**VERSCHLUSSHMO33**
38.6 x 2.9	M 42 x 2	19.0	36.5	50	**VERSCHLUSSHMO42**
44.6 x 2.9	M 48 x 2	21.5	40.0	55	**VERSCHLUSSHMO48**

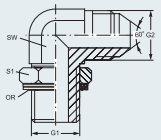
Stud connectors (JIS adaptors)

BSP



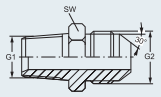
Stud connector, AGR, ORK, ISO 1179, AG JISM 60°, elbow 90°, steel

W90HROKHJL Page 388



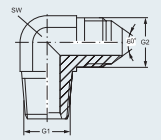
Stud connector, AGR, ORK, ISO 1179, AG JISR 60°, elbow 90°, steel

W90HROKHJR Page 388



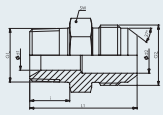
Stud connector, AGR tapered, DIN 3852-2, type C, AG JISM 60°, straight, steel

GEHRKHJL Page 389



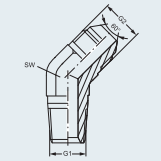
Stud connector, AGR tapered, DIN 3852-2, type C, AG JISM 60°, angle 90°, steel

W90HRKHJL Page 389



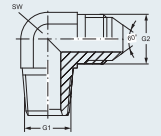
Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, straight, steel

GEHRKHJR Page 390



Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, angle 45°, steel

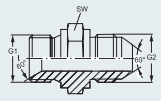
W45HRKHJR Page 390



Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, angle 90°, steel

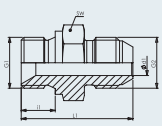
W90HRKHJR Page 391

Union connectors (JIS adaptors)



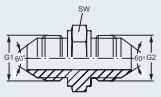
Union connector, AGR 60°, ISO 8434-6, AG JISM 60°, straight, steel

GHBHJL Page 391



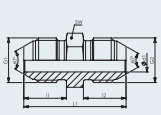
Union connector, AGR 60°, ISO 8434-6, AG JISR 60°, straight, steel

GHBHJR Page 392



Union connector, AG JISM 60°, straight, steel

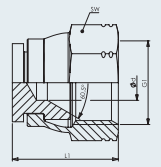
GHJL Page 392



Union connector, AG JISR 60°, straight, steel

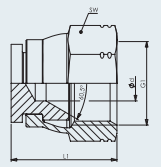
GHJR Page 393

Caps and plugs (JIS adaptors)



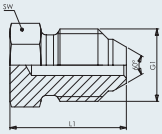
Cap, DK JISM 60°, steel

VERSCHLUSSALI Page 393



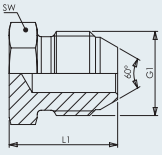
Cap, DK JISR 60°, steel

VERSCHLUSSARI Page 394



Plug, AG JISM 60° male, steel

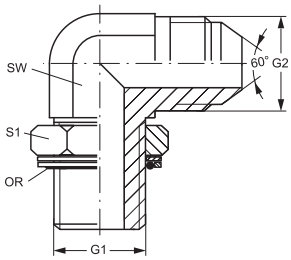
VERSCHLUSSHJL Page 394



Plug, AG JISR 60° male, steel

VERSCHLUSSHJR Page 395





Stud connector, AGR, ORK, ISO 1179, AG JISM 60°, elbow 90°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: adjustable direction screw-in socket
Type: angle 90°
Sealing form 1: O-ring and retaining ring
Sealing form 2: 60° outer cone
Standard connection 1: ISO 1179-3
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

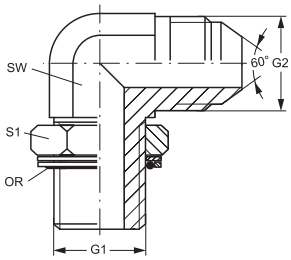
www ...W90HROKHJL

OR	G1	G2	S1	SW	Item no.
				mm	
10.78 x 2.62	G 1/4" -19	M 14 x 1.5	17	14	W90HROK04NW06HJL
13.94 x 2.62	G 3/8" -19	M 16 x 1.5	19	19	W90HROK06NW08HJL
13.94 x 2.62	G 3/8" -19	M 18 x 1.5	22	19	W90HROK06NW10HJL
17.86 x 2.62	G 1/2" -14	M 22 x 1.5	27	22	W90HROK08NW13HJL
23.47 x 2.62	G 3/4" -14	M 30 x 1.5	32	27	W90HROK12NW20HJL
29.74 x 3.53	G 1" -11	M 33 x 1.5	38	33	W90HROK16NW25HJL

Spare parts:

Retaining ring, imperial, KAMMRING G ...KAMMRINGG





Stud connector, AGR, ORK, ISO 1179, AG JISR 60°, elbow 90°, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: angle 90°
Sealing form 1: O-ring seal, on screw-in socket
Sealing form 2: 60° outer cone
Standard connection 1: ISO 1179-3
Standard connection 2: JIS B 8363
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

www ...W90HROKHJR

OR	G1 + G2	S1	SW	Item no.
			mm	
10.77 x 2.62	G 1/4" -19	14	19	W90HROK04HJR
13.94 x 2.62	G 3/8" -19	19	22	W90HROK06HJR
17.86 x 2.62	G 1/2" -14	22	27	W90HROK08HJR
23.47 x 2.62	G 3/4" -14	27	36	W90HROK12HJR
29.74 x 3.53	G 1" -11	33	41	W90HROK16HJR

Spare parts:

Retaining ring, imperial, KAMMRING G ...KAMMRINGG

Stud connector, AGR tapered, DIN 3852-2, type C, JISM 60°, steel

Connection 1: BSPT conical external threads
Connection 2: metric cylindrical outer thread
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: 60° outer cone
Standard connection 1: DIN 3852-2
Surface: electro galvanised
Material: steel

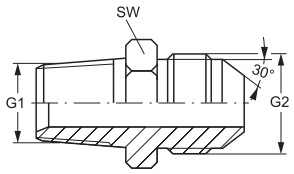
Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.





Stud connector, AGR tapered, DIN 3852-2, type C, AG JISM 60°, straight, steel

Type: straight



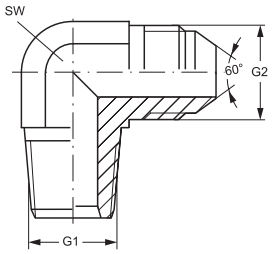
...GEHRKHJL

G1	G2	SW	Item no.
		mm	
R 1/4" K	M 14 x 1.5	19	GEHRK04NW06HJL
R 3/8" K	M 16 x 1.5	22	GEHRK06NW08HJL
R 3/8" K	M 18 x 1.5	22	GEHRK06NW10HJL
R 1/2" K	M 22 x 1.5	27	GEHRK08NW13HJL
R 1/2" K	M 24 x 1.5	27	GEHRK08NW16HJL
R 3/4" K	M 30 x 1.5	37	GEHRK12NW20HJL
R 1" K	M 33 x 1.5	41	GEHRK16NW25HJL

Accessories:
PTFE sealing tape, TF BAND Page 494

Stud connector, AGR tapered, DIN 3852-2, type C, AG JISM 60°, angle 90°, steel

Type: angle 90°



...W90HRKHJL

G1	G2	SW	Item no.
		mm	
R 1/4" K	M 14 x 1.5	14	W90HRK04NW06HJL
R 3/8" K	M 16 x 1.5	19	W90HRK06NW08HJL
R 3/8" K	M 18 x 1.5	19	W90HRK06NW10HJL
R 1/2" K	M 22 x 1.5	22	W90HRK08NW13HJL
R 1/2" K	M 24 x 1.5	22	W90HRK08NW16HJL
R 3/4" K	M 30 x 1.5	27	W90HRK12NW20HJL
R 1" K	M 33 x 1.5	33	W90HRK16NW25HJL

Accessories:
PTFE sealing tape, TF BAND Page 494





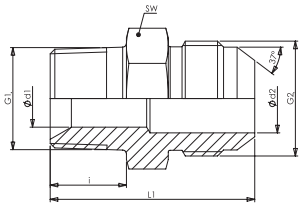


Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, steel

Connection 1: BSPT conical external threads
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: 60° outer cone
Standard connection 1: DIN 3852-2
Standard connection 2: JIS B 8363
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

2



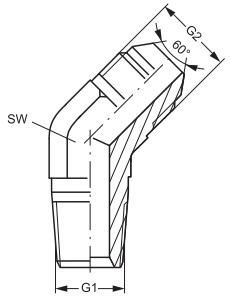
Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, straight, steel

Type: straight

...GEHRKHJR

G1	G2	i	L1	SW	Ø d1	Ø d2	Item no.
				mm			
R 1/8" K	G 1/8" -28			14			GEHRK02HJR
R 1/4" K	G 1/4" -19	13	37	17	5	5	GEHRK04HJR
R 3/8" K	G 3/8" -19	15	8	19	11	8	GEHRK06HJR
R 1/2" K	G 1/2" -14	18	48	22	11	11	GEHRK08HJR
R 3/4" K	G 3/4" -14	20	54	30	16	16	GEHRK12HJR
R 1" K	G 1" -11	22	58	36	22	22	GEHRK16HJR
R 1.1/4" K	G 1.1/4" -11	25	66	46	28	28	GEHRK20HJR
R 1.1/2" K	G 1.1/2" -11	29	74	50	34	34	GEHRK24HJR

Accessories:
PTFE sealing tape, TF BAND Page 494



Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, angle 45°, steel

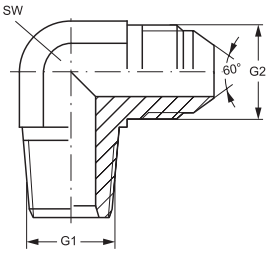
Type: angle 45°

...W45HRKHJR

G1	G2	SW	Item no.
		mm	
R 1/4" K	G 1/4" -19	14	W45HRK04HJR
R 3/8" K	G 3/8" -19	19	W45HRK06HJR
R 1/2" K	G 1/2" -14	22	W45HRK08HJR
R 3/4" K	G 3/4" -14	27	W45HRK12HJR
R 1" K	G 1" -11	33	W45HRK16HJR

Accessories:
PTFE sealing tape, TF BAND Page 494

Stud connector, AGR tapered, DIN 3852-2, type C, AG JISR 60°, angle 90°, steel



Type: angle 90°

www ...W90HRKHJR

G1	G2	SW	Item no.
		mm	
R 1/4" K	G 1/4" -19	14	**W90HRK04HJR**
R 3/8" K	G 3/8" -19	19	**W90HRK06HJR**
R 1/2" K	G 1/2" -14	22	**W90HRK08HJR**
R 3/4" K	G 3/4" -14	27	**W90HRK12HJR**
R 1" K	G 1" -11	33	**W90HRK16HJR**

Accessories:

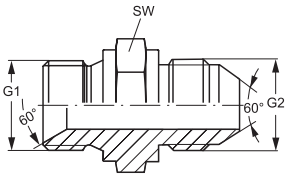
PTFE sealing tape, TF BAND Page 494

Union connector, AGR 60°, ISO 8434-6, AG JISM 60°, straight, steel



Connection 1: BSPP male thread, cylindric
Connection 2: metric cylindrical outer thread
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: 60° outer cone
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHBHJL

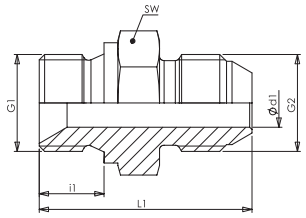
G1	G2	SW	Item no.
		mm	
G 1/4" -19	M 14 x 1.5	19	**GHB04NW06HJL**
G 3/8" -19	M 18 x 1.5	22	**GHB06NW10HJL**
G 3/8" -19	M 22 x 1.5	22	**GHB06NW13HJL**
G 1/2" -14	M 20 x 1.5	27	**GHB08NW08HJL20**
G 1/2" -14	M 22 x 1.5	27	**GHB08NW13HJL**
G 5/8" -14	M 24 x 1.5	32	**GHB10NW16HJL**
G 3/4" -14	M 30 x 1.5	37	**GHB12NW20HJL**
G 1" -11	M 33 x 1.5	41	**GHB16NW25HJL**



Union connector, AGR 60°, ISO 8434-6, AG JISR 60°, straight, steel

Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: screw-in socket
Type: straight
Sealing form 1: 60° inner cone
Sealing form 2: 60° outer cone
Standard connection 2: JIS B 8363
Standard: ISO 8434-6
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHBHJR

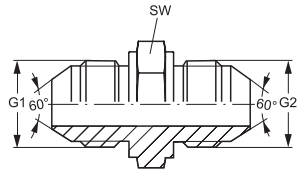
d1	G1 + G2	i1	L1	SW	Item no.
mm		mm	mm	mm	
5	G 1/4" -19	11	34	19	**GHB04HJR**
8	G 3/8" -19	12	39.5	22	**GHB06HJR**
10.5	G 1/2" -14	14	46	27	**GHB08HJR**
16	G 3/4" -14	16	51.5	32	**GHB12HJR**
22	G 1" -11	19	57.5	41	**GHB16HJR**



Union connector, AG JISM 60°, straight, steel

Connection 1: metric cylindrical outer thread
Connection 2: metric cylindrical outer thread
Construction type: connection socket
Type: straight
Sealing form 1: 60° outer cone
Sealing form 2: 60° outer cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHJL

G1 + G2	SW	Item no.
	mm	
M 14 x 1.5	19	**GNW06HJL**
M 16 x 1.5	17	**GNW08HJL**
M 18 x 1.5	22	**GNW10HJL**
M 22 x 1.5	27	**GNW13HJL**
M 24 x 1.5	32	**GNW16HJL**
M 30 x 1.5	37	**GNW20HJL**
M 33 x 1.5	41	**GNW25HJL**

Union connector, AG JISR 60°, straight, steel

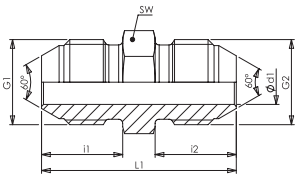
Connection 1: BSPP male thread, cylindric
Connection 2: BSPP male thread, cylindric
Construction type: connection socket
Type: straight
Sealing form 1: 60° outer cone
Sealing form 2: 60° outer cone
Standard: JIS B 8363
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...GHJR

G1 + G2	G1	G2	i1	i2	L1	SW	Ø d1	Item no.
			mm	mm	mm	mm	mm	
G 1/4" -19	G 1/4" -19	G 1/4"	16	16	38	17	5	**GHJR04**
G 3/8" -19	G 3/8" -19	G 3/8"	18	18	42	19	8	**GHJR06**
G 1/2" -14	G 1/2" -14	G 1/2"	20	20	48	22	11	**GHJR08**
G 3/4" -14	G 3/4" -14	G 3/4"	22	22	54	30	16	**GHJR12**
G 1" -11	G 1" -11	G 1"	24	24	59	36	22	**GHJR16**



Cap, DK JISM 60°, steel

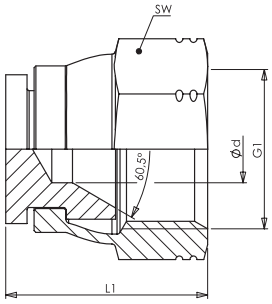
Connection 1: metric nut thread
Construction type: blanking nut
Type: straight
Sealing form 1: 60° inner cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSALI

G1	L1	S1	SW	Ø d	Item no.
	mm		mm	mm	
M 14 x 1.5	24.5	19	19	4.0	**VERSCHLUSSALI14**
M 16 x 1.5	24.5	22	22	6.0	**VERSCHLUSSALI16**
M 18 x 1.5	25.5	24	24	8.0	**VERSCHLUSSALI18**
M 22 x 1.5	28.5	27	27	10.0	**VERSCHLUSSALI22**
M 24 x 1.5	30.5	32	32	12.5	**VERSCHLUSSALI24**
M 30 x 1.5	37.0	36	36	15.0	**VERSCHLUSSALI30**
M 33 x 1.5	43.0	41	41	21.0	**VERSCHLUSSALI33**



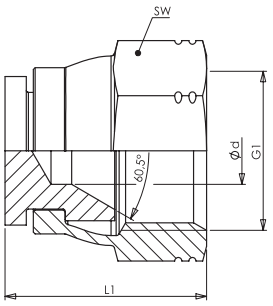
2



Cap, DK JISR 60°, steel

Connection 1: BSPP female thread, cylindric
Construction type: blanking nut
Type: straight
Sealing form 1: 60° inner cone
Standard: JIS B 8363
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



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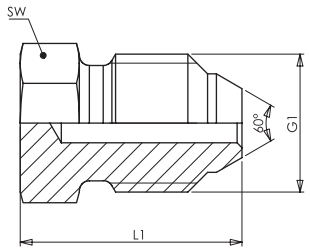
G1	L1	S1	SW	Ø d1	Item no.
	mm		mm	mm	
G 1/4" -19	21.5	19	19	5	VERSCHLUSSARI04
G 3/8" -19	23.5	22	22	8	VERSCHLUSSARI06
G 1/2" -14	26.5	27	27	11	VERSCHLUSSARI08
G 3/4" -14	30.5	37	36	16	VERSCHLUSSARI12
G 1" -11	35.5	41	41	22	VERSCHLUSSARI16



Plug, AG JISM 60° male, steel

Connection 1: metric cylindrical outer thread
Construction type: blanking socket
Type: straight
Sealing form 1: 60° outer cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



www ...VERSCHLUSSHJL

G1	L1	SW	Item no.
	mm	mm	
M 14 x 1.5	22.5	14	VERSCHLUSSHJL14
M 16 x 1.5	23.5	17	VERSCHLUSSHJL16
M 18 x 1.5	25.0	19	VERSCHLUSSHJL18
M 22 x 1.5	28.5	22	VERSCHLUSSHJL22
M 24 x 1.5	30.5	24	VERSCHLUSSHJL24
M 30 x 1.5	36.5	30	VERSCHLUSSHJL30
M 33 x 1.5	43.0	36	VERSCHLUSSHJL33

Plug, AG JISR 60° male, steel

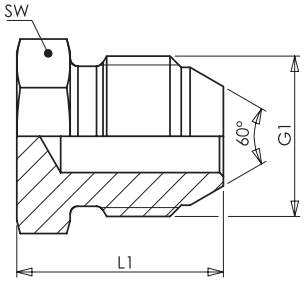
Connection 1: BSPP male thread, cylindric
Construction type: blanking socket
Type: straight
Sealing form 1: 60° outer cone
Standard connection 2: JIS B 8363
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.



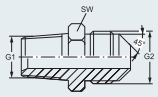
www ...VERSCHLUSSHJR

G1	L1	SW	Item no.
	mm	mm	
G 1/4" -19	22	14	**VERSCHLUSSHJR04**
G 3/8" -19	24	17	**VERSCHLUSSHJR06**
G 1/2" -14	27	22	**VERSCHLUSSHJR08**
G 3/4" -14	31	27	**VERSCHLUSSHJR12**
G 1" -11	34	36	**VERSCHLUSSHJR16**



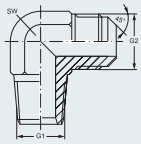
Stud connectors (SAE adaptors)

NPT



Stud connector, AGN, SAE J 514, AG SAE 45°, straight, steel

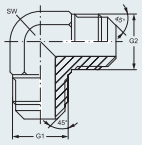
GEHNHSA Page 397



Stud connector, AGN, SAE J 514, AG SAE 45°, elbow 90°, steel

W90HNHSA Page 397

Union connectors (SAE adaptors)



Union connector, AG SAE 45°, elbow 90°, steel

W90HSA Page 398

Stud connector, AGN, SAE J 514, AG SAE 45°, steel

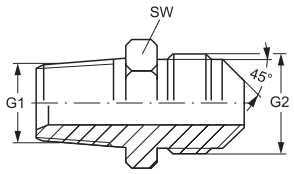
Connection 1: NPT external threads
Connection 2: UN/UNF external threads
Construction type: screw-in socket
Sealing form 1: thread seal
Sealing form 2: 45° outer cone
Standard: SAE J 514





Stud connector, AGN, SAE J 514, AG SAE 45°, straight, steel

Type: straight
Surface: electro galvanised
Material: steel



www ...GEHNHSA

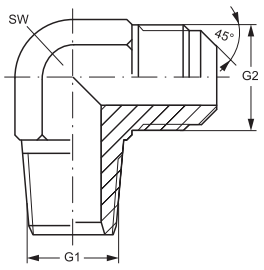
G1	G2	SW	Item no.
		mm	
1/4" -18 NPT	5/8" -18 UNF	16	**GEHN04HSA06**
3/8" -18 NPT	5/8" -18 UNF	19	**GEHN06HSA**
1/2" -14 NPT	5/8" -18 UNF	22	**GEHN08HSA06**

Accessories:

PTFE sealing tape, TF BAND Page 494

Stud connector, AGN, SAE J 514, AG SAE 45°, elbow 90°, steel

Type: angle 90°
Material: brass



www ...W90HNHSA

G1	G2	SW	Item no.
		mm	
1/4" -18 NPT	5/8" -18 UNF	19	**W90HN04HSA06**

Accessories:

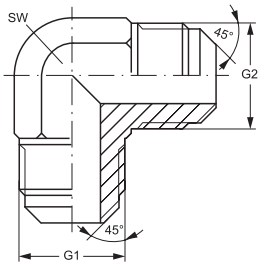
PTFE sealing tape, TF BAND Page 494



Union connector, AG SAE 45°, elbow 90°, steel

Connection 1: UN/UNF external threads
Connection 2: UN/UNF external threads
Construction type: fitting socket
Type: angle 90°
Sealing form 1: 45° outer cone
Sealing form 2: 45° outer cone
Surface: electro galvanised
Material: steel

Note:
Information about fitting, installation, pressure loads and permissible operating temperatures can be found in the technical information for adapters.

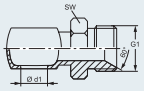


www ...W90HSA

G1 + G2	Item no.
5/8" -18 UNF	**W90HSA06**

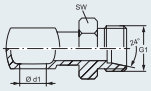
2

Banjos



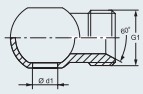
Banjo, metric, AGM 60°, straight, steel

GBH Page 401



Banjo, metric, AGM 24°, ISO 8434-1, straight, steel

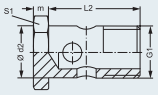
GBHL Page 401



Banjo, imperial, AGR 60°, ISO 8434-6, straight, steel

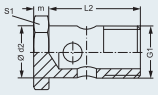
GBRHB Page 402

Hollow screws



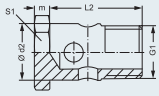
Banjo bolt, AGM, for metric banjo, steel

HSM Page 402



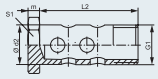
Banjo bolt, AGR, for imperial banjo, steel

HSR Page 403



Banjo bolt, AGR, for metric banjo, steel

HSMR Page 403



Double banjo bolt, AGM, for metric banjo, steel

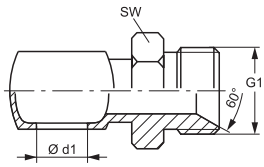
DHSM/DHSR Page 403

Banjo, steel



Type: straight
Surface: electro galvanised
Material: steel

Banjo, metric, AGM 60°, straight, steel

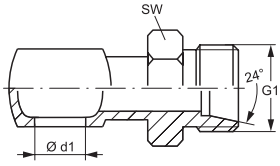


Connection 1: metric banjos
Connection 2: metric cylindrical outer thread
Construction type: connection socket
Sealing form 2: 60° inner cone

www ...GBH

For hollow screw	G1	SW	Ø d1	Item no.
		mm	mm	
M 8	M 10 x 1	14	8	**GB02H**
M 10	M 12 x 1.5	17	10	**GB04H**
M 10	M 14 x 1.5	19	10	**GB04H06**
M 12	M 14 x 1.5	19	12	**GB06H**
M 14	M 14 x 1.5	19	14	**GB08H06**
M 14	M 16 x 1.5	22	14	**GB08H**
M 16	M 18 x 1.5	24	16	**GB10H**
M 18	M 22 x 1.5	27	18	**GB13H**
M 22	M 26 x 1.5	27	22	**GB16H**
M 26	M 30 x 1.5	36	26	**GB20H**
M 30	M 38 x 1.5	41	30	**GB25H**

Banjo, metric, AGM 24°, ISO 8434-1, straight, steel



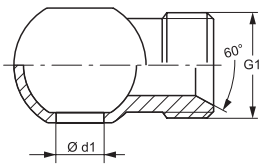
Connection 1: metric banjos
Connection 2: metric cylindrical outer thread
Construction type: connectors, ring thread piece
Sealing form 2: 24° inner cone

www ...GBHL

Tube outer Ø	For hollow screw	G1	SW	Ø d1	Item no.
mm			mm	mm	
6	M 10	M 12 x 1.5	17	10	**GB04HL**
8	M 12	M 14 x 1.5	19	12	**GB06HL**
8	M 14	M 14 x 1.5	19	14	**GB08HL06**
10	M 14	M 16 x 1.5	22	14	**GB08HL**
12	M 16	M 18 x 1.5	19	16	**GB10HL**
12	M 18	M 18 x 1.5	19	18	**GB13HL10**
15	M 18	M 22 x 1.5	27	18	**GB13HL**
15	M 22	M 22 x 1.5	27	22	**GB16HL13**
18	M 22	M 26 x 1.5	32	22	**GB16HL**

Banjo, imperial, AGR 60°, ISO 8434-6, straight, steel

Connection 1: imperial banjo
Connection 2: BSPP male thread, cylindric
Construction type: connectors, ring thread piece
Sealing form 2: 60° inner cone
Standard: ISO 8434-6



www ...GBRHB

For hollow screw	G1	Ø d1	Item no.
		mm	
R 1/8"	G 1/8" -28	9.8	**GBR02HB**
R 1/4"	G 1/4" -19	13.2	**GBR04HB**
R 3/8"	G 3/8" -19	16.7	**GBR06HB**
R 1/2"	G 1/2" -14	21.0	**GBR08HB**
R 3/4"	G 3/4" -14	26.5	**GBR12HB**

2

Banjo bolt, steel

Surface: electro galvanised
Material: steel

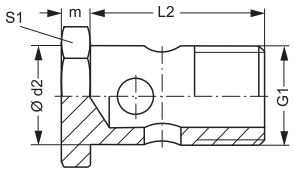






Banjo bolt, AGM, for metric banjo, steel

Connection 1: metric cylindrical outer thread
Construction type: hollow screw



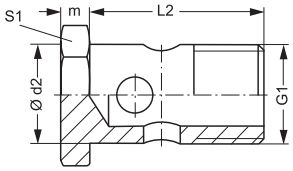
www ...HSM

G1	L2	m	S1	Ø d2	Item no.
	mm	mm		mm	
M 6 x 1	17	4	11	6	**HSM06**
M 8 x 1	17	5	12	8	**HSM08**
M 10 x 1	19	6	14	10	**HSM10**
M 12 x 1.5	24	6	17	12	**HSM12**
M 14 x 1.5	26	6	19	14	**HSM14**
M 16 x 1.5	28	6	22	16	**HSM16**
M 18 x 1.5	32	6	24	18	**HSM18**
M 18 x 1.5	42	6	24	18	**HSM18L42**
M 22 x 1.5	39	7	27	22	**HSM22**
M 26 x 1.5	45	7	32	26	**HSM26**
M 30 x 1.5	51	7	36	30	**HSM30**
M 38 x 1.5	61	8	46	38	**HSM38**

Product variants:

Banjo bolt, AGM, for metric banjo, stainless steel, HS M VA	**...HSMVA**

Banjo bolt, AGR, for imperial banjo, steel



Connection 1: BSPP male thread, cylindric
Construction type: hollow screw

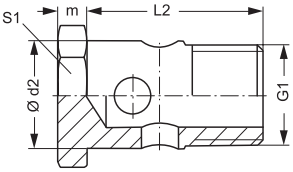
...HSR

G1	L2	m	S1	Ø d2	Item no.
	mm	mm		mm	
G 1/8" -28	19.0	5	14	9.9	**HSR1/8**
G 1/4" -19	25.5	5	17	13.1	**HSR1/4**
G 3/8" -19	31.0	7	22	16.6	**HSR3/8**
G 1/2" -14	40.0	8	27	20.9	**HSR1/2**
G 5/8" -14	47.0	9	32	22.9	**HSR5/8**
G 3/4" -14	47.0	9	32	26.4	**HSR3/4**
G 1" -11	58.0	10	41	33.2	**HSR1**

Product variants:

Banjo bolt, AGR, for imperial banjo, stainless steel, HS R VA	**...HSRVA**

Banjo bolt, AGR, for metric banjo, steel

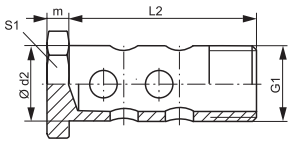


Connection 1: BSPP male thread, cylindric
Construction type: hollow screw
Construction type addition: metric banjo

...HSMR

G1	L2	m	S1	Ø d2	Item no.
	mm	mm		mm	
G 1/2" -14	39	7	27	22.0	**HSMR1/2**
G 1/4" -19	26	6	19	14.0	**HSMR1/4**
G 1/8" -28	19	6	14	10.0	**HSMR1/8**

Double banjo bolt, AGM, for metric banjo, steel

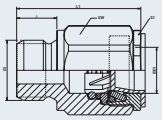


Connection 1: metric / BSPP male thread
Construction type: double hollow screw
Standard: DIN 7643

...DHSM/DHSR

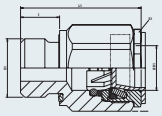
G1	L2	m	S1	Ø d2	Item no.
	mm	mm		mm	
M 8 x 1	27	5	12	8	**DHSM08**
M 10 x 1	30	6	14	10	**DHSM10**
M 12 x 1.5	38	6	17	12	**DHSM12**
M 14 x 1.5	42	6	19	14	**DHSM14**
M 16 x 1.5	46	6	22	16	**DHSM16**
M 18 x 1.5	54	6	24	18	**DHSM18**
M 22 x 1.5	69	7	27	22	**DHSM22**
M 26 x 1.5	77	8	32	26	**DHSM26**
M 30 x 1.5	86	8	36	30	**DHSM30**
G 1/4" -19	41	6	19	13	**DHSR1/4**

Stud connectors (WEO adaptors)



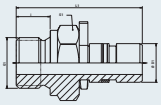
Stud connector, WEO socket, AGR, type A, steel

WEOSBG Page 404



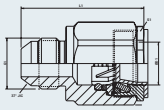
Stud connector, WEO socket, AGR soft seal, ISO 1179, type E, steel

WEOSBGED Page 404



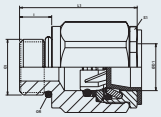
Stud connector, WEO plug, AGR, type A, steel

WEOSG Page 405



Union connector, WEO socket, AGJ 37°, ISO 8434-2, steel

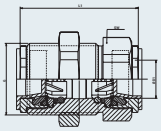
WEOSBHJ Page 405



Stud connector, WEO socket, AG UNF, OR, ISO 11926, steel

WEOSBO Page 406

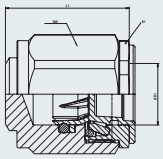
Bulkhead connectors (WEO adaptors)



Bulkhead connector, WEO double coupling, socket, steel

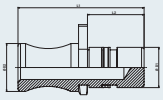
WEOVBSB Page 407

Caps and plugs (WEO adaptors)



WEO locking socket, steel

WEOVSSB Page 407



WEO locking plug, steel

WEOVSS Page 408

Accessories for WEO-adaptors



WEO disassembly ring, for WEO plug, plastic

WEOSDEMORING Page 408



WEO mounting stop, for WEO plug, plastic

WEOSMANSCHLAG Page 409



WEO seal kit, for WEO socket

WEOBDISA Page 409



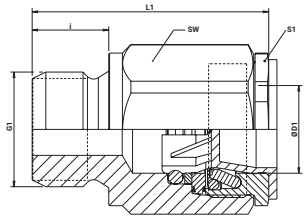




Stud connector, WEO socket, steel

Material: steel

Stud connector, WEO socket, AGR, type A, steel



Connection 1: WEO- plug-in socket
Connection 2: BSPP male thread, cylindric
Sealing form 1: O-ring seal
Sealing form 2: type A

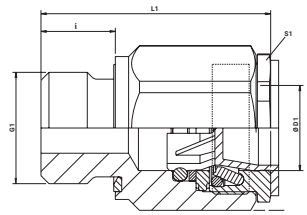
www ...WEOSBG

Size	Working pressure	G1	i	L1	S1	Ø D1	Item no.
			mm	mm		mm	
1/4"	PN 350	G 1/4" -19	12	38	19	10	**WEO10SBG1/4**
3/8"	PN 350	G 3/8" -19	12	41	22	13	**WEO13SBG3/8**
1/2"	PN 350	G 1/2" -14	14	43	27	16	**WEO16SBG1/2**
3/4"	PN 350	G 3/4" -14	16	56	36	23	**WEO23SBG3/4**
1"	PN 250	G 1" -11	18	67	41	30	**WEO30SBG1**

Spare parts:

WEO seal kit, for WEO socket, WEO B DISA	Page 409

Stud connector, WEO socket, AGR soft seal, ISO 1179, type E, steel



Connection 1: WEO- plug-in socket
Connection 2: BSPP male thread, cylindric
Sealing form 1: O-ring seal
Sealing form 2: type E

www ...WEOSBGED

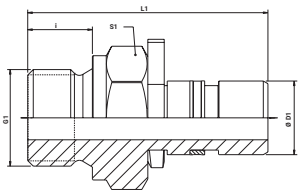
Size	Working pressure	G1	i	L1	S1	Ø D1	Item no.
			mm	mm		mm	
1/4"	PN 350	G 1/4" -19	12	38	19	10	**WEO10SBG1/4ED**
3/8"	PN 350	G 3/8" -19	12	41	22	13	**WEO13SBG3/8ED**
1/2"	PN 350	G 1/2" -14	14	43	27	16	**WEO16SBG1/2ED**

Spare parts:

Soft seal for ED fittings, WD	**...WD**
WEO seal kit, for WEO socket, WEO B DISA	Page 409

Stud connector, WEO plug, AGR, type A, steel

Connection 1: WEO- plug
Connection 2: BSPP male thread, cylindric
Sealing form 1: O-ring sealed socket
Sealing form 2: type A



...WEOSG

Size	Working pressure	G1	i	L1	S1	Ø D1	Item no.
			mm	mm		mm	
1/4"	PN 350	G 1/4" -19	19.0	43.0	19	10	**WEO10SG1/4**
3/8"	PN 350	G 3/8" -19	22.0	48.5	22	13	**WEO13SG3/8**
1/2"	PN 350	G 1/2" -14	22.0	52.0	27	16	**WEO16SG1/2**
1"	PN 250	G 1" -11	38.5	77.0	41	30	**WEO30SG1**

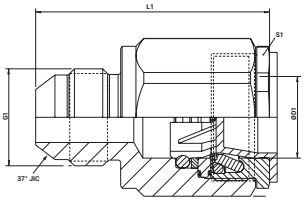
Spare parts:

WEO disassembly ring, for WEO plug, plastic, WEO S DEMORING	Page 408
WEO mounting stop, for WEO plug, plastic, WEO S M ANSCHLAG	Page 409

