hyloc hydrotechnic pvt. ltd.

An ISO 9001, ISO 14001 and OHSAS 18001 Company

Type Approved Supplier for Marine Application

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email : sales@hyloc.co.in, web : www.hyloc.co.in

Company Profile

Corporate Office
88, Machhe Industrial Estate,
Machhe, 590 014
Belgaum

Regd. Office,
Industrial Estate,
Udyambag, 590 008
Belgaum

Established in 1974 as a partnership firm called hydrotechnic, the company is now popularly known as hyloc. Hyloc is the oldest one amongst three independently run engineering companies recognized as the Polyhydron group. The group is known for their quality products and services, fair approach to business and business ethics through out the country and abroad.

Hyloc is a trusted brand in high quality tube couplings, adaptors and flanges. Apart from the standard range hyloc supplies large number of custom tube couplings. All tube couplings are rigorously tested for burst pressure, fatigue, impulse and pull tests. (Ref. ISO8434-5 and BS4368-4)

Hyloc's product range also includes high-pressure shut-off valves, needle valves and flow control valves.

HYLOC®
the right connection

Company Profile

◄ Design and Development

CNC Turning Centres ►

◄ Automats

Thread Rolling ►

◄ Quality Assurance

Impulse and Vibration Test stand ►

DNV·GL

Certificate No:
TAP00001DX

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pipe Couplings, Bite and Compression Type

with type designation(s)
L-Series, S-Series

Issued to
Hyloc Hydrotechnic Pvt. Ltd.
88/89, Machhe Industrial Estate, Machhe, Belgaum - 590 014, Karnataka, India

is found to comply with
DNV GL class programme DNVGL-CP-0185 – Type approval – Mechanical joints
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition January 2018
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems

Application :

Products approved by this certificate are accepted for installation on vessels classed by DNV GL.

Type:	Temperature range:	Max. working press.:	Sizes:
L-Series	See certificate	See certificate	DN 6/8/10/12/15/18/22/28/35/42
S-Series	See certificate	See certificate	DN 6/8/10/12/16/20/25/30/38

Issued at **Høvik** on **2018-10-04**

for **DNV GL**

This Certificate is valid until **2023-06-30**.
DNV GL local station: **Mumbai CMC**

Approval Engineer: **Morten Engnestangen**

Marianne Spæren Marveng
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Pipe couplings of compression and bite type.
The couplings are manufactured according to DIN 2353 and ISO 8434-1.

Materials:

Stainless steel couplings ordered with body material "316":
Coupling body, nut and ferrule: Stainless Steel Type 316 ASTM

Carbon steel couplings ordered with body material "Omit":

Description	Material grade	Material standard
Coupling Nuts (Cold formed)	1015	SAE J 1397
	1018	SAE J 1397
Ferrules (Cutting Rings)	1.0715	EN 10277-3
Coupling Bodies		
Elbows and Tees (hot forged)	15C8	IS 1875
	1018	SAE J 1397
Bar stock (hex and flat)	1.0715	EN 10277-3

Application/Limitation

The Type approval is valid for coupling configurations: elbows, straight unions, crosses and tees of the tube couplings with same bore and pressure rating.

Design Pressure of L series:

DN6 – DN8 – DN10 – DN12 – DN15:	250 bar
DN18 – DN22:	160 bar
DN28 – DN35 – DN42:	100 bar

Design Pressure of S series:

DN6 – DN8 – DN10 – DN12:	630 bar
DN16 – DN20 – DN25:	400 bar
DN30 – DN38:	250 bar

Design temperatures for couplings:

Carbon steel:	-20°C to +120°C
Stainless steel:	-60°C to +200°C

Working temperatures for couplings with elastomeric seals are not to exceed:

NBR:	-20°C to +100°C
FKM (Viton):	-20°C to +200°C

Couplings 10L and 15L made of stainless steel SS-316 are approved for use in systems having oxygen content by volume above 25%. For oxygen application the maximum working pressure is not to exceed 150 bar.

Carbon steel couplings, made from base material with wall thickness of 6mm or above, which are to be used at design temperatures below 0ºC shall have impact properties documented in accordance with requirements in DNVGL Pt.2 Ch.2.

The components are to be assembled according to manufacturer's instructions.

The approval is only valid when the couplings are assembled with tubing of correct material, temper and tolerances as specified by the manufacturer.

Couplings with NBR sealing have been subjected to fire endurance testing and are considered to be of approved fire resistant type. Couplings with Viton sealing are to be considered as non-fire resistant type, refer limitatations 1 to 4 in table below.

Joints are approved for use in following systems:

	Systems	Limitations/Notes
	Flammable fluids (Flash point ≤ 60 °C)	
1	Cargo oil lines	4
2	Crude oil washing lines	4
3	Vent lines	3
	Inert gas	
4	Water seal effluent lines	
5	Scrubber effluent lines	
6	Main lines	2,4
7	Distribution lines	4
	Flammable fluids (Flash point > 60°C)	
8	Cargo oil lines	4
9	Fuel oil lines	2,3
10	Lubrication oil lines	2,3
11	Hydraulic oil	2,3
12	Thermal oil	2,3
	Fresh water	
21	Cooling water system	1
22	Condensate return	1
23	Non-essential system	
	Sanitary/Drains/Scuppers	
24	Deck drains (internal)	6
25	Sanitary drains	
26	Scuppers and discharge (overboard)	
	Sounding/ vent	
27	Water tanks/Dry spaces	
28	Oil tanks (flash point > 60°C)	2,3
29	Starting/control air	1
	Miscellaneous	
30	Service air (non-essential)	
31	Brine	
32	CO2 system	1
33	Steam	

Limitations/notes, relevant for non-fire resistant types:

1) Inside machinery space of category A – only approved fire resistant types
2) Not inside machinery spaces of category A or accommodation spaces. May be accepted in other machinery spaces provided the joints are located in easily visible and accessible positions.
3) Approved fire resistant types except in cases where such mechanical joints are installed on exposed open decks, as defined in SOLAS II/2/Reg.9.2.3.3.2.2(10) and not used for fuel oil lines.
4) Only in pump rooms and open decks – only approved fire resistant types

Limitations/notes, general:

6) Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.

Couplings covered by this certificate are not approved for sea water applicaton.