2

Union connector, WEO socket, AGJ 37°, ISO 8434-2, steel

Connection 1: WEO- plug-in socket
Connection 2: UN/UNF external threads
Sealing form 1: O-ring seal
Sealing form 2: 37° external cone
Standard: ISO 8434-2

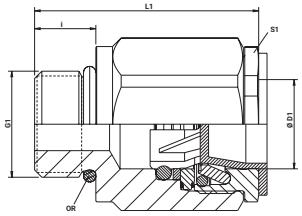


...WEOSBHJ

Size	Working pressure	G1	L1	S1	Ø D1	Item no.
			mm		mm	
3/8"	PN 200	9/16" -18 UNF	43.1	22	13	**WEO13SBHJ06**
1/2"	PN 200	3/4" -16 UNF	45.7	27	16	**WEO16SBHJ08**
1/2"	PN 200	7/8" -14 UNF	48.3	27	16	**WEO16SBHJ10**
1/2"	PN 250	1.1/16" -12 UN	50.9	30	16	**WEO16SBHJ12**

Spare parts:

WEO seal kit, for WEO socket, WEO B DISA	Page 409



Stud connector, WEO socket, AG UNF, OR, ISO 11926, steel

Connection 1: WEO- plug-in socket
Connection 2: UN/UNF external threads
Sealing form 1: O-ring seal
Sealing form 2: type F

...WEOSBO

Size	Working pressure	OR	G1	i	L1	S1	Ø D1	Item no.
				mm	mm		mm	
1/4"	PN 350	8.92 x 1.83	7/16" -20 UNF	9	35	19	10	**WEO10SBO04**
3/8"	PN 350	11.90 x 1.98	9/16" -18 UNF	10	39	22	13	**WEO13SBO06**
1/2"	PN 350	16.36 x 2.20	3/4" -16 UNF	11	40	27	16	**WEO16SBO08**
3/4"	PN 350	23.47 x 2.95	1.1/16" -12 UN	15	55	32	23	**WEO23SBO12**
1"	PN 250	29.74 x 2.95	1.5/16" -12 UN	15	64	41	30	**WEO30SBO16**

Spare parts:

WEO seal kit, for WEO socket, WEO B DISA Page 409



Bulkhead connector, WEO double coupling, socket, steel

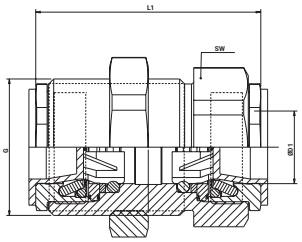
Connection 1: WEO- plug-in socket
Connection 2: WEO- plug-in socket
Sealing form 1: O-ring seal
Sealing form 2: O-ring sealed socket
Material: steel

...WEOVBSB

Size	Working pressure	G	L1	SW	Ø D1	Item no.
			mm	mm	mm	
3/8"	PN 350	M 26 x 1.5	50.8	27	13	**WEOVB13SB**
1/2"	PN 350	M 30 x 2	50.0	32	16	**WEOVB16SB**

Spare parts:

WEO seal kit, for WEO socket, WEO B DISA Page 409



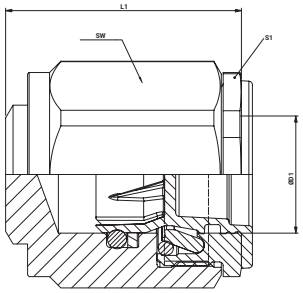
WEO locking socket, steel

Connection 1: WEO- plug-in socket
Sealing form 1: O-ring seal
Surface: electro galvanised
Material: steel



www ...WEOVSSB

Size	Working pressure	L1	S1	SW	Ø D1	Item no.
		mm		mm	mm	
1/4"	PN 350	28.0	19	20	10	**WEOVS10SB**
3/8"	PN 350	31.0	22	24	13	**WEOVS13SB**
1/2"	PN 350	32.0	27	28	16	**WEOVS16SB**
3/4"	PN 350	44.0	32	32	23	**WEOVS23SB**
1"	PN 250	55.0	41	41	30	**WEOVS30SB**



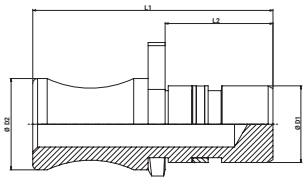
WEO locking plug, steel

Connection 1: WEO- plug
Sealing form 1: O-ring sealed socket
Surface: electro galvanised
Material: steel



www ...WEOVSS

Size	Working pressure	L1	L2	Ø D1	Ø D2	Item no.
		mm	mm	mm	mm	
1/4"	PN 350	43.0	19.0	10	12.0	**WEOVS10S**
3/8"	PN 350	50.0	22.0	13	16.0	**WEOVS13S**
1/2"	PN 350	50.0	22.0	16	19.0	**WEOVS16S**
3/4"	PN 350	59.0	31.0	23	25.0	**WEOVS23S**
1"	PN 250	75.0	38.5	30	33.0	**WEOVS30S**



Spare parts:

WEO disassembly ring, for WEO plug, plastic, WEO S DEMORING	Page 408
WEO mounting stop, for WEO plug, plastic, WEO S M ANSCHLAG	Page 409

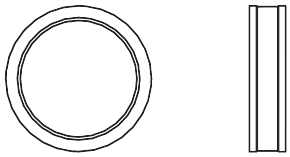


WEO disassembly ring, for WEO plug, plastic

Material: plastic

...WEOSDEMORING

Size	Item no.
1/4"	**WEO10SDEMORING**
3/8"	**WEO13SDEMORING**
1/2"	**WEO16SDEMORING**
3/4"	**WEO23SDEMORING**
1"	**WEO30SDEMORING**



Spare part for following products:	
Swage nipple, WEO, plug, steel, PN WEO S	**...PNWEOS**
Swage nipple, WEO, plug, angle 45°, steel, PN WEO S 45	**...PNWEOS45**
Swage nipple, WEO, plug, angle 90°, steel, PN WEO S 90	**...PNWEOS90**
Stud connector, WEO plug, AGR, type A, steel, WEO S G	Page 405
WEO locking plug, steel, WEO VS S	Page 407

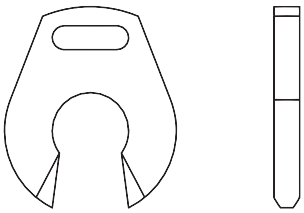


WEO mounting stop, for WEO plug, plastic

Material: plastic

...WEOSMANSCHLAG

Size	Item no.
1/4"	**WEO10SMANSCHLAG**
3/8"	**WEO13SMANSCHLAG**
1/2"	**WEO16SMANSCHLAG**
3/4"	**WEO23SMANSCHLAG**
1"	**WEO30SMANSCHLAG**



Spare part for following products:	
Swage nipple, WEO, plug, steel, PN WEO S	**...PNWEOS**
Swage nipple, WEO, plug, angle 45°, steel, PN WEO S 45	**...PNWEOS45**
Swage nipple, WEO, plug, angle 90°, steel, PN WEO S 90	**...PNWEOS90**
Stud connector, WEO plug, AGR, type A, steel, WEO S G	Page 405
WEO locking plug, steel, WEO VS S	Page 407

WEO seal kit, for WEO socket



Scope of supply: O-ring and support ring
Material: NBR - Acrylic-nitrile, butadiene rubber

www ...WEOBDISA

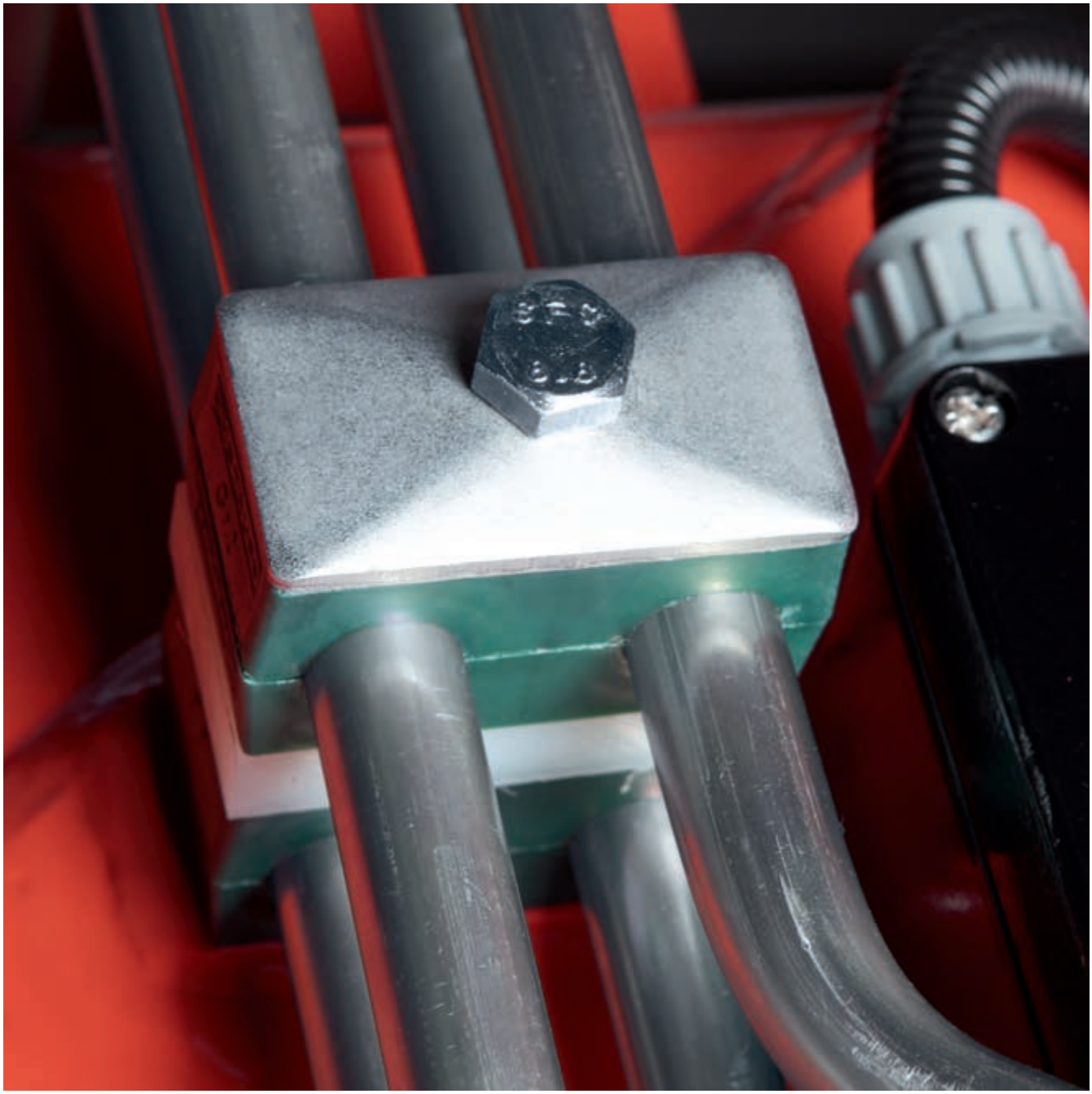
Size	Item no.
1/4"	**WEO10BDISA**
3/8"	**WEO13BDISA**
1/2"	**WEO16BDISA**
3/4"	**WEO23BDISA**
1"	**WEO30BDISA**





Spare part for following products:	
Swage nipple, WEO, socket, steel, PN WEO SB	**...PNWEOSB**
Union connector, WEO socket, BEL/BES, steel, WEO SB FL / WEO SB FS	**...WEOSBFL/WEOSBFS**
Stud connector, WEO socket, AGR, type A, steel, WEO SB G	Page 404
Stud connector, WEO socket, AGR soft seal, ISO 1179, type E, steel, WEO SB G ED	Page 404
Union connector, WEO socket, AGJ 37°, ISO 8434-2, steel, WEO SB HJ	Page 405
Union connector, WEO socket, CEL/CES, ISO 8434-1, steel, WEO SB HL / WEO SB HS	**...WEOSBHL/WEOSBHS**
Stud connector, WEO socket, AG UNF, OR, ISO 11926, steel, WEO SB O	Page 406
Bulkhead connector, WEO double coupling, socket, steel, WEO VB SB	Page 406
WEO locking socket, steel, WEO VS SB	Page 407

Fastening technology



Tube clamps - assembly matrix and ordering designations

Overview	412

Tube clamps lightweight series 0

Clamp bodies	414
Cover and weld plates	414

Tube clamps in accordance with DIN 3015-1, light series

Cover and weld plates	417
Clamp bodies	427
Clamp accessories	434
Screws	435
Mounting rails / rail nuts	439

Tube clamps in accordance with DIN 3015-2, heavy series

Cover and weld plates	442
Clamp bodies	445
Clamp accessories	453
Screws	454
Mounting rails / rail nuts	457

Tube clamps in accordance with DIN 3015-3 (double tube clamps)

Cover and weld plates	460
Clamp bodies	463
Clamp accessories	467
Screws	468
Mounting rails / rail nuts	471

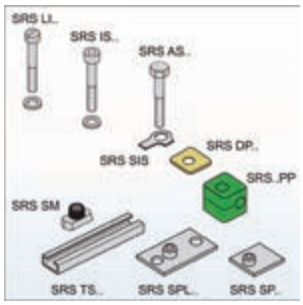
PARA-system

Overview	472
Connection matrix of the PARA system	474
Tube clamps PARA	476

Tube clamps - assembly matrix and ordering designations

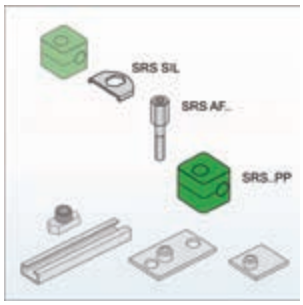
Tube clamps in accordance with DIN 3015-1, light series

Configuration of group A 0



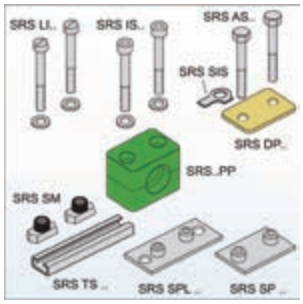
Item no.	Specification	Page
SRS 0 DP	Cover plate for single tube clamp, steel	417
SRS 0 D SP	Double welded on base plate, single tube clamp, size 0, steel	418
SRS 0 SP	Welded on base plate for single tube clamp, short, size 0, steel	419
SRS 0 SPW	Angle welded on and screw-on base plate, steel	420
SRS 0 SP L	Welded on and screw-on base plate, long, steel	421
SRS 0 PP	Tube clamp, light series, size 0, polypropylene	427
SRS SIS	Locking washer for single tube clamp, light series, steel	435
SRS 1-6 AS	Hexagon screw for single tube clamp, steel	436
SRS 1-6 IS	Hexagon socket screw, single tube clamp, light series, steel	437
SRS 1-6 LI	Slotted screw for single tube clamp, light series, steel	438
SRS SM	Mounting rail nut, light series, steel	439
SRS SPR D	Series welded on base plate, double tube clamp, steel	462

Configuration of group A 0 composition



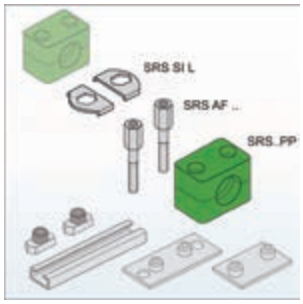
Item no.	Specification	Page
SRS 0 PP	Tube clamp, light series, size 0, polypropylene	427
SRS SIL	Locking plate for single tube clamp, light series, steel	434
SRS 1-6 AF	Stacking screw for single tube clamp, steel	435

Configuration of group A 1 - 6



Item no.	Specification	Page
SRS 1-6 DP	Cover plate for single tube clamp, light series, steel	422
SRS 1-6 SP	Welded on base plate for single tube clamp, short, steel	423
SRS 1-6 SPW	Angle welded on and screw-on base plate, light series, steel	424
SRS 1-6 SP L	Welded on and screw-on base plate, long, light series, steel	425
SRS 1-6 SP R	Series welded on base plate, single tube clamp, light series, steel	426
SRS 1-6 PP	Tube clamp, light series, polypropylene	430
SRS 1-6 AF	Stacking screw for single tube clamp, steel	435
SRS SIS	Locking washer for single tube clamp, light series, steel	435
SRS 1-6 AS	Hexagon screw for single tube clamp, steel	436
SRS 1-6 IS	Hexagon socket screw, single tube clamp, light series, steel	437
SRS 1-6 LI	Slotted screw for single tube clamp, light series, steel	438
SRS SM	Mounting rail nut, light series, steel	439
SRS TS	Mounting rail, single and double tube clamp, light series, steel	440

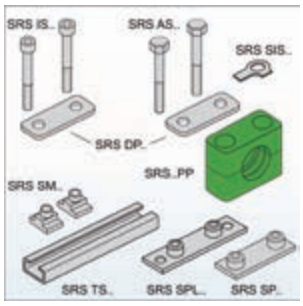
Configuration of group A 1 - 6 composition



Item no.	Specification	Page
SRS 1-6 PP	Tube clamp, light series, polypropylene	430
SRS SIL	Locking plate for single tube clamp, light series, steel	434
SRS 1-6 AF	Stacking screw for single tube clamp, steel	435

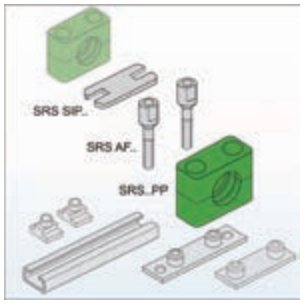
Tube clamps in accordance with DIN 3015-2, heavy series

Configuration of group C



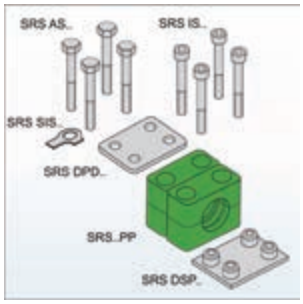
Item no.	Specification	Page
SRS DP 30-100	Cover plate for single tube clamp, heavy series, steel	442
SRS SP 30-100	Welded on base plate for single tube clamp, heavy series, steel	443
SRS SPL 30-100	Welded on and screw-on base plate, long, heavy series, steel	444
SRS 30-100 PP	Tube clamp, heavy series, polypropylene	448
SRS AS 30-100	Hexagon screw for single tube clamp, heavy series, steel	454
SRS SIS 30-100	Locking washer for single tube clamp, heavy series, steel	454
SRS IS 30-100	Hexagon socket screw, single tube clamp, heavy series, steel	455
SRS SM 30 - SRS SM 60	Mounting rail nut, single tube clamp, heavy series, steel	458
SRS TS 40	Mounting rail, single tube clamp, heavy series, steel	459

Configuration of group C composition



Item no.	Specification	Page
SRS 30-100 PP	Tube clamp, heavy series, polypropylene	448
SRS SIP	Locking plate for single tube clamp, heavy series, steel	453
SRS AF 30-100	Stacking screw for single tube clamp, heavy series, steel	456

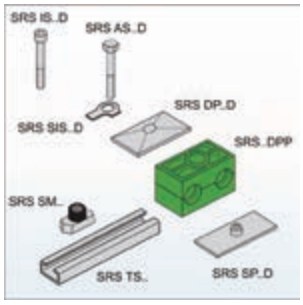
Configuration of group C double



Item no.	Specification	Page
SRS DPD 30-100	Double cover plate for single tube clamp, heavy series, steel	442
SRS D SP 30-100	Double welded on base plate, single tube clamp, heavy series, steel	445
SRS 30-100 PP	Tube clamp, heavy series, polypropylene	448
SRS AS 30-100	Hexagon screw for single tube clamp, heavy series, steel	454
SRS SIS 30-100	Locking washer for single tube clamp, heavy series, steel	454
SRS IS 30-100	Hexagon socket screw, single tube clamp, heavy series, steel	455

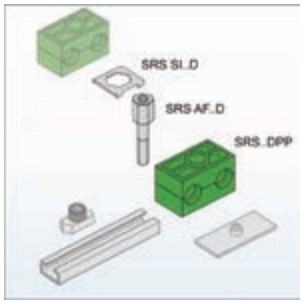
Tube clamps in accordance with DIN 3015-3 (double tube clamps)

Configuration of group B



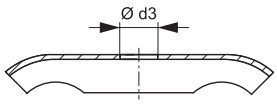
Item no.	Specification	Page
SRS TS	Mounting rail, single and double tube clamp, light series, steel	440
SRS DP D	Cover plate for double tube clamp, steel	460
SRS SP D	Welded on base plate for double tube clamp, steel	461
SRS SPR D	Series welded on base plate, double tube clamp, steel	462
SRS 1-5 D PP	Tube clamp, double tubes, light series, polypropylene	464
SRS AS D	Hexagon screw for double tube clamp, steel	468
SRS SIS D	Locking washer for double tube clamp, steel	468
SRS IS D	Hexagon socket screw, double tube clamp, steel	469
SRS SMD	Mounting rail nut, double tube clamp, steel	471

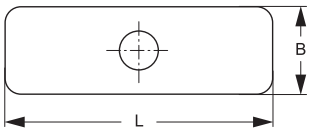
Configuration of group B composition



Item no.	Specification	Page
SRS 1-5 D PP	Tube clamp, double tubes, light series, polypropylene	464
SRS SI	Locking plate for double tube clamp, steel	467
SRS AF D	Stacking screw for double tube clamp, steel	470







Cover plate for light construction double tube clamp, steel

Item description: The cover plate provides stable fitting of the lightweight double tube clamp LBS D and LBS D PA.
Surface: electro galvanised
Material: steel

...LBSDPD

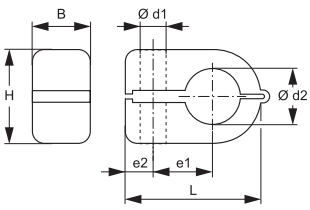
Clamp-size	B	L	d3 Ø	Item no.
	mm	mm	mm	
1	16.3	29.0	6.5	**LBSDP1D**
2	16.3	40.0	6.5	**LBSDP2D**
3	16.5	50.5	6.5	**LBSDP3D**
4	16.5	63.0	6.5	**LBSDP4D**

Accessory for following products:

Light construction double tube clamp, polypropylene, LBS D Page 415
Light construction double tube clamp, polyamide, LBS D PA Page 416

3





Light construction tube clamp, polypropylene

Item description: For quick assembly of cables, hoses, oil and lubrication lines. Mounting with screws.
Construction type: single tube clamp
Temp. max.: 90 °C
Temp. min.: -30 °C
Material: polypropylene (PP)

...LBS

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	e2	H	L	Ø d1	Item no.
	mm		mm	mm	mm	mm	mm	mm	
1	6.0	-	14.5	9	7	13.5	23	6.5	**LBS106**
1	6.4	1/4"	14.5	9	7	13.5	23	6.5	**LBS106.4**
1	8.0	-	14.5	9	7	13.5	23	6.5	**LBS108**
2	8.0	-	14.5	11	7	18.5	27	6.5	**LBS208**
2	9.5	3/8"	14.5	11	7	18.5	27	6.5	**LBS209.5**
2	10.0	-	14.5	11	7	18.5	27	6.5	**LBS210**
2	12.0	-	14.5	11	7	18.5	27	6.5	**LBS212**
2	12.7	1/2"	14.5	11	7	18.5	27	6.5	**LBS212.7**
3	10.0	-	14.5	15	7	23.5	34	6.5	**LBS310**
3	12.0	-	14.5	15	7	23.5	34	6.5	**LBS312**
3	12.7	1/2"	14.5	15	7	23.5	34	6.5	**LBS312.7**
3	13.5	-	14.5	15	7	23.5	34	6.5	**LBS313.5**
3	14.0	-	14.5	15	7	23.5	34	6.5	**LBS314**
3	15.0	-	14.5	15	7	23.5	34	6.5	**LBS315**
3	16.0	5/8"	14.5	15	7	23.5	34	6.5	**LBS316**
4	14.0	-	14.5	19	6	30.5	40	6.5	**LBS414**
4	15.0	-	14.5	19	6	30.5	40	6.5	**LBS415**
4	16.0	5/8"	14.5	19	6	30.5	40	6.5	**LBS416**
4	17.2	-	14.5	19	6	30.5	40	6.5	**LBS417.2**
4	18.0	-	14.5	19	6	30.5	40	6.5	**LBS418**
4	19.0	3/4"	14.5	19	6	30.5	40	6.5	**LBS419**
4	20.0	-	14.5	19	6	30.5	40	6.5	**LBS420**
4	21.3	-	14.5	19	6	30.5	40	6.5	**LBS421.3**
4	22.0	-	14.5	19	6	30.5	40	6.5	**LBS422**

Product variants:

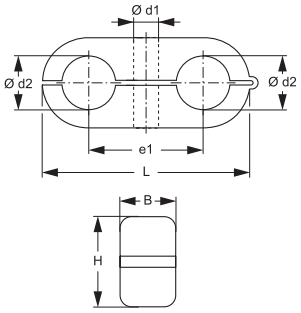
Light construction tube clamp, polyamide, LBS PA Page 416

Light construction double tube clamp, polypropylene



Item description: For quick assembly of cables, hoses, oil and lubrication lines. Mounting with screws.
Construction type: Double tube clamp
Temp. max.: 90 °C
Temp. min.: -30 °C
Material: polypropylene (PP)

www ...LBSD



Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	Ø d1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0	-	14.5	18	13.5	32	6.5	**LBS106D**
1	6.4	1/4"	14.5	18	13.5	32	6.5	**LBS106.4D**
1	8.0	-	14.5	18	13.5	32	6.5	**LBS108D**
2	8.0	-	14.5	22	18.5	41	6.5	**LBS208D**
2	9.5	3/8"	14.5	22	18.5	41	6.5	**LBS209.5D**
2	10.0	-	14.5	22	18.5	41	6.5	**LBS210D**
2	12.0	-	14.5	22	18.5	41	6.5	**LBS212D**
2	12.7	1/2"	14.5	22	18.5	41	6.5	**LBS212.7D**
3	10.0	-	14.5	30	23.5	54	6.5	**LBS310D**
3	12.0	-	14.5	30	23.5	54	6.5	**LBS312D**
3	12.7	1/2"	14.5	30	23.5	54	6.5	**LBS312.7D**
3	13.6	-	14.5	30	23.5	54	6.5	**LBS313.5D**
3	14.0	-	14.5	30	23.5	54	6.5	**LBS314D**
3	15.0	-	14.5	30	23.5	54	6.5	**LBS315D**
3	16.0	5/8"	14.5	30	23.5	54	6.5	**LBS316D**
4	14.0	-	14.5	38	30.5	69	6.5	**LBS414D**
4	15.0	-	14.5	38	30.5	69	6.5	**LBS415D**
4	16.0	5/8"	14.5	38	30.5	69	6.5	**LBS416D**
4	17.2	-	14.5	38	30.5	69	6.5	**LBS417.2D**
4	18.0	-	14.5	38	30.5	69	6.5	**LBS418D**
4	19.0	3/4"	14.5	38	30.5	69	6.5	**LBS419D**
4	20.0	-	14.5	38	30.5	69	6.5	**LBS420D**
4	21.3	-	14.5	38	30.5	69	6.5	**LBS421.3D**
4	22.0	-	14.5	38	30.5	69	6.5	**LBS422D**
4	25.0	-	14.5	38	30.5	69	6.5	**LBS425.4D**

Product variants:

Light construction double tube clamp, polyamide, LBS D PA — Page 416

Accessories:

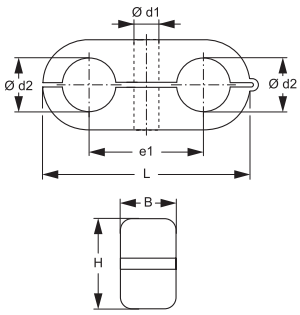
Cover plate for light construction double tube clamp, steel, LBS DP D — Page 414



Light construction double tube clamp, polyamide

Item description: For quick assembly of cables, hoses, oil and lubrication lines. Mounting with screws.
Construction type: Double tube clamp
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide (PA)

www ...LBSDPA



Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	Ø d1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0		14.5	18	13.5	32	6.5	LBS106DPA
1	6.4	1/4"	14.5	18	13.5	32	6.5	LBS106.4DPA
1	8.0		14.5	18	13.5	32	6.5	LBS108DPA
2	8.0		14.5	22	18.5	41	6.5	LBS208DPA
2	9.5	3/8"	14.5	22	18.5	41	6.5	LBS209.5DPA
2	10.0		14.5	22	18.5	41	6.5	LBS210DPA
2	12.0		14.5	22	18.5	41	6.5	LBS212DPA
2	12.7	1/2"	14.5	22	18.5	41	6.5	LBS212.7DPA
3	10.0		14.5	30	23.5	54	6.5	LBS310DPA
3	12.0		14.5	30	23.5	54	6.5	LBS312DPA
3	12.7	1/2"	14.5	30	23.5	54	6.5	LBS312.7DPA
3	13.6		14.5	30	23.5	54	6.5	LBS313.5DPA
3	14.0		14.5	30	23.5	54	6.5	LBS314DPA
3	15.0		14.5	30	23.5	54	6.5	LBS315DPA
3	16.0	5/8"	14.5	30	23.5	54	6.5	LBS316DPA
4	14.0		14.5	38	30.5	69	6.5	LBS414DPA
4	15.0		14.5	38	30.5	69	6.5	LBS415DPA
4	16.0	5/8"	14.5	38	30.5	69	6.5	LBS416DPA
4	17.2		14.5	38	30.5	69	6.5	LBS417.2DPA
4	18.0		14.5	38	30.5	69	6.5	LBS418DPA
4	19.0	3/4"	14.5	38	30.5	69	6.5	LBS419DPA
4	20.0		14.5	38	30.5	69	6.5	LBS420DPA
4	21.3		14.5	38	30.5	69	6.5	LBS421.3DPA

Product variants:

Light construction double tube clamp, polypropylene, LBS D — Page 415

Accessories:

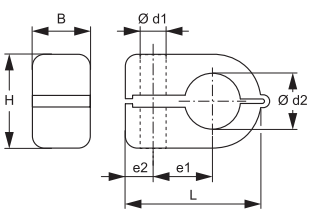
Cover plate for light construction double tube clamp, steel, LBS DP D — Page 414



Light construction tube clamp, polyamide

Item description: For quick assembly of cables, hoses, oil and lubrication lines. Mounting with screws.
Construction type: single tube clamp
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide (PA)

www ...LBSPA



Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	e2	H	L	Ø d1	Item no.
	mm		mm	mm	mm	mm	mm	mm	
1	6.0		14.5	9	7	13.5	23	6.5	LBS106PA
1	6.4	1/4"	14.5	9	7	13.5	23	6.5	LBS106.4PA
1	8.0		14.5	9	7	13.5	23	6.5	LBS108PA
2	8.0		14.5	11	7	18.5	27	6.5	LBS208PA
2	9.5	3/8"	14.5	11	7	18.5	27	6.5	LBS209.5PA
2	10.0		14.5	11	7	18.5	27	6.5	LBS210PA

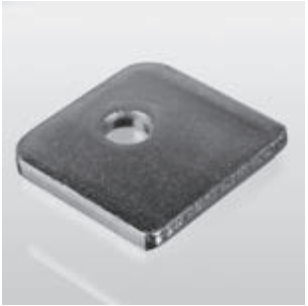
Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	e2	H	L	Ø d1	Item no.
	mm		mm	mm	mm	mm	mm	mm	
2	12.0		14.5	11	7	18.5	27	6.5	**LBS212PA**
2	12.7	1/2"	14.5	11	7	18.5	27	6.5	**LBS212.7PA**
3	10.0		14.5	15	7	23.5	34	6.5	**LBS310PA**
3	12.0		14.5	15	7	23.5	34	6.5	**LBS312PA**
3	12.7	1/2"	14.5	15	7	23.5	34	6.5	**LBS312.7PA**
3	13.5		14.5	15	7	23.5	34	6.5	**LBS313.5PA**
3	14.0		14.5	15	7	23.5	34	6.5	**LBS314PA**
3	15.0		14.5	15	7	23.5	34	6.5	**LBS315PA**
3	16.0	5/8"	14.5	15	7	23.5	34	6.5	**LBS316PA**
4	14.0		14.5	19	6	30.5	40	6.5	**LBS414PA**
4	15.0		14.5	19	6	30.5	40	6.5	**LBS415PA**
4	16.0	5/8"	14.5	19	6	30.5	40	6.5	**LBS416PA**
4	17.2		14.5	19	6	30.5	40	6.5	**LBS417.2PA**
4	18.0		14.5	19	6	30.5	40	6.5	**LBS418PA**
4	19.0	3/4"	14.5	19	6	30.5	40	6.5	**LBS419PA**
4	20.0		14.5	19	6	30.5	40	6.5	**LBS420PA**
4	21.3		14.5	19	6	30.5	40	6.5	**LBS421.3PA**
4	22.0		14.5	19	6	30.5	40	6.5	**LBS422PA**

Product variants:

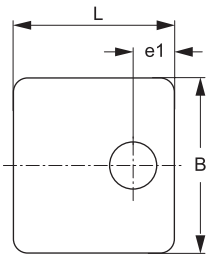
Light construction tube clamp, polypropylene, LBS — Page 414

Cover plate for single tube clamp, steel

Construction type: for single tube clamps
Series: light
Surface: electro galvanised
Material: steel



Größe 0



www ...SRS0DP

Clamp-size	B	e1	L	Item no.
	mm	mm	mm	
0	30.0	9.5	28	**SRSDP1**

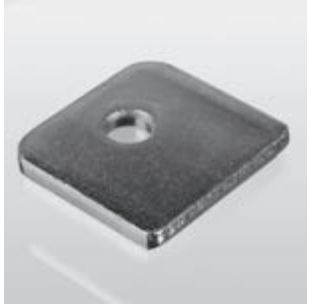
Additional element for following products:

Configuration of group A 0, A 0 — **...A0**

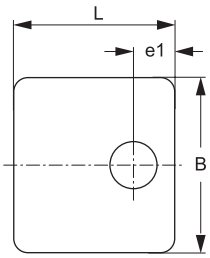
Product variants:

Cover plate for single tube clamp, SRS 0 DP H — **...SRS0DPH**

Cover plate for single tube clamp, stainless steel, SRS 0 DP V4 — Page 418



Größe 0



Cover plate for single tube clamp, stainless steel

Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

www ...SRS0DPV4

Clamp-size	B	e1	L	Item no.
	mm	mm	mm	
0	30.0	9.5	28	**SRSDP1V4**

Product variants:

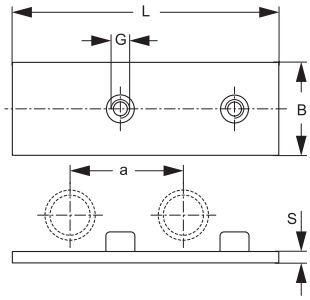
Cover plate for single tube clamp, steel, SRS 0 DP	Page 417
Cover plate for single tube clamp, SRS 0 DP H	**...SRS0DPH**



Double welded on base plate, single tube clamp, size 0, steel

Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel

www ...SRS0DSP



Clamp-size	B	G	L	S	Item no.
	mm		mm	mm	
0	30.0	M 6	61	3	**SRSDSP1**

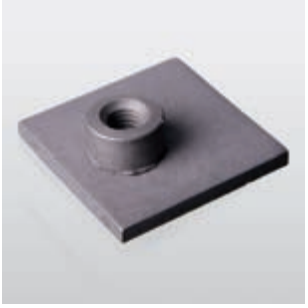
Additional element for following products:

Configuration of group A 0, A 0	**...A0**

Product variants:

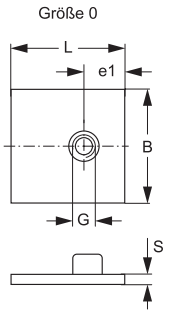
Double welded on base plate, single tube clamp, SRS 0 D SP VZ	**...SRS0DSPVZ**

Welded on base plate for single tube clamp, short, size 0, steel



Construction type: for single tube clamps
Construction type addition: short
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel

...SRS0SP



Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
0	30	10.5	M 6	30	3	**SRSSP1**

Additional element for following products:

Configuration of group A 0, A 0	**...A0**

Product variants:

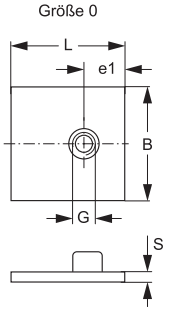
Welded on base plate for single tube clamp, short, stainless steel, SRS 0 SP V4	Page 419
Welded on base plate for single tube clamp, short, SRS 0 SP VZ	**...SRS0SPVZ**

Welded on base plate for single tube clamp, short, stainless steel



Construction type: for single tube clamps
Construction type addition: short
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

...SRS0SPV4



Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
0	30	10.5	M 6	30	3	**SRSSP1V4**

Product variants:

Welded on base plate for single tube clamp, short, size 0, steel, SRS 0 SP	Page 419
Welded on base plate for single tube clamp, short, SRS 0 SP VZ	**...SRS0SPVZ**

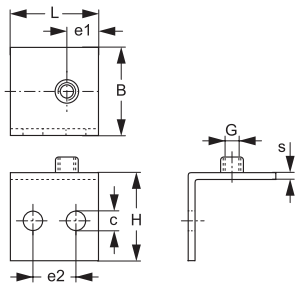


Angle welded on and screw-on base plate, steel

Construction type: for single tube clamps
Type: angle 90°
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel

...SRS0SPW

Größe 0



Clamp-size	B	c	e1	e2	G	H	L	S	Item no.
	mm	mm	mm	mm		mm	mm	mm	
0	30	6.6	10.5	14	M 6	30	30	3	**SRSSPW1**

Additional element for following products:

Configuration of group A 0, A 0 **...A0**

Product variants:

Angle welded on and screw-on base plate, stainless steel, SRS 0 SPW V4 Page 420

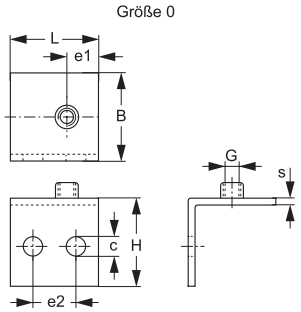


Angle welded on and screw-on base plate, stainless steel

Construction type: for single tube clamps
Type: angle 90°
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

...SRS0SPWV4

Größe 0



Clamp-size	B	c	e1	e2	G	H	L	S	Item no.
	mm	mm	mm	mm		mm	mm	mm	
0	30	6.6	10.5	14	M 6	30	30	3	**SRSSPW1V4**

Product variants:

Angle welded on and screw-on base plate, steel, SRS 0 SPW Page 420

Welded on and screw-on base plate, long, steel

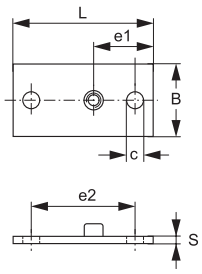


Construction type: for single tube clamps
Construction type addition: long
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel

www ...SRS0SPL

Clamp-size	B	c	e1	e2	G	L	S	Item no.
	mm	mm	mm	mm		mm	mm	
0	30	7	24.5	44	M 6	58	3	**SRSSPL1**

Größe 0



Additional element for following products:

Configuration of group A 0, A 0	**...A0**

Product variants:

Welded on and screw-on base plate, long, stainless steel, SRS 0 SP L V4	Page 421
Welded on and screw-on base plate, long, SRS 0 SP L VZ	**...SRS0SPLVZ**

Welded on and screw-on base plate, long, stainless steel

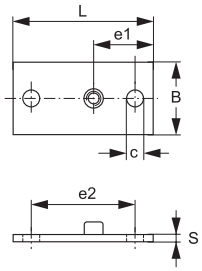


Construction type: for single tube clamps
Construction type addition: long
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

www ...SRS0SPLV4

Clamp-size	B	c	e1	e2	G	L	S	Item no.
	mm	mm	mm	mm		mm	mm	
0	30	7	24.5	44	M 6	58	3	**SRSSPL1V4**

Größe 0



Product variants:

Welded on and screw-on base plate, long, steel, SRS 0 SP L	Page 421
Welded on and screw-on base plate, long, SRS 0 SP L VZ	**...SRS0SPLVZ**

3

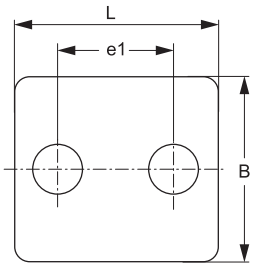


Cover plate for single tube clamp, light series, steel

Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: electro galvanised
Material: steel

...SRS1-6DP

Größe 1 - 6



Clamp-size	B	e1	L	Item no.
	mm	mm	mm	
1	30	20	34	SRSDP1A
2	30	26	40	SRSDP2
3	30	33	48	SRSDP3
4	30	40	57	SRSDP4
5	30	52	70	SRSDP5
6	30	66	86	SRSDP6

Additional element for following products:

Configuration of group A 1-6, A 1-6 **...A1-6**

Product variants:

Cover plate for single tube clamp, light series, stainless steel, SRS 1-6 DP V4 Page 422

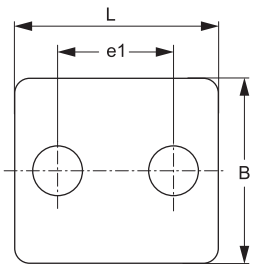


Cover plate for single tube clamp, light series, stainless steel

Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

...SRS1-6DPV4

Größe 1 - 6



Clamp-size	B	e1	L	Item no.
	mm	mm	mm	
1	30.0	20.0	34.0	SRSDP1AV4
2	30.0	26.0	40.0	SRSDP2V4
3	30.0	33.0	48.0	SRSDP3V4
4	30.0	40.0	57.0	SRSDP4V4
5	30.0	52.0	70.0	SRSDP5V4
6	30.0	66.0	86.0	SRSDP6V4

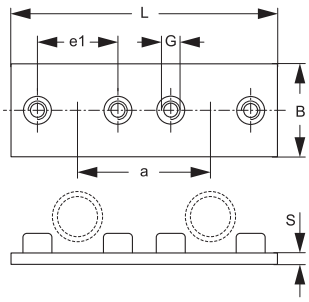
Product variants:

Cover plate for single tube clamp, light series, steel, SRS 1-6 DP Page 422

Double welded on base plate, single tube clamp, steel

Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel





...SRS1-6DSP

Clamp-size	a	B	e1	G	L	S	Item no.
	mm	mm	mm		mm	mm	
1	35	30	20	M 6	69	3	SRSDSP1A
2	43	30	26	M 6	86	3	SRSDSP2
3	52	30	33	M 6	104	3	SRSDSP3
4	60	30	40	M 6	117	3	SRSDSP4
5	75	30	52	M 6	145	3	SRSDSP5
6	90	30	66	M 6	176	3	SRSDSP6

Additional element for following products:

Configuration of group A 1-6, A 1-6	**...A1-6**

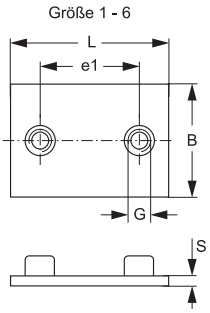
Product variants:

Double cover plate, single tube clamp, SRS 1-6 D SP VZ	**...SRS1-6DSPVZ**

Welded on base plate for single tube clamp, short, steel

Construction type: for single tube clamps
Construction type addition: short
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel





...SRS1-6SP

Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
1	30	20	M 6	36	3	SRSSP1A
2	30	26	M 6	42	3	SRSSP2
3	30	33	M 6	50	3	SRSSP3
4	30	40	M 6	59	3	SRSSP4
5	30	52	M 6	72	3	SRSSP5
6	30	66	M 6	88	3	SRSSP6

Additional element for following products:

Configuration of group A 1-6, A 1-6	**...A1-6**

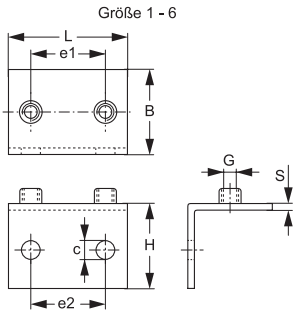
Product variants:

Welded on base plate for single tube clamp, short, light series, stainless steel, SRS 1-6 SP V4	Page 426
Welded on base plate for single tube clamp, short, SRS 1-6 SP VZ	**...SRS1-6SPVZ**



Angle welded on and screw-on base plate, light series, steel

Construction type: for single tube clamps
Type: angle 90°
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel



...SRS1-6SPW

Clamp-size	B	c	e1	e2	G	H	L	S	Item no.
	mm	mm	mm	mm		mm	mm	mm	
1	30	6.6	20.0	20	M 6	30	36.0	3	**SRSSPW1A**
2	30	6.6	26.0	26	M 6	30	42.0	3	**SRSSPW2**
3	30	6.6	33.0	33	M 6	30	50.0	3	**SRSSPW3**
4	30	6.6	40.0	40	M 6	30	59.0	3	**SRSSPW4**
5	30	6.6	52.0	52	M 6	30	72.0	3	**SRSSPW5**
6	30	6.6	66.0	66	M 6	30	88.0	3	**SRSSPW6**

Additional element for following products:

Configuration of group A 1-6, A 1-6 **...A1-6**

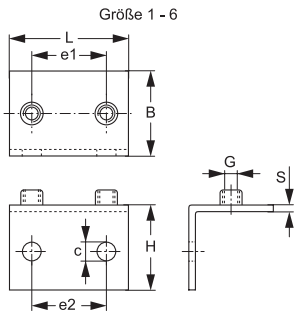
Product variants:

Angle welded on and screw-on base plate, light series, stainless steel, SRS 1-6 SPW V4 Page 424



Angle welded on and screw-on base plate, light series, stainless steel

Construction type: for single tube clamps
Type: angle 90°
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571



...SRS1-6SPWV4

Clamp-size	B	c	e1	e2	G	H	L	S	Item no.
	mm	mm	mm	mm		mm	mm	mm	
1	30	6.6	20.0	20	M 6	30	36.0	3	**SRSSPW1AV4**
2	30	6.6	26.0	26	M 6	30	42.0	3	**SRSSPW2V4**
3	30	6.6	33.0	33	M 6	30	50.0	3	**SRSSPW3V4**
4	30	6.6	40.0	40	M 6	30	59.0	3	**SRSSPW4V4**
5	30	6.6	52.0	52	M 6	30	72.0	3	**SRSSPW5V4**
6	30	6.6	66.0	66	M 6	30	88.0	3	**SRSSPW6V4**

Product variants:

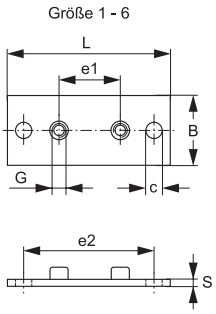
Angle welded on and screw-on base plate, light series, steel, SRS 1-6 SPW Page 424

Welded on and screw-on base plate, long, light series, steel



Construction type: for single tube clamps
Construction type addition: long
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel

...SRS1-6SPL



Clamp-size	B	c	e1	e2	G	L	S	Item no.
	mm	mm	mm	mm		mm	mm	
1	30	7	20	50	M 6	64	3	**SRSSPL1A**
2	30	7	26	56	M 6	70	3	**SRSSPL2**
3	30	7	33	64	M 6	78	3	**SRSSPL3**
4	30	7	40	73	M 6	87	3	**SRSSPL4**
5	30	7	52	86	M 6	100	3	**SRSSPL5**
6	30	7	66	100	M 6	116	3	**SRSSPL6**

Additional element for following products:

Configuration of group A 1-6, A 1-6	**...A1-6**

Product variants:

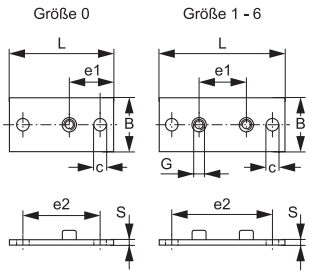
Welded on and screw-on base plate, long, light series, stainless steel, SRS 1-6 SP L V4	Page 425
Welded on and screw-on base plate, long, SRS 1-6 SP L VZ	**...SRS1-6SPLVZ**

Welded on and screw-on base plate, long, light series, stainless steel



Construction type: for single tube clamps
Construction type addition: long
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

...SRS1-6SPLV4



Clamp-size	B	c	e1	e2	G	L	S	Item no.
	mm	mm	mm	mm		mm	mm	
1	30	7	20	50	M 6	64	3	**SRSSPL1AV4**
2	30	7	26	56	M 6	70	3	**SRSSPL2V4**
3	30	7	33	64	M 6	78	3	**SRSSPL3V4**
4	30	7	40	73	M 6	87	3	**SRSSPL4V4**
5	30	7	52	86	M 6	100	3	**SRSSPL5V4**
6	30	7	66	100	M 6	116	3	**SRSSPL6V4**

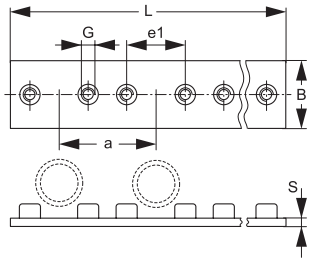
Product variants:

Welded on and screw-on base plate, long, light series, steel, SRS 1-6 SP L	Page 425
Welded on and screw-on base plate, long, SRS 1-6 SP L VZ	**...SRS1-6SPLVZ**



Series welded on base plate, single tube clamp, light series, steel

Item description: Number of mountings: Clamp sizes 1-3 = for 10 clamps; clamp sizes 4-6 = for 5 clamps.
Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: phosphate treated
Material: steel



www ...SRS1-6SPR

Clamp-size	a	B	e1	G	L	S	Item no.
	mm	mm	mm		mm	mm	
1	35	30	20	M 6	349	3	SRSSPR1A
2	43	30	26	M 6	427	3	SRSSPR2
3	52	30	33	M 6	516	3	SRSSPR3
4	60	30	40	M 6	297	3	SRSSPR4
5	75	30	52	M 6	370	3	SRSSPR5
6	90	30	66	M 6	446	3	SRSSPR6

Additional element for following products:

Configuration of group A 1-6, A 1-6	**...A1-6**

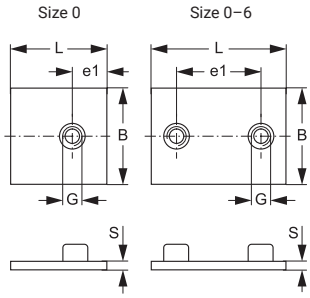
Product variants:

Series welded on base plate, single tube clamp, SRS 1-6 SP R VZ	**...SRS1-6SPRVZ**

Welded on base plate for single tube clamp, short, light series, stainless steel



Construction type: for single tube clamps
Construction type addition: short
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571



www ...SRS1-6SPV4

Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
1	30	20	M 6	36	3	SRSSP1AV4
2	30	26	M 6	42	3	SRSSP2V4
3	30	33	M 6	50	3	SRSSP3V4
4	30	40	M 6	59	3	SRSSP4V4
5	30	52	M 6	72	3	SRSSP5V4
6	30	66	M 6	88	3	SRSSP6V4

Product variants:

Welded on base plate for single tube clamp, short, steel, SRS 1-6 SP	Page 423
Welded on base plate for single tube clamp, short, SRS 1-6 SP VZ	**...SRS1-6SPVZ**

Tube clamp, light series, size 0, polypropylene



Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: Tube clamp

Construction type addition: inside of clamp with ribs

Series: light

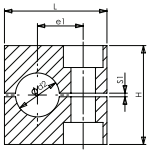
Standard: DIN 3015-1

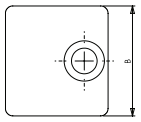
Temp. max.: 90 °C

Temp. min.: -30 °C

Material: polypropylene (PP)

Order information:
1 piece = 2 clamp halves





www ...SRS0PP

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.4	1/4"	0	30.0	10	27	28	0.6	**SRS0106.4PP**
6.0	-	0	30.0	10	27	28	0.6	**SRS0106PP**
8.0	5/16"	0	30.0	10	27	28	0.6	**SRS0108PP**
9.5	3/8"	0	30.0	10	27	28	0.6	**SRS0109.5PP**
10.0	-	0	30.0	10	27	28	0.6	**SRS0110PP**
12.0	-	0	30.0	10	27	28	0.6	**SRS0112PP**

Additional element for following products:

Configuration of group A 0, A 0	**...A0**
Configuration of group A 0 composition, A 0 A	**...A0A**

Product variants:

Tube clamp, light series, size 0, polyamide 6, SRS 0 PA Page 427

Tube clamp, light series, size 0, polyamide 6



Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: Tube clamp

Construction type addition: inside of clamp with ribs

Series: light

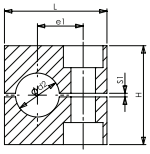
Standard: DIN 3015-1

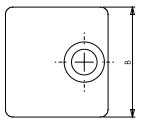
Temp. max.: 120 °C

Temp. min.: -40 °C

Material: polyamide 6

Order information:
1 piece = 2 clamp halves





www ...SRS0PA

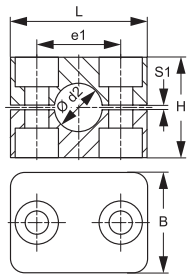
Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.4	1/4"	0	30.0	10	27	28	0.6	**SRS0106.4PA**
6.0	-	0	30.0	10	27	28	0.6	**SRS0106PA**
8.0	5/16"	0	30.0	10	27	28	0.6	**SRS0108PA**
9.5	3/8"	0	30.0	10	27	28	0.6	**SRS0109.5PA**
10.0	-	0	30.0	10	27	28	0.6	**SRS0110PA**
12.0	-	0	30.0	10	27	28	0.6	**SRS0112PA**

Product variants:

Tube clamp, light series, size 0, polypropylene, SRS 0 PP Page 427



Größe 1 - 6



3

Tube clamp, light series, polyamide 6

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type addition: inside of clamp with ribs

Series: light

Standard: DIN 3015-1

Temp. max.: 120 °C

Temp. min.: -40 °C

Material: polyamide 6

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

www ...SRS1-6PA

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	30	20	27	34	0.6	**SRS106APA**
6.4	1/4"	1	30	20	27	34	0.6	**SRS106.4APA**
8.0	5/16"	1	30	20	27	34	0.6	**SRS108APA**
9.5	3/8"	1	30	20	27	34	0.6	**SRS109.5APA**
10.0	-	1	30	20	27	34	0.6	**SRS110APA**
12.0	-	1	30	20	27	34	0.6	**SRS112APA**
12.7	1/2"	2	30	26	33	40	0.8	**SRS0212.7PA**
13.5	-	2	30	26	33	40	0.8	**SRS0213.5PA**
14.0	-	2	30	26	33	40	0.8	**SRS0214PA**
15.0	-	2	30	26	33	40	0.8	**SRS0215PA**
16.0	5/8"	2	30	26	33	40	0.8	**SRS0216PA**
17.2	-	2	30	26	33	40	0.8	**SRS0217.2PA**
18.0	-	2	30	26	33	40	0.8	**SRS0218PA**
19.0	3/4"	3	30	33	35	48	1.0	**SRS0319PA**
20.0	-	3	30	33	35	48	1.0	**SRS0320PA**
21.3	-	3	30	33	35	48	1.0	**SRS0321.3PA**
22.0	-	3	30	33	35	48	1.0	**SRS0322PA**
25.0	1"	3	30	33	35	48	1.0	**SRS0325PA**
26.9	-	4	30	40	42	57	1.2	**SRS0426.9PA**
28.0	-	4	30	40	42	57	1.2	**SRS0428PA**
30.0	-	4	30	40	42	57	1.2	**SRS0430PA**
32.0	1.1/4"	5	30	52	58	70	1.2	**SRS0532PA**
33.7	-	5	30	52	58	70	1.2	**SRS0533.7PA**
35.0	-	5	30	52	58	70	1.2	**SRS0535PA**
38.0	1.1/2"	5	30	52	58	70	1.2	**SRS0538PA**
40.0	-	5	30	52	58	70	1.2	**SRS0540PA**
42.0	-	5	30	52	58	70	1.2	**SRS0542PA**
44.5	1.3/4"	6	30	66	66	86	1.2	**SRS0644.5PA**
45.0	-	6	30	66	66	86	1.2	**SRS0645PA**
48.0	-	6	30	66	66	86	1.2	**SRS0648PA**
50.8	2"	6	30	66	66	86	1.2	**SRS0650.8PA**
50.0	-	6	30	66	66	86	1.2	**SRS0650PA**
52.0	-	6	30	66	66	86	1.2	**SRS0652PA**
55.0	-	6	30	66	66	86	1.2	**SRS0655PA**
57.0	2.1/4"	6	30	66	66	86	1.2	**SRS0657PA**

Product variants:

Tube clamp, light series, aluminium, SRS 1-6 AL	Page 432
Tube clamp, light series, smooth inside, polyamide 6, SRS 1-6 PA G	Page 429
Tube clamp, light series, polypropylene, SRS 1-6 PP	Page 430
Tube clamp, light series, smooth inside, polypropylene, SRS 1-6 PP G	Page 431
Tube clamp, light series, solid rubber, SRS 1-6 VG	Page 433

Tube clamp, light series, smooth inside, polyamide 6

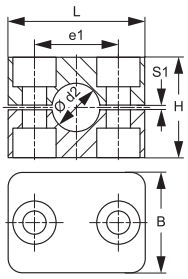


Construction type addition: inside of clamp, smooth
Series: light
Standard: DIN 3015-1
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

Größe 1 - 6



www ...SRS1-6PAG

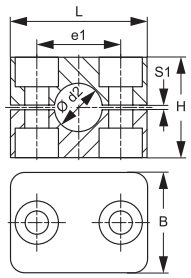
Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	30	20	27	34	0.6	**SRS106APAG**
6.4	1/4"	1	30	20	27	34	0.6	**SRS106.4APAG**
8.0	5/16"	1	30	20	27	34	0.6	**SRS108APAG**
9.5	3/8"	1	30	20	27	34	0.6	**SRS109.5APAG**
10.0	-	1	30	20	27	34	0.6	**SRS110APAG**
12.0	-	1	30	20	27	34	0.6	**SRS112APAG**
12.7	1/2"	2	30	26	33	40	0.8	**SRS0212.7PAG**
13.5	-	2	30	26	33	40	0.8	**SRS0213.5PAG**
14.0	-	2	30	26	33	40	0.8	**SRS0214PAG**
15.0	-	2	30	26	33	40	0.8	**SRS0215PAG**
16.0	5/8"	2	30	26	33	40	0.8	**SRS0216PAG**
17.2	-	2	30	26	33	40	0.8	**SRS0217.2PAG**
18.0	-	2	30	26	33	40	0.8	**SRS0218PAG**
19.0	3/4"	3	30	33	35	48	1.0	**SRS0319PAG**
20.0	-	3	30	33	35	48	1.0	**SRS0320PAG**
21.3	-	3	30	33	35	48	1.0	**SRS0321.3PAG**
22.0	-	3	30	33	35	48	1.0	**SRS0322PAG**
25.0	1"	3	30	33	35	48	1.0	**SRS0325PAG**
26.9	-	4	30	40	42	57	1.2	**SRS0426.9PAG**
28.0	-	4	30	40	42	57	1.2	**SRS0428PAG**
30.0	-	4	30	40	42	57	1.2	**SRS0430PAG**
32.0	1.1/4"	5	30	52	58	70	1.2	**SRS0532PAG**
33.7	-	5	30	52	58	70	1.2	**SRS0533.7PAG**
35.0	-	5	30	52	58	70	1.2	**SRS0535PAG**
38.0	1.1/2"	5	30	52	58	70	1.2	**SRS0538PAG**
40.0	-	5	30	52	58	70	1.2	**SRS0540PAG**
42.0	-	5	30	52	58	70	1.2	**SRS0542PAG**
44.5	1.3/4"	6	30	66	66	86	1.2	**SRS0644.5PAG**
45.0	-	6	30	66	66	86	1.2	**SRS0645PAG**
48.0	-	6	30	66	66	86	1.2	**SRS0648PAG**
50.8	2"	6	30	66	66	86	1.2	**SRS0650.8PAG**
50.0	-	6	30	66	66	86	1.2	**SRS0650PAG**
52.0	-	6	30	66	66	86	1.2	**SRS0652PAG**
55.0	-	6	30	66	66	86	1.2	**SRS0655PAG**
57.0	2.1/4"	6	30	66	66	86	1.2	**SRS0657PAG**

Product variants:

Tube clamp, light series, aluminium, SRS 1-6 AL	Page 432
Tube clamp, light series, polyamide 6, SRS 1-6 PA	Page 428
Tube clamp, light series, polypropylene, SRS 1-6 PP	Page 430
Tube clamp, light series, smooth inside, polypropylene, SRS 1-6 PP G	Page 431
Tube clamp, light series, solid rubber, SRS 1-6 VG	Page 433



Größe 1 - 6



Tube clamp, light series, polypropylene

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: single tube clamp

Construction type addition: inside of clamp with ribs

Series: light

Standard: DIN 3015-1

Temp. max.: 90 °C

Temp. min.: -30 °C

Material: polypropylene (PP)

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

www ...SRS1-6PP

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	30	20	27	34	0.6	**SRS106APP**
6.4	1/4"	1	30	20	27	34	0.6	**SRS106.4APP**
8.0	5/16"	1	30	20	27	34	0.6	**SRS108APP**
9.5	3/8"	1	30	20	27	34	0.6	**SRS109.5APP**
10.0	-	1	30	20	27	34	0.6	**SRS110APP**
12.0	-	1	30	20	27	34	0.6	**SRS112APP**
12.7	1/2"	2	30	26	33	40	0.8	**SRS0212.7PP**
13.5	-	2	30	26	33	40	0.8	**SRS0213.5PP**
14.0	-	2	30	26	33	40	0.8	**SRS0214PP**
15.0	-	2	30	26	33	40	0.8	**SRS0215PP**
16.0	5/8"	2	30	26	33	40	0.8	**SRS0216PP**
17.2	-	2	30	26	33	40	0.8	**SRS0217.2PP**
18.0	-	2	30	26	33	40	0.8	**SRS0218PP**
19.0	3/4"	3	30	33	35	48	1.0	**SRS0319PP**
20.0	-	3	30	33	35	48	1.0	**SRS0320PP**
21.3	-	3	30	33	35	48	1.0	**SRS0321.3PP**
22.0	-	3	30	33	35	48	1.0	**SRS0322PP**
23.0	-	3	30	33	35	48	1.0	**SRS0323PP**
25.0	1"	3	30	33	35	48	1.0	**SRS0325PP**
26.9	-	4	30	40	42	57	1.2	**SRS0426.9PP**
28.0	-	4	30	40	42	57	1.2	**SRS0428PP**
30.0	-	4	30	40	42	57	1.2	**SRS0430PP**
32.0	1.1/4"	5	30	52	58	70	1.2	**SRS0532PP**
33.7	-	5	30	52	58	70	1.2	**SRS0533.7PP**
35.0	-	5	30	52	58	70	1.2	**SRS0535PP**
38.0	1.1/2"	5	30	52	58	70	1.2	**SRS0538PP**
40.0	-	5	30	52	58	70	1.2	**SRS0540PP**
42.0	-	5	30	52	58	70	1.2	**SRS0542PP**
44.5	1.3/4"	6	30	66	66	86	1.2	**SRS0644.5PP**
45.0	-	6	30	66	66	86	1.2	**SRS0645PP**
48.0	-	6	30	66	66	86	1.2	**SRS0648PP**
50.8	2"	6	30	66	66	86	1.2	**SRS0650.8PP**
50.0	-	6	30	66	66	86	1.2	**SRS0650PP**
52.0	-	6	30	66	66	86	1.2	**SRS0652PP**
55.0	-	6	30	66	66	86	1.2	**SRS0655PP**
57.0	2.1/4"	6	30	66	66	86	1.2	**SRS0657PP**

Additional element for following products:

Configuration of group A 1-6, A 1-6	**...A1-6**
Configuration of group A 1-6 composition, A 1-6 A	**...A1-6A**

Product variants:

Tube clamp, light series, aluminium, SRS 1-6 AL	Page 432
Tube clamp, light series, polyamide 6, SRS 1-6 PA	Page 428
Tube clamp, light series, smooth inside, polyamide 6, SRS 1-6 PA G	Page 429
Tube clamp, light series, smooth inside, polypropylene, SRS 1-6 PP G	Page 431
Tube clamp, light series, solid rubber, SRS 1-6 VG	Page 433

Tube clamp, light series, smooth inside, polypropylene

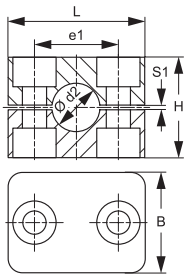


Construction type: single tube clamp
Construction type addition: inside of clamp, smooth
Series: light
Standard: DIN 3015-1
Temp. max.: 90 °C
Temp. min.: -30 °C
Material: polypropylene (PP)

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

Größe 1 - 6



www ...SRS1-6PPG

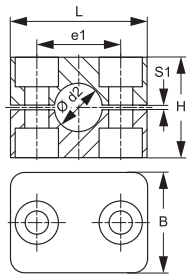
Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	30	20	27	34	0.6	**SRS106APPG**
6.4	1/4"	1	30	20	27	34	0.6	**SRS106.4APPG**
8.0	5/16"	1	30	20	27	34	0.6	**SRS108APPG**
9.5	3/8"	1	30	20	27	34	0.6	**SRS109.5APPG**
10.0	-	1	30	20	27	34	0.6	**SRS110APPG**
12.0	-	1	30	20	27	24	0.6	**SRS112APPG**
12.7	1/2"	2	30	26	33	40	0.8	**SRS0212.7PPG**
13.5	-	2	30	26	33	40	0.8	**SRS0213.5PPG**
14.0	-	2	30	26	33	40	0.8	**SRS0214PPG**
15.0	-	2	30	26	33	40	0.8	**SRS0215PPG**
16.0	5/8"	2	30	26	33	40	0.8	**SRS0216PPG**
17.2	-	2	30	26	33	40	0.8	**SRS0217.2PPG**
18.0	-	2	30	26	33	40	0.8	**SRS0218PPG**
19.0	3/4"	3	30	33	35	48	1.0	**SRS0319PPG**
20.0	-	3	30	33	35	48	1.0	**SRS0320PPG**
21.3	-	3	30	33	35	48	1.0	**SRS0321.3PPG**
22.0	-	3	30	33	35	48	1.0	**SRS0322PPG**
23.0	-	3	30	33	35	48	1.0	**SRS0323PPG**
25.0	1"	3	30	33	35	48	1.0	**SRS0325PPG**
26.9	-	4	30	40	42	57	1.2	**SRS0426.9PPG**
28.0	-	4	30	40	42	57	1.2	**SRS0428PPG**
30.0	-	4	30	40	42	57	1.2	**SRS0430PPG**
32.0	1.1/4"	5	30	52	58	70	1.2	**SRS0532PPG**
33.7	-	5	30	52	58	70	1.2	**SRS0533.7PPG**
35.0	-	5	30	52	58	70	1.2	**SRS0535PPG**
38.0	1.1/2"	5	30	52	58	70	1.2	**SRS0538PPG**
40.0	-	5	30	52	58	70	1.2	**SRS0540PPG**
42.0	-	5	30	52	58	70	1.2	**SRS0542PPG**
44.5	1.3/4"	6	30	66	66	86	1.2	**SRS0644.5PPG**
48.0	-	6	30	66	66	86	1.2	**SRS0648PPG**
50.8	2"	6	30	66	66	86	1.2	**SRS0650.8PPG**
50.0	-	6	30	66	66	86	1.2	**SRS0650PPG**
52.0	-	6	30	66	66	86	1.2	**SRS0652PPG**
55.0	-	6	30	66	66	86	1.2	**SRS0655PPG**
57.0	2.1/4"	6	30	66	66	86	1.2	**SRS0657PPG**

Product variants:

Tube clamp, light series, aluminium, SRS 1-6 AL	Page 432
Tube clamp, light series, polyamide 6, SRS 1-6 PA	Page 428
Tube clamp, light series, smooth inside, polyamide 6, SRS 1-6 PA G	Page 429
Tube clamp, light series, polypropylene, SRS 1-6 PP	Page 430
Tube clamp, light series, solid rubber, SRS 1-6 VG	Page 433



Größe 1 - 6



Tube clamp, light series, aluminium

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: single tube clamp

Construction type addition: inside of clamp with ribs

Series: light

Standard: DIN 3015-1

Temp. max.: 300 °C

Temp. min.: -40 °C

Material: aluminium

Order information:
1 piece = 2 clamp halves

www ...SRS1-6AL

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.4	1/4"	1	30	20	27	34	0.6	**SRS0106.4AL**
6.0	-	1	30	20	27	34	0.6	**SRS0106AL**
8.0	5/16"	1	30	20	27	34	0.6	**SRS0108AL**
9.5	3/8"	1	30	20	27	34	0.6	**SRS0109.5AL**
10.2	1/8"	1	30	20	27	34	0.6	**SRS0110.2AL**
10.0	-	1	30	20	27	34	0.6	**SRS0110AL**
12.0	-	1	30	20	27	34	0.6	**SRS0112AL**
12.7	1/2"	2	30	26	33	40	0.8	**SRS0212.7AL**
13.5	-	2	30	26	33	40	0.8	**SRS0213.5AL**
14.0	-	2	30	26	33	40	0.8	**SRS0214AL**
15.0	-	2	30	26	33	40	0.8	**SRS0215AL**
16.0	5/8"	2	30	26	33	40	0.8	**SRS0216AL**
17.2	-	2	30	26	33	40	0.8	**SRS0217.2AL**
18.0	-	2	30	26	33	40	0.8	**SRS0218AL**
19.0	3/4"	3	30	33	35	48	1.0	**SRS0319AL**
20.0	-	3	30	33	35	48	1.0	**SRS0320AL**
21.3	-	3	30	33	35	48	1.0	**SRS0321.3AL**
22.0	-	3	30	33	35	48	1.0	**SRS0322AL**
23.0	-	3	30	33	35	48	1.0	**SRS0323AL**
25.0	1"	3	30	33	35	48	1.0	**SRS0325AL**
26.9	-	4	30	40	42	57	1.2	**SRS0426.9AL**
28.0	-	4	30	40	42	57	1.2	**SRS0428AL**
30.0	-	4	30	40	42	57	1.2	**SRS0430AL**
32.0	1.1/4"	5	30	52	58	70	1.2	**SRS0532AL**
33.7	-	5	30	52	58	70	1.2	**SRS0533.7AL**
35.0	-	5	30	52	58	70	1.2	**SRS0535AL**
38.0	1.1/2"	5	30	52	58	70	1.2	**SRS0538AL**
40.0	-	5	30	52	58	70	1.2	**SRS0540AL**
42.0	-	5	30	52	58	70	1.2	**SRS0542AL**
44.5	1.3/4"	6	30	66	66	86	1.2	**SRS0644.5AL**
45.0	-	6	30	66	66	86	1.2	**SRS0645AL**
48.0	-	6	30	66	66	86	1.2	**SRS0648AL**
50.0	-	6	30	66	66	86	1.2	**SRS0650AL**
52.0	-	6	30	66	66	86	1.2	**SRS0652AL**
55.0	-	6	30	66	66	86	1.2	**SRS0655AL**
57.0	2.1/4"	6	30	66	66	86	1.2	**SRS0657AL**

Product variants:

Tube clamp, light series, polyamide 6, SRS 1-6 PA	Page 428
Tube clamp, light series, smooth inside, polyamide 6, SRS 1-6 PA G	Page 429
Tube clamp, light series, polypropylene, SRS 1-6 PP	Page 430
Tube clamp, light series, smooth inside, polypropylene, SRS 1-6 PP G	Page 431
Tube clamp, light series, solid rubber, SRS 1-6 VG	Page 433

Tube clamp, light series, solid rubber

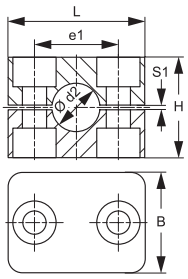
Construction type: single tube clamp
Construction type addition: inside of clamp, smooth
Series: light
Standard: DIN 3015-1
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: solid rubber 64 Shore / 73 shore

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves



Größe 1 - 6



www ...SRS1-6VG

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	B	e1	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.4	1/4"	1	30	20	27	34	0.6	SRS0106.4VG
6.0	-	1	30	20	27	34	0.6	SRS0106VG
8.0	5/16"	1	30	20	27	34	0.6	SRS0108VG
9.5	3/8"	1	30	20	27	34	0.6	SRS0109.5VG
10.0	-	1	30	20	27	34	0.6	SRS0110VG
12.0	-	1	30	20	27	34	0.6	SRS0112VG
12.7	1/2"	2	30	26	33	40	0.8	SRS0212.7VG
13.5	-	2	30	26	33	40	0.8	SRS0213.5VG
14.0	-	2	30	26	33	40	0.8	SRS0214VG
15.0	-	2	30	26	33	40	0.8	SRS0215VG
16.0	5/8"	2	30	26	33	40	0.8	SRS0216VG
17.2	-	2	30	26	33	40	0.8	SRS0217.2VG
18.0	-	2	30	26	33	40	0.8	SRS0218VG
19.0	3/4"	3	30	33	35	48	1.0	SRS0319VG
20.0	-	3	30	33	35	48	1.0	SRS0320VG
21.3	-	3	30	33	35	48	1.0	SRS0321.3VG
22.0	-	3	30	33	35	48	1.0	SRS0322VG
23.0	-	3	30	33	35	48	1.0	SRS0323VG
25.0	1"	3	30	33	35	48	1.0	SRS0325VG
26.9	-	4	30	40	42	57	1.2	SRS0426.9VG
28.0	-	4	30	40	42	57	1.2	SRS0428VG
30.0	-	4	30	40	42	57	1.2	SRS0430VG
32.0	1.1/4"	5	30	52	58	70	1.2	SRS0532VG
33.7	-	5	30	52	58	70	1.2	SRS0533.7VG
35.0	-	5	30	52	58	70	1.2	SRS0535VG
38.0	1.1/2"	5	30	52	58	70	1.2	SRS0538VG
40.0	-	5	30	52	58	70	1.2	SRS0540VG
42.0	-	5	30	52	58	70	1.2	SRS0542VG
44.5	1.3/4"	6	30	66	66	86	1.2	SRS0644.5VG
45.0	-	6	30	66	66	86	1.2	SRS0645VG
48.0	-	6	30	66	66	86	1.2	SRS0648VG
50.8	2"	6	30	66	66	86	1.2	SRS0650.8VG
50.0	-	6	30	66	66	86	1.2	SRS0650VG
52.0	-	6	30	66	66	86	1.2	SRS0652VG
55.0	-	6	30	66	66	86	1.2	SRS0655VG
57.0	2.1/4"	6	30	66	66	86	1.2	SRS0657VG

Product variants:

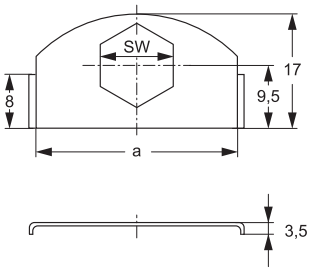
Tube clamp, light series, aluminium, SRS 1-6 AL	Page 432
Tube clamp, light series, polyamide 6, SRS 1-6 PA	Page 428
Tube clamp, light series, smooth inside, polyamide 6, SRS 1-6 PA G	Page 429
Tube clamp, light series, polypropylene, SRS 1-6 PP	Page 430
Tube clamp, light series, smooth inside, polypropylene, SRS 1-6 PP G	Page 431



Locking plate for single tube clamp, light series, steel

Item description: For all clamp sizes of the light series.
Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: electro galvanised
Material: steel

www ...SRSSIL



a	SW	Item no.
mm	mm	
30	11	SRSSIL

Additional element for following products:

Configuration of group A 0 composition, A 0 A	**...A0A**
Configuration of group A 1-6 composition, A 1-6 A	**...A1-6A**

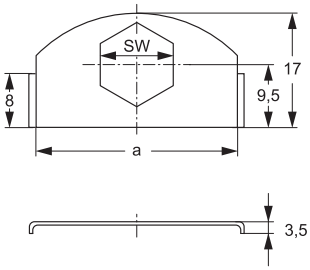
3



Locking plate for single tube clamp, light series, stainless steel

Item description: For all clamp sizes of the light series.
Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

www ...SRSSILVA



a	SW	Item no.
mm	mm	
30	11	SRSSILVA

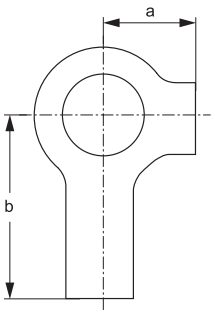
Locking washer for single tube clamp, light series, steel



Item description: For all clamp sizes from light series and the double tube clamp.
Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: electro galvanised
Material: steel

www ...SRSSIS

a	b	Item no.
mm	mm	
9	18	**SRSSIS**



Additional element for following products:	
Configuration of group A 0, A 0	**...A0**
Configuration of group A 1-6, A 1-6	**...A1-6**

3

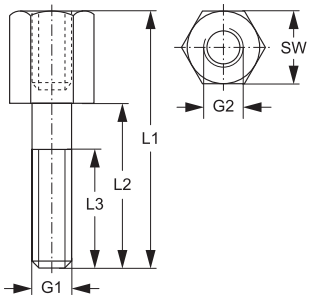
Stacking screw for single tube clamp, steel



Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Surface: electro galvanised
Material: steel

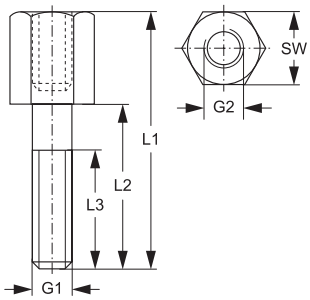
www ...SRS1-6AF

Clamp-size	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
0 to 1	M 6	M 6	34	20	18	11	**SRSAF1**
2	M 6	M 6	39	25	18	11	**SRSAF2**
3	M 6	M 6	44	28	18	11	**SRSAF3**
4	M 6	M 6	49	35	18	11	**SRSAF4**
5	M 6	M 6	64	50	18	11	**SRSAF5**
6	M 6	M 6	74	60	18	11	**SRSAF6**



Additional element for following products:	
Configuration of group A 1-6 composition, A 1-6 A	**...A1-6A**
Product variants:	
Stacking screw for single tube clamp, stainless steel, SRS 1-6 AF V4	Page 436





Stacking screw for single tube clamp, stainless steel

Construction type: for single tube clamps
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

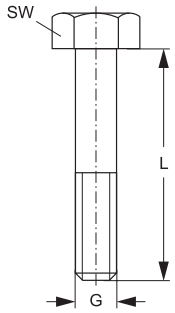
...SRS1-6AFV4

Clamp-size	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
0 to 1	M 6	M 6	34	20	18	11	SRSAF1V4
2	M 6	M 6	39	25	18	11	SRSAF2V4
3	M 6	M 6	44	30	18	11	SRSAF3V4
4	M 6	M 6	49	35	18	11	SRSAF4V4
5	M 6	M 6	64	50	18	11	SRSAF5V4
6	M 6	M 6	74	60	18	11	SRSAF6V4

Product variants:

Stacking screw for single tube clamp, steel, SRS 1-6 AF Page 435





Hexagon screw for single tube clamp, steel

Construction type: for single tube clamps
Series: light
Standard: DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Surface: electro galvanised
Material: steel

...SRS1-6AS

Clamp-size	G	L	SW	Item no.
		mm	mm	
0 to 1	M 6	30	10	SRSAS1
2	M 6	35	10	SRSAS2
3	M 6	40	10	SRSAS3
4	M 6	45	10	SRSAS4
5	M 6	60	10	SRSAS5
6	M 6	70	10	SRSAS6

Additional element for following products:

Configuration of group A 1-6, A 1-6 **...A1-6**

Product variants:

Hexagon screw for single tube clamp, stainless steel, SRS 1-6 AS V4 Page 437

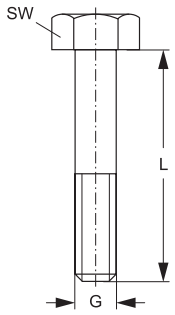
Hexagon screw for single tube clamp, stainless steel



Construction type: for single tube clamps
Series: light
Standard: DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Material: stainless steel 1.4571

www ...SRS1-6ASV4

Clamp-size	G	L	SW	Item no.
		mm	mm	
0 to 1	M 6	30	10	**SRSAS1V4**
2	M 6	35	10	**SRSAS2V4**
3	M 6	40	10	**SRSAS3V4**
4	M 6	45	10	**SRSAS4V4**
5	M 6	60	10	**SRSAS5V4**
6	M 6	70	10	**SRSAS6V4**



Product variants:

Hexagon screw for single tube clamp, steel, SRS 1-6 AS Page 436

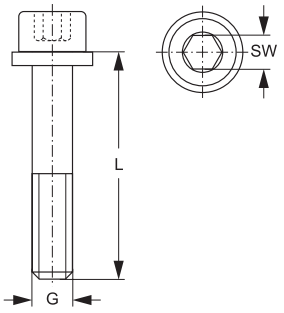
Hexagon socket screw, single tube clamp, light series, steel



Construction type: for single tube clamps
Series: light
Scope of supply: with plain washer
Standard: DIN 912 (ISO 4762)
Surface: electro galvanised
Material: steel

www ...SRS1-6IS

Clamp-size	G	L	SW	Item no.
		mm	mm	
0 to 1	M 6	20	5	**SRSIS1**
2	M 6	25	5	**SRSIS2**
3	M 6	30	5	**SRSIS3**
4	M 6	35	5	**SRSIS4**
5	M 6	50	5	**SRSIS5**
6	M 6	60	5	**SRSIS6**



Additional element for following products:

Configuration of group A 1-6, A 1-6 **...A1-6**

Product variants:

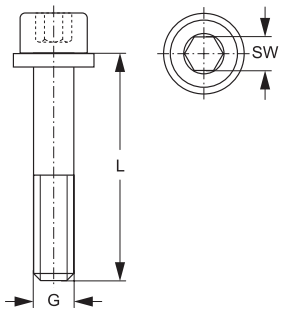
Hexagon socket screw, single tube clamp, light series, stainless steel, SRS 1-6 IS V4 Page 438



Hexagon socket screw, single tube clamp, light series, stainless steel

Construction type: for single tube clamps
Series: light
Scope of supply: with plain washer
Standard: DIN 912 (ISO 4762)
Material: stainless steel 1.4571

www ...SRS1-6ISV4



Clamp-size	G	L	SW	Item no.
		mm	mm	
0 to 1	M 6	20	5	**SRSIS1V4**
2	M 6	25	5	**SRSIS2V4**
3	M 6	30	5	**SRSIS3V4**
4	M 6	35	5	**SRSIS4V4**
5	M 6	50	5	**SRSIS5V4**
6	M 6	60	5	**SRSIS6V4**

Product variants:

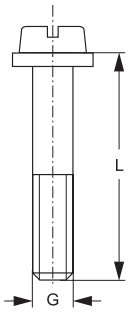
Hexagon socket screw, single tube clamp, light series, steel, SRS 1-6 IS Page 437



Slotted screw for single tube clamp, light series, steel

Construction type: for single tube clamps
Series: light
Scope of supply: with plain washer
Standard: DIN 84 (ISO 1207)
Surface: electro galvanised
Material: steel

www ...SRS1-6LI



Clamp-size	G	L	Item no.
		mm	
0 to 1	M 6	20	**SRSLI1**
2	M 6	25	**SRSLI2**
3	M 6	30	**SRSLI3**
4	M 6	35	**SRSLI4**
5	M 6	50	**SRSLI5**
6	M 6	60	**SRSLI6**

Additional element for following products:

Configuration of group A 1-6, A 1-6 **...A1-6**

Product variants:

Slotted screw for single tube clamp, light series, stainless steel, SRS 1-6 LI V4 Page 439

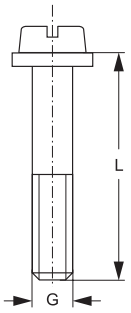
Slotted screw for single tube clamp, light series, stainless steel



Construction type: for single tube clamps
Series: light
Scope of supply: with plain washer
Standard: DIN 84 (ISO 1207)
Material: stainless steel 1.4571

www ...SRS1-6LIV4

Clamp-size	G	L	Item no.
		mm	
0 to 1	M 6	20	**SRSLI1V4**
2	M 6	25	**SRSLI2V4**
3	M 6	30	**SRSLI3V4**
4	M 6	35	**SRSLI4V4**
5	M 6	50	**SRSLI5V4**
6	M 6	60	**SRSLI6V4**



Product variants:

Slotted screw for single tube clamp, light series, steel, SRS 1-6 LI Page 438

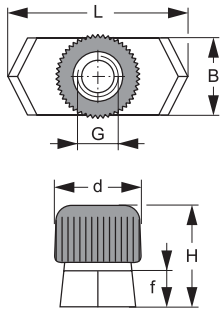
Mounting rail nut, light series, steel



Item description: For all clamp sizes from light series and clamp size 1 of the double tube clamp.
Construction type: for single and double tube clamps
Series: light
Standard: DIN 3015-1
Surface: electro galvanised
Material: steel and rubber

www ...SRSSM

Clamp-size	B	d	f	G	H	L	Item no.
	mm	mm	mm		mm	mm	
0 to 6	10.4	12	5	M 6	14.5	25.4	**SRSSM**



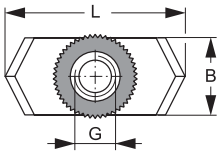
Additional element for following products:

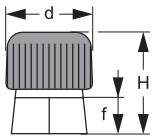
Configuration of group A 0, A 0	**...A0**
Configuration of group A 1-6, A 1-6	**...A1-6**

Product variants:

Mounting rail nut, light series, stainless steel, SRS SM V4 Page 440







Mounting rail nut, light series, stainless steel

Item description: For all clamp sizes from light series and clamp size 1 of the double tube clamp.
Construction type: for single and double tube clamps
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

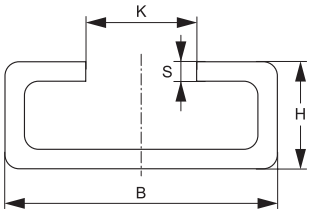
...SRSSMV4

Clamp-size	B	d	f	G	H	L	Item no.
	mm	mm	mm		mm	mm	
0 to 6	10.4	12	5	M 6	14.5	25.4	**SRSSMV4**

Product variants:

Mounting rail nut, light series, steel, SRS SM	Page 439





Mounting rail, single and double tube clamp, light series, steel

Item description: For all clamp sizes from light series and the double tube clamp.
Construction type: for single and double tube clamps
Series: light
Standard: DIN 3015-1
Material: steel (bright)

...SRSTS

Length	B	H	K	S	Item no.
m	mm	mm	mm	mm	
1.00	28	11	11.4	2	**SRSTS11-1**
2.00	28	11	11.4	2	**SRSTS11-2**
1.00	28	14	11.4	2	**SRSTS14-1**
2.00	28	14	11.4	2	**SRSTS14-2**
3.00	28	14	11.4	2	**SRSTS14-3**
1.00	28	30	11.4	2	**SRSTS30-1**
2.00	28	30	11.4	2	**SRSTS30-2**

Additional element for following products:

Configuration of group A 0, A 0	**...A0**
Configuration of group A 1-6, A 1-6	**...A1-6**
Configuration of group B, B	**...B**

Product variants:

Mounting rail, single and double tube clamp, light series, stainless steel, SRS TS V4	Page 441
Mounting rail, single and double tube clamp, light series, steel galvanised, SRS TS VZ	Page 441

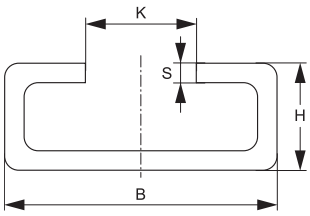
Mounting rail, single and double tube clamp, light series, stainless steel



Item description: For all clamp sizes from light series and the double tube clamp.
Construction type: for single and double tube clamps
Series: light
Standard: DIN 3015-1
Material: stainless steel 1.4571

www ...SRSTSV4

Length	B	H	K	S	Item no.
m	mm	mm	mm	mm	
1.00	28	11	11.4	2	**SRSTS11-1V4**
2.00	28	11	11.4	2	**SRSTS11-2V4**
1.00	28	14	11.4	2	**SRSTS14-1V4**
2.00	28	14	11.4	2	**SRSTS14-2V4**



Product variants:

Mounting rail, single and double tube clamp, light series, steel, SRS TS	Page 440
Mounting rail, single and double tube clamp, light series, steel galvanised, SRS TS VZ	Page 441

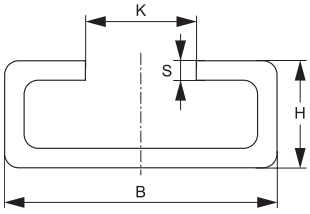
Mounting rail, single and double tube clamp, light series, steel galvanised



Item description: For all clamp sizes from light series and the double tube clamp.
Construction type: for single and double tube clamps
Series: light
Standard: DIN 3015-1
Surface: electro galvanised
Material: steel

www ...SRSTSVZ

Length	B	H	K	S	Item no.
m	mm	mm	mm	mm	
1.00	28	11	11.4	2	**SRSTS11-1VZ**
2.00	28	11	11.4	2	**SRSTS11-2VZ**
1.00	28	14	11.4	2	**SRSTS14-1VZ**
2.00	28	14	11.4	2	**SRSTS14-2VZ**
1.00	28	30	11.4	2	**SRSTS30-1VZ**
2.00	28	30	11.4	2	**SRSTS30-2VZ**



Product variants:

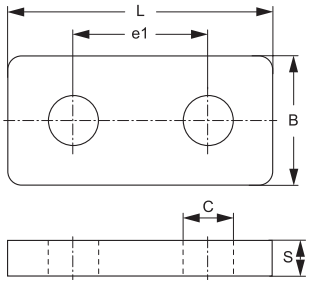
Mounting rail, single and double tube clamp, light series, steel, SRS TS	Page 440
Mounting rail, single tube clamp, heavy series, stainless steel, SRS TS 40 V4	Page 459

Cover plate for single tube clamp, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

...SRSDP30-100



Clamp-size	B	C	e1	L	S	Item no.
	mm	mm	mm	mm	mm	
1	30	11.0	33	55	8	SRSDP30
2	30	11.0	45	70	8	SRSDP40
3	30	11.0	60	85	8	SRSDP50
4	45	14.0	90	115	10	SRSDP60
5	60	18.0	122	152	10	SRSDP70
6	80	22.0	168	205	15	SRSDP80
7	90	28.0	205	250	15	SRSDP90
8	120	34.0	265	322	25	SRSDP100

Additional element for following products:

Configuration of group C, C ...C

Product variants:

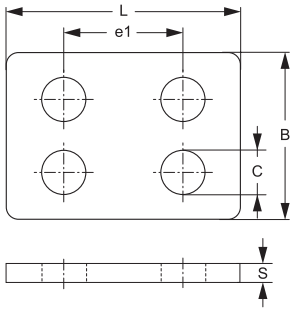
Cover plate for single tube clamp, heavy series, stainless steel, SRS DP 30-100 V4 Page 443

Double cover plate for single tube clamp, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

...SRSDPD30-100



Clamp-size	B	C	e1	L	S	Item no.
	mm	mm	mm	mm	mm	
1	60	11.0	33	55	8	SRSDPD30
2	60	11.0	45	70	8	SRSDPD40
3	60	11.0	60	85	8	SRSDPD50
4	90	14.0	90	115	10	SRSDPD60
5	120	18.0	122	152	10	SRSDPD70
6	160	24.0	168	205	15	SRSDPD80
7	180	28.0	205	250	15	SRSDPD90
8	240	34.0	265	322	25	SRSDPD100

Additional element for following products:

Configuration of group C double, C D ...CD

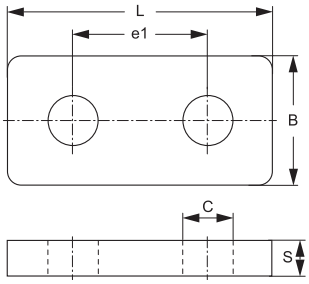
Cover plate for single tube clamp, heavy series, stainless steel

Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: stainless steel 1.4571



www ...SRSDP30-100V4

Clamp-size	B	C	e1	L	S	Item no.
	mm	mm	mm	mm	mm	
1	30	11.0	33	55	8	**SRSDP30V4**
2	30	11.0	45	70	8	**SRSDP40V4**
3	30	11.0	60	85	8	**SRSDP50V4**
4	45	14.0	90	115	10	**SRSDP60V4**
5	60	18.0	122	152	10	**SRSDP70V4**
6	80	22.0	168	205	15	**SRSDP80V4**



Product variants:

Cover plate for single tube clamp, heavy series, steel, SRS DP 30-100	Page 442

3

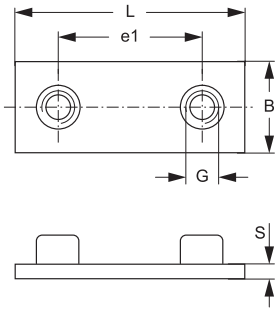
Welded on base plate for single tube clamp, heavy series, steel

Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: phosphate treated
Material: steel



www ...SRSSP30-100

Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
1	30	33	M 10	73	8	**SRSSP30**
2	30	45	M 10	84	8	**SRSSP40**
3	30	60	M 10	100	8	**SRSSP50**
4	45	90	M 12	140	10	**SRSSP60**
5	60	122	M 16	180	10	**SRSSP70**
6	80	168	M 20	225	15	**SRSSP80**
7	90	205	M 24	270	15	**SRSSP90**
8	120	265	M 30	340	25	**SRSSP100**



Additional element for following products:

Configuration of group C, C	**...C**

Product variants:

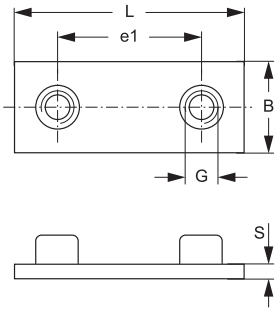
Welded on base plate for single tube clamp, heavy series, stainless steel, SRS SP 30-100 V4	Page 444
Welded on base plate for single tube clamp, SRS SP 30-100 VZ	**...SRSSP30-100VZ**

Welded on base plate for single tube clamp, heavy series, stainless steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: stainless steel 1.4571

www ...SRSSP30-100V4



Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
1	30	33	M 10	73	8	**SRSSP30V4**
2	30	45	M 10	84	8	**SRSSP40V4**
3	30	60	M 10	100	8	**SRSSP50V4**
4	45	90	M 12	140	10	**SRSSP60V4**
5	60	122	M 16	180	10	**SRSSP70V4**
6	80	168	M 20	225	15	**SRSSP80V4**

Product variants:

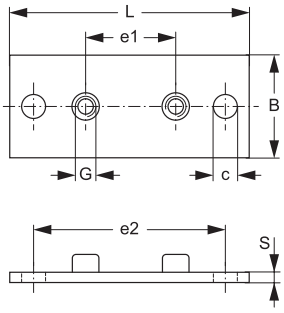
Welded on base plate for single tube clamp, heavy series, steel, SRS SP 30-100	Page 443
Welded on base plate for single tube clamp, SRS SP 30-100 VZ	**...SRSSP30-100VZ**

Welded on and screw-on base plate, long, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: phosphate treated
Material: steel

www ...SRSSPL30-100



Clamp-size	B	c	e1	e2	G	L	S	Item no.
	mm	mm	mm	mm		mm	mm	
1	30	11	33	85	M 10	113	8	**SRSSPL30**
2	30	11	45	97	M 10	125	8	**SRSSPL40**
3	30	11	60	112	M 10	140	8	**SRSSPL50**
4	45	14	90	160	M 12	190	10	**SRSSPL60**
5	60	18	122	205	M 16	240	10	**SRSSPL70**
6	80	22	168	270	M 20	310	15	**SRSSPL80**
7	90	26	205	320	M 24	370	15	**SRSSPL90**
8	120	33	265	390	M 30	450	25	**SRSSPL100**

Additional element for following products:

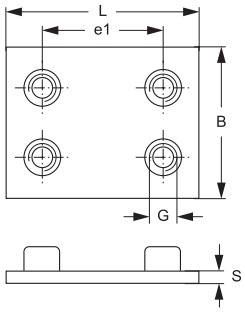
Configuration of group C, C	**...C**

Double welded on base plate, single tube clamp, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: phosphate treated
Material: steel

www ...SRSDSP30-100



Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
1	60	33	M 10	73	8	SRSDSP30
2	60	45	M 10	84	8	SRSDSP40
3	60	60	M 10	100	8	SRSDSP50
4	90	90	M 12	140	10	SRSDSP60
5	120	122	M 16	180	10	SRSDSP70
6	160	168	M 20	225	15	SRSDSP80
7	180	205	M 24	270	15	SRSDSP90
8	240	265	M 30	340	25	SRSDSP100

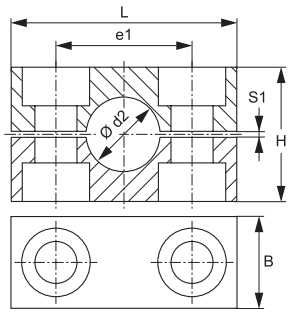
Additional element for following products:	
Configuration of group C, C	...C
Configuration of group C double, C D	...CD

Tube clamp, heavy series, aluminium

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.
Construction type: single tube clamp
Construction type addition: inside of clamp with ribs
Series: heavy
Standard: DIN 3015-2
Temp. max.: 300 °C
Temp. min.: -40 °C
Material: aluminium

Order information:
1 piece = 2 clamp halves





www ...SRS30-100AL

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0	-	30	33	32	56	2	SRS3006AL
1	8.0	5/16"	30	33	32	56	2	SRS3008AL
1	10.0	-	30	33	32	56	2	SRS3010AL
1	12.7	1/2"	30	33	32	56	2	SRS3012.7AL
1	12.0	-	30	33	32	56	2	SRS3012AL
1	13.5	-	30	33	32	56	2	SRS3013.5AL
1	14.0	-	30	33	32	56	2	SRS3014AL
1	15.0	-	30	33	32	56	2	SRS3015AL
1	16.0	5/8"	30	33	32	56	2	SRS3016AL
1	17.2	-	30	33	32	56	2	SRS3017.2AL
1	18.0	-	30	33	32	56	2	SRS3018AL
2	19.0	3/4"	30	45	48	71	2	SRS4019AL
2	20.0	-	30	45	48	71	2	SRS4020AL
2	21.3	-	30	45	48	71	2	SRS4021.3AL
2	22.0	-	30	45	48	71	2	SRS4022AL

→



Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
2	23.0	-	30	45	48	71	2	**SRS4023AL**
2	25.0	1"	30	45	48	71	2	**SRS4025AL**
2	26.9	-	30	45	48	71	2	**SRS4026.9AL**
2	28.0	-	30	45	48	71	2	**SRS4028AL**
2	30.0	-	30	45	48	71	2	**SRS4030AL**
3	30.0	-	30	60	60	86	2	**SRS5030AL**
3	32.0	1.1/4"	30	60	60	86	2	**SRS5032AL**
3	33.7	-	30	60	60	86	2	**SRS5033.7AL**
3	35.0	-	30	60	60	86	2	**SRS5035AL**
3	38.0	1.1/2"	30	60	60	86	2	**SRS5038AL**
3	40.0	-	30	60	60	86	2	**SRS5040AL**
3	42.0	-	30	60	60	86	2	**SRS5042AL**
4	38.0	1.1/2"	45	90	90	117	3	**SRS6038AL**
4	40.0	-	45	90	90	117	3	**SRS6040AL**
4	42.0	-	45	90	90	117	3	**SRS6042AL**
4	45.0	-	45	90	90	117	3	**SRS6045AL**
4	48.3	-	45	90	90	117	3	**SRS6048.3AL**
4	50.0	-	45	90	90	117	3	**SRS6050AL**
4	51.0	2"	45	90	90	117	3	**SRS6051AL**
4	52.0	-	45	90	90	117	3	**SRS6052AL**
4	55.0	-	45	90	90	117	3	**SRS6055AL**
4	57.0	2.1/4"	45	90	90	117	3	**SRS6057AL**
4	60.3	-	45	90	90	117	3	**SRS6060.3AL**
4	63.0	2.1/2"	45	90	90	117	3	**SRS6063AL**
4	65.0	-	45	90	90	117	3	**SRS6065AL**
4	70.0	-	45	90	90	117	3	**SRS6070AL**
5	70.0	-	60	122	120	154	5	**SRS7070AL**
5	73.0	-	60	122	120	154	5	**SRS7073AL**
5	75.0	-	60	122	120	154	5	**SRS7075AL**
5	76.1	3"	60	122	120	154	5	**SRS7076.1AL**
5	80.0	-	60	122	120	154	5	**SRS7080AL**
5	82.5	3.1/4"	60	122	120	154	5	**SRS7082.5AL**
5	88.9	3.1/2"	60	122	120	154	5	**SRS7088.9AL**
5	90.0	-	60	122	120	154	5	**SRS7090AL**
6	90.0	-	80	168	170	205	6	**SRS8090AL**
6	100.0	-	80	168	170	205	6	**SRS8100AL**
6	101.6	4"	80	168	170	205	6	**SRS8101.6AL**
6	108.0	4.1/4"	80	168	170	205	6	**SRS8108AL**
6	114.3	4.1/2"	80	168	170	205	6	**SRS8114.3AL**

Product variants:

Tube clamp, heavy series, polyamide 6, SRS 30-100 PA	Page 447
Tube clamp, heavy series, polypropylene, SRS 30-100 PP	Page 448
Tube clamp, heavy series, smooth inside, polypropylene, SRS 30-100 PP G	Page 450
Tube clamp, heavy series, solid rubber, SRS 30-100 VG	Page 451

Tube clamp, heavy series, polyamide 6

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: single tube clamp

Construction type addition: inside of clamp with ribs

Series: heavy

Standard: DIN 3015-2

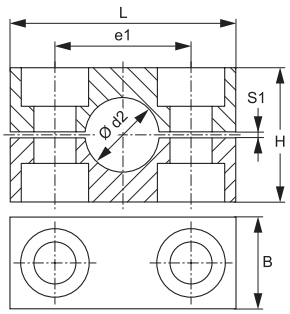
Temp. max.: 120 °C

Temp. min.: -40 °C

Material: polyamide 6

Order information:
1 piece = 2 clamp halves





www ...SRS30-100PA

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0	-	30	33	32	56	2	SRS3006PA
1	8.0	5/16"	30	33	32	56	2	SRS3008PA
1	10.0	-	30	33	32	56	2	SRS3010PA
1	12.7	1/2"	30	33	32	56	2	SRS3012.7PA
1	12.0	-	30	33	32	56	2	SRS3012PA
1	13.5	-	30	33	32	56	2	SRS3013.5PA
1	14.0	-	30	33	32	56	2	SRS3014PA
1	15.0	-	30	33	32	56	2	SRS3015PA
1	16.0	5/8"	30	33	32	56	2	SRS3016PA
1	17.2	-	30	33	32	56	2	SRS3017.2PA
1	18.0	-	30	33	32	56	2	SRS3018PA
2	19.0	3/4"	30	45	48	71	2	SRS4019PA
2	20.0	-	30	45	48	71	2	SRS4020PA
2	21.3	-	30	45	48	71	2	SRS4021.3PA
2	22.0	-	30	45	48	71	2	SRS4022PA
2	23.0	-	30	45	48	71	2	SRS4023PA
2	25.0	1"	30	45	48	71	2	SRS4025PA
2	26.9	-	30	45	48	71	2	SRS4026.9PA
2	28.0	-	30	45	48	71	2	SRS4028PA
2	30.0	-	30	45	48	71	2	SRS4030PA
3	30.0	-	30	60	60	86	2	SRS5030PA
3	32.0	1.1/4"	30	60	60	86	2	SRS5032PA
3	33.7	-	30	60	60	86	2	SRS5033.7PA
3	35.0	-	30	60	60	86	2	SRS5035PA
3	38.0	1.1/2"	30	60	60	86	2	SRS5038PA
3	40.0	-	30	60	60	86	2	SRS5040PA
3	42.0	-	30	60	60	86	2	SRS5042PA
4	38.0	1.1/2"	45	90	90	117	3	SRS6038PA
4	40.0	-	45	90	90	117	3	SRS6040PA
4	42.0	-	45	90	90	117	3	SRS6042PA
4	45.0	-	45	90	90	117	3	SRS6045PA
4	48.3	-	45	90	90	117	3	SRS6048.3PA
4	50.0	-	45	90	90	117	3	SRS6050PA
4	51.0	2"	45	90	90	117	3	SRS6051PA
4	52.0	-	45	90	90	117	3	SRS6052PA
4	55.0	-	45	90	90	117	3	SRS6055PA
4	57.0	2.1/4"	45	90	90	117	3	SRS6057PA
4	60.3	-	45	90	90	117	3	SRS6060.3PA
4	63.0	2.1/2"	45	90	90	117	3	SRS6063PA
4	65.0	-	45	90	90	117	3	SRS6065PA
4	70.0	-	45	90	90	117	3	SRS6070PA
5	70.0	-	60	122	120	154	5	SRS7070PA
5	73.0	-	60	122	120	154	5	SRS7073PA
5	75.0	-	60	122	120	154	5	SRS7075PA
5	76.1	3"	60	122	120	154	5	SRS7076.1PA