Type Approval documentation

Drawing No.	Dwg. Name.	Rev.
4H 03275	Coupling Nut, 6 OD (LP Series)	2
4H 05608-001	Coupling Nut, 38 OD (HP Series)	1
4H 08295	Double bite thick ferrule (Gen III Series), 38 OD (HP Series)	1
4H 08280	Double bite thick ferrule (Gen III Series), 6 OD (LP and HP Series)	1
4H 06947	Equal Elbow body made from forging, 6 OD (LP Series)	0
4H 04510	Machining Drawing for Equal Elbow body 38 OD H.P.	1
4H 02825	Straight coupling body, 6 OD (LP Series)	1
4H 02828	Straight coupling body, 12 OD (LP Series)	1
4H 02842	Straight coupling body, 30 OD (HP Series)	1
4H 02843	Straight coupling body, 38 OD (HP Series)	1
4H 04480	Forging drawing for equal elbow body, 38 OD (HP Series)	3
4H 06060	Forging drawing for equal elbow body, 6 OD (LP Series)	0

Doc. No.	Doc. Name.	Rev.
8H 12202	Hyloc, Guidelines for Leakage, Proof Pressure, Burst Pressure and Pull out Testing	02
3H07700	Hyloc, Part Number Chart, date 18.06.2016	
8H 12347	Hyloc, Ferrules Heat Treatment and Acceptance Criteria	2
8H 13279	Guidelines for Vacuum Testing	02

Hyloc Hydrotechnic pvt. Ltd. Catalogue 2018.

Leakage test report dated 18-05-2009
Repeated assembly test report dated 18-05-2009
Burst test report dated 18-05-2009
Pullout test report dated 04-07-2009
Fire test report dated 04-02-2010 witnessed by DNV local station MUMBAI
Burst test report dated 2014-06-17 witnessed by DNV local station MUMBAI
Pressure pulsation/Vibration dated 04-07-2009
Oxygen Shock test report dated 04-06-2010 witnessed by DNV local station USA
Leakage test report dated 17-06-2014 witnessed by DNV local station MUMBAI
Burst test report dated 17-06-2014 witnessed by DNV local station MUMBAI
Repeated assembly test report witnessed by DNV local station MUMBAI – dated 2014-09-23
Vibration/Pulsation test report dated 2014-10-14, 2014-12-14 & 2014-12-18
Hyloc, Leakage test report for stainless steel L and S series, test dates Dec.2017 to Mar.2018
Hyloc, Proof Pressure test for stainless steel L and S series, test dates Dec.2017 to Mar.2018
Hyloc, Burst Pressure test for stainless steel L and S series, test dates Dec.2017 to Mar.2018
Hyloc, Fire Test for stainless steel L and S series with Nitrile Rubber sealing, tests conducted 2017
Hyloc, Pull-Out Test for stainless steel L and S series, tests conducted 2017 and 2018
Hyloc, Repeated Assembly Test for stainless steel L and S series, tests conducted 2017 and 2018
Hyloc, Fire Test for stainless steel couplings, tests conducted 20/08/2018, 18/08/2018, 17/08/2018
Hyloc, Vibration and Pressure Pulsation Test Report, for 38 HP of SS316, tests conducted 4/11/2017, 7/11/2017, 11/11/2017, 11/13/2017, 11/17/2017, 11/25/2017, 11/27/2017, 1/12/2017, 4/12/2017, 6/12/2017, and 12/13/2017
Vacuum test reports, carbon steel and SS316 / S and L series, tests conducted 2017 and 2018
Hyloc, Vibration and Pressure Pulsation Test Report, for L-series DN12 SS316, date 16/04/2018

Hyloc, Vibration and Pressure Pulsation Test Report, for S-series DN16 SS316, date 3/11/2016
Hyloc, Vibration and Pressure Pulsation Test Report, for L-series DN28 SS316, date 8/9/2017
Hyloc, Vibration and Pressure Pulsation Test Report, for L-series DN42 SS316, date 3/1/2017
Hyloc, Vibration and Pressure Pulsation Test Report, for L-series DN6 SS316, date 1/6/2016
Hyloc, Vibration and Pressure Pulsation Test Report, for S-series DN6 SS316, date 5/3/2016

Tests carried out

Leakage
Proof
Burst
Repeated assembly
Pull-out
Fire
Pressure pulsation/Vibration
Oxygen Shock test
Vacuum

Marking of product

For traceability to this type approval, each product is at least to be marked clearly with:

- Manufacturer's name or trademark
- Type designation
- Size

The identification marking shall be located in low stressed areas.

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.

Product Group

Tube Couplings

Hyloc is a trusted brand in high quality tube couplings, adaptors and flanges. We manufacture tube couplings as per DIN 2353 in steel and stainless steel. Sizes available are 6mm to 42mm in Light and 6mm to 38mm in Heavy series.

Apart from the standard range, Hyloc supplies large number of custom tube couplings including 37° flare and o-ring face sealing. Tube couplings are v alidated for burst pressure, fatigue, impulse and pull tests per ISO8434-5 , BS4368-4.

Flanges

Hyloc's flange program includes flanges as per ISO6162 (SAE J518) and ISO6164. Flanges are available in a large number of standard and custom configuration in steel as well as stainless steel.

Valves

Hyloc's valve program includes needle / shut-off valves, check valves, flow control valves and gauge isolators.

Needle / Shut-off valves

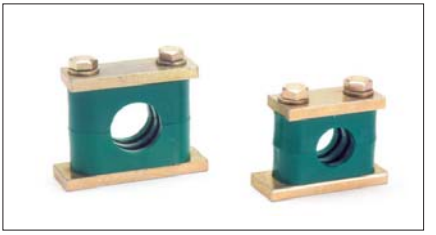
Hyloc is the place for shut-off valves. Our shut-off valves range from siæ DN6, to DN100 with pressure upto 315 bar Our high pressure series are designed to withstand 1000 bar pressure. For more details please contact our sales team.