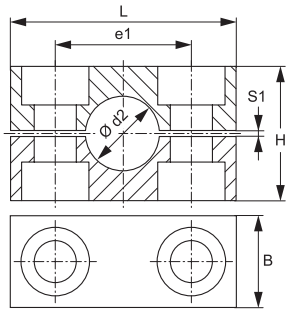
3

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
5	80.0	-	60	122	120	154	5	**SRS7080PA**
5	82.5	3.1/4"	60	122	120	154	5	**SRS7082.5PA**
5	88.9	3.1/2"	60	122	120	154	5	**SRS7088.9PA**
5	90.0	-	60	122	120	154	5	**SRS7090PA**
6	90.0	-	80	168	170	205	6	**SRS8090PA**
6	97.0	-	80	168	170	205	6	**SRS8097PA**
6	100.0	-	80	168	170	205	6	**SRS8100PA**
6	101.6	4"	80	168	170	205	6	**SRS8101.6PA**
6	108.0	4.1/4"	80	168	170	205	6	**SRS8108PA**
6	114.3	4.1/2"	80	168	170	205	6	**SRS8114.3PA**
6	127.0	5"	80	168	170	205	6	**SRS8127PA**
7	127.0	5"	90	205	200	250	6	**SRS9127PA**
7	133.0	5.1/4"	90	205	200	250	6	**SRS9133PA**
7	140.0	5.1/2"	90	205	200	250	6	**SRS9140PA**
7	150.0	-	90	205	200	250	6	**SRS9150PA**
7	152.4	6"	90	205	200	250	6	**SRS9152.4PA**
7	159.0	6.1/4"	90	205	200	250	6	**SRS9159PA**
7	165.1	6.1/2"	90	205	200	250	6	**SRS9165.1PA**
7	168.3	6.5/8"	90	205	200	250	6	**SRS9168.3PA**
8	168.3	6.5/8"	120	265	270	320	6	**SRS10168.3PA**
8	177.8	7"	120	265	270	320	6	**SRS10177.8PA**
8	193.7	7.5/8"	120	265	270	320	6	**SRS10193.7PA**
8	203.0	-	120	265	270	320	6	**SRS10203PA**
8	219.1	8.5/8"	120	265	270	320	6	**SRS10219.1PA**
8	220.0	-	120	265	270	320	6	**SRS10220PA**

Product variants:

Tube clamp, heavy series, aluminium, SRS 30-100 AL	Page 445
Tube clamp, heavy series, polypropylene, SRS 30-100 PP	Page 448
Tube clamp, heavy series, smooth inside, polypropylene, SRS 30-100 PP G	Page 450
Tube clamp, heavy series, solid rubber, SRS 30-100 VG	Page 451





Tube clamp, heavy series, polypropylene

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: single tube clamp

Construction type addition: inside of clamp with ribs

Series: heavy

Standard: DIN 3015-2

Temp. max.: 90 °C

Temp. min.: -30 °C

Material: polypropylene (PP)

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

www ...SRS30-100PP

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0	-	30	33	32	56	2	**SRS3006PP**
1	8.0	5/16"	30	33	32	56	2	**SRS3008PP**
1	10.0	-	30	33	32	56	2	**SRS3010PP**
1	12.7	1/2"	30	33	32	56	2	**SRS3012.7PP**
1	12.0	-	30	33	32	56	2	**SRS3012PP**

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
1	13.5	-	30	33	32	56	2	**SRS3013.5PP**
1	14.0	-	30	33	32	56	2	**SRS3014PP**
1	15.0	-	30	33	32	56	2	**SRS3015PP**
1	16.0	5/8"	30	33	32	56	2	**SRS3016PP**
1	17.2	-	30	33	32	56	2	**SRS3017.2PP**
1	18.0	-	30	33	32	56	2	**SRS3018PP**
2	19.0	3/4"	30	45	48	71	2	**SRS4019PP**
2	20.0	-	30	45	48	71	2	**SRS4020PP**
2	21.3	-	30	45	48	71	2	**SRS4021.3PP**
2	22.0	-	30	45	48	71	2	**SRS4022PP**
2	23.0	-	30	45	48	71	2	**SRS4023PP**
2	25.0	1"	30	45	48	71	2	**SRS4025PP**
2	26.9	-	30	45	48	71	2	**SRS4026.9PP**
2	28.0	-	30	45	48	71	2	**SRS4028PP**
2	30.0	-	30	45	48	71	2	**SRS4030PP**
3	30.0	-	30	60	60	86	2	**SRS5030PP**
3	32.0	1.1/4"	30	60	60	86	2	**SRS5032PP**
3	33.7	-	30	60	60	86	2	**SRS5033.7PP**
3	35.0	-	30	60	60	86	2	**SRS5035PP**
3	38.0	1.1/2"	30	60	60	86	2	**SRS5038PP**
3	40.0	-	30	60	60	86	2	**SRS5040PP**
3	42.0	-	30	60	60	86	2	**SRS5042PP**
4	38.0	1.1/2"	45	90	90	117	3	**SRS6038PP**
4	40.0	-	45	90	90	117	3	**SRS6040PP**
4	42.0	-	45	90	90	117	3	**SRS6042PP**
4	45.0	-	45	90	90	117	3	**SRS6045PP**
4	48.3	-	45	90	90	117	3	**SRS6048.3PP**
4	50.0	-	45	90	90	117	3	**SRS6050PP**
4	51.0	2"	45	90	90	117	3	**SRS6051PP**
4	52.0	-	45	90	90	117	3	**SRS6052PP**
4	55.0	-	45	90	90	117	3	**SRS6055PP**
4	57.0	2.1/4"	45	90	90	117	3	**SRS6057PP**
4	60.3	-	45	90	90	117	3	**SRS6060.3PP**
4	63.0	2.1/2"	45	90	90	117	3	**SRS6063PP**
4	65.0	-	45	90	90	117	3	**SRS6065PP**
4	70.0	-	45	90	90	117	3	**SRS6070PP**
5	70.0	-	60	122	120	154	5	**SRS7070PP**
5	73.0	-	60	122	120	154	5	**SRS7073PP**
5	75.0	-	60	122	120	154	5	**SRS7075PP**
5	76.1	3"	60	122	120	154	5	**SRS7076.1PP**
5	80.0	-	60	122	120	154	5	**SRS7080PP**
5	82.5	3.1/4"	60	122	120	154	5	**SRS7082.5PP**
5	88.9	3.1/2"	60	122	120	154	5	**SRS7088.9PP**
5	90.0	-	60	122	120	154	5	**SRS7090PP**
6	90.0	-	80	168	170	205	6	**SRS8090PP**
6	97.0	-	80	168	170	205	6	**SRS8097PP**
6	100.0	-	80	168	170	205	6	**SRS8100PP**
6	101.6	4"	80	168	170	205	6	**SRS8101.6PP**
6	108.0	4.1/4"	80	168	170	205	6	**SRS8108PP**
6	114.3	4.1/2"	80	168	170	205	6	**SRS8114.3PP**
6	127.0	5"	80	168	170	205	6	**SRS8127PP**
7	127.0	5"	90	205	200	250	6	**SRS9127PP**
7	133.0	5.1/4"	90	205	200	250	6	**SRS9133PP**
7	140.0	5.1/2"	90	205	200	250	6	**SRS9140PP**
7	150.0	-	90	205	200	250	6	**SRS9150PP**
7	152.4	6"	90	205	200	250	6	**SRS9152.4PP**
7	159.0	6.1/4"	90	205	200	250	6	**SRS9159PP**
7	165.1	6.1/2"	90	205	200	250	6	**SRS9165.1PP**
7	168.3	6.5/8"	90	205	200	250	6	**SRS9168.3PP**
8	168.3	6.5/8"	120	265	270	320	6	**SRS10168.3PP**

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
8	177.8	7"	120	265	270	320	6	**SRS10177.8PP**
8	193.7	7.5/8"	120	265	270	320	6	**SRS10193.7PP**
8	203.0	-	120	265	270	320	6	**SRS10203PP**
8	219.1	8.5/8"	120	265	270	320	6	**SRS10219.1PP**
8	220.0	-	120	265	270	320	6	**SRS10220PP**

Additional element for following products:

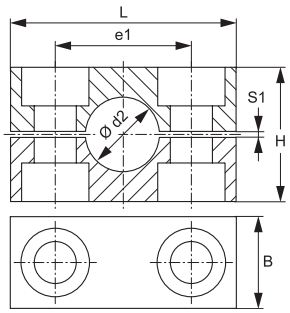
Configuration of group C, C	**...C**
Configuration of group C composition, C A	**...CA**
Configuration of group C double, C D	**...CD**

Product variants:

Tube clamp, heavy series, aluminium, SRS 30-100 AL	Page 445
Tube clamp, heavy series, polyamide 6, SRS 30-100 PA	Page 447
Tube clamp, heavy series, smooth inside, polypropylene, SRS 30-100 PP G	Page 450
Tube clamp, heavy series, solid rubber, SRS 30-100 VG	Page 451

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Tube clamp, heavy series, smooth inside, polypropylene

Construction type: single tube clamp
Construction type addition: inside of clamp, smooth
Series: heavy
Standard: DIN 3015-2
Temp. max.: 90 °C
Temp. min.: -30 °C
Material: polypropylene (PP)

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

www ...SRS30-100PPG

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0	-	30	33	32	56	2	**SRS3006PPG**
1	8.0	5/16"	30	33	32	56	2	**SRS3008PPG**
1	10.0	-	30	33	32	56	2	**SRS3010PPG**
1	12.7	1/2"	30	33	32	56	2	**SRS3012.7PPG**
1	12.0	-	30	33	32	56	2	**SRS3012PPG**
1	13.5	-	30	33	32	56	2	**SRS3013.5PPG**
1	14.0	-	30	33	32	56	2	**SRS3014PPG**
1	15.0	-	30	33	32	56	2	**SRS3015PPG**
1	16.0	5/8"	30	33	32	56	2	**SRS3016PPG**
1	17.2	-	30	33	32	56	2	**SRS3017.2PPG**
1	18.0	-	30	33	32	56	2	**SRS3018PPG**
2	19.0	3/4"	30	45	48	71	2	**SRS4019PPG**
2	20.0	-	30	45	48	71	2	**SRS4020PPG**
2	21.3	-	30	45	48	71	2	**SRS4021.3PPG**
2	22.0	-	30	45	48	71	2	**SRS4022PPG**
2	23.0	-	30	45	48	71	2	**SRS4023PPG**
2	25.0	1"	30	45	48	71	2	**SRS4025PPG**
2	26.9	-	30	45	48	71	2	**SRS4026.9PPG**
2	28.0	-	30	45	48	71	2	**SRS4028PPG**
2	30.0	-	30	45	48	71	2	**SRS4030PPG**
3	30.0	-	30	60	60	86	2	**SRS5030PPG**
3	32.0	1.1/4"	30	60	60	86	2	**SRS5032PPG**

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
3	33.7	-	30	60	60	86	2	**SRS5033.7PPG**
3	35.0	-	30	60	60	86	2	**SRS5035PPG**
3	38.0	1.1/2"	30	60	60	86	2	**SRS5038PPG**
3	40.0	-	30	60	60	86	2	**SRS5040PPG**
3	42.0	-	30	60	60	86	2	**SRS5042PPG**
4	38.0	1.1/2"	45	90	90	117	3	**SRS6038PPG**
4	40.0	-	45	90	90	117	3	**SRS6040PPG**
4	42.0	-	45	90	90	117	3	**SRS6042PPG**
4	45.0	-	45	90	90	117	3	**SRS6045PPG**
4	48.3	-	45	90	90	117	3	**SRS6048.3PPG**
4	50.0	-	45	90	90	117	3	**SRS6050PPG**
4	51.0	2"	45	90	90	117	3	**SRS6051PPG**
4	52.0	-	45	90	90	117	3	**SRS6052PPG**
4	55.0	-	45	90	90	117	3	**SRS6055PPG**
4	57.0	2.1/4"	45	90	90	117	3	**SRS6057PPG**
4	60.3	-	45	90	90	117	3	**SRS6060.3PPG**
4	63.0	2.1/2"	45	90	90	117	3	**SRS6063PPG**
4	65.0	-	45	90	90	117	3	**SRS6065PPG**
4	70.0	-	45	90	90	117	3	**SRS6070PPG**

Product variants:

Tube clamp, heavy series, aluminium, SRS 30-100 AL	Page 445
Tube clamp, heavy series, polyamide 6, SRS 30-100 PA	Page 447
Tube clamp, heavy series, polypropylene, SRS 30-100 PP	Page 448
Tube clamp, heavy series, solid rubber, SRS 30-100 VG	Page 451

Tube clamp, heavy series, solid rubber

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: single tube clamp

Construction type addition: inside of clamp with ribs

Series: heavy

Standard: DIN 3015-2

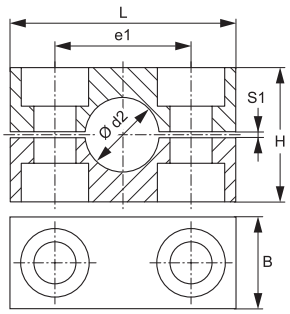
Temp. max.: 120 °C

Temp. min.: -40 °C

Material: solid rubber 64 Shore / 73 shore

Order information:
1 piece = 2 clamp halves





www ...SRS30-100VG

Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
1	6.0	-	30	33	32	56	2	**SRS3006VG**
1	8.0	5/16"	30	33	32	56	2	**SRS3008VG**
1	10.0	-	30	33	32	56	2	**SRS3010VG**
1	12.7	1/2"	30	33	32	56	2	**SRS3012.7VG**
1	12.0	-	30	33	32	56	2	**SRS3012VG**
1	13.5	-	30	33	32	56	2	**SRS3013.5VG**
1	14.0	-	30	33	32	56	2	**SRS3014VG**
1	15.0	-	30	33	32	56	2	**SRS3015VG**
1	16.0	5/8"	30	33	32	56	2	**SRS3016VG**
1	17.2	-	30	33	32	56	2	**SRS3017.2VG**
1	18.0	-	30	33	32	56	2	**SRS3018VG**



Clamp-size	Tube outer Ø d2	Tube outer Ø d2 (inches)	B	e1	H	L	S1	Item no.
	mm		mm	mm	mm	mm	mm	
2	19.0	3/4"	30	45	48	71	2	**SRS4019VG**
2	20.0	-	30	45	48	71	2	**SRS4020VG**
2	21.3	-	30	45	48	71	2	**SRS4021.3VG**
2	22.0	-	30	45	48	71	2	**SRS4022VG**
2	23.0	-	30	45	48	71	2	**SRS4023VG**
2	25.0	1"	30	45	48	71	2	**SRS4025VG**
2	26.9	-	30	45	48	71	2	**SRS4026.9VG**
2	28.0	-	30	45	48	71	2	**SRS4028VG**
2	30.0	-	30	45	48	71	2	**SRS4030VG**
3	30.0	-	30	60	60	86	2	**SRS5030VG**
3	32.0	1.1/4"	30	60	60	86	2	**SRS5032VG**
3	33.7	-	30	60	60	86	2	**SRS5033.7VG**
3	35.0	-	30	60	60	86	2	**SRS5035VG**
3	38.0	1.1/2"	30	60	60	86	2	**SRS5038VG**
3	40.0	-	30	60	60	86	2	**SRS5040VG**
3	42.0	-	30	60	60	86	2	**SRS5042VG**
4	38.0	1.1/2"	45	90	90	117	3	**SRS6038VG**
4	40.0	-	45	90	90	117	3	**SRS6040VG**
4	42.0	-	45	90	90	117	3	**SRS6042VG**
4	45.0	-	45	90	90	117	3	**SRS6045VG**
4	48.3	-	45	90	90	117	3	**SRS6048.3VG**
4	50.0	-	45	90	90	117	3	**SRS6050VG**
4	51.0	2"	45	90	90	117	3	**SRS6051VG**
4	52.0	-	45	90	90	117	3	**SRS6052VG**
4	55.0	-	45	90	90	117	3	**SRS6055VG**
4	57.0	2.1/4"	45	90	90	117	3	**SRS6057VG**
4	60.3	-	45	90	90	117	3	**SRS6060.3VG**
4	63.0	2.1/2"	45	90	90	117	3	**SRS6063VG**
4	65.0	-	45	90	90	117	3	**SRS6065VG**
4	70.0	-	45	90	90	117	3	**SRS6070VG**

Product variants:

Tube clamp, heavy series, aluminium, SRS 30-100 AL	Page 445
Tube clamp, heavy series, polyamide 6, SRS 30-100 PA	Page 447
Tube clamp, heavy series, polypropylene, SRS 30-100 PP	Page 448
Tube clamp, heavy series, smooth inside, polypropylene, SRS 30-100 PP G	Page 450

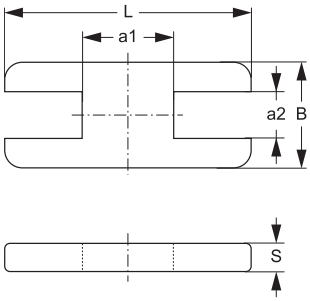
Locking plate for single tube clamp, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

...SRSSIP

Clamp-size	a1	a2	B	L	S	Item no.
	mm	mm	mm	mm	mm	
1	14.0	15.5	30	55	8	**SRSSIP30**
2	26.0	15.5	30	70	8	**SRSSIP40**
3	41.0	15.5	30	85	8	**SRSSIP50**
4	69.0	17.5	45	115	10	**SRSSIP60**
5	97.0	21.5	60	152	10	**SRSSIP70**
6	137.0	27.5	80	205	15	**SRSSIP80**
7	169.0	30.5	90	250	15	**SRSSIP90**
8	219.0	36.5	120	320	25	**SRSSIP100**



Additional element for following products:

Configuration of group C composition, C A	**...CA**

Product variants:

Locking plate for single tube clamp, heavy series, stainless steel, SRS SIP V4 Page 453

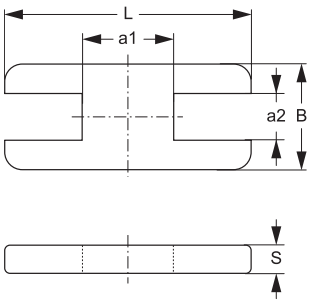
Locking plate for single tube clamp, heavy series, stainless steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: stainless steel 1.4571

...SRSSIPV4

Clamp-size	a1	a2	B	L	S	Item no.
	mm	mm	mm	mm	mm	
1	14.0	15.5	30	55	8	**SRSSIP30V4**
2	26.0	15.5	30	70	8	**SRSSIP40V4**
3	41.0	15.5	30	85	8	**SRSSIP50V4**
4	69.0	17.5	45	115	10	**SRSSIP60V4**



Product variants:

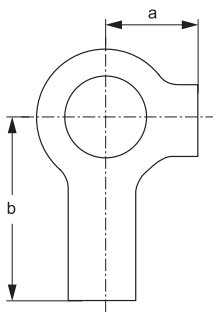
Locking plate for single tube clamp, heavy series, steel, SRS SIP Page 453



Locking washer for single tube clamp, heavy series, steel

Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

www ...SRSSIS30-100



Clamp-size	a	b	Item no.
	mm	mm	
1 to 3	13	22	**SRSSIS30**
4	15	28	**SRSSIS60**
5	18	32	**SRSSIS70**
6	21	36	**SRSSIS80**

Additional element for following products:

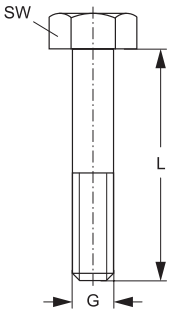
Configuration of group C, C	**...C**
Configuration of group C double, C D	**...CD**



Hexagon screw for single tube clamp, heavy series, steel

Construction type: for single tube clamps
Series: heavy
Standard: DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Surface: electro galvanised
Material: steel

www ...SRSAS30-100



Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 10	40	17	**SRSAS30**
2	M 10	60	17	**SRSAS40**
3	M 10	70	17	**SRSAS50**
4	M 12	100	19	**SRSAS60**
5	M 16	130	24	**SRSAS70**
6	M 20	190	30	**SRSAS80**
7	M 24	220	36	**SRSAS90**
8	M 30	300	46	**SRSAS100**

Additional element for following products:

Configuration of group C, C	**...C**
Configuration of group C double, C D	**...CD**

Product variants:

Hexagon screw for single tube clamp, heavy series, stainless steel, SRS AS 30-100 V4	Page 455

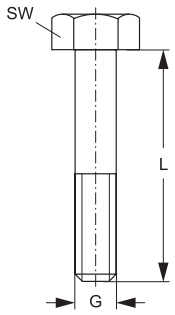
Hexagon screw for single tube clamp, heavy series, stainless steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Material: stainless steel 1.4571

www ...SRSAS30-100V4

Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 10	40	17	**SRSAS30V4**
2	M 10	60	17	**SRSAS40V4**
3	M 10	70	17	**SRSAS50V4**
4	M 12	100	19	**SRSAS60V4**
5	M 16	130	24	**SRSAS70V4**
6	M 20	190	30	**SRSAS80V4**



Product variants:

Hexagon screw for single tube clamp, heavy series, steel, SRS AS 30-100 Page 454

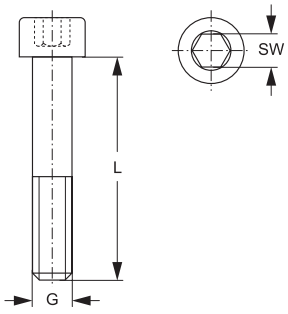
Hexagon socket screw, single tube clamp, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 912 (ISO 4762)
Surface: electro galvanised
Material: steel

www ...SRSIS30-100

Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 10	45	8	**SRSIS30**
2	M 10	60	8	**SRSIS40**
3	M 10	70	8	**SRSIS50**
4	M 12	100	10	**SRSIS60**
5	M 16	130	14	**SRSIS70**
6	M 20	190	17	**SRSIS80**
7	M 24	220	19	**SRSIS90**
8	M 30	300	22	**SRSIS100**



Additional element for following products:

Configuration of group C, C	**...C**
Configuration of group C double, C D	**...CD**

Product variants:

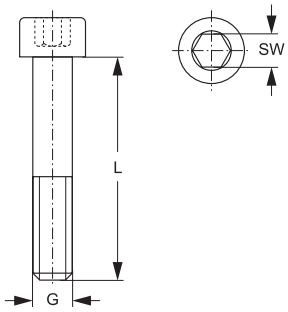
Hexagon socket screw, single tube clamp, heavy series, stainless steel, SRS IS 30-100 V4 Page 456



Hexagon socket screw, single tube clamp, heavy series, stainless steel

Construction type: for single tube clamps
Series: heavy
Standard: DIN 912 (ISO 4762)
Material: stainless steel 1.4571

www ...SRSIS30-100V4



Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 10	40	8	**SRSIS30V4**
2	M 10	60	8	**SRSIS40V4**
3	M 10	70	8	**SRSIS50V4**
4	M 12	100	10	**SRSIS60V4**

Product variants:

Hexagon socket screw, single tube clamp, heavy series, steel, SRS IS 30-100 Page 455

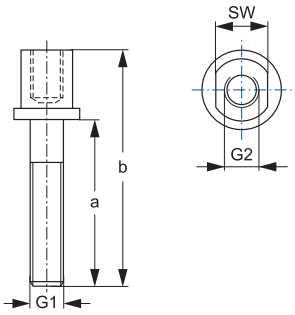
3

Stacking screw for single tube clamp, heavy series, steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

www ...SRSAF30-100



Clamp-size	a	b	G1 + G2	SW	Item no.
	mm	mm		mm	
1	25	51	M 10	15	**SRSAF30**
2	40	65	M 10	15	**SRSAF40**
3	50	76	M 10	15	**SRSAF50**
4	85	112	M 12	17	**SRSAF60**
5	110	146	M 16	21	**SRSAF70**
6	155	206	M 20	27	**SRSAF80**
7	185	245	M 24	30	**SRSAF90**
8	250	330	M 30	36	**SRSAF100**

Additional element for following products:

Configuration of group C composition, C A **...CA**

Product variants:

Stacking screw for single tube clamp, heavy series, stainless steel, SRS AF 30-100 V4 Page 457

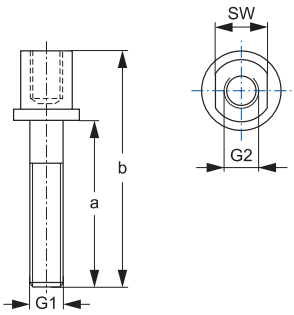
Stacking screw for single tube clamp, heavy series, stainless steel



Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: stainless steel 1.4571

www ...SRSAF30-100V4

Clamp-size	a	b	G1 + G2	SW	Item no.
	mm	mm		mm	
1	25	51	M 10	15	**SRSAF30V4**
2	40	66	M 10	15	**SRSAF40V4**
3	50	76	M 10	15	**SRSAF50V4**
4	85	112	M 12	17	**SRSAF60V4**
5	110	146	M 16	21	**SRSAF70V4**



Product variants:

Stacking screw for single tube clamp, heavy series, steel, SRS AF 30-100	Page 456

3

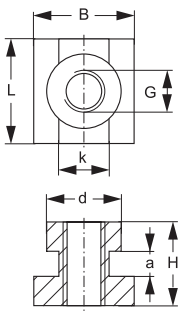
Mounting rail nut, single tube clamp, heavy series, steel galvanised



Item description: For clamp sizes 1 - 3 of the heavy series.
Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

www ...SRSSM30VZ- SRSSM60VZ

Clamp-size	a	B	d	G	H	K	L	Item no.
	mm	mm	mm		mm	mm	mm	
1 - 3	6	24	17.8	M 10	20	12.0	25	**SRSSM30-50VZ**



Product variants:

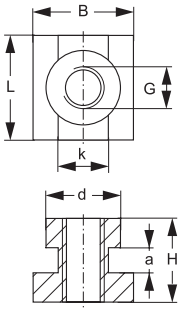
Mounting rail nut, single tube clamp, heavy series, steel, SRS SM 30 - SRS SM 60	Page 458
Mounting rail nut, single tube clamp, heavy series, stainless steel, SRS SM 30 V4 - SRS SM 60 V4	Page 458



Mounting rail nut, single tube clamp, heavy series, steel

Item description: For clamp sizes 4 of the heavy series.
Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel

...SRSSM30-SRSSM60



Clamp-size	a	B	d	G	H	K	L	Item no.
	mm	mm	mm		mm	mm	mm	
4	6	24	19.8	M 12	23	12.0	25	**SRSSM60**

Additional element for following products:

Configuration of group C, C	**...C**

Product variants:

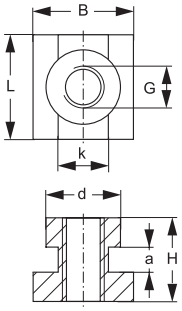
Mounting rail nut, single tube clamp, heavy series, stainless steel, SRS SM 30 V4 - SRS SM 60 V4	Page 458
Mounting rail nut, single tube clamp, heavy series, steel galvanised, SRS SM 30 VZ - SRS SM 60 VZ	Page 457



Mounting rail nut, single tube clamp, heavy series, stainless steel

Item description: For clamp sizes 1 - 4 of the heavy series.
Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: stainless steel 1.4571

...SRSSM30V4-SRSSM60V4



Clamp-size	a	B	d	G	H	K	L	Item no.
	mm	mm	mm		mm	mm	mm	
1 - 3	6	24	17.8	M 10	20	12.0	25	**SRSSM30-50V4**
4	6	24	19.8	M 12	23	12.0	25	**SRSSM60V4**

Product variants:

Mounting rail nut, single tube clamp, heavy series, steel, SRS SM 30 - SRS SM 60	Page 458
Mounting rail nut, single tube clamp, heavy series, steel galvanised, SRS SM 30 VZ - SRS SM 60 VZ	Page 457

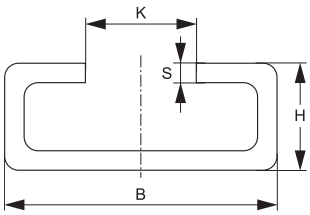
Mounting rail, single tube clamp, heavy series, steel



Item description: For clamp sizes 1 - 4 of the heavy series.
Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: steel (bright)

www ...SRSTS40

Length	B	H	K	S	Item no.
m	mm	mm	mm	mm	
1.00	40	22	12.5	5	**SRSTS40-1**
2.00	40	22	12.5	5	**SRSTS40-2**



Additional element for following products:

Configuration of group C, C	**...C**

Product variants:

Mounting rail, single tube clamp, heavy series, stainless steel, SRS TS 40 V4	Page 459
Mounting rail, single tube clamp, heavy series, steel galvanised, SRS TS 40 VZ	Page 460

3

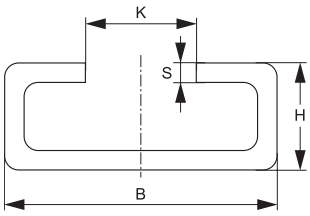
Mounting rail, single tube clamp, heavy series, stainless steel



Item description: For clamp sizes 1 - 4 of the heavy series.
Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Material: stainless steel 1.4571

www ...SRSTS40V4

Length	B	H	K	S	Item no.
m	mm	mm	mm	mm	
1.00	40	22	12.5	5	**SRSTS40-1V4**
2.00	40	22	12.5	5	**SRSTS40-2V4**



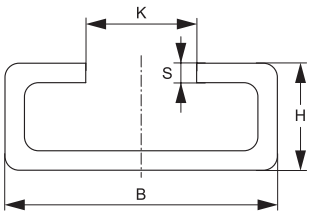
Product variants:

Mounting rail, single tube clamp, heavy series, steel, SRS TS 40	Page 459
Mounting rail, single tube clamp, heavy series, steel galvanised, SRS TS 40 VZ	Page 460



Mounting rail, single tube clamp, heavy series, steel galvanised

Item description: For clamp sizes 1 - 4 of the heavy series.
Construction type: for single tube clamps
Series: heavy
Standard: DIN 3015-2
Surface: electro galvanised
Material: steel



...SRSTS40VZ

Length	B	H	K	S	Item no.
m	mm	mm	mm	mm	
1.00	40	22	12.5	5	SRSTS40-1VZ
2.00	40	22	12.5	5	SRSTS40-2VZ

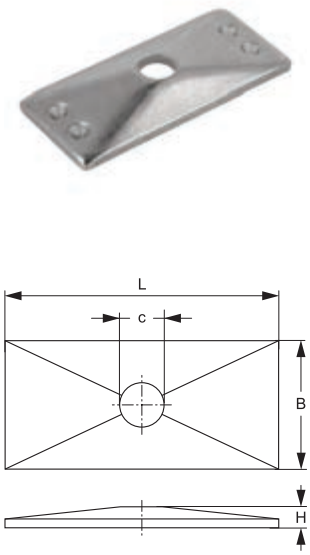
Product variants:

Mounting rail, single tube clamp, heavy series, steel, SRS TS 40	Page 459
Mounting rail, single tube clamp, heavy series, stainless steel, SRS TS 40 V4	Page 459

3

Cover plate for double tube clamp, steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: electro galvanised
Material: steel



...SRSDPD

Clamp-size	B	C	H	L	Item no.
	mm	mm	mm	mm	
1	30	6.8	6.5	34	SRSDP1D
2	30	9.0	6.5	51	SRSDP2D
3	30	9.0	6.5	64	SRSDP3D
4	30	9.0	6.5	78	SRSDP4D
5	30	9.0	6.5	102	SRSDP5D

Additional element for following products:

Configuration of group B, B	...B

Product variants:

Cover plate for double tube clamp, stainless steel, SRS DP D V4	Page 461

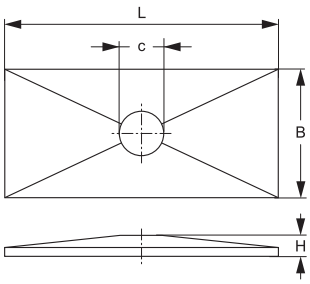
Cover plate for double tube clamp, stainless steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Material: stainless steel 1.4571



...SRSDPDV4

Clamp-size	B	C	H	L	Item no.
	mm	mm	mm	mm	
1	30	6.8	6.5	34	**SRSDP1DV4**
2	30	9.0	6.5	51	**SRSDP2DV4**
3	30	9.0	6.5	64	**SRSDP3DV4**
4	30	9.0	6.5	78	**SRSDP4DV4**
5	30	9.0	6.5	102	**SRSDP5DV4**



Product variants:

Cover plate for double tube clamp, steel, SRS DP D	Page 460

3

Welded on base plate for double tube clamp, steel

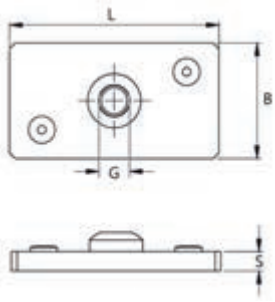
Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: phosphate treated
Material: steel

Note:
with rotation lock



...SRSSPD

Clamp-size	B	G	L	S	Item no.
	mm		mm	mm	
1	30	M 6	37	3	**SRSSP1D**
2	30	M 8	55	5	**SRSSP2D**
3	30	M 8	70	5	**SRSSP3D**
4	30	M 8	85	5	**SRSSP4D**
5	30	M 8	110	5	**SRSSP5D**



Additional element for following products:

Configuration of group B, B	**...B**

Product variants:

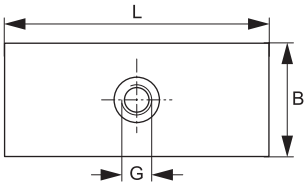
Welded on base plate for double tube clamp, stainless steel, SRS SP D V4	Page 462
Welded on base plate for double tube clamp, SRS SP D VZ	**...SRSSPDVZ**

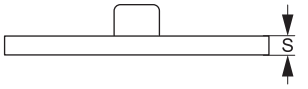


Welded on base plate for double tube clamp, stainless steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Material: stainless steel 1.4571

www ...SRSSPDV4





Clamp-size	B	G	L	S	Item no.
	mm		mm	mm	
1	30	M 6	37	3	SRSSP1DV4
2	30	M 8	55	5	SRSSP2DV4
3	30	M 8	70	5	SRSSP3DV4
4	30	M 8	85	5	SRSSP4DV4
5	30	M 8	110	5	SRSSP5DV4

Product variants:

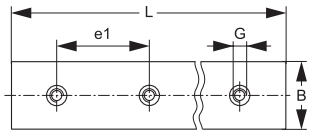
Welded on base plate for double tube clamp, steel, SRS SP D	Page 461
Welded on base plate for double tube clamp, SRS SP D VZ	**...SRSSPDVZ**

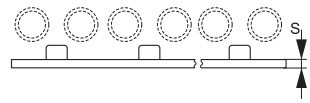


Series welded on base plate, double tube clamp, steel

Item description: Number of mountings: for 5 clamps.
Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: phosphate treated
Material: steel

www ...SRSSPRD





Clamp-size	B	e1	G	L	S	Item no.
	mm	mm		mm	mm	
1	30	40	M 6	196	3	SRSSPR1D
2	30	58	M 8	288	5	SRSSPR2D
3	30	72	M 8	358	5	SRSSPR3D
4	30	90	M 8	446	5	SRSSPR4D
5	30	112	M 8	558	5	SRSSPR5D

Additional element for following products:

Configuration of group B, B	**...B**

Tube clamp, double tubes, light series, polyamide 6

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: Double tube clamp

Construction type addition: inside of clamp with ribs

Standard: DIN 3015-3

Temp. max.: 120 °C

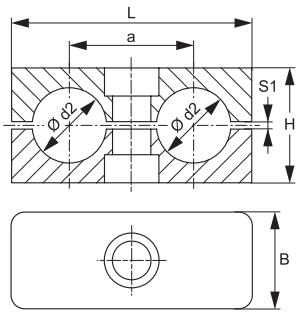
Temp. min.: -40 °C

Material: polyamide 6

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves





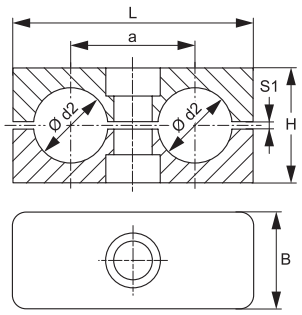
www ...SRS1-5DPA

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	a	B	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	20	30	27	36	1.0	**SRS106DPA**
6.4	1/4"	1	20	30	27	36	1.0	**SRS106.4DPA**
8.0	5/16"	1	20	30	27	36	1.0	**SRS108DPA**
9.5	3/8"	1	20	30	27	36	1.0	**SRS109.5DPA**
10.0	-	1	20	30	27	36	1.0	**SRS110DPA**
12.0	-	1	20	30	27	36	1.0	**SRS112DPA**
12.7	1/2"	2	29	30	26	53	1.2	**SRS212.7DPA**
13.5	-	2	29	30	26	53	1.2	**SRS213.5DPA**
14.0	-	2	29	30	26	53	1.2	**SRS214DPA**
15.0	-	2	29	30	26	53	1.2	**SRS215DPA**
16.0	5/8"	2	29	30	26	53	1.2	**SRS216DPA**
17.2	-	2	29	30	26	53	1.2	**SRS217.2DPA**
18.0	-	2	29	30	26	53	1.2	**SRS218DPA**
19.0	3/4"	3	36	30	37	67	1.6	**SRS319DPA**
20.0	-	3	36	30	37	67	1.6	**SRS320DPA**
21.3	-	3	36	30	37	67	1.6	**SRS321.3DPA**
22.0	-	3	36	30	37	67	1.6	**SRS322DPA**
25.0	1"	3	36	30	37	67	1.6	**SRS325DPA**
26.9	-	4	45	30	42	82	2.0	**SRS426.9DPA**
28.0	-	4	45	30	42	82	2.0	**SRS428DPA**
30.0	-	4	45	30	42	82	2.0	**SRS430DPA**
32.0	1.1/4"	5	56	30	54	106	2.0	**SRS532DPA**
33.7	-	5	56	30	54	106	2.0	**SRS533.7DPA**
35.0	-	5	56	30	54	106	2.0	**SRS535DPA**
38.0	1.1/2"	5	56	30	54	106	2.0	**SRS538DPA**
42.0	-	5	56	30	54	106	2.0	**SRS542DPA**

Product variants:

Tube clamp, double tubes, light series, polypropylene, SRS 1-5 D PP	Page 464
Tube clamp, double tubes, light series, smooth inside, polypropylene, SRS 1-5 D PP G	Page 465
Tube clamp, double tubes, light series, solid rubber, SRS 1-5 D VG	Page 466





Tube clamp, double tubes, light series, polypropylene

Item description: Webs in the inner surface of the clamps, dampen impacts and vibrations and absorb forces along the tube axis.
A gap between the halves causes the tube to be pre-tensioned.

Construction type: Double tube clamp

Construction type addition: inside of clamp with ribs

Standard: DIN 3015-3

Temp. max.: 90 °C

Temp. min.: -30 °C

Material: polypropylene (PP)

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

www ...SRS1-5DPP

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	a	B	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	20	30	27	36	1.0	**SRS106DPP**
6.4	1/4"	1	20	30	27	36	1.0	**SRS106.4DPP**
8.0	5/16"	1	20	30	27	36	1.0	**SRS108DPP**
9.5	3/8"	1	20	30	27	36	1.0	**SRS109.5DPP**
10.0	-	1	20	30	27	36	1.0	**SRS110DPP**
12.0	-	1	20	30	27	36	1.0	**SRS112DPP**
12.7	1/2"	2	29	30	26	53	1.2	**SRS212.7DPP**
13.5	-	2	29	30	26	53	1.2	**SRS213.5DPP**
14.0	-	2	29	30	26	53	1.2	**SRS214DPP**
15.0	-	2	29	30	26	53	1.2	**SRS215DPP**
16.0	5/8"	2	29	30	26	53	1.2	**SRS216DPP**
17.2	-	2	29	30	26	53	1.2	**SRS217.2DPP**
18.0	-	2	29	30	26	53	1.2	**SRS218DPP**
19.0	3/4"	3	36	30	37	67	1.6	**SRS319DPP**
20.0	-	3	36	30	37	67	1.6	**SRS320DPP**
21.3	-	3	36	30	37	67	1.6	**SRS321.3DPP**
22.0	-	3	36	30	37	67	1.6	**SRS322DPP**
25.0	1"	3	36	30	37	67	1.6	**SRS325DPP**
26.9	-	4	45	30	42	82	2.0	**SRS426.9DPP**
28.0	-	4	45	30	42	82	2.0	**SRS428DPP**
30.0	-	4	45	30	42	82	2.0	**SRS430DPP**
32.0	1.1/4"	5	56	30	54	106	2.0	**SRS532DPP**
33.7	-	5	56	30	54	106	2.0	**SRS533.7DPP**
35.0	-	5	56	30	54	106	2.0	**SRS535DPP**
38.0	1.1/2"	5	56	30	54	106	2.0	**SRS538DPP**
42.0	-	5	56	30	54	106	2.0	**SRS542DPP**

Additional element for following products:

Configuration of group B, B	**...B**
Configuration of group B composition, B A	**...BA**

Product variants:

Tube clamp, double tubes, light series, polyamide 6, SRS 1-5 D PA	Page 463
Tube clamp, double tubes, light series, smooth inside, polypropylene, SRS 1-5 D PP G	Page 465
Tube clamp, double tubes, light series, solid rubber, SRS 1-5 D VG	Page 466

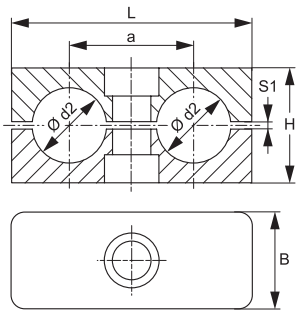
Tube clamp, double tubes, light series, smooth inside, polypropylene



Construction type: Double tube clamp
Construction type addition: inside of clamp, smooth
Standard: DIN 3015-3
Temp. max.: 90 °C
Temp. min.: -30 °C
Material: polypropylene (PP)

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves



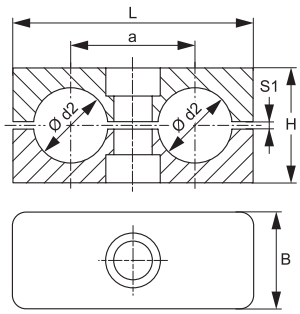
www ...SRS1-5DPPG

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	a	B	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.0	-	1	20	30	27	36	1.0	**SRS106DPPG**
6.4	1/4"	1	20	30	27	36	1.0	**SRS106.4DPPG**
8.0	5/16"	1	20	30	27	36	1.0	**SRS108DPPG**
9.5	3/8"	1	20	30	27	36	1.0	**SRS109.5DPPG**
10.0	-	1	20	30	27	36	1.0	**SRS110DPPG**
12.0	-	1	20	30	27	36	1.0	**SRS112DPPG**
12.7	1/2"	2	29	30	26	53	1.2	**SRS212.7DPPG**
13.5	-	2	29	30	26	53	1.2	**SRS213.5DPPG**
14.0	-	2	29	30	26	53	1.2	**SRS214DPPG**
15.0	-	2	29	30	26	53	1.2	**SRS215DPPG**
16.0	5/8"	2	29	30	26	53	1.2	**SRS216DPPG**
17.2	-	2	29	30	26	53	1.2	**SRS217.2DPPG**
18.0	-	2	29	30	26	53	1.2	**SRS218DPPG**
19.0	3/4"	3	36	30	37	67	1.6	**SRS319DPPG**
20.0	-	3	36	30	37	67	1.6	**SRS320DPPG**
21.3	-	3	36	30	37	67	1.6	**SRS321.3DPPG**
22.0	-	3	36	30	37	67	1.6	**SRS322DPPG**
25.0	1"	3	36	30	37	67	1.6	**SRS325DPPG**
26.9	-	4	45	30	42	82	2.0	**SRS426.9DPPG**
28.0	-	4	45	30	42	82	2.0	**SRS428DPPG**
30.0	-	4	45	30	42	82	2.0	**SRS430DPPG**
32.0	1.1/4"	5	56	30	54	106	2.0	**SRS532DPPG**
33.7	-	5	56	30	54	106	2.0	**SRS533.7DPPG**
35.0	-	5	56	30	54	106	2.0	**SRS535DPPG**
38.0	1.1/2"	5	56	30	54	106	2.0	**SRS538DPPG**
42.0	-	5	56	30	54	106	2.0	**SRS542DPPG**

Product variants:

Tube clamp, double tubes, light series, polyamide 6, SRS 1-5 D PA	Page 463
Tube clamp, double tubes, light series, polypropylene, SRS 1-5 D PP	Page 464
Tube clamp, double tubes, light series, solid rubber, SRS 1-5 D VG	Page 466





Tube clamp, double tubes, light series, solid rubber

Construction type: Double tube clamp
Construction type addition: inside of clamp, smooth
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -50 °C
Material: solid rubber 64 Shore / 73 shore

Note:
The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Order information:
1 piece = 2 clamp halves

www ...SRS1-5DVG

Tube outer Ø d2	Tube outer Ø d2 (inches)	Clamp-size	a	B	H	L	S1	Item no.
mm			mm	mm	mm	mm	mm	
6.4	1/4"	1	20	30	27	36	1.0	**SRS106.4DVG**
6.0	-	1	20	30	27	36	1.0	**SRS106DVG**
8.0	5/16"	1	20	30	27	36	1.0	**SRS108DVG**
9.5	3/8"	1	20	30	27	36	1.0	**SRS109.5DVG**
10.0	-	1	20	30	27	36	1.0	**SRS110DVG**
12.0	-	1	20	30	27	36	1.0	**SRS112DVG**
12.7	1/2"	2	29	30	26	53	1.2	**SRS212.7DVG**
13.5	-	2	29	30	26	53	1.2	**SRS213.5DVG**
14.0	-	2	29	30	26	53	1.2	**SRS214DVG**
15.0	-	2	29	30	26	53	1.2	**SRS215DVG**
16.0	5/8"	2	29	30	26	53	1.2	**SRS216DVG**
17.2	-	2	29	30	26	53	1.2	**SRS217.2DVG**
18.0	-	2	29	30	26	53	1.2	**SRS218DVG**
19.0	3/4"	3	36	30	37	67	1.6	**SRS319DVG**
20.0	-	3	36	30	37	67	1.6	**SRS320DVG**
21.3	-	3	36	30	37	67	1.6	**SRS321.3DVG**
22.0	-	3	36	30	37	67	1.6	**SRS322DVG**
25.0	1"	3	36	30	37	67	1.6	**SRS325DVG**
26.9	-	4	45	30	42	82	2.0	**SRS426.9DVG**
28.0	-	4	45	30	42	82	2.0	**SRS428DVG**
30.0	-	4	45	30	42	82	2.0	**SRS430DVG**
32.0	1.1/4"	5	56	30	54	106	2.0	**SRS532DVG**
33.7	-	5	56	30	54	106	2.0	**SRS533.7DVG**
35.0	-	5	56	30	54	106	2.0	**SRS535DVG**
38.0	1.1/2"	5	56	30	54	106	2.0	**SRS538DVG**
42.0	-	5	56	30	54	106	2.0	**SRS542DVG**

Product variants:

Tube clamp, double tubes, light series, polyamide 6, SRS 1-5 D PA	Page 463
Tube clamp, double tubes, light series, polypropylene, SRS 1-5 D PP	Page 464
Tube clamp, double tubes, light series, smooth inside, polypropylene, SRS 1-5 D PP G	Page 465

Locking plate for double tube clamp, steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: electro galvanised
Material: steel



...SRSSI

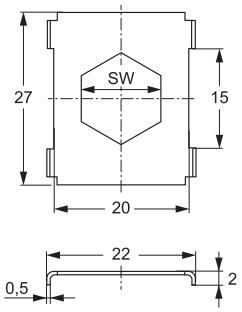
Clamp-size	SW	Item no.
	mm	
1	11	**SRSSI1D**
2 to 5	12	**SRSSI2D**

Additional element for following products:

Configuration of group B composition, B A	**...BA**

Product variants:

Locking plate for double tube clamp, stainless steel, SRS SI V4	Page 467



3

Locking plate for double tube clamp, stainless steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Material: stainless steel 1.4571

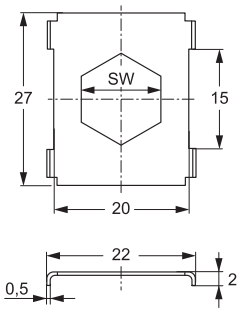


...SRSSIV4

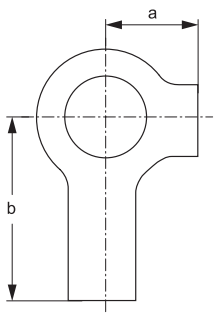
Clamp-size	SW	Item no.
	mm	
1	11	**SRSSI1DV4**
2 to 5	12	**SRSSI2DV4**

Product variants:

Locking plate for double tube clamp, steel, SRS SI	Page 467







Locking washer for double tube clamp, steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: electro galvanised
Material: steel

www ...SRSSISD

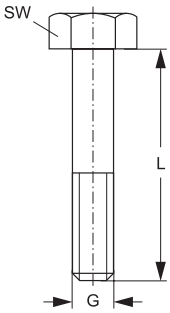
Clamp-size	a	b	Item no.
	mm	mm	
1	9	18	**SRSSIS1D**
2 to 5	11	20	**SRSSIS2D**

Additional element for following products:

Configuration of group B, B	**...B**

3





Hexagon screw for double tube clamp, steel

Construction type: for double tube clamps
Standard: DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Surface: electro galvanised
Material: steel

www ...SRSASD

Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 6	35	10	**SRSAS1D**
2	M 8	35	13	**SRSAS2D**
3	M 8	45	13	**SRSAS3D**
4	M 8	50	13	**SRSAS4D**
5	M 8	60	13	**SRSAS5D**

Additional element for following products:

Configuration of group B, B	**...B**

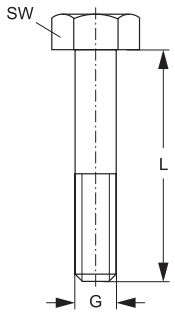
Product variants:

Hexagon screw for double tube clamp, stainless steel, SRS AS D V4	Page 469

Hexagon screw for double tube clamp, stainless steel

Construction type: for double tube clamps
Standard: DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Material: stainless steel 1.4571





...SRSASDV4

Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 6	35	10	**SRSAS1DV4**
2	M 8	35	13	**SRSAS2DV4**
3	M 8	45	13	**SRSAS3DV4**
4	M 8	50	13	**SRSAS4DV4**
5	M 8	60	13	**SRSAS5DV4**

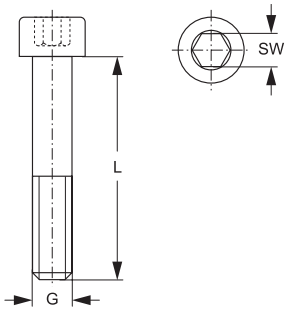
Product variants:

Hexagon screw for double tube clamp, steel, SRS AS D Page 468

Hexagon socket screw, double tube clamp, steel

Construction type: for double tube clamps
Standard: DIN 912 (ISO 4762)
Surface: electro galvanised
Material: steel





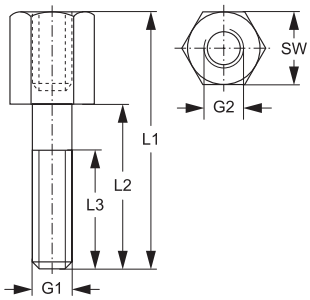
...SRSISD

Clamp-size	G	L	SW	Item no.
		mm	mm	
1	M 6	35	5	**SRSIS1D**
2	M 8	35	6	**SRSIS2D**
3	M 8	45	6	**SRSIS3D**
4	M 8	50	6	**SRSIS4D**
5	M 8	60	6	**SRSIS5D**

Additional element for following products:

Configuration of group B, B **...B**





Stacking screw for double tube clamp, steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: electro galvanised
Material: steel

...SRSAFD

Clamp-size	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
1	M 6	M 6	34	20	16	11	**SRSAF1D**
2	M 8	M 8	33	20	16	12	**SRSAF2D**
3	M 8	M 8	45	30	16	12	**SRSAF3D**
4	M 8	M 8	50	35	16	12	**SRSAF4D**
5	M 8	M 8	62	47	16	12	**SRSAF5D**

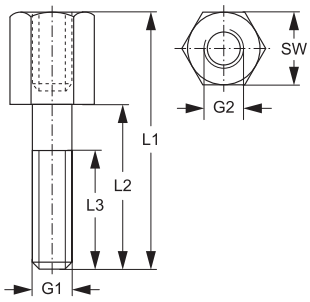
Additional element for following products:

Configuration of group B composition, B A	**...BA**

Product variants:

Stacking screw for double tube clamp, stainless steel, SRS AF D V4 Page 470





Stacking screw for double tube clamp, stainless steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Material: stainless steel 1.4571

...SRSAFDV4

Clamp-size	G1	G2	L1	L2	L3	SW	Item no.
			mm	mm	mm	mm	
1	M 6	M 6	34	20	16	11	**SRSAF1DV4**
2	M 8	M 8	33	20	16	12	**SRSAF2DV4**
3	M 8	M 8	45	30	16	12	**SRSAF3DV4**
4	M 8	M 8	50	35	16	12	**SRSAF4DV4**
5	M 8	M 8	62	47	16	12	**SRSAF5DV4**

Product variants:

Stacking screw for double tube clamp, steel, SRS AF D Page 470

Mounting rail nut, double tube clamp, steel

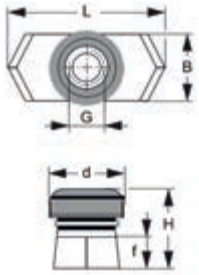
Construction type: for double tube clamps
Standard: DIN 3015-3
Surface: electro galvanised
Material: steel and rubber

Note:
For clamp size 1 please order the rail nut SRS SM.



...SRSSMD

Clamp-size	B	d	f	G	H	L	Item no.
	mm	mm	mm		mm	mm	
2 to 5	10.4	14	5	M 8	13.0	25.4	**SRSSMD**



Additional element for following products:

Configuration of group B, B	**...B**

Product variants:

Mounting rail nut, double tube clamp, stainless steel, SRS SMD V4 Page 471

3

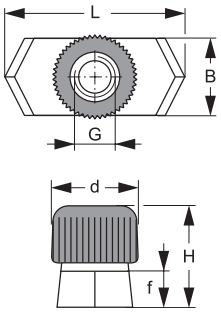
Mounting rail nut, double tube clamp, stainless steel

Construction type: for double tube clamps
Standard: DIN 3015-3
Material: stainless steel 1.4571



...SRSSMDV4

Clamp-size	B	d	f	G	H	L	Item no.
	mm	mm	mm		mm	mm	
1	10.4	12	5	M 6	14.5	25.4	**SRSSM1DV4**
2 to 5	10.4	14	5	M 8	13.0	25.4	**SRSSM2DV4**



Product variants:

Mounting rail nut, double tube clamp, steel, SRS SMD Page 471

PARA-system
Tube and hose in one clamp

Practically tool-free line installation is finally a reality: the SRS PARA Clamp by HANSA-FLEX has a unique click system to allow secure premounting of pipelines and hose lines in a matter of seconds. Line installation using this system could not be quicker, easier or more secure – and it can be done by a single installer.

The clever offset split insertion system with engagement hooks allows secure premounting of lines. They are held absolutely securely until final system installation. The modular design allows lines of different diameters to be mounted on the same multi-hole clamp. Grooved and smooth inserts for pipe and hose lines allow the two types of line to be efficiently mounted parallel to one another in the same pipe run.

Installation could not be easier:



1. Attach clamp base and compatible insert



2. Click the pipe or hose line into the clamp

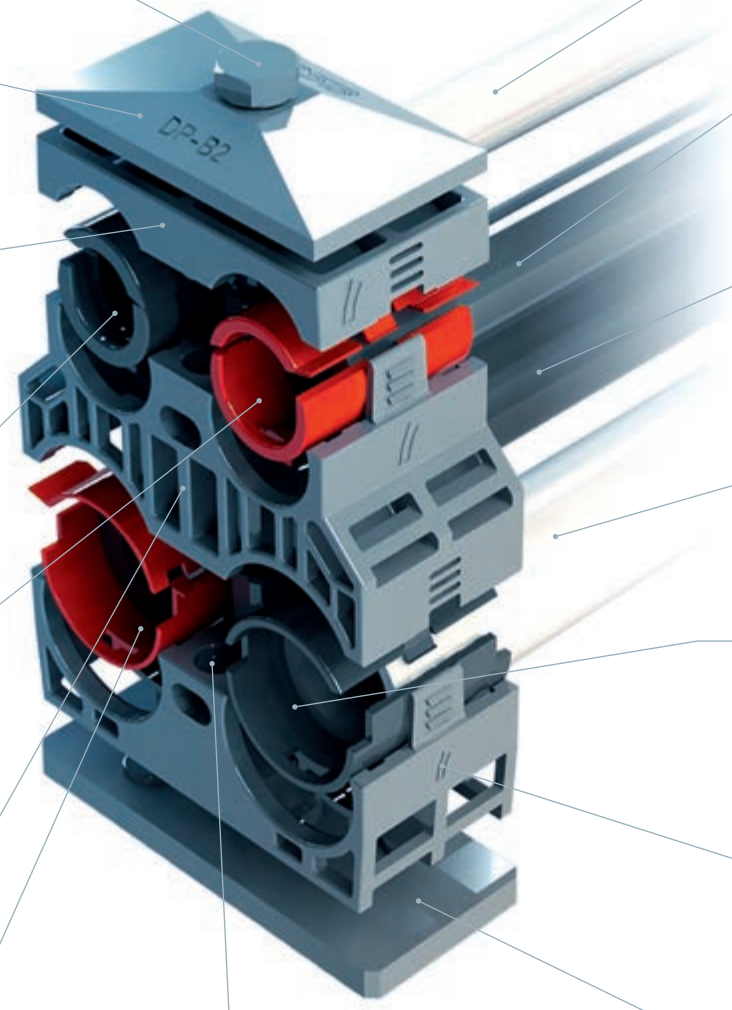


3. Click in a suitable counter-piece



4. he lines are held absolutely securely until final system installation

Exemplary design
of the modular PARA system



SRS AS 3 D
Hexagon bolt
double pipe BG 3

SRS DP 2 D
Cover plate for
pipe clamp BG 2

SRS O TR 218 D PARA
Double pipe clamp
ø 18 mm BG 2 top

SRS EIN R 212 PARA
Insert for BG 2, grooved
for ø 12 mm pipe

SRS EIN S 213.5 PARA
Insert BG 2, smooth
for ø 13.5 mm hose

SRS MK TR 325 218 D PARA
Double pipe clamp
ø 18/25 mm BG 2/3
combination

SRS EIN S 323 PARA
Insert for BG 2, smooth
for ø 23 mm hose

SRS AF 3 PARA
Assembly bolt
PARA-clamp BG 3

Pipeline
ø 12 mm

Hose line
ø 13.5 mm

Hose line
ø 23 mm

Pipeline
ø 22 mm

SRS EIN R 322 PARA
Insert for BG 3, grooved
for ø 22 mm pipe

SRS U TR 325 D PARA
Double pipe clamp
ø 25 mm BG 3 bottom

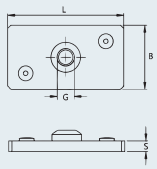
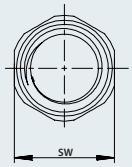
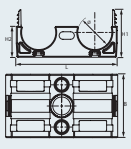
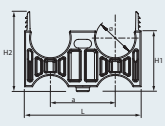
SRS SP 3 D VZ
Welded-on base plate
Double pipe BG 3

Connection matrix of the PARA system

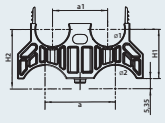
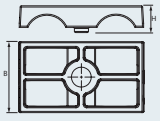
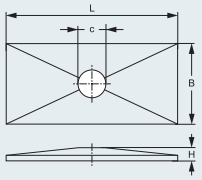
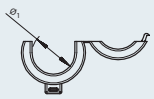
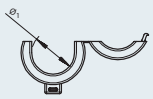
This is how the individual components fit together.

				BG 2		
				Clamp bottom part	Clamp top part	
				SRS U TR 218 D PARA	SRS O TR 218 D PARA	
BG 2	Tube	ø 15 mm	SRS EIN R 215 PARA	✓	✓	
	Tube	ø 12 mm	SRS EIN R 212 PARA	✓	✓	
	Hose	ø 13,5 mm	SRS EIN S 213.5 PARA	✓	✓	
	Hose	ø 17,3 mm	SRS EIN S 217.3 PARA			
BG 3	Tube	ø 18 mm	SRS EIN R 318 PARA			
	Tube	ø 20 mm	SRS EIN R 320 PARA			
	Tube	ø 22 mm	SRS EIN R 322 PARA			
	Tube	ø 15 mm	SRS EIN R 315 PARA			
	Hose	ø 23 mm	SRS EIN S 323 PARA			
	Hose	ø 18 mm	SRS EIN S 318 PARA			
	Hose	ø 17,3 mm	SRS EIN S 317.3 PARA			
	Hose	ø 20 mm	SRS EIN S 320 PARA			
BG 2	Clamp bottom part	ø 18 mm	SRS U TR 218 D PARA		✓	
	Clamp top part	ø 18 mm	SRS O TR 218 D PARA	✓		
	Clamp middle part	ø 18 mm	SRS M TR 218 D PARA	✓		
	Stacking bolt		SRS AF 2 PARA	✓		
BG 3	Clamp bottom part	ø 25 mm	SRS U TR 325 D PARA			
	Clamp top part	ø 25 mm	SRS O TR 325 D PARA			
	Clamp middle part	ø 25 mm	SRS M TR 325 D PARA			
	Stacking bolt		SRS AF 3 PARA			
BG 2 / BG 3	Clamp middlecombination part		SRS MK TR 325 218 D PARA		✓	
BG2	Screw		SRS AS 2 D (M8 x 35)	✓	✓	
	Screw		SRS IS 2 D (M8 x 35)	✓	✓	
	Screw		SRS AS 5 D (M8 x 60)	✓	✓	
	Screw		SRS IS 5 D (M8 x 60)	✓	✓	
BG3	Screw		SRS AS 3 D (M8 x 45)			
	Screw		SRS IS 3 D (M8 x 45)			

Individual components of the PARA system

Welded-on base plate		Stacking bolt		Clamp bottom part		Clamp middle part	
							
Item no.	**Page**	**Item no.**	**Page**	**Item no.**	**Page**	**Item no.**	**Page**
SRS SP D	461	SRS AF PARA	476	SRS U TR D PARA	477	SRS M TR D PARA	476

	BG 2	BG 3			BG 2 / BG 3
	Clamp middle part	**Clamp bottom part**	**Clamp top part**	**Clamp middle part**	**Clamp middlecombination part**
	SRS M TR 218 D PARA	SRS U TR 325 D PARA	SRS O TR 325 D PARA	SRS M TR 325 D PARA	SRS MK TR 325 218 D PARA
	✓				✓
	✓				✓
	✓				✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
	✓				
	✓			✓	✓
	✓			✓	✓
	✓				
			✓	✓	✓
		✓		✓	
		✓		✓	
		✓		✓	✓
	✓	✓		✓	
	✓				
	✓				
		✓	✓		
		✓	✓		

	Clamp middlecombination part	Clamp top part	Cover plate	Insert for hose	Insert for tube
					
	Item no. **Page**	**Item no.** **Page**	**Item no.** **Page**	**Item no.** **Page**	**Item no.** **Page**
	SRS MK TR D PARA 479	SRS O TR D PARA 477	SRS DP D 460	SRS EIN S PARA 478	SRS EIN R PARA 478

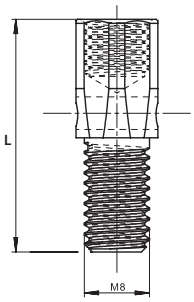
Tube and hose clamp, stacking screw



Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: steel

Note:
Information on the overall construction can be found on the information pages.

...SRSAFPARA



L	SW	Item no.
mm	mm	
25.8	10	SRSAF2PARA
40	10	SRSAF3PARA

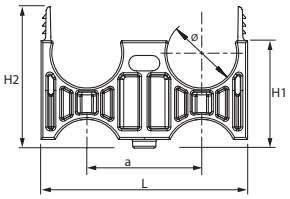
Tube and hose clamp, clamp centre section, snap-in function, tube, polyamide, black



Construction type addition: Ribbed
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6

Note:
Information on the overall construction can be found on the information pages.

...SRSMTRDPARA



Inside Ø	a	H1	H2	L	Item no.
mm	mm	mm	mm	mm	
18.0	29.5	27.5	36.3	53.0	SRSMTR218DPARA
25.0	37.5	38.55	47.55	67.0	SRSMTR325DPARA

Tube and hose clamp, upper part of clamp, snap-in function, tube, polyamide, black

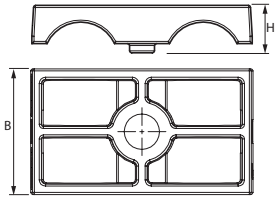


Construction type addition: The inner side of the clamps are ribbed
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6

Note:
Information on the overall construction can be found on the information pages.

www ...SRSOTRDPARA

B	H	Item no.
mm	mm	
30.0	11.4	SRSOTR218DPARA
30.0	15.4	SRSOTR325DPARA



3

Tube and hose clamp, lower part of clamp, snap-in function, tube, polyamide, black

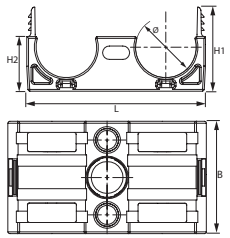


Construction type addition: The inner side of the clamps are ribbed
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6

Note:
Information on the overall construction can be found on the information pages.

www ...SRSUTRDPARA

Inside Ø	B	H1	H2	L	Item no.
mm	mm	mm	mm	mm	
18.0	30.0	24.9	16.15	53.0	SRSUTR218DPARA
25.0	30.0	32.15	23.15	67.0	SRSUTR325DPARA



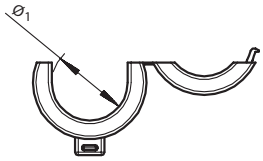
Tube and hose clamp, insert for tube, snap-in function, polyamide, black



Construction type addition: Ribbed
Colour: black
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6

Note:
Information on the overall construction can be found on the information pages.