Diagnostics

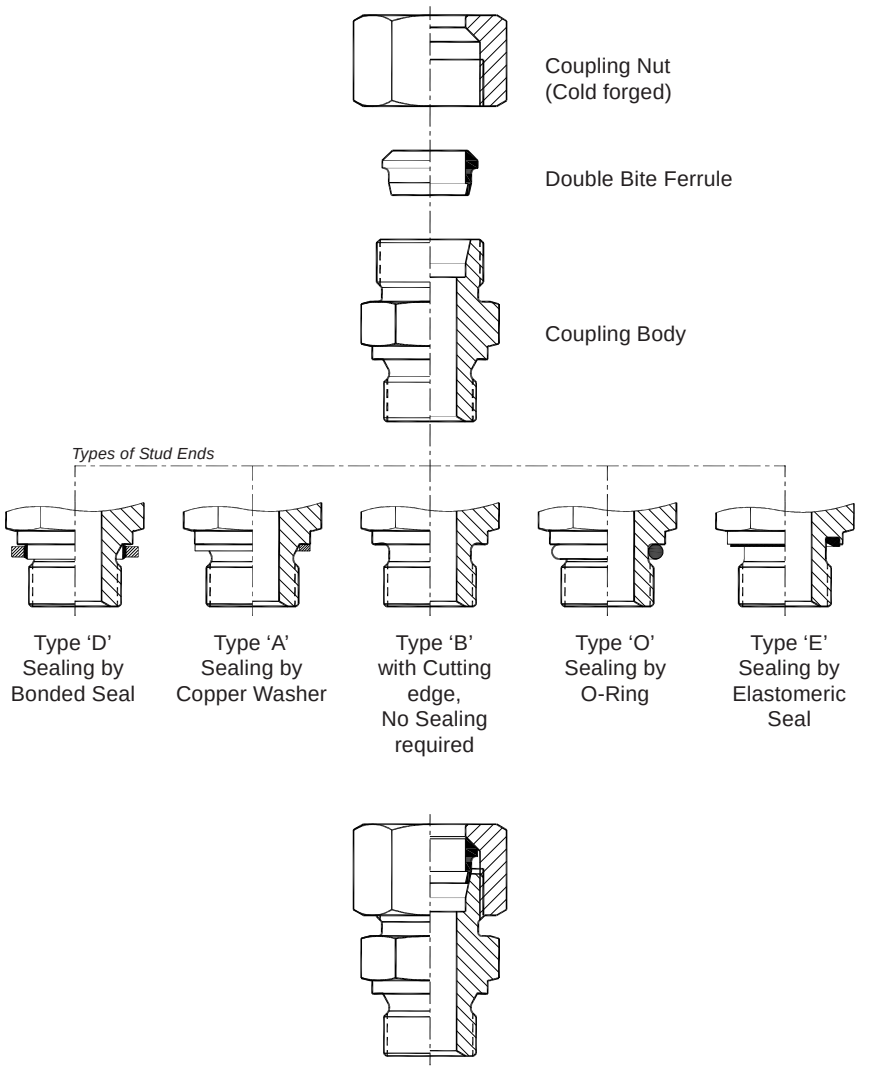
Hyloc is a popular brand of diagnostic couplings (test points). The coupling is tested for a 1,000,000 cycles of connect and disconnect, and pressure test to 4 times the working pressure.

Clamps

Hyloc manufactures clamps as per DIN3015, which are interchangeable with other manufacturers. Our standard series includes sizes upto 42mm and the heavy series includes sizes upto 400mm. These are available in variety of configurations and materials. Poly-propylene is the standard material of construction, but clamps are also available in polyamide and aluminum.



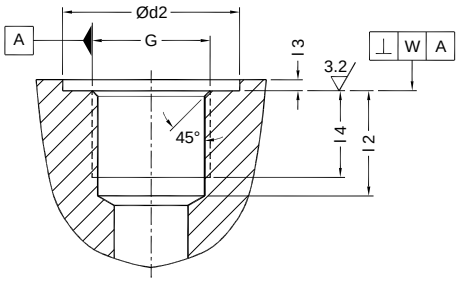
Tube Coupling - General Assembly



General Assembly of a
Tube Coupling

Port Details

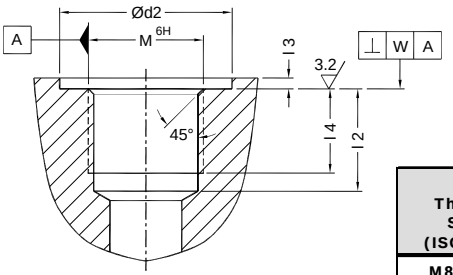
Flat face port with British Standard Pipe Parallel (BSPP) Threads (DIN 3852 Part 2)
ISO 228-1 “G” threads



All dimensions in millimeters.

G Thread Size (ISO 228-1)	Ød2 Small	Ød2 Wide	l 3	l 4 (min)	l 2	W
G 1/8	15	19	1.0	8	13.0	0.1
G 1/4	20	25	1.5	12	18.5	0.1
G 3/8	23	28	2.0	12	18.5	0.1
G 1/2	28	34	2.5	14	22.0	0.2
G 3/4	33	42	2.5	16	24.0	0.2
G1	41	47	2.5	18	27.0	0.2
G1.1/4	51	58	2.5	20	29.0	0.2
G1.1/2	56	65	2.5	22	31.0	0.2

Flat face port with Metric Threads (DIN 3852 Part 1)
ISO 261 “M” threads

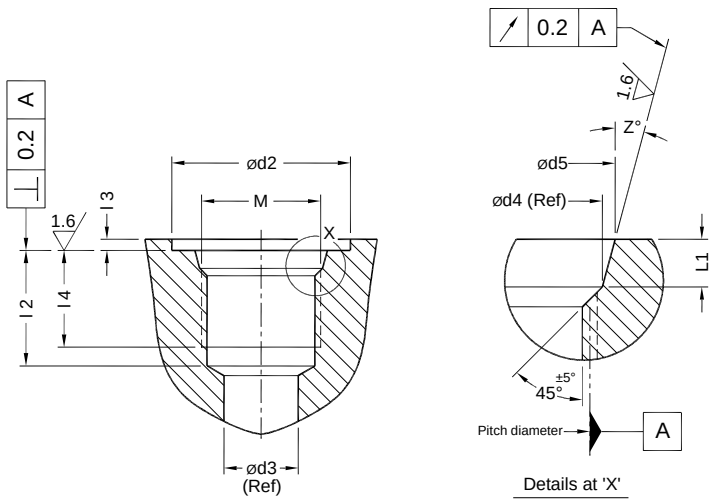


All dimensions in millimeters.

M Thread Size (ISO 261)	Ød2 Small	Ød2 Wide	l 3	l 4 (min)	l 2	W
M8 x 1.0	13	17	1.0	8	13.5	0.1
M10 x 1.0	15	20	1.0	8	13.5	0.1
M12 x 1.5	18	25	1.5	12	18.5	0.1
M14 x 1.5	20	25	1.5	12	18.5	0.1
M16 x 1.5	23	28	1.5	12	18.5	0.1
M18 x 1.5	25	30	2.0	12	18.5	0.1
M20 x 1.5	27	34	2.0	14	20.5	0.1
M22 x 1.5	28	34	2.5	14	20.5	0.1
M26 x 1.5	33	42	2.5	16	22.5	0.2
M27 x 2.0	33	42	2.5	16	24.0	0.2
M33 x 2.0	41	47	2.5	18	26.0	0.2
M42 x 2.0	51	58	2.5	20	28.0	0.2
M48 x 2.0	56	65	2.5	22	30.0	0.2

Port Details

ISO 6149 - 1 Metric Ports with truncated housing for O-Ring seal
Metric ISO 261, "M" threads



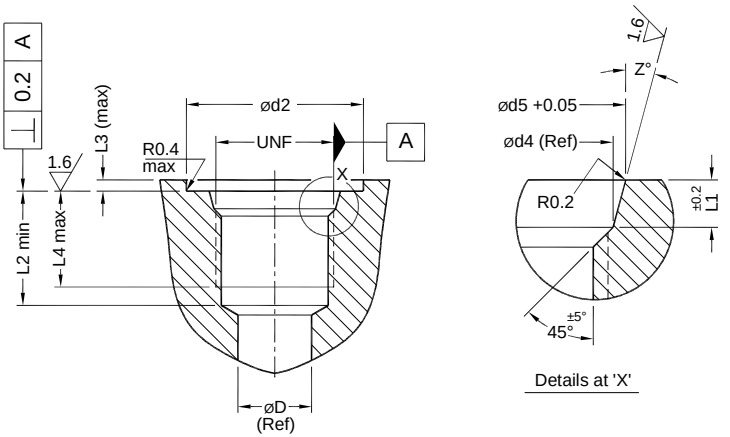
All dimensions in millimeters.