...SRSEINRPARA



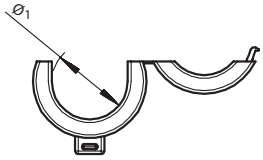
Inside Ø	Clamp-size	Item no.
mm		
12.0	2	SRSEINR212PARA
15.0	2	SRSEINR215PARA
15.0	3	SRSEINR315PARA
18.0	3	SRSEINR318PARA
20.0	3	SRSEINR320PARA
22.0	3	SRSEINR322PARA

Tube and hose clamp, insert for hose, snap-in function, polyamide, red



Construction type addition: Smooth
Colour: red
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6

...SRSEINSPARA



Inside Ø	Clamp-size	Item no.
mm		
13.5	2	SRSEINS213.5PARA
17.3	3	SRSEINS317.3PARA
18.0	3	SRSEINS318PARA
20.0	3	SRSEINS320PARA
23.0	3	SRSEINS323PARA

Tube and hose clamp centre part, combination size 2 to size 3, snap-in function, tube, polyamide, black

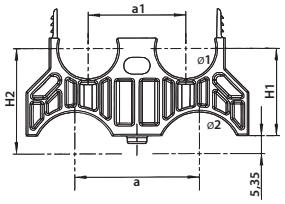


Construction type addition: Ribbed
Standard: DIN 3015-3
Temp. max.: 120 °C
Temp. min.: -40 °C
Material: polyamide 6, black

Note:
Information on the overall construction can be found on the information pages.

www ...SRSMKTRDPARA

Inside Ø	Tube outer Ø d2	a	a1	B	H1	H2	L	Item no.
mm	mm	mm	mm	mm	mm	mm	mm	
25	18	37.5	29.5	30	29.3	28.3	67	**SRSMKTR325218DPARA**



3

Tubes



Metric tubes

Hydraulic tubes in accordance with EN 10305-4	482
Stainless steel tubes in accordance with EN 10216-5	486

Tube elbows

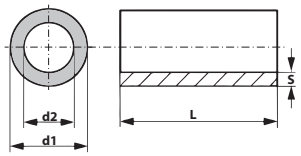
Tube elbow 90°	490



Hydraulic tube acc. EN 10305-4 (seamless), metric, galvanised, E235+N (1.0308)

Construction type: precision steel tube, seamless, (cold-drawn), metric
Standard: DIN EN 10305-4
Surface: electro galvanised (Cr6-free)
Material: steel E235+N (1.0308)
Additional information: Calculation analog DIN 2413
Specific load I: static (up to 120 °C)
Specific load III: dynamic (up to 120°C)
working stroke= P bar
Strength parameter: K 235 [N/mm²]
Safety coefficient: S 1.5
Fatigue strength: σSch/D 225 [N/mm²]
Tolerances: DIN EN 10305-1 (diameter-/wall thickness indication)
Tube length: 6 m

Note:
The pressure figures are based on straight tubes. The appropriate wall thickness needs to be calculated for tubes with bends as stipulated in DIN EN 13480-4.



www ...PRVZCF(M)

Ø d1	S	Specific load I	Specific load III	Ø d2	ID tolerance +/-	AD tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
6.00	1.00	416	352	4.00	0.12	0.08	PR06-1VZCF
6.00	1.50	663	524	3.00	0.15	0.08	PR06-1.5VZCF
6.00	2.00	924	683	2.00	0.15	0.08	PR06-2VZCF
8.00	1.00	320	278	6.00	0.10	0.08	PR08-1VZCF
8.00	1.50	516	424	5.00	0.10	0.08	PR08-1.5VZCF
8.00	2.00	693	543	4.00	0.15	0.08	PR08-2VZCF
10.00	1.00	263	232	8.00	0.08	0.08	PR10-1VZCF
10.00	1.50	407	345	7.00	0.12	0.08	PR10-1.5VZCF
10.00	2.00	554	451	6.00	0.15	0.08	PR10-2VZCF
10.00	2.50	711	555	5.00	0.15	0.08	PR10-2.5VZCF
12.00	1.00	219	196	10.00	0.08	0.08	PR12-1VZCF
12.00	1.50	344	297	9.00	0.10	0.08	PR12-1.5VZCF
12.00	2.00	469	391	8.00	0.12	0.08	PR12-2VZCF
12.00	2.50	592	477	7.00	0.15	0.08	PR12-2.5VZCF
12.00	3.00	723	562	6.00	0.15	0.08	PR12-3VZCF
14.00	3.00	619	495	8.00	0.15	0.08	PR14-3VZCF
15.00	1.00	175	159	13.00	0.08	0.08	PR15-1VZCF
15.00	1.50	279	246	12.00	0.08	0.08	PR15-1.5VZCF
15.00	2.00	380	324	11.00	0.10	0.08	PR15-2VZCF
15.00	2.50	480	398	10.00	0.08	0.08	PR15-2.5VZCF
16.00	1.00	164	149	14.00	0.08	0.08	PR16-1VZCF
16.00	1.50	262	231	13.00	0.08	0.08	PR16-1.5VZCF
16.00	2.00	346	298	12.00	0.15	0.08	PR16-2VZCF
16.00	2.50	450	377	11.00	0.12	0.08	PR16-2.5VZCF
16.00	3.00	542	442	10.00	0.15	0.08	PR16-3VZCF
18.00	1.00	146	133	16.00	0.08	0.08	PR18-1VZCF
18.00	1.50	233	207	15.00	0.08	0.08	PR18-1.5VZCF
18.00	2.00	320	278	14.00	0.08	0.08	PR18-2VZCF
18.00	2.50	395	335	13.00	0.15	0.08	PR18-2.5VZCF
18.00	3.00	482	400	12.00	0.15	0.08	PR18-3VZCF
20.00	1.00	131	120	18.00	0.08	0.08	PR20-1VZCF
20.00	1.50	209	188	17.00	0.08	0.08	PR20-1.5VZCF
20.00	2.00	288	252	16.00	0.08	0.08	PR20-2VZCF
20.00	2.50	355	305	15.00	0.15	0.08	PR20-2.5VZCF
20.00	3.00	433	364	14.00	0.15	0.08	PR20-3VZCF
20.00	3.50	512	421	13.00	0.15	0.08	PR20-3.5VZCF
22.00	1.00	119	110	20.00	0.08	0.08	PR22-1VZCF
22.00	1.50	190	172	19.00	0.08	0.08	PR22-1.5VZCF
22.00	2.00	262	231	18.00	0.08	0.08	PR22-2VZCF
22.00	2.50	333	288	17.00	0.08	0.08	PR22-2.5VZCF
22.00	3.00	394	335	16.00	0.15	0.08	PR22-3VZCF
25.00	1.50	167	152	22.00	0.08	0.08	PR25-1.5VZCF

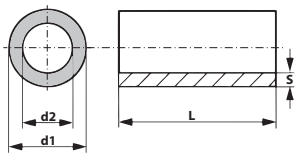
Ø d1	S	Specific load I	Specific load III	Ø d2	ID tolerance +/-	AD tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
25.00	2.00	230	205	21.00	0.08	0.08	**PR25-2VZCF**
25.00	2.50	293	256	20.00	0.08	0.08	**PR25-2.5VZCF**
25.00	3.00	347	299	19.00	0.15	0.08	**PR25-3VZCF**
25.00	3.50	409	347	18.00	0.15	0.08	**PR25-3.5VZCF**
25.00	4.00	472	393	17.00	0.15	0.08	**PR25-4VZCF**
28.00	1.50	149	136	25.00	0.08	0.08	**PR28-1.5VZCF**
28.00	2.00	205	184	24.00	0.08	0.08	**PR28-2VZCF**
28.00	2.50	261	231	23.00	0.08	0.08	**PR28-2.5VZCF**
28.00	3.00	309	270	22.00	0.15	0.08	**PR28-3VZCF**
30.00	2.00	192	173	26.00	0.08	0.08	**PR30-2VZCF**
30.00	2.50	244	217	25.00	0.08	0.08	**PR30-2.5VZCF**
30.00	3.00	289	253	24.00	0.15	0.08	**PR30-3VZCF**
30.00	4.00	393	334	22.00	0.15	0.08	**PR30-4VZCF**
30.00	5.00	498	411	20.00	0.15	0.08	**PR30-5VZCF**
35.00	1.50	119	110	32.00	0.08	0.08	**PR35-1.5VZCF**
35.00	2.00	152	138	31.00	0.15	0.15	**PR35-2VZCF**
35.00	2.50	196	177	30.00	0.15	0.15	**PR35-2.5VZCF**
35.00	3.00	241	214	29.00	0.15	0.15	**PR35-3VZCF**
35.00	4.00	331	286	27.00	0.15	0.15	**PR35-4VZCF**
38.00	2.00	140	128	34.00	0.15	0.15	**PR38-2VZCF**
38.00	2.50	181	163	33.00	0.15	0.15	**PR38-2.5VZCF**
38.00	3.00	222	198	32.00	0.15	0.15	**PR38-3VZCF**
38.00	4.00	305	266	30.00	0.15	0.15	**PR38-4VZCF**
38.00	5.00	387	330	28.00	0.15	0.15	**PR38-5VZCF**
38.00	6.00	469	391	26.00	0.15	0.15	**PR38-6VZCF**
42.00	2.00	119	109	38.00	0.20	0.20	**PR42-2VZCF**
42.00	2.50	156	142	37.00	0.20	0.20	**PR42-2.5VZCF**
42.00	3.00	193	174	36.00	0.20	0.20	**PR42-3VZCF**
42.00	4.00	268	236	34.00	0.20	0.20	**PR42-4VZCF**
50.00	2.50	131	120	45.00	0.20	0.20	**PR50-2.5VZCF**

Hydraulic tube acc. EN 10305-4 (seamless), metric, phosphated, E235+N (1.0308)



Construction type: precision steel tube, seamless, (cold-drawn), metric
Standard: DIN EN 10305-4
Surface: phosphate treated and oiled
Material: steel E235+N (1.0308)
Additional information:
Calculation analog DIN 2413
Specific load I: static (up to 120 °C)
Specific load III: dynamic (up to 120°C) working stroke= P bar
Strength parameter: K 235 [N/mm²]
Safety coefficient: S 1.5
Fatigue strength: σSch/D 225 [N/mm²]
Tolerances: DIN EN 10305-1 (diameter-/wall thickness indication)
Tube length: 6 m

Note:
The pressure figures are based on straight tubes. The appropriate wall thickness needs to be calculated for tubes with bends as stipulated in DIN EN 13480-4.



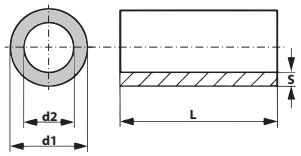
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Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
4.00	0.50	210	189	3.00	0.08	0.15	**PR04-0.5**
4.00	0.75	405	345	2.50	0.08	0.15	**PR04-0.75**
4.00	1.00	602	484	2.00	0.08	0.15	**PR04-1**
5.00	0.75	325	282	3.50	0.08	0.15	**PR05-0.75**
5.00	1.00	482	400	3.00	0.08	0.15	**PR05-1**

Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
6.00	0.75	286	251	4.50	0.08	0.12	**PR06-0.75**
6.00	1.00	416	352	4.00	0.08	0.12	**PR06-1**
6.00	1.50	663	524	3.00	0.08	0.15	**PR06-1.5**
6.00	2.00	924	683	2.00	0.08	0.15	**PR06-2**
6.00	2.25	1053	755	1.50	0.08	0.15	**PR06-2.25**
8.00	1.00	320	278	6.00	0.08	0.10	**PR08-1**
8.00	2.00	693	543	4.00	0.08	0.15	**PR08-2**
8.00	2.50	888	663	3.00	0.08	0.15	**PR08-2.5**
10.00	1.00	263	232	8.00	0.08	0.08	**PR10-1**
10.00	1.50	407	345	7.00	0.08	0.12	**PR10-1.5**
10.00	2.00	554	451	6.00	0.08	0.15	**PR10-2**
10.00	2.50	711	555	5.00	0.08	0.15	**PR10-2.5**
10.00	3.00	867	650	4.00	0.08	0.15	**PR10-3**
10.00	4.00	1178	820	2.00	0.08	0.15	**PR10-4**
12.00	1.00	219	196	10.00	0.08	0.08	**PR12-1**
12.00	1.50	344	297	9.00	0.08	0.10	**PR12-1.5**
12.00	2.00	469	391	8.00	0.08	0.12	**PR12-2**
12.00	2.50	592	477	7.00	0.08	0.15	**PR12-2.5**
12.00	3.00	723	562	6.00	0.08	0.15	**PR12-3**
12.00	4.00	984	717	4.00	0.08	0.15	**PR12-4**
14.00	1.00	187	169	12.00	0.08	0.08	**PR14-1**
14.00	1.50	299	262	11.00	0.08	0.08	**PR14-1.5**
14.00	2.00	407	345	10.00	0.08	0.10	**PR14-2**
14.00	2.50	514	423	9.00	0.08	0.12	**PR14-2.5**
14.00	3.00	619	495	8.00	0.08	0.15	**PR14-3**
14.00	3.50	731	568	7.00	0.08	0.15	**PR14-3.5**
15.00	1.00	175	159	13.00	0.08	0.08	**PR15-1**
15.00	1.50	279	246	12.00	0.08	0.08	**PR15-1.5**
15.00	2.00	380	324	11.00	0.08	0.10	**PR15-2**
15.00	2.50	480	398	10.00	0.08	0.12	**PR15-2.5**
15.00	3.00	578	467	9.00	0.08	0.15	**PR15-3**
16.00	1.00	164	149	14.00	0.08	0.08	**PR16-1**
16.00	1.50	262	231	13.00	0.08	0.08	**PR16-1.5**
16.00	2.00	346	298	12.00	0.08	0.15	**PR16-2**
16.00	2.50	450	377	11.00	0.08	0.12	**PR16-2.5**
16.00	3.00	542	442	10.00	0.08	0.15	**PR16-3**
16.00	4.00	738	572	8.00	0.08	0.15	**PR16-4**
18.00	1.00	146	133	16.00	0.08	0.08	**PR18-1**
18.00	1.50	233	207	15.00	0.08	0.08	**PR18-1.5**
18.00	2.00	320	278	14.00	0.08	0.08	**PR18-2**
18.00	2.50	395	335	13.00	0.08	0.15	**PR18-2.5**
18.00	3.00	482	400	12.00	0.08	0.15	**PR18-3**
18.00	4.00	656	519	10.00	0.08	0.15	**PR18-4**
20.00	1.50	209	188	17.00	0.08	0.08	**PR20-1.5**
20.00	2.00	288	252	16.00	0.08	0.08	**PR20-2**
20.00	2.50	355	305	15.00	0.08	0.15	**PR20-2.5**
20.00	3.00	433	364	14.00	0.08	0.15	**PR20-3**
20.00	3.50	512	421	13.00	0.08	0.15	**PR20-3.5**
20.00	4.00	590	475	12.00	0.08	0.15	**PR20-4**
22.00	1.00	119	109	20.00	0.08	0.08	**PR22-1**
22.00	1.50	190	172	19.00	0.08	0.08	**PR22-1.5**
22.00	2.00	262	231	18.00	0.08	0.08	**PR22-2**
22.00	2.50	333	288	17.00	0.08	0.08	**PR22-2.5**
22.00	3.00	394	335	16.00	0.08	0.15	**PR22-3**
25.00	1.00	105	97	23.00	0.08	0.08	**PR25-1**
25.00	1.50	167	152	22.00	0.08	0.08	**PR25-1.5**
25.00	2.00	230	205	21.00	0.08	0.08	**PR25-2**
25.00	2.50	293	256	20.00	0.08	0.08	**PR25-2.5**
25.00	3.00	347	299	19.00	0.08	0.15	**PR25-3**
25.00	3.50	409	347	18.00	0.08	0.15	**PR25-3.5**
25.00	4.00	472	393	17.00	0.08	0.15	**PR25-4**

Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
25.00	4.50	535	437	16.00	0.08	0.15	**PR25-4.5**
25.00	5.00	597	480	15.00	0.08	0.15	**PR25-5**
28.00	1.00	93	87	26.00	0.08	0.08	**PR28-1**
28.00	1.50	149	136	25.00	0.08	0.08	**PR28-1.5**
28.00	2.00	205	184	24.00	0.08	0.08	**PR28-2**
28.00	2.50	261	231	23.00	0.08	0.08	**PR28-2.5**
28.00	3.00	309	270	22.00	0.08	0.15	**PR28-3**
28.00	3.50	365	313	21.00	0.08	0.15	**PR28-3.5**
28.00	4.00	421	355	20.00	0.08	0.15	**PR28-4**
28.00	4.50	477	396	19.00	0.08	0.15	**PR28-4.5**
28.00	5.00	533	436	18.00	0.08	0.15	**PR28-5**
30.00	1.50	139	128	27.00	0.08	0.08	**PR30-1.5**
30.00	2.00	192	173	26.00	0.08	0.08	**PR30-2**
30.00	2.50	244	217	25.00	0.08	0.08	**PR30-2.5**
30.00	3.00	289	253	24.00	0.08	0.15	**PR30-3**
30.00	4.00	393	334	22.00	0.08	0.15	**PR30-4**
30.00	5.00	498	411	20.00	0.08	0.15	**PR30-5**
30.00	6.00	595	478	18.00	0.15	0.15	**PR30-6**
32.00	1.50	131	120	29.00	0.08	0.08	**PR32-1.5**
35.00	2.00	152	138	31.00	0.15	0.15	**PR35-2**
35.00	2.50	196	177	30.00	0.15	0.15	**PR35-2.5**
35.00	3.00	241	214	29.00	0.15	0.15	**PR35-3**
35.00	4.00	331	286	27.00	0.15	0.15	**PR35-4**
35.00	5.00	420	355	25.00	0.15	0.15	**PR35-5**
35.00	6.00	510	420	23.00	0.15	0.15	**PR35-6**
38.00	2.50	181	163	33.00	0.15	0.15	**PR38-2.5**
38.00	3.00	222	198	32.00	0.15	0.15	**PR38-3**
38.00	4.00	305	266	30.00	0.15	0.15	**PR38-4**
38.00	5.00	387	330	28.00	0.15	0.15	**PR38-5**
38.00	6.00	469	391	26.00	0.15	0.15	**PR38-6**
38.00	7.00	552	449	24.00	0.15	0.15	**PR38-7**
42.00	2.00	119	109	38.00	0.20	0.20	**PR42-2**
42.00	3.00	193	174	36.00	0.20	0.20	**PR42-3**
42.00	4.00	268	236	34.00	0.20	0.20	**PR42-4**
42.00	5.00	343	296	32.00	0.20	0.20	**PR42-5**
45.00	5.00	320	278	35.00	0.20	0.20	**PR45-5**
50.00	4.00	225	201	42.00	0.20	0.20	**PR50-4**
50.00	5.00	288	252	40.00	0.20	0.20	**PR50-5**
50.00	6.00	350	302	38.00	0.20	0.20	**PR50-6**
60.00	3.00	130	119	54.00	0.25	0.25	**PR60-3**
60.00	4.00	182	165	52.00	0.25	0.25	**PR60-4**
60.00	10.00	496	410	40.00	0.25	0.25	**PR60-10**
65.00	8.00	356	306	49.00	0.30	0.30	**PR65-8**
80.00	10.00	364	312	60.00	0.35	0.35	**PR80-10**





Stainless steel tube, acc. EN 10216-5 (seamless), metric, X5CrNi18-10 (1.4301)

Construction type: precision steel tube, seamless, (cold-drawn), metric

Standard: DIN EN 10216-5

Surface: CFD (descaled, metallic clean) / CFA (bright annealed, bright annealed)

Material: stainless steel X5CrNi18-10 (1.4301)

Additional information:
Calculation analog DIN 2413
Specific load I: static (up to 120 °C)
Specific load III: dynamic (up to 120°C) working stroke= P bar
Strength parameter: K 218 [N/mm²]
Safety coefficient: S 1.5
Fatigue strength: σSch/D 175 [N/mm²]
Tolerances: DIN EN 10305-1 (diameter-/wall thickness indication)
Elastic strength to DIN DIN 10216-5 Rp 1.0 to 50°C
The fatigue strength value was reduced in relation to the strength parameter by 1.4571.

Tube length: 5 to 7 metres*.

Note:
The pressure figures are based on straight tubes. The appropriate wall thickness needs to be calculated for tubes with bends as stipulated in DIN EN 13480-4.
*Stainless steel tubes are supplied in manufactured lengths according to EN 10216-5. In terms of production, these are usually 6 meters (+/- 1m). Order quantities are rounded to the nearest possible total length, without cutting.

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Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm			mm			
4.00	1.00	558	376	2.00	0.08	0.15	PR04-1V1
5.00	1.00	447	311	3.00	0.08	0.15	PR05-1V1
6.00	1.00	372	265	4.00	0.08	0.15	PR06-1V1
6.00	1.50	610	405	3.00	0.08	0.15	PR06-1.5V1
8.00	1.00	279	204	6.00	0.08	0.15	PR08-1V1
8.00	1.50	460	319	5.00	0.08	0.15	PR08-1.5V1
10.00	1.00	223	166	8.00	0.08	0.15	PR10-1V1
10.00	1.50	369	262	7.00	0.08	0.15	PR10-1.5V1
12.00	1.00	186	140	10.00	0.08	0.15	PR12-1V1
12.00	1.50	307	223	9.00	0.08	0.15	PR12-1.5V1
12.00	2.00	428	299	8.00	0.08	0.15	PR12-2V1
12.00	3.00	670	436	6.00	0.08	0.15	PR12-3V1
14.00	2.00	367	261	10.00	0.08	0.15	PR14-2V1
14.00	3.00	575	395	8.00	0.08	0.15	PR14-3V1
15.00	1.50	246	182	12.00	0.08	0.15	PR15-1.5V1
16.00	1.00	152	115	14.00	0.08	0.08	PR16-1V1
16.00	2.00	321	232	12.00	0.08	0.15	PR16-2V1
18.00	1.00	135	104	16.00	0.08	0.08	PR18-1V1
18.00	1.50	216	161	15.00	0.08	0.08	PR18-1.5V1
18.00	2.00	297	216	14.00	0.08	0.08	PR18-2V1
20.00	2.00	257	189	16.00	0.08	0.15	PR20-2V1
22.00	1.00	110	85	20.00	0.08	0.08	PR22-1V1
22.00	1.50	176	133	19.00	0.08	0.08	PR22-1.5V1
22.00	2.00	233	173	18.00	0.08	0.15	PR22-2V1
24.00	2.00	214	160	20.00	0.08	0.15	PR24-2V1
25.00	5.00	554	373	15.00	0.08	0.15	PR25-5V1
28.00	1.00	87	67	26.00	0.08	0.08	PR28-1V1
28.00	2.00	191	143	24.00	0.08	0.08	PR28-2V1
28.00	3.00	287	210	22.00	0.08	0.15	PR28-3V1
28.00	4.00	384	272	20.00	0.15	0.15	PR28-4V1
30.00	2.00	178	134	26.00	0.08	0.08	PR30-2V1
30.00	3.00	275	201	24.00	0.08	0.08	PR30-3V1
30.00	4.00	358	256	22.00	0.15	0.15	PR30-4V1
30.00	5.00	450	313	20.00	0.15	0.20	PR30-5V1
38.00	4.00	277	204	30.00	0.15	0.20	PR38-4V1
40.00	4.00	265	195	32.00	0.15	0.20	PR40-4V1
40.00	5.00	337	243	30.00	0.15	0.20	PR40-5V1
50.00	1.50	63	50	47.00	0.20	0.20	PR50-1.5V1

Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm			mm			
50.00	2.00	93	72	46.00	0.20	0.20	**PR50-2V1**
55.00	2.50	105	81	50.00	0.25	0.25	**PR55-2.5V1**
57.00	2.00	76	59	53.00	0.25	0.25	**PR57-2V1**
64.00	2.00	68	53	60.00	0.25	0.25	**PR64-2V1**
70.00	2.00	62	48	66.00	0.25	0.25	**PR70-2V1**
84.00	2.00	41	32	80.00	0.40	0.40	**PR84-2V1**

Stainless steel tube, acc. EN 10216-5 (seamless), metric, X6CrNiTi18-10 (1.4541)



Construction type: precision steel tube, seamless, (cold-drawn), metric

Standard: DIN EN 10216-5

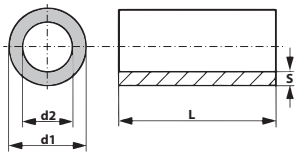
Surface: CFD (descaled, metallic clean) / CFA (bright annealed, bright annealed)

Material: stainless steel X6CrNiTi18-10 (1.4541)

Additional information: Calculation analog DIN 2413
Specific load I: static (up to 120 °C)
Load case III: dynamic (up to 120 °C) stress range = P bar
Strength parameter: K 222 [N/mm²]
Safety coefficient: S 1.5
Fatigue strength: σSch/D 225 [N/mm²]
Tolerances: DIN EN 10305-1 (diameter-/wall thickness indication)
Elastic strength to DIN DIN 10216-5 Rp 1.0 to 50°C
The fatigue strength value was reduced in relation to the strength parameter by 1.4571.

Tube length: 5 to 7 metres*.

Note:
The pressure figures are based on straight tubes. The appropriate wall thickness needs to be calculated for tubes with bends as stipulated in DIN EN 13480-4.
*Stainless steel tubes are supplied in manufactured lengths according to EN 10216-5. In terms of production, these are usually 6 meters (+/- 1m). Order quantities are rounded to the nearest possible total length, without cutting.



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Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
4.00	1.00	567	387	2.00	0.08	0.15	**PR04-1V2**
6.00	1.00	379	272	4.00	0.08	0.15	**PR06-1V2**
6.00	1.50	626	419	3.00	0.08	0.15	**PR06-1.5V2**
8.00	1.00	284	210	6.00	0.08	0.15	**PR08-1V2**
8.00	1.50	469	328	5.00	0.08	0.15	**PR08-1.5V2**
10.00	1.00	227	171	8.00	0.08	0.15	**PR10-1V2**
10.00	1.50	375	270	7.00	0.08	0.15	**PR10-1.5V2**
10.00	2.00	523	360	6.00	0.08	0.15	**PR10-2V2**
12.00	1.00	189	144	10.00	0.08	0.15	**PR12-1V2**
12.00	1.50	313	229	9.00	0.08	0.15	**PR12-1.5V2**
12.00	2.00	436	308	8.00	0.08	0.15	**PR12-2V2**
14.00	1.00	162	125	12.00	0.08	0.15	**PR14-1V2**
14.00	2.00	374	269	10.00	0.08	0.15	**PR14-2V2**
14.00	2.50	478	334	9.00	0.08	0.15	**PR14-2.5V2**
15.00	1.00	165	127	13.00	0.08	0.08	**PR15-1V2**
15.00	1.50	250	187	12.00	0.08	0.15	**PR15-1.5V2**
15.00	2.00	349	253	11.00	0.08	0.15	**PR15-2V2**
15.00	2.50	447	315	10.00	0.08	0.15	**PR15-2.5V2**
16.00	1.00	155	119	14.00	0.08	0.15	**PR16-1V2**
16.00	1.50	234	176	13.00	0.08	0.15	**PR16-1.5V2**
16.00	2.00	327	239	12.00	0.08	0.15	**PR16-2V2**
18.00	1.00	138	107	16.00	0.08	0.08	**PR18-1V2**
18.00	1.50	220	166	15.00	0.08	0.08	**PR18-1.5V2**
18.00	2.00	302	222	14.00	0.08	0.08	**PR18-2V2**

Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm	bar	bar	mm	mm	mm	
18.00	2.50	373	268	13.00	0.08	0.15	**PR18-2.5V2**
20.00	1.00	124	96	18.00	0.08	0.08	**PR20-1V2**
20.00	1.50	187	143	17.00	0.08	0.15	**PR20-1.5V2**
20.00	2.00	261	195	16.00	0.08	0.15	**PR20-2V2**
20.00	2.50	335	244	15.00	0.08	0.15	**PR20-2.5V2**
20.00	3.00	420	298	14.00	0.08	0.08	**PR20-3V2**
20.00	4.00	557	380	12.00	0.08	0.15	**PR20-4V2**
22.00	1.00	113	88	20.00	0.08	0.08	**PR22-1V2**
22.00	1.50	180	137	19.00	0.08	0.08	**PR22-1.5V2**
22.00	2.00	238	178	18.00	0.08	0.15	**PR22-2V2**
22.00	2.50	305	224	17.00	0.08	0.15	**PR22-2.5V2**
22.00	3.00	372	268	16.00	0.08	0.15	**PR22-3V2**
25.00	2.00	217	164	21.00	0.08	0.08	**PR25-2V2**
25.00	2.50	277	205	20.00	0.08	0.08	**PR25-2.5V2**
25.00	3.00	336	244	19.00	0.08	0.08	**PR25-3V2**
25.00	4.00	446	314	17.00	0.08	0.15	**PR25-4V2**
28.00	1.00	88	69	26.00	0.08	0.08	**PR28-1V2**
28.00	2.00	194	147	24.00	0.08	0.08	**PR28-2V2**
28.00	2.50	247	185	23.00	0.08	0.08	**PR28-2.5V2**
28.00	3.00	292	216	22.00	0.08	0.15	**PR28-3V2**
28.00	4.00	398	284	20.00	0.08	0.15	**PR28-4V2**
30.00	1.50	132	102	27.00	0.08	0.08	**PR30-1.5V2**
30.00	2.00	181	138	26.00	0.08	0.08	**PR30-2V2**
30.00	2.50	216	154	25.00	0.15	0.15	**PR30-2.5V2**
30.00	3.00	273	202	24.00	0.08	0.15	**PR30-3V2**
30.00	4.00	371	267	22.00	0.08	0.15	**PR30-4V2**
32.00	1.50	110	86	29.00	0.15	0.15	**PR32-1.5V2**
32.00	2.00	157	121	28.00	0.15	0.15	**PR32-2V2**
34.00	2.00	147	114	30.00	0.15	0.15	**PR34-2V2**
35.00	1.50	101	79	32.00	0.15	0.15	**PR35-1.5V2**
38.00	2.00	132	102	34.00	0.15	0.15	**PR38-2V2**
38.00	3.00	210	159	32.00	0.15	0.15	**PR38-3V2**
38.00	4.00	288	212	30.00	0.15	0.15	**PR38-4V2**
38.00	5.00	366	264	28.00	0.15	0.15	**PR38-5V2**
40.00	1.50	87	69	37.00	0.15	0.15	**PR40-1.5V2**
42.00	2.00	112	88	38.00	0.20	0.20	**PR42-2V2**
42.00	3.00	183	139	36.00	0.15	0.15	**PR42-3V2**
54.00	2.00	82	64	50.00	0.25	0.25	**PR54-2V2**

Stainless steel tube, acc. EN 10216-5 (seamless), metric, X6CrNiMoTi17-12-2 (1.4571)



Construction type: precision steel tube, seamless, (cold-drawn), metric

Standard: DIN EN 10216-5

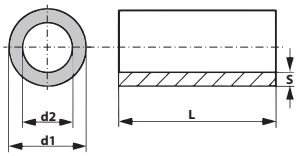
Surface: CFD (descaled, metallic clean) / CFA (bright annealed, bright annealed)

Material: stainless steel X6CrNiMoTi17-12-2 (1.4571)

Additional information:
Calculation analog DIN 2413
Specific load I: static (up to 120 °C)
Load case III: dynamic (up to 120 °C) stress range = P bar
Strength parameter: K 234 [N/mm²]
Safety coefficient: S 1.5
Fatigue strength: σSch/D 190 [N/mm²]
Tolerances: DIN EN 10305-1 (diameter-/wall thickness indication)
Elastic strength to DIN DIN 10216-5 Rp 1.0 to 50°C

Tube length: 5 to 7 metres*.

Note:
The pressure figures are based on straight tubes. The appropriate wall thickness needs to be calculated for tubes with bends as stipulated in DIN EN 13480-4.
*Stainless steel tubes are supplied in manufactured lengths according to EN 10216-5. In terms of production, these are usually 6 meters (+/- 1m). Order quantities are rounded to the nearest possible total length, without cutting.



www ...PRV4(M)

Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm			mm			
4.00	1.00	600	408	2.00	0.08	0.15	PR04-1V4
6.00	0.50	140	109	5.00	0.08	0.15	PR06-0.5V4
6.00	1.00	400	287	4.00	0.08	0.15	PR06-1V4
6.00	1.50	660	442	3.00	0.08	0.15	PR06-1.5V4
6.00	2.00	915	575	2.00	0.08	0.15	PR06-2V4
8.00	1.00	300	222	6.00	0.08	0.15	PR08-1V4
8.00	1.50	495	347	5.00	0.08	0.15	PR08-1.5V4
8.00	2.00	690	458	4.00	0.08	0.15	PR08-2V4
10.00	0.50	105	81	9.00	0.08	0.08	PR10-0.5V4
10.00	1.00	240	181	8.00	0.08	0.15	PR10-1V4
10.00	1.50	396	285	7.00	0.08	0.15	PR10-1.5V4
10.00	2.00	552	380	6.00	0.08	0.15	PR10-2V4
12.00	1.00	200	152	10.00	0.08	0.15	PR12-1V4
12.00	1.50	330	242	9.00	0.08	0.15	PR12-1.5V4
12.00	2.00	460	325	8.00	0.08	0.15	PR12-2V4
12.00	3.00	694	461	6.00	0.08	0.25	PR12-3V4
14.00	1.50	283	210	11.00	0.08	0.15	PR14-1.5V4
14.00	2.00	394	284	10.00	0.08	0.15	PR14-2V4
14.00	2.50	505	353	9.00	0.08	0.15	PR14-2.5V4
15.00	1.00	174	134	13.00	0.08	0.08	PR15-1V4
15.00	1.50	264	197	12.00	0.08	0.15	PR15-1.5V4
15.00	2.00	368	267	11.00	0.08	0.15	PR15-2V4
16.00	1.50	261	195	13.00	0.08	0.08	PR16-1.5V4
16.00	2.00	345	252	12.00	0.08	0.15	PR16-2V4
16.00	2.50	442	314	11.00	0.08	0.15	PR16-2.5V4
16.00	3.00	540	373	10.00	0.08	0.15	PR16-3V4
18.00	1.00	145	112	16.00	0.08	0.08	PR18-1V4
18.00	1.50	232	175	15.00	0.08	0.08	PR18-1.5V4
18.00	2.00	318	234	14.00	0.08	0.08	PR18-2V4
18.00	2.50	393	283	13.00	0.08	0.15	PR18-2.5V4
20.00	2.00	287	213	16.00	0.08	0.08	PR20-2V4
20.00	2.50	354	258	15.00	0.08	0.15	PR20-2.5V4
20.00	3.00	432	308	14.00	0.08	0.15	PR20-3V4
20.00	3.50	510	355	13.00	0.08	0.15	PR20-3.5V4
22.00	1.50	190	145	19.00	0.08	0.08	PR22-1.5V4
22.00	2.00	260	195	18.00	0.08	0.08	PR22-2V4
22.00	2.50	321	236	17.00	0.08	0.15	PR22-2.5V4
22.00	3.00	392	283	16.00	0.08	0.15	PR22-3V4
22.00	4.00	534	370	14.00	0.08	0.15	PR22-4V4
25.00	1.50	167	128	22.00	0.08	0.08	PR25-1.5V4

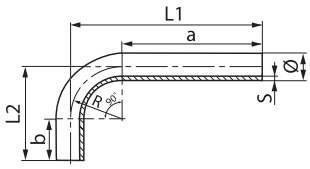
Ø d1	S	Specific load I	Specific load III	Ø d2	AD tolerance +/-	ID tolerance +/-	Item no.
mm	mm			mm			
25.00	2.00	229	173	21.00	0.08	0.08	**PR25-2V4**
25.00	2.50	292	216	20.00	0.08	0.08	**PR25-2.5V4**
25.00	3.00	345	252	19.00	0.08	0.15	**PR25-3V4**
25.00	4.00	470	331	17.00	0.08	0.15	**PR25-4V4**
28.00	1.50	149	115	25.00	0.08	0.08	**PR28-1.5V4**
28.00	2.00	205	156	24.00	0.08	0.08	**PR28-2V4**
28.00	2.50	260	195	23.00	0.08	0.08	**PR28-2.5V4**
30.00	2.00	191	146	26.00	0.08	0.08	**PR30-2V4**
30.00	2.50	243	183	25.00	0.08	0.08	**PR30-2.5V4**
30.00	3.00	288	214	24.00	0.08	0.15	**PR30-3V4**
30.00	4.00	392	282	22.00	0.08	0.15	**PR30-4V4**
30.00	5.00	496	347	20.00	0.08	0.15	**PR30-5V4**
35.00	1.50	119	93	32.00	0.08	0.08	**PR35-1.5V4**
35.00	2.00	151	117	31.00	0.15	0.15	**PR35-2V4**
35.00	2.50	196	149	30.00	0.15	0.15	**PR35-2.5V4**
35.00	3.00	240	181	29.00	0.15	0.15	**PR35-3V4**
35.00	4.00	329	242	27.00	0.15	0.15	**PR35-4V4**
35.00	5.00	418	299	25.00	0.15	0.15	**PR35-5V4**
38.00	3.00	221	168	32.00	0.15	0.15	**PR38-3V4**
38.00	4.00	303	224	30.00	0.15	0.15	**PR38-4V4**
38.00	5.00	385	278	28.00	0.15	0.15	**PR38-5V4**
38.00	6.00	468	330	26.00	0.15	0.15	**PR38-6V4**
42.00	2.00	118	92	38.00	0.20	0.20	**PR42-2V4**
42.00	3.00	193	147	36.00	0.20	0.20	**PR42-3V4**



Tube elbow 90°

Item description: Seamless tube bends 90° for minimum loss of flow.
Construction type: tube bend 90°
Standard: DIN 2391-C
Surface: phosphate treated and oiled
Material: steel E235+N / ST 37.4 (1.0255)

...RB



Tube outer Ø	Inside Ø	Radius R	a	L1	S	b	L2	Item no.
mm	mm	mm	mm	mm	mm	mm	mm	
6.0	3.0	12	68.0	80.0	1.50	48.0	60.0	**RB06-1.5**
8.0	5.0	16	84.0	100.0	1.50	44.0	60.0	**RB08-1.5**
10.0	6.0	20	210.0	230.0	2.00	50.0	70.0	**RB10-2**
12.0	8.0	24	206.0	230.0	2.00	46.0	70.0	**RB12-2**
14.0	11.0	28	202.0	230.0	1.50	42.0	70.0	**RB14-1.5**
15.0	12.0	30	200.0	230.0	1.50	40.0	70.0	**RB15-1.5**
15.0	11.0	30	200.0	230.0	2.00	40.0	70.0	**RB15-2**
16.0	12.0	32	198.0	230.0	2.00	38.0	70.0	**RB16-2**
18.0	15.0	36	200.0	236.0	1.50	35.0	71.0	**RB18-1.5**
18.0	14.0	36	200.0	236.0	2.00	36.0	72.0	**RB18-2**
20.0	16.0	40	196.0	236.0	2.00	41.0	81.0	**RB20-2**
20.0	15.0	40	196.0	236.0	2.50	41.0	81.0	**RB20-2.5**
20.0	14.0	40	196.0	236.0	3.00	41.0	81.0	**RB20-3**
22.0	19.0	44	194.0	238.0	1.50	34.0	78.0	**RB22-1.5**
22.0	18.0	44	194.0	238.0	2.00	34.0	78.0	**RB22-2**
22.0	17.0	44	194.0	238.0	2.50	34.0	78.0	**RB22-2.5**
22.0	15.0	44	194.0	238.0	3.50	34.0	78.0	**RB22-3.5**
25.0	21.0	50	194.0	244.0	2.00	44.0	94.0	**RB25-2**
25.0	20.0	50	194.0	244.0	2.50	44.0	94.0	**RB25-2.5**
25.0	19.0	50	194.0	244.0	3.00	44.0	94.0	**RB25-3**

Tube outer Ø	Inside Ø	Radius R	a	L1	S	b	L2	Item no.
mm	mm	mm	mm	mm	mm	mm	mm	
25.0	17.0	50	194.0	244.0	4.00	44.0	94.0	**RB25-4**
28.0	25.0	56	192.0	248.0	1.50	42.0	98.0	**RB28-1.5**
28.0	24.0	56	192.0	248.0	2.00	42.0	98.0	**RB28-2**
28.0	22.0	56	192.0	248.0	3.00	42.0	98.0	**RB28-3**
30.0	25.0	60	190.0	250.0	2.50	50.0	110.0	**RB30-2.5**
30.0	24.0	60	190.0	250.0	3.00	50.0	110.0	**RB30-3**
30.0	22.0	60	190.0	250.0	4.00	50.0	110.0	**RB30-4**
35.0	31.0	70	190.0	260.0	2.00	55.0	125.0	**RB35-2**
35.0	29.0	70	190.0	260.0	3.00	55.0	125.0	**RB35-3**
38.0	33.0	76	189.0	265.0	2.50	64.0	140.0	**RB38-2.5**
38.0	32.0	76	189.0	265.0	3.00	64.0	140.0	**RB38-3**
38.0	30.0	76	189.0	265.0	4.00	64.0	140.0	**RB38-4**
38.0	28.0	76	189.0	265.0	5.00	64.0	140.0	**RB38-5**
42.0	38.0	84	196.0	280.0	2.00	81.0	165.0	**RB42-2**
42.0	36.0	84	196.0	280.0	3.00	81.0	165.0	**RB42-3**
50.0	38.0	75	235.0	310.0	6.00	235.0	310.0	**RB50-6**
65.0	49.0	130	190.0	320.0	8.00	190.0	320.0	**RB65-8**
80.0	60.0	150	180.0	330.0	10.00	180.0	330.0	**RB80-10**

Accessories and tools



Assembly accessories

Adhesives and sealants	494
Assembly aids	496
Technical sprays	498

Tools

Manual bending tools and accessories	502
Assembly tools and test equipment	506



PTFE sealing tape

Item description: HANSA-FLEX TFBAND is a DVGW-tested PTFE thread sealing tape, for fine and coarse threads for almost all media.