	M Thread Size (ISO 261)	Ød2	Ød3	Ød4	Ød5	l3	l4 min	l2	L1	Zº
	M8 x 1.0	14	3	8.42	9.1	1.0	10.0	11.5	1.6	12º
	M10x1.0	16	4.5	10.42	11.1	1.0	10.0	11.5	1.6	12º
	M12x1.5	19	6	12.51	13.8	1.5	11.5	14.0	2.4	15º
	M14x1.5	21	7.5	14.51	15.8	1.5	11.5	14.0	2.4	15º
	M16x1.5	24	9	16.51	17.8	1.5	13.0	15.5	2.4	15º
	M18x1.5	26	11	18.51	19.8	2.0	14.5	17.0	2.4	15º
✻	**M20x1.5**	29	--	20.51	21.8	2.0	14.5	--	2.4	15º
	M22x1.5	29	14	22.51	23.8	2.0	15.5	18.0	2.4	15º
	M27x2.0	34	18	27.74	29.4	2.0	19.0	22.0	3.1	15º
	M30x2.0	38	21	30.74	32.4	2.0	19.0	22.0	3.1	15º
	M33x2.0	43	23	33.74	35.4	2.5	19.0	22.0	3.1	15º
	M42x2.0	52	30	42.74	44.4	2.5	19.5	22.5	3.1	15º
	M48x2.0	57	36	48.74	50.4	2.5	22.0	25.0	3.1	15º
	M60x2.0	67	44	60.74	62.4	2.5	24.5	27.5	3.1	15º

✻ For Cartridge Valve cavity applications only (See ISO 7789)

Port Details

SAE J1926 - 1 SAE Straight Threaded Port with O-Ring seal in truncated housing
(UN / UNF threads)



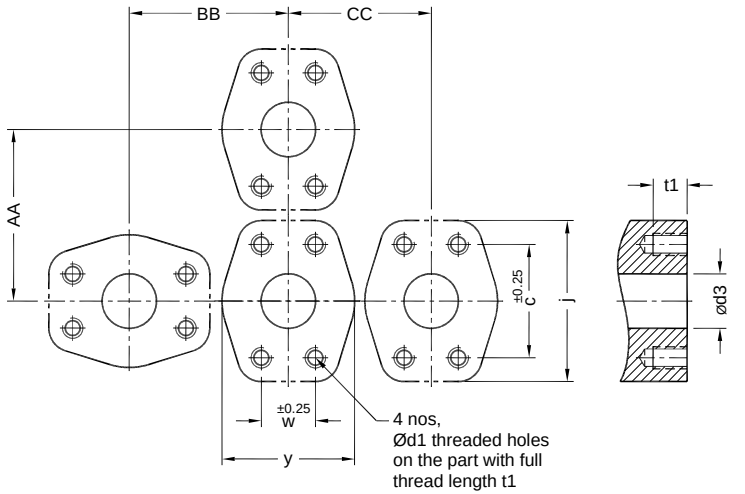
All dimensions in millimeters.

Tube Dash Size	Tube Size	UN/UNF Size Class 2B	✻ ØM	Tap Drill Size Ød1	Ød2	ØD	Ød4	Ød5	L1	L2	L3	L4	Zº
- 2	1/8	5/16-24 UNF	6.35	6.78/7.03	17	1.6	8.25	9.15	2.1	12	1.6	10.0	12º
- 3	3/16	3/8-24 UNF	7.92	8.38/8.63	19	3.5	9.85	10.75	2.1	12	1.6	10.0	12º
- 4	1/4	7/16-20 UNF	9.12	9.73/10.03	21	4.5	11.34	12.45	2.6	14	1.6	11.5	12º
- 5	5/16	1/2-20 UNF	10.72	11.33/11.60	23	6	12.94	14.05	2.6	14	1.6	11.5	12º
- 6	3/8	9/16-18 UNF	11.91	12.75/13.08	25	7.5	14.55	15.70	2.7	15.5	1.6	12.7	12º
- 8	1/2	3/4-16 UNF	16.66	17.33/17.67	30	10	19.20	20.65	2.7	17.5	2.4	14.3	15º
- 10	5/8	7/8-14 UNF	19.83	20.27/20.67	34	12.5	22.55	24.00	2.7	20	2.4	16.7	15º
- 12	3/4	1-1/16-12 UN	23.82	24.68/25.15	41	16	27.32	29.20	3.5	23	2.4	19.0	15º
- 14	7/8	1-3/16-12 UN	--	27.86/28.32	45	18	30.52	32.40	3.5	23	2.4	19.0	15º
- 16	1	1-5/16-12 UN	30.17	31.03/31.50	49	21	33.67	35.55	3.5	23	3.2	19.0	15º
- 20	1 1/4	1-5/8-12 UN	38.10	38.98/39.45	58	27	41.67	43.55	3.5	23	3.2	19.0	15º
- 24	1 1/2	1-7/8-12 UN	44.45	45.34/45.79	65	33	48.02	49.90	3.5	23	3.2	19.0	15º
- 32	2	2-1/2-12 UN	--	61.21/61.67	88	45	63.87	65.75	3.5	23	3.2	19.0	15º

✻ Pre drill size (Optional) in case of form tool only.

Port Details

ISO 6162-1 and ISO 6162-2
Four bolt Flange Connection, Port dimensions for flange connections
(Includes SAE J518)



Standard Pressure Series (Code 61)

Nom Flange Size	ød3 DN Size	Thread Metric d1	t1 min depth	Thread UNC d1	t1 min depth	c	j max	w	y	AA	BB	CC
1/2	13	M8x1.25	14	5/16-18	24	38.1	54.9	17.5	46	56	52	49
3/4	19	M10x1.5	18	3/8-16	22	47.6	65.8	22.3	52	68	61	55
1	25	M10x1.5	16	3/8-16	22	52.4	70.6	26.2	59	72	67	61
1 1/4	32	M10x1.5	22	7/16-14	28	58.7	80.3	30.2	73	82	78	75
1 1/2	38	M12x1.75	21	1/2-13	27	69.9	94.5	35.7	83	96	90	85
2	51	M12x1.75	21	1/2-13	27	77.8	103.1	42.9	97	104	102	99
2 1/2	64	M12x1.75	23	1/2-13	30	88.9	115.8	50.8	109	117	114	111
3	76	M16x2.0	30	5/8-11	30	106.4	136.7	61.9	131	137	136	133
3 1/2	89	M16x2.0	30	5/8-11	33	120.7	153.9	69.9	140	155	148	142
4	102	M16x2.0	27	5/8-11	30	130.2	163.6	77.8	152	164	160	155
5	127	M16x2.0	29	5/8-11	33	152.4	185.7	92.1	181	186	185	183

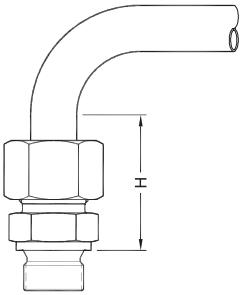
High Pressure series (Code 62)

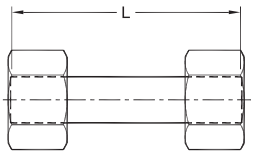
1/2	13	M8x1.25	16	5/16-18	21	40.5	57.2	18.2	48	59	56	53
3/4	19	M10x1.5	18	3/8-16	24	50.8	72.1	23.8	60	75	70	66
1	25	M12x1.75	23	7/16-14	27	57.2	81.8	27.8	70	84	80	75
1 1/4	32	M12x1.75	20	1/2-13	25	66.6	96.0	31.8	78	99	90	83
1 1/2	38	M16x2.0	27	5/8-11	35	79.3	114.3	36.5	95	116	108	101
2	51	M20x2.5	35	3/4-10	38	96.8	134.9	44.5	114	137	128	120

For use with medium strength metric screws (property class 8.8 screw strength) or grade 5 inch screws

Assembly Process

Preparation of Tube





Maximum height H for Straight tube end

Minimum length L for short piece of tube

Series	LL Series			L Series										S Series							
Tube o.d.	4	6	8	6	8	10	12	15	18	22	28	35	42	6	8	10	12	16	20	25	30	38
H min	24	25	26	31	31	33	33	36	38	42	42	48	48	35	35	37	37	43	50	54	58	65
L min	30	32	33	39	39	42	42	45	48	53	53	60	60	44	44	47	47	54	63	68	73	82

Saw off Tube at 90º

Do not use Tube cutters

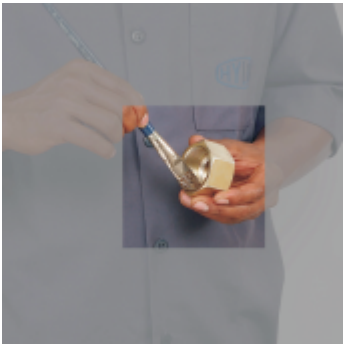
Tube cut with tube cutter
generates heavy burr/bevel cut

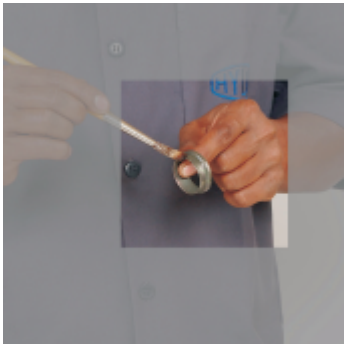
Saw off Tube

Deburr inside and Outside edges
of tube upto 0.2x45º

Assembly Process

Lubricate threads (Exteral and Internal), cone of the Coupling body and the Ferrule





Slip the Coupling Nut and Ferrule over tube end

Assembly Process

Ensure Coupling Nut and Ferrule are facing the right way

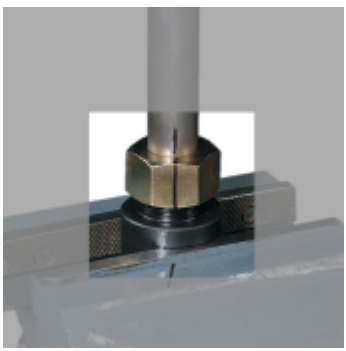
✓ **Correct**

✗ **Incorrect**

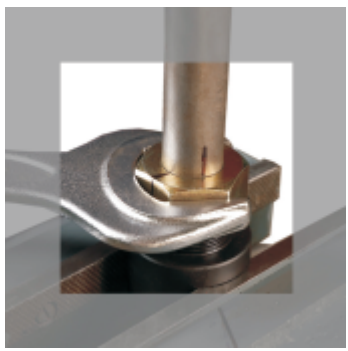
Screw the Coupling Nut manually on to Coupling body until finger tight.

Tighten the coupling Nut by spanner until the tube stops rotating by hand

Mark the Coupling Nut and holding device to measure the prescribed turns

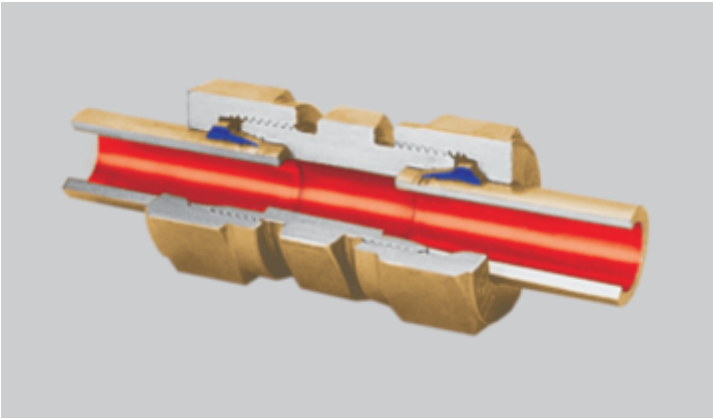


Tighten the Coupling Nut around 1 1/4 to 1 1/2 round **Tube must not rotate**



Assembly Process

Sectional View of Straight Coupling assembly with Tube



General Recommendations for Tubes

Steel Type **St 37.4**

Tensile Strength 340 N/mm²
Yield point 235 N/mm²
Condition Seamless, Cold drawn, normal annealed as per DIN 2391C, Part 2

Stainless Steel **1.4571**

Tensile Strength 500 N/mm²
Yield point 245 N/mm²
Condition Seamless, Cold drawn, free of scale as per DIN 17458 tab.6