Standard: DIN EN 751-3

Temp. range: -240 °C to +260 °C.

Note:
Not suitable for sealing connections whose threads do not seal independently, such as cylindrical threads. Suitable sealing washers, sealing edge rings or O-rings should be used for sealing cylindrical threads. In connection with DVGW approval and special media, deviating temperature ranges are possible.

www ...TFBAND

Width	Length	Strength	Item no.
mm	m	mm	
12	12.00	0.10	**TFBAND**



Sealant

Application: Degrease parts for optimum results.
Shake well before use.
Apply the adhesive and sealant evenly, the parts may now be assembled immediately.
The air in the bottle, keeps the adhesive and sealant in a fluid state.

Item description: HANSA-FLEX AN305-42 is a hydraulic and pneumatic sealant, medium strength, normally removable, for threaded connections up to M 20 / R 3/4".
Gap up to max. 0.15 mm.
Not approved for domestic gas installations in Germany according to DVGW-TRGI.

Features: High quality anaerobic adhesive and sealant based on a special methacrylate resin.
Specially designed for the economic sealing of screw and flange connections.
After it has cured, the connection is vibration and shock-resistant.

Temp. range: -60 °C to +150 °C

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...AN305-42

Content	Item no.
ml	
50	**AN305-42**

Sealant DVGW



Application: Degrease parts for optimum results.
Shake well before use.
Apply the adhesive and sealant evenly, the parts may now be assembled immediately.
The air in the bottle, keeps the adhesive and sealant in a fluid state.

Item description: HANSA-FLEX AN305-72 is a tube and thread sealant (with PTFE), medium strength, normally removable, for threaded connections up to M 80 / R 3".
Gap up to max. 0.40 mm.
DVGW (TZW) test certificate for use with drinking water in accordance with the KTW recommendations.
Certified for gas systems according to DVGW.
Not approved for domestic gas installations in Germany according to DVGW-TRGI.

Features: High quality anaerobic adhesive and sealant based on a special methacrylate resin.
Specially designed for the economic sealing of screw and flange connections.
After it has cured, the connection is vibration and shock-resistant.

Temp. range: -60 °C to +150 °C

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...AN305-72

Content	Item no.
ml	
50	AN305-72

5



Fitting paste

Application: Clean surfaces thoroughly and degrease. For example, with HANSA-FLEX degreasing spray. Then apply the paste evenly.
Mounting Paste 450 is only suitable for specific applications, it does not replace oil or grease lubrication.

Item description: HANSA-FLEX MONTAGEPASTE450 is a high-performance paste that protects against corrosion. Areas of application are dynamically extremely stressed screw connections and assembly parts as well as slow-rotating systems, in the high-temperature range.

Features: Prevents corrosion, fretting corrosion, oxidation and wear.
Prevents seizing and cold welding.
Good sealing and barrier properties, against liquid media.
Reduces friction and stick-slipping.

Temp. range: -40 °C to +1400 °C

Additional information: The exceptionally good separating effect of the assembly paste is particularly evident with high-alloy steels and when using different metals. The product is characterised by a high pressure absorption capacity (< 230 N/mm²). The assembly paste is resistant to fresh, sea and hot water, water vapour, alkaline and slightly acidic media as well as being adhesive and water-repellent. In addition, the product is free of sulphur-containing additives and halogens. If the use of metallic products may be undesirable for optical reasons, as well as nickel-based products for health reasons and copper-based products for electrochemical reasons, then this assembly paste is particularly suitable.

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...MONTAGEPASTE

Design	Item no.
g	
450	MONTAGEPASTE450

Fitting spray



Application: Clean surfaces thoroughly and degrease. For example, with HANSA-FLEX degreasing spray. Allow the product to warm up to room temperature for flawless spraying performance. Shake can before use, until you can hear the agitator ball. Spray on at a distance of approx. 15 cm. Assembly Spray 400 is only suitable for use with specific materials, it is not a substitute for oil or grease lubrication.

Item description: HANSA-FLEX MONTAGESPRAY400 is an assembly aid for screw connections and assembly parts subject to extreme dynamic stress as well as slow-rotating systems in the high-temperature range.

Features: Prevents corrosion, fretting corrosion, oxidation and wear.
Prevents seizing and cold welding.
Good sealing and barrier properties, against liquid media.
Reduces friction and stick-slipping.

Temp. range: -40 °C to +1400 °C

Additional information: Special additives and the minute ceramic solid lubricants, guarantee special product properties. The product is characterised by its pressure absorption capacity (< 230 N/mm²). The assembly spray is metal-free, (up to max. 0.1 % content). It is resistant to fresh, sea and hot water, steam, alkaline and weakly acidic media, as well as being adhesive and water-repellent. In addition, the product is free of sulphur-containing additives and halogens.

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...MONTAGESPRAY

Content	Item no.
ml	
400	**MONTAGESPRAY400**



Corrosion protecting spray

Application: Clean surfaces thoroughly and degrease. For example, with HANSA-FLEX degreasing spray.
Allow the product to warm up to room temperature for flawless spraying performance.
Shake can before use, until you can hear the agitator ball.
At room temperature, spray evenly in a criss-cross pattern at a distance of approx. 20 cm.
To enhance corrosion protection, several layers may be applied.
After approximately 3 - 4 hours, the coating is fully cured at room temperature.
The protective film can be removed with cleaning spray, for example.

Item description: HANSA-FLEX CORROSCHUTZSPRAY is based on synthetic wax and special additives.
It can thus be used both for temporary corrosion protection and also to preserve uncoated bare metal parts.

Features: Adheres to all metal surfaces and leaves a non-slip, flexible and silicone-free protective film. The coating is resistant to e.g., salt water (240 h salt spray test according to DIN 50021).

Temp. range: -20 °C to +80 °C

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...CORROSCHUTZ

Content	Item no.
ml	
400	CORROSCHUTZSPRAY



Degreaser spray

Application: Generously spray onto the parts you want to degrease and allow it time to take effect.
Use a clean cloth to wipe away any dissolved dirt if necessary.
For stubborn stains, apply several times.
Protect O-rings and seals and avoid longer periods of exposure.

Item description: HANSA-FLEX ENTFETTERSPRAY quickly, cleanly and reliably degreases all types of hydraulic components from oils, greases and lubricants.

Features: The degreaser spray evaporates residue-free and leaves no residues on the treated workpieces.

Additional information: Applications include rotary and tube connections, adaptors and couplings, hydraulic tubes, high-pressure flanges and much more.

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...ENTFETTER

Content	Item no.
ml	
500	ENTFETTERSPRAY

Mould release spray



Application: Before using the mould release spray, make sure that the surfaces being treated are grease-free, dry and clean.
In this case, HANSA-FLEX ENTFETTERSPRAY can be used, for example.
Shake the mould release spray well and spray on evenly from a distance of approx. 25 cm.
The special valve means that you can use the spray in any position.

Item description: HANSA-FLEX FORMENTRENNSPRAY is a silicone-free separating agent with excellent sliding properties.
The high-quality combination of active ingredients, consisting of pure natural products, prevents adhesion to plastics, moulds, metals and tools in the temperature range.

Temp. range: -20 °C to +130 °C.

Additional information: Free of PCB, CFC and formaldehyde. The removed workpieces can then normally be painted, printed or bonded.

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...FORMENTRENN

Content	Item no.
ml	
400	**FORMENTRENNSPRAY**



Multifunction spray

Application: Shake can before use, until you can hear the agitator ball.
Then spray HANSA-FLEX MULTISPRAY 44 onto the surface from a distance of about 5 cm and allow about 30 seconds for it to take effect.

Item description: HANSA-FLEX MULTISPRAY 44 is used in all industrial and workshop areas. Its special active formula and excellent creep properties combine corrosion protection, cleaning, water displacement, lubrication and preservation in one product.

Temp. range: -50 °C to +210 °C

Additional information: The Multi-Function spray withstands weather influences and therefore finds almost unlimited use in areas such as workshops, automotive, maritime transport, electrical and agricultural sectors, at home and during hobbies. Loosens rusted seized screw connections, bolts, fittings and valves. Penetrates and dissolves rust, dispels moisture from electrical contacts, prevents leakage currents and facilitates the starting of wet engines. Eliminates squeaking and creaking noises on hinges, guides, bearings and all types of joints and couplings. Cleans dirty metal surfaces and leaves a long-lasting film that does not smear or stick and does not attract dust. Protects and maintains all tools, machines, electrical devices and mechanical precision equipment, keeping them operational.

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...MULTISPRAY

Content	Item no.
ml	
400	MULTISPRAY44



Cleaner spray

Application: Spray the part to be cleaned thoroughly and leave to take effect; if necessary, wipe off with a clean cloth.
For stubborn stains, apply several times.
Protect plastic and painted surfaces.
The special valve means that you can use the spray in any position.

Item description: HANSA-FLEX REINIGER706 degreases all metals, glass, ceramics and most plastics.

Features: Thermoplastics such as PVC, PMMA (Plexiglas), polystyrene etc., as well as simple paintwork can be dissolved. Unlike conventional thinners, Cleaner Spray evaporates completely residue-free.

Additional information: For repair and assembly on brakes (drum/disc brakes, brake pads, brake blocks, cylinders, springs and bushings), clutches (clutch linings/parts), engine parts (carburetors, fuel/oil pumps, transmissions, etc). Before priming and painting.

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...REINIGER

Content	Item no.
ml	
500	REINIGER706

Brake cleaner spray



Application: Spray a sufficient amount onto the part to be treated and allow it to take effect.
If necessary, wipe with a clean cloth.
Repeat the process if necessary.
Avoid contact with plastic and painted surfaces.

Item description: HANSA-FLEX BREMSENREINIGER is a universal cleaner, e.g. for the automotive industry, which cleans, degreases and evaporates completely without leaving any residue.

Features: Quickly and effortlessly degreases and cleans metals, glass and many plastics. It removes oily and greasy dirt as well as residues.

Application: construction- & machinery components
brake system
gear manufacturing

Additional information: Brake Cleaner can be used on brakes (drum and disc brakes, brake pads, brake blocks, cylinders, springs and bushings), on clutches (clutch linings and parts) or on engine parts (carburetors, fuel and oil pumps, transmissions, etc).

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...BREMSENREINIGER

Content	Item no.
ml	
500	BREMSENREINIGER

Silicone spray



Application: Before use, clean and degrease surfaces.
Shake the can and spray from a distance of around 25 cm.

Item description: HANSA-FLEX SILICON-SPRAY is a lubricant- and release agent as well as a protection- and care agent for plastics, rubber and metal. Silicone Spray prevents the formation of adhesive residues on presses and guides, prevents products from sticking to conveyor belts, chutes and sliding ways, protects electrical contacts from moisture, preserves rubber, plastic and metal parts, protects rubber parts from becoming brittle, freezing and sticking and allows sunroof rails, seat tracks and seatbelt rollers to run smoothly.

Features: The spray ensures a long-lasting release film and a good surface finish.

Application: construction- & machinery components
brake system
gear manufacturing

Temp. range: -50 °C to +250 °C.

Additional information: Odour: solvent
Characteristics: silicone oil based
Storage: 24 months. Pressurised container. Protect from sunlight and temperatures above +50 °C
Colour: colourless

Note:
Safety and health:
When processing HANSA-FLEX products, the physical, safety, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

www ...SILICON-SPRAY

Content	Item no.
ml	
400	SILICON-SPRAY



Tube cutting tool

Application: for tube
Construction type: Tube cutting equipment 6 - 42
Material: steel

Note:
A right-angled cut and precise preparation of the tube will reduce leakages during installation.
The clamping piece stops the round cross-section of the tube from deforming when fixing it in place.
An interchangeable saw blade guide guarantees a perfect cut.

www ...AV

For tube outside Ø mm	Item no.
6 - 42	**AV06-42**



Tube bending with cutting tool

Construction type: Tube bending and cutting tool 6 - 12

www ...BAV

Bend for tube-OD max. mm	Bend for tube-OD min. mm	Saws for tube outside diameter	Item no.
12	6	06 to 12	**BAV06-12**

5

Tube bending tool



Application: The tube bending tool can be used wherever a defective pipe cannot or may not be replaced with a hydraulic hose.
If a pipe was previously fitted, a hydraulic hose should only be installed as a temporary solution.
If the bent pipe is professionally installed, it will remain in the position it is fitted.
The bending equipment can be used in the construction, agriculture and forestry sectors, as well as for municipal technology and service and maintenance work.

Item description: This extremely lightweight and flexible tube bending equipment, is designed for use either in the workshop or in the field and can be used to precisely bend flexible hydraulic tubes.
The set includes six bending rollers with radii of between 33.0 mm to 51.5 mm for tight installation sites.
The 650 mm long manual lever reduces the force required to bend the tubes and helps the user easily achieve bending angles of up to 180°.

Design: manual

Construction type: Tube bending tool 6 - 18

Mounting: In vice

Colour: silver

Scope of supply: A base plate for inserting into a vice.
A fixing roller (left-hand thread) as a tube stop
Six bending rollers for tubes with the following external diameters: Ø 6.0 - 8.0 mm, Ø 10 - 12 mm, Ø 14 mm, Ø 15 mm, Ø 16 mm and Ø 18.0 mm.
A bending lever with pressure roller
A printed product description and recommendations for use

Material: steel
aluminium

Note:
Please note that a good bending quality can only be achieved if the tube being bent is also made of a flexible material.
The HANSA-FLEX tubes made of steel and stainless steel from our online shop and branches fulfil these characteristics.
We recommend purchasing the tube bending tool in a robust metal box because you will be able to quickly see if all of the equipment is correctly packed away.

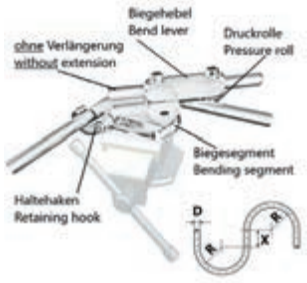
www ...BV

For tube outside Ø mm	Packaging	Item no.
06 - 18	in the box	**BV06-18**
06 - 18	in the metal case	**BV06-18M**

5

Tube bending tool





Application: The tube bending tool can be used wherever a defective pipe cannot or may not be replaced with a hydraulic hose.
If a pipe was previously fitted, a hydraulic hose should only be installed as a temporary solution.
If the bent pipe is professionally installed, it will remain in the position it is fitted.
The bending equipment can be used in the construction, agriculture and forestry sectors, as well as for municipal technology and service and maintenance work.

Item description: This robust tube bending equipment is designed for use either in the workshop or during service calls and can be used to precisely bend flexible hydraulic tubes.
The bending lever (with two pins) and the extension piece can be used to bend the tube segment into the desired shape quickly and easily.
Ovalisation of the cross-section of the tube is reduced by the contour clamp in the bending segment.
The bend radius of the segments are: r = 86.5 mm, x = 52 mm.

Design: manual

Construction type: Tube bending tool 20 - 25

Mounting: In vice

Colour: silver

Scope of supply: A fixing hook that serves as a pipe stop
Three bending segments 20, 22, 25 mm with holding pins for insertion into a vice
A bending lever with pressure roller (without extension)

Material: steel

Note:
Please note that a good bending quality can only be achieved if the tube being bent is also made of a flexible material.
The HANSA-FLEX tubes made of steel and stainless steel from our online shop and branches fulfil these characteristics.

www ...BV20-25OV

For tube outside Ø mm	Packaging	Item no.
20 - 25	in the box	**BV20-25**

Tube deburrer



Application: Application for tubes made of steel, stainless steel, copper, aluminium or plastic. Deburring of tubes: Inside and outside for steel, stainless steel, copper, brass, aluminium and plastic

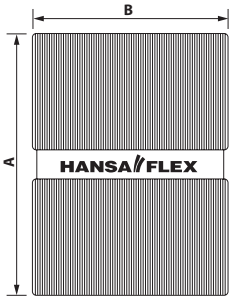
Item description: Universal tube deburrer.
Easy-grip outer knurl made of aluminium (professional quality).
Hardened and specially ground steel cutting edges.
Fast internal and external deburring / chamfering of tubes by hand.

Design: Aluminium grip outer rim

Construction type: Tube deburrer 6 - 35

Type: for internal and external deburring

Material: aluminium
steel



www ...ROHRENTGRATER

A	B	For tube outside Ø mm	For tube inside Ø mm	Item no.
60	48	6 - 35	4 - 30	**ROHRENTGRATER6-35**
85	70	10 - 54	8 - 50	**ROHRENTGRATER10-54**

Recommended use with:

Tube bending with cutting tool, BAV	Page 502
Tube bending tool, BV	Page 503
Cleaning projectile, PROJEKTIL	**...PROJEKTIL**
Cutting ring gauge, SRD LEHRE	Page 507
Pre-assembly stud, VOM	Page 506

5

Tube deburrer adaptor 6 - 35



Item description: The adaptor for holding hand deburrers 6-35, has a 1/4" hexagonal socket for standard hexagon drive drill chucks on drills and cordless screwdrivers. This tool takes strains off the craftsman and is easy on the wrists, when deburring a large number of tubes.

Design: Adaptor for tube deburrer 6 - 35 with hex drive, suitable for drills and cordless screwdrivers.

Construction type: In combination with the manual deburrer 6 - 35

Use: Combination with manual deburrer 6 - 35.

Material: injection moulded plastic
steel

www ...ROHRENTGRATADAPTER

D	L	Item no.
mm	mm	
50	90	**ROHRENTGRATADAPTER**

Accessories:

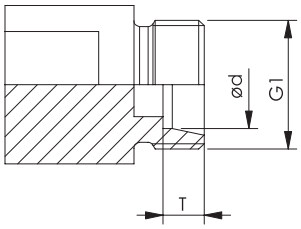
Tube bending tool, BV	Page 503
Cleaning projectile, PROJEKTIL	**...PROJEKTIL**
Cutting ring gauge, SRD LEHRE	Page 507
Pre-assembly stud, VOM	Page 506



Pre-assembly stud

Item description: For manual assembly of cutting rings
Construction type: Pre-assembly stud 4 - 42
Surface: phosphate treated
Material: hardened tool steel

Note:
Maintenance on site, vice required.
Use oil for steel or assembly paste for stainless steel.
Please note: Regularly check the assembly cone for wear (after 50 pre-assemblies)!
It must be replaced immediately if the thread or surface is damaged.



www ...VOM

Series	G1	T +/- 0.05	Ø d	Item no.
		mm	mm	
LL	M 8 x 1	4.0	4	VOM04LL
LL	M 10 x 1	5.5	6	VOM06LL
LL	M 12 x 1	5.5	8	VOM08LL
LL	M 14 x 1	7.0	10	VOM10LL
LL	M 16 x 1	7.0	12	VOM12LL
LL	M 22 x 1.5	7.0	16	VOM16LL
L	M 12 x 1.5	7.0	6	VOMNW04HL
L	M 14 x 1.5	7.0	8	VOMNW06HL
L	M 16 x 1.5	7.0	10	VOMNW08HL
L	M 18 x 1.5	7.0	12	VOMNW10HL
L	M 22 x 1.5	7.0	15	VOMNW13HL
L	M 26 x 1.5	7.5	18	VOMNW16HL
L	M 30 x 2	7.5	22	VOMNW20HL
L	M 36 x 2	7.5	28	VOMNW25HL
L	M 45 x 2	10.5	35	VOMNW32HL
L	M 52 x 2	11.0	42	VOMNW40HL
S	M 14 x 1.5	7.0	6	VOMNW03HS
S	M 16 x 1.5	7.0	8	VOMNW04HS
S	M 18 x 1.5	7.5	10	VOMNW06HS
S	M 20 x 1.5	7.5	12	VOMNW08HS
S	M 22 x 1.5	8.0	14	VOMNW10HS
S	M 24 x 1.5	8.5	16	VOMNW13HS
S	M 30 x 2	10.5	20	VOMNW16HS
S	M 36 x 2	12.0	25	VOMNW20HS
S	M 42 x 2	13.5	30	VOMNW25HS
S	M 52 x 2	16.0	38	VOMNW32HS

Cutting ring gauge



Item description: The HANSA-FLEX cutting ring gauge is suitable for checking the installation of HANSA-FLEX cutting rings of type SRD made of steel in sizes 10L to 42L and 14S to 38S when used together with steel tubes according to DIN EN 10305-4.
Furthermore, it allows the inspection of the tube cut.
You can use the cutting ring gauge to help determine whether the tube has been cut precisely at a right angle.
It is not suitable for use with cutting rings manufactured in stainless steel or for cutting rings sold by other companies.
Check for correct installation and also carry out a visual inspection of the shoulder.

Construction type: Cutting ring gauge 10 - 42 L and 14 - 38 S

Construction type addition: for steel cutting rings type SRD only

Material: stainless steel

Note:
Carry out a visual inspection for damage or wear at regular intervals and replace the cutting ring gauge if necessary.

www ...SRDLEHRE

Item no.
SRD-LEHRE

5

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SRS AF D, Stacking screw for double tube clamp, steel	470
SRS AF D V4, Stacking screw for double tube clamp, stainless steel	470
SRS AF PARA, Tube and hose clamp, stacking screw	476
SRS AS 30-100, Hexagon screw for single tube clamp, heavy series, steel	454
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SRS DP D V4, Cover plate for double tube clamp, stainless steel	461
SRS D SP 30-100, Double welded on base plate, single tube clamp, heavy series, steel	445
SRS EIN R PARA, Tube and hose clamp, insert for tube, snap-in function, polyamide, black	478
SRS EIN S PARA, Tube and hose clamp, insert for hose, snap-in function, polyamide, red	478
SRS IS 30-100, Hexagon socket screw, single tube clamp, heavy series, steel	455
SRS IS 30-100 V4, Hexagon socket screw, single tube clamp, heavy series, stainless steel	456
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SRS M TR D PARA, Tube and hose clamp, clamp centre section, snap-in function, tube, polyamide, black	476
SRS O TR D PARA, Tube and hose clamp, upper part of clamp, snap-in function, tube, polyamide, black	477
SRS SI, Locking plate for double tube clamp, steel	467
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SRS SIP, Locking plate for single tube clamp, heavy series, steel 453
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SRS SIS, Locking washer for single tube clamp, light series, steel 435
SRS SIS 30-100, Locking washer for single tube clamp, heavy series, steel 454
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SRS SI V4, Locking plate for double tube clamp, stainless steel 467
SRS SM, Mounting rail nut, light series, steel 439
SRS SM 30 - SRS SM 60, Mounting rail nut, single tube clamp, heavy series, steel 458
SRS SM 30 V4 - SRS SM 60 V4, Mounting rail nut, single tube clamp, heavy series, stainless steel 458
SRS SM 30 VZ - SRS SM 60 VZ, Mounting rail nut, single tube clamp, heavy series, steel galvanised 457
SRS SMD, Mounting rail nut, double tube clamp, steel 471
SRS SMD V4, Mounting rail nut, double tube clamp, stainless steel 471
SRS SM V4, Mounting rail nut, light series, stainless steel 440
SRS SP 30-100, Welded on base plate for single tube clamp, heavy series, steel 443
SRS SP 30-100 V4, Welded on base plate for single tube clamp, heavy series, stainless steel 444
SRS SP D, Welded on base plate for double tube clamp, steel 461
SRS SP D V4, Welded on base plate for double tube clamp, stainless steel 462
SRS SPL 30-100, Welded on and screw-on base plate, long, heavy series, steel 444
SRS SPR D, Series welded on base plate, double tube clamp, steel 462
SRS TS, Mounting rail, single and double tube clamp, light series, steel 440
SRS TS 40, Mounting rail, single tube clamp, heavy series, steel 459
SRS TS 40 V4, Mounting rail, single tube clamp, heavy series, stainless steel 459
SRS TS 40 VZ, Mounting rail, single tube clamp, heavy series, steel galvanised 460
SRS TS V4, Mounting rail, single and double tube clamp, light series, stainless steel 441
SRS TS VZ, Mounting rail, single and double tube clamp, light series, steel galvanised 441
SRS U TR D PARA, Tube and hose clamp, lower part of clamp, snap-in function, tube, polyamide, black 477
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SV HF, Bulkhead connector, French series 170
SV HJ, Bulkhead connector, ISO 8434-2, AGJ 37°, straight, steel 265
SV HJ HR ED, Bulkhead connector, ISO 8434-2, AGJ 37°, AGR soft seal, ISO 1179, type E, straight, steel 267
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SW 45 HJ, Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 45°, steel 266
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SW 90 HJ, Bulkhead connector, ISO 8434-2, AGJ 37°, elbow 90°, steel 267
SW HB, Bulkhead connector, ISO 8434-6, AGR 60°, elbow 90°, steel 361
SW HJOF, Bulkhead connector, ISO 8434-3, AG ORFS, elbow 90°, steel 308

T

T AJ, Swivel connector, ISO 8434-2, DKJ 37°, T shape, steel 245
T AJF HJOF, Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, T form, steel 304
T AJ HJ, Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, T shape, steel 251
TF BAND, PTFE sealing tape 494
T HB AB, Union connector, ISO 8434-6, AGR 60°, DKR 60°, T shape, steel 347
T HJ, Union connector, ISO 8434-2, AGJ 37°, T shape, steel 247
T HJOF, Union connector, ISO 8434-3, AG ORFS, T form, steel 302
T HN, Union connector, SAE J 514, AGN, T shape, steel 376
T HN HJ, Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, T shape, steel 258
T IN, Union connector, SAE J 514, IGN, T shape, steel 379
T IN HJ, Union connector, ISO 8434-2, IGN, SAE J 514, AGJ 37°, T shape, steel 261
T IN HN, Union connector, SAE J 514, IGN, AGN, T form, steel 377
T IR, Union connector, IGR, T shape, steel 355
T IR HJ, Union connector, ISO 8434-2, IGR, AGJ 37°, T shape, steel 255
TSV HJ, Bulkhead connector, ISO 8434-2, AGJ 37°, T shape, steel 266

U

UEM, Tube nut, ISO 8434-1, DIN 3870, LL/L/S, steel 60
UEM AJ, Tube nut, AJ, ISO 8434-2, steel 270
UEM AJ IR, Union connector, ISO 8434-2, DKJ 37°, IGR, steel 253
UEM F, Tube nut, French series, steel 171
UEM FM, Functional nut, ISO 8434-1, L/S, steel 61

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VERSCHLUSS AJ, Cap, ISO 8434-2, DKJ 37°, steel 268
VERSCHLUSS AJF, Cap, ISO 8434-3, DK ORFS, steel 309
VERSCHLUSS ALI, Cap, DK JISM 60°, steel 393
VERSCHLUSS AOB, Cap, ISO 8434-6, DKOR 60°, steel 362
VERSCHLUSS ARI, Cap, DK JISR 60°, steel 394
VERSCHLUSS HB, Plug, ISO 8434-6, AGR 60°, steel 363
VERSCHLUSS HJ, Plug, ISO 8434-2, AGJ 37°, steel 269
VERSCHLUSS HJL, Plug, AG JISM 60° male, steel 394
VERSCHLUSS HJOF, Plug, ISO 8434-3, AG ORFS, steel 309
VERSCHLUSS HJR, Plug, AG JISR 60° male, steel 395
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VERSCHLUSS IN, Cap, SAE J 514, IGN, steel	382
VERSCHLUSS IR, Cap, IGR, steel	362
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VERSCHLUSS O IS, Plug, hexagon socket, AG UNF, OR, ISO 11926, steel	270
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VHMO 90, Plug screw, hexagon socket, AGM, OR, ISO 6149, steel	198
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W45 AB HB, Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 45°, steel	346
W45 AB HJ, Swivel connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, elbow 45°, steel	357
W45 AJ, Swivel connector, ISO 8434-2, DKJ 37°, elbow 45°, steel	245
W45 AJF HJOF, Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, elbow 45°, steel	304
W45 AJ HB, Swivel connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, elbow 45°, steel	264
W45 AJ HJ, Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 45°, steel	251
W45 AN HN, Swivel connector, SAE J 514, DKN 60°, NPSM, AGN, elbow 45°, steel	373
W45 AOB HB, Swivel connector, ISO 8434-6, DKOR 60°, AGR 60°, elbow 45°, steel	344
W45 HB, Union connector, ISO 8434-6, AGR 60°, elbow 45°, steel	343
W45 HB HJ, Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, elbow 45°, steel	359
W45 HB HN, Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, elbow 45°, steel	352
W45 HJ, Union connector, ISO 8434-2, AGJ 37°, elbow 45°, steel	248
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W45 HRK, Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, angle 45°, steel	335
W45 IR, Union connector, IGR, elbow 45°, steel	355
W90 AB, Swivel connector, ISO 8434-6, DKR 60°, elbow 90°, steel	342
W90 AB HB, Swivel connector, ISO 8434-6, DKR 60°, AGR 60°, elbow 90°, steel	347
W90 AB HJ, Swivel connector, ISO 8434-6, DKR 60°, AGJ 37°, ISO 8434-2, elbow 90°, steel	357
W90 AJ, Swivel connector, ISO 8434-2, DKJ 37°, elbow 90°, steel	245
W90 AJF HJOF, Swivel connector, ISO 8434-3, DK ORFS, AG ORFS, elbow 90°, steel	305
W90 AJ HB, Swivel connector, ISO 8434-2, DKJ 37°, AGR 60°, ISO 8434-6, elbow 90°, steel	264
W90 AJ HJ, Swivel connector, ISO 8434-2, DKJ 37°, AGJ 37°, elbow 90°, steel	252
W90 AN HN, Swivel connector, SAE J 514, DKN 60°, NPSM, AGN, elbow 90°, steel	373
W90 AN IN, Swivel connector, SAE J 514, DKN 60°, NPSM, IGN, elbow 90°, steel	374
W90 AOB HB, Swivel connector, ISO 8434-6, DKOR 60°, AGR 60°, elbow 90°, steel	344
W90 HB, Union connector, ISO 8434-6, AGR 60°, elbow 90°, steel	343
W90 HB HJ, Union connector, ISO 8434-6, AGR 60°, AGJ 37°, ISO 8434-2, elbow 90°, steel	359
W90 HB HN, Union connector, ISO 8434-6, AGR 60°, AGN, SAE J 514, elbow 90°, steel	352
W90 HJ, Union connector, ISO 8434-2, AGJ 37°, elbow 90°, steel	248
W90 HJOF, Union connector, ISO 8434-3, AG ORFS, elbow 90°, steel	302
W90 HN, Union connector, SAE J 514, AGN, elbow 90°, steel	376
W90 HN HJ, Stud connector, ISO 8434-2, AGN, SAE J 514, AGJ 37°, elbow 90°, steel	259
W90 HRK, Stud connector, ISO 8434-6, AGR tapered, DIN 3852-2, type C, angle 90°, steel	335
W90 HROK HJL, Stud connector, AGR, ORK, ISO 1179, AG JISM 60°, elbow 90°, steel	388
W90 HROK HJR, Stud connector, AGR, ORK, ISO 1179, AG JISR 60°, elbow 90°, steel	388
W90 HSA, Union connector, AG SAE 45°, elbow 90°, steel	398
W90 IN, Union connector, SAE J 514, IGN, elbow 90°, steel	380
W90 IR, Union connector, IGR, elbow 90°, steel	356
W90 IR HJ, Union connector, ISO 8434-2, IGR, AGJ 37°, elbow 90°, steel	255
W90 O AJF, Stud connector, ISO 8434-3, AG UNF, OR, ISO 11926, adjustable, DK ORFS, elbow 90°, steel	292
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WB90 AOL HL, Tube elbow, union connector, ISO 8434-1, DKOL 24°/CEL 24°, elbow 90°, steel	195
WB90 AOS, Tube elbow, union connector, ISO 8434-1, DKOS 24°, elbow 90°, steel	196
WB90 AOS HS, Tube elbow, union connector, ISO 8434-1, DKOS 24°/CES 24°, elbow 90°, steel	196
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WEO SB G, Stud connector, WEO socket, AGR, type A, steel	404
WEO SB G ED, Stud connector, WEO socket, AGR soft seal, ISO 1179, type E, steel	404
WEO SB HJ, Union connector, WEO socket, AGJ 37°, ISO 8434-2, steel	405
WEO SB O, Stud connector, WEO socket, AG UNF, OR, ISO 11926, steel	406
WEO S DEMORING, WEO disassembly ring, for WEO plug, plastic	408
WEO S G, Stud connector, WEO plug, AGR, type A, steel	405
WEO S M ANSCHLAG, WEO mounting stop, for WEO plug, plastic	408
WEO VB SB, Bulkhead connector, WEO double coupling, socket, steel	406
WEO VS S, WEO locking plug, steel	407
WEO VS SB, WEO locking socket, steel	407

WN HF, Stud connector, French series, AGN, SAE J 514, straight, steel	168

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XGAM, Screw-on fitting, EN 8431-1, IGM, CEL/CES 24°, steel	115
XGAR, Screw-on fitting, EN 8431-1, IGR, CEL/CES 24°, steel	116
XRT, Reducing fitting, ISO 8434-1, CELL/CEL/CES 24°, T-shaped, steel	117
XSDOM, Banjo fitting, ISO 8434-1, AGM, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, steel	136
XSDOR, Banjo fitting, ISO 8434-1, AGR, OR, elastomer sealing, high pressure, CEL/CES 24°, elbow 90°, steel	141
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XVM ED, Stud connector, ISO 8434-1, AGM soft seal, ISO 9974, type E, CEL/CES 24°, straight, steel	65
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