Seamless Steel Tubes Material : St. 37.4

Tolerances DIN 2391, part 1

Tube O.D (mm)	Tolerance	Wall Thickness (mm)	Tube I.D (mm)	Design Pressure (bar)		Burst Pressure (bar)	Weight kg/m
				DIN2413 I Static	DIN 2413 III Dynamic		
4		0.50	3.0	313	273	1160	0.047
4	±0.08	0.75	2.5	409	391	1820	0.063
4		1.00	2.0	522	500	2700	0.074
5	±0.08	1.00	3.0	432	416	2120	0.099
6		0.75	4.5	333	288	1150	0.103
6		1.00	4.0	389	372	1650	0.123
6	±0.08	1.50	3.0	549	526	2550	0.166
6		2.00	2.0	692	662	>3500	0.197
6		2.50	1.0	757	725	>3500	0.208
8		1.00	6.0	333	288	1175	0.222
8		1.50	5.0	431	412	1925	0.240
8	±0.08	2.00	4.0	549	526	2500	0.296
8		2.50	3.0	658	630	2650	0.339
10		1.00	8.0	282	248	900	0.222
10		1.50	7.0	373	357	1450	0.314
10	±0.08	2.00	6.0	478	458	2025	0.395
10		2.50	5.0	576	551	2675	0.462
10		3.00	4.0	666	638	>3500	0.518
12		1.00	10.0	253	209	750	0.271
12		1.50	9.0	353	303	1150	0.388
12	±0.08	2.00	8.0	409	391	1600	0.493
12		2.50	7.0	495	474	2025	0.586
12		3.00	6.0	576	551	2600	0.666
12		3.50	5.0	651	624	---	0.734
14		1.50	11.0	302	264	975	0.462
14		2.00	10.0	357	342	1325	0.592
14	±0.08	2.50	9.0	434	415	1650	0.709
14		3.00	8.0	507	485	2200	0.814
14		3.50	7.0	576	551	2625	0.906
15		1.00	13.0	188	170	575	0.345
15	±0.08	1.50	12.0	282	248	950	0.499
15		2.00	11.0	336	321	1275	0.641
15		3.00	9.0	478	458	2000	0.888
16		1.50	13.0	264	233	850	0.536
16	±0.08	2.00	12.0	353	303	1175	0.691
16		2.50	11.0	386	370	1500	0.832
16		3.00	10.0	452	433	1850	0.962
18		1.00	16.0	157	143	450	0.419
18		1.50	15.0	235	209	700	0.610
18	±0.08	2.00	14.0	313	273	975	0.789
18		2.50	13.0	348	333	1300	0.956
18		3.00	12.0	409	391	1575	1.111

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Seamless Steel Tubes (continued) Material : St. 37.4

Tolerances DIN 2391, part 1

Tube O.D (mm)	Tolerance	Wall thickness (mm)	Tube I.D (mm)	Design Pressure (bar)		Burst Pressure (bar)	Weight kg/m
				DIN2413 1 Static	DIN 2413 III Dynamic		
20		1.50	17	212	190	675	0.648
20		2.00	16	282	248	900	0.888
20		2.50	15	353	303	1100	1.079
20		3.00	14	373	357	1400	1.258
20		3.50	13	426	408	1650	1.424
20	±0.08	4.00	12	478	458	2000	1.578
22		1.50	19	192	173	550	0.758
22		2.00	18	256	227	775	0.986
22		2.50	17	320	278	1025	1.202
22	±0.08	3.00	16	343	328	1175	1.406
25		2.00	21	226	201	725	1.134
25		2.50	20	282	248	850	1.387
25		3.00	19	338	292	1025	1.628
25		4.00	17	394	378	1500	2.072
25	±0.08	4.50	16	437	418	1625	2.275
28		1.50	25	151	138	425	0.98
28		2.00	24	201	181	600	1.282
28		2.50	23	252	223	750	1.572
28	±0.08	3.00	22	302	264	900	1.85
30	±0.08	2.00	26	188	170	575	1.381
30		2.50	25	235	209	725	1.695
30		3.00	24	282	248	850	1.998
30		4.00	22	336	321	1175	2.565
30		5.00	20	409	391	1600	3.083
35		2.00	31	161	147	450	1.628
35		2.50	30	201	181	600	2.004
35		3.00	29	242	215	700	2.367
35	±0.15	4.00	27	322	280	960	3.058
38		2.50	33	186	168	550	2.189
38		3.00	32	223	199	675	2.589
38		4.00	30	297	260	900	3.354
38		5.00	28	332	318	1150	4.069
38		6.00	26	390	373	---	4.735
38	±0.15	7.00	24	446	427	1700	5.325
42		2.00	38	134	123	375	1.973
42		3.00	36	201	181	575	2.885
42	±0.2	4.00	34	269	237	850	3.749
50	±0.2	6.00	38	338	292	---	6.511
65	±0.3	8.00	49	347	299	---	11.246

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Seamless Stainless steel Tubes Material No. 1.4571 / 1.4541

Tolerances DIN 2391, part 1

Tube OD (mm)	Tolerance	Wall thickness (mm)	Tube ID (mm)	1.4571 Design Pressure (bar) DIN 2413-1 Static	1.4571 Design Pressure (bar) DIN 2413-1 Static	1.4571 Burst Pressure (bar)	Weight kg/m
4	±0.08	1.0	2.0	600	539		0.075
6	±0.08	1.0	4.0	426	383	1850	0.125
6		1.5	3.0	600	539	2900	0.169
8	±0.08	1.0	6.0	368	297	1300	0.175
8		1.5	5.0	472	424	2050	0.244
10	±0.08	1.0	8.0	294	242	950	0.225
10		1.5	7.0	389	349	1750	0.319
10		2.0	6.0	498	447	2400	0.401
12	±0.08	1.0	10.0	245	205	850	0.275
12		1.5	9.0	368	297	1400	0.394
12		2.0	8.0	426	383	1900	0.501
14	±0.08	1.5	11.0	315	258	1200	0.469
14		2.0	10.0	420	334	1550	0.601
14		2.5	9.0	452	406	2100	0.720
15	±0.08	1.0	13.0	196	166	675	0.351
15		1.5	12.0	294	242	1100	0.507
15		2.0	11.0	392	314	1400	0.651
16	±0.08	1.5	13.0	276	228	950	0.545
16		2.0	12.0	368	297	1300	0.701
16		2.5	11.0	403	362	1850	0.845
16		3.0	10.0	472	424	2400	0.977
18	±0.08	1.5	15.0	245	205	800	0.620
18		2.0	14.0	327	267	1150	0.801
20	±0.08	2.0	16.0	294	242	1050	0.901
20		2.5	15.0	368	297	1400	1.095
20		3.0	14.0	389	349	1800	1.277
22	±0.08	1.5	19.0	200	170	650	0.770
22		2.0	18.0	267	222	900	1.002
25	±0.08	2.5	20.0	294	242	1050	1.408
25		3.0	19.0	353	286	1275	1.653
28	±0.08	1.5	25.0	158	135	550	0.995
28		2.0	24.0	210	177	700	1.302
30	±0.08	2.5	25.0	245	205	850	1.722
30		3.0	24.0	294	242	1150	2.028
30		4.0	22.0	392	314	1500	2.605
35	±0.15	2.0	31.0	168	143	550	1.653
38	±0.15	4.0	30.0	309	254	1150	3.405
42	±0.20	2.0	38.0	140	121	475	2.003
42		3.0	36.0	210	177	750	2.930

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Trouble Shooting

Problem	Probable Cause	Suggested solution
Leak	Tightening of the joint is not adequate.	Tighten the nut according to the correct assembly procedure. Use suitable spanners and spanner extensions especially for larger sizes. Check visible collar after tightening.
	Tube not bottomed into fitting shoulder.	Cut tube to correct length. Observe min. straight length before tube bending. Deburr tube ends – No heavy chamfers are to be provided.
	Damaged fitting	Check for damage. Handle all parts carefully.
	Hidden cracks	Check for cracks, replace if necessary.
	Contaminations between sealing surfaces	Keep all components clean.
	Shallow bite	Inspect for the turned up ridge of the material. Failure to achieve this ridge can be traced either to the nut not being tightened enough or tube not being bottomed against the stop.
	Over set ferrule	Too much pressure or more than recommended turns from finger tight.This type of assembly should be scrapped.
	No bite	If all of the prior checks have been made and the ferrule still shows no sign of biting the tube, it may be that the Tube is too hard. This assembly should be scrapped.
Tube fractured behind the nut	Fatigue failure of tube under vibration	Verify assembly. Undertightening reduces vibration resistance. Use proper clamps at appropriate places.
Crack	Tightening of the joint is not adequate	Tighten the nut according to the correct assembly procedure. Use suitable spanners and spanner extensions especially for larger sizes Check visible collar after tightening.

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304	GE	16	P	S	G03	E	-	V	P

Body Material	
Omit	Steel
304	SS-304
316	SS-316

Coupling Type	
Tube Couplings	
Straight	G
Equal Elbow	W
Equal Tee	T
Equal Cross	K
Stud Coupling	
Straight Male Stud	GE
Straight Female Stud	GAI
Male Stud Elbow	WE
Male Stud Branch Tee	TE
Male Stud Barrel Tee	LE
Bulkheads and weld Coupling	
Straight Bulkhead	SV
Elbow Bulkhead	WSV
Weld Bulkhead	ESV
Weld Coupling	AS
Elbow Weld Coupling	ASE
Reducers / Expanders	
Reducing Standpipe	KOR
Reducing Standpipe, soft seal	RED
Straight Reducer	GR
Swivel Couplings	
Banjo	HSWV
Banjo, soft seal	WHO
Banjo, Throttle Free	DSVW
Banjo, Rotary	RW
Double Banjo	HSTV
Straight Stud Standpipe	EVGE
Straight Stud Standpipe, soft seal	EGE-GE
Female standpipes, soft seal	EGE-GF
Swivel Elbow	EVW
Swivel Elbow, soft seal	EW
Swivel Branch Tee	EVT
Swivel Branch Tee, soft seal	ET
Swivel Barrel Tee	EVL
Swivel Barrel Tee, soft seal	EL
Blanking Plugs / Ends	
Blanking Plug	BUZ
Blanking End	BUZT
Hex head Plug	VST
Socket Head Plug	VSTI
Misc	
Pressure Gauge Connector	MAV
Pressure Gauge Standpipe	MAVEV

Tube Size
Refer Stud End Table for standard tube sizes, & stud end combinations.

Surface Treatment	
Omit	Zinc Plating and Blue Passivation
P	Phosphated
ZnNi	Zinc Nickel

Note :Parts ESV, AS, ASE, WNA are to be phosphated as standard practice (Since these are weldable parts)

Seal Material	
Omit	Nitrile 90°
V	Viton 90°
X	Without Oring

Sub Type Modifier	
Omit	Without Seal
A	Copper Washer
B	Metal to Metal Seal
D	Bonded Seal
E	Elastomeric Seal
O	Oring Sealing

Pressure Series	
LL	Very Light
L	Light
S	Heavy

Connection Type	
P	Ferrule
W**	Weld Nipple
	** is tube thickness
	Eg: W20 - 2mm wall thickness
X	Without Nut and Ferrule
Y	Without Nut and Ferrule on standpipe
TR	Flare fitting as per ISO8434-2
TRX	Flare fitting as
OR	ORFS face seal
ORX	ORFS face seal - Body Only

Stud End

BSP Thread		*BSPT Thread*		*SAE Straight Threads(UNF)*		*NPTF Taper Threads*		*Metric Thread*		*Metric Taper Threads*		**Standard Tube Size** *Standard Combinations*		
												LL	*L*	*H*
G01	G1/8	R01	R1/8			N01	1/8	M08	M8x1.0	T08	M8x1.0	04		
								M10	M10x1.0	T10	M10x1.0	06		
												08		
		R02	R1/4									10		
												12		
G01	G1/8	R01	R1/8	S04	7/16-20	N01	1/8	M10	M10x1.0	M10	M10x1.0		06	
G02	G1/4	R02	R1/4			N02	1/4	M12	M12x1.5	M12	M12x1.5		08	06
								M14	M14x1.5	M14	M14x1.5		10	08
G03	G3/8	R03	R3/8	S06	9/16-18	N03	3/8	M16	M16x1.5	M16	M16x1.5		12	10
								M18	M18x1.5	M18	M18x1.5			12
G04	G1/2	R04	R1/2	S08	3/4-16	N04	1/2						15	14
								M22	M22x1.5	M22	M22x1.5		18	16
G06	G3/4	R06	R3/4	S10	7/8-14	N06	3/4	M27	M27x2.0	M27	M27x2.0		22	20
G08	G1	R08	R1	S12	1.1/16-12	N08	1	M33	M33x2.0	M33	M33x2.0		28	25
G10	G1.1/4	R10	R1.1/4	S16	1.5/16-12	N10	1.1/4	M42	M42x2.0	M42	M42x2.0		35	30
G12	G1.1/2	R12	R1.1/2	S20	1.5/8-12	N12	1.1/2	M48	M48x2.0	M48	M48x2.0		42	38
G16	G2			S24	1.7/8-12			M60	M60X2.0	M60	M60X2.0			
Other Thread Sizes				S02	5/16-24	N00	1/16	M20	M20x1.5					
G05	G5/8			S03	3/8-24									
				S05	1/2-20									
				S14	1.3/16-12									

For standard combinations thread size can be omitted. Eg: 16od Male Stud Coupling with G1/2 stud - GE16PSG

HYLOC® Hydraulic Tube Fittings & Valves

2016	Date	Name	PART NUMBER CHART	
APD				
PPD	18.05	GRD		3H07700

Tube Coupling P arts


M

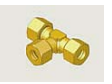

P


GM

Tube to T ube Coupling


G


W


T


K

Tube to Male Stud BSPT


GE-R


WE-R


TE-R


LE-R

Tube to Male Stud BSP


GE-G


WE-G


TE-G


LE-G

Tube to Male Stud Metric


GE-M


WE-M


TE-M


LE-M

Tube to Male Stud Elastomeric BSP


GE-GE

Tube to Male Stud Elastomeric Metric


GE-ME

Tube to Male Stud Metric with O-Ring sealing


GE-MO

Tube to Male Stud NPTF


GE-N


WE-N

Visual Index

Tube Couplings

Tube to Male Stud O-Ring, S AE/UNF

GE-S

Bulkhead

SV

WSV

ESV

Weld Coupling

AS

ASE

WAS

Female Connector, BSP

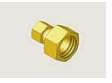
GAI-G

Female Connector, Metric

GAI-M

Reducer/Expander

GR



KOR

RED

Banjo Coupling

HSWV

HSTV

WH

WHO

DSVW

Swivel Couplings

EVGE-G

EVGE-M

EVW

EVT

EVL

Swivel Connector

EVW-G

EVT-G

EVL-G

Visual Index

Tube Couplings

Swivel Connector, Soft seal


EGE-GE


EGE-ME


EW


ET


EL

Swivel Connector, Soft Seal


EW-GE


ET-GE


EL-GE

Live Swivel


RW

Adjustable Fittings, Metric


WEE-MO


TEE-MO


LEE-MO

Adjustable Fittings, SAE/UNF


WEE-S


TEE-S


LEE-S

Weld Nipple


WNA


WNR

Blanking End


VKA


BUZT

Gauge Adaptors

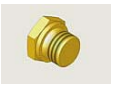

MAV-G


MAVEV-G


MAVE-G

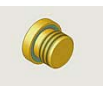

1GA-GE

Plugs, BSP


VST-G


VST-GE

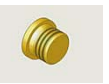

VSTI-G

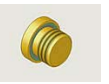

VSTI-GE

Plugs, Metric


VST-M


VST-ME


VSTI-M

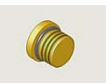

VSTI-ME


VST-MO


VSTI-MO

Plugs, SAE/UNF


VST-S


VSTI-S

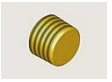
Plugs, BSP T aper (R)


VST-R


VSTI-R

Plugs, NPTF


VST-NPTF


VSTI-NPTF

Adaptors


MFA-G-G


MFA-G-S


MFA-S-G


HA-G

SAE Flanged connections


SFS


GFS


WFS


AS

Tools


PST

Seals


ED


BS


CW

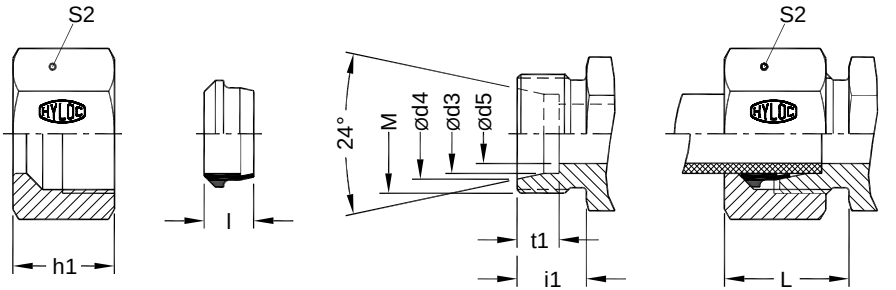

DKA

Tube Connection Parts

Metric Tube end as per ISO 8434

All dimensions in millimeters.

Nut : M **Ferrule : P** **Dimensions** **Assembled component**

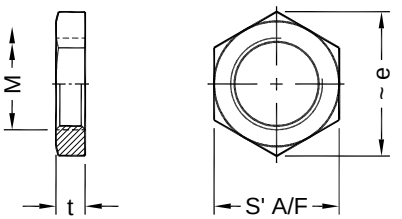


✻

Part No Nut	Part No Ferrule	Series	Tube od	DN Size	M	Ød3	Ød4	Ød5	t 1	i 1	S2	h1	l	L
M04LL	**P04LL**	**LL**	4	3	M 8 x 1.0	4	5.0	3	4.0	8	10	11.5	7.0	14
M05LL	**P05LL**	**Very Light**	5	--	M 10 x 1.0	5	6.5	3.5	5.5	8	12	11.5	7.0	14
M06LL	**P06LL**	**NP 100**	6	4	M 10 x 1.0	6	7.5	4.5	5.5	8	12	12.0	7.0	14
M08LL	**P08LL**		8	6	M 12 x 1.0	8	9.5	6	5.5	9	14	12.5	7.0	15
M06L	**P06L**	**L**	6	4	M 12 x 1.5	6	8.1	4	7.0	10	14	14.5	10.0	18
M08L	**P08L**	**Light**	8	6	M 14 x 1.5	8	10.1	6	7.0	10	17	14.5	9.5	18
M10L	**P10L**	**NP 250**	10	8	M 16 x 1.5	10	12.3	8	7.0	11	19	15.5	10.0	20
M12L	**P12L**		12	10	M 18 x 1.5	12	14.3	10	7.0	11	22	15.5	9.5	19
M15L	**P15L**		15	12	M 22 x 1.5	15	17.3	12	7.0	12	27	17.0	10.0	21
M18L	**P18L**	**NP 160**	18	16	M 26 x 1.5	18	20.3	15	7.5	12	32	18.0	10.0	22
M22L	**P22L**		22	20	M 30 x 2.0	22	24.3	19	7.5	14	36	20.0	10.5	24
M28L	**P28L**	**NP 100**	28	25	M 36 x 2.0	28	30.3	24	7.5	14	41	21.0	11.0	25
M35L	**P35L**		35	32	M 45 x 2.0	35	38.0	30	10.5	16	50	24.0	13.0	28
M42L	**P42L**		42	40	M 52 x 2.0	42	45.0	36	11.0	16	60	24.0	13.0	28
M06S	**P06S**	**S**	6	3	M 14 x 1.5	6	8.1	4	7.0	12	17	16.5	10.0	20
M08S	**P08S**	**Heavy**	8	4	M 16 x 1.5	8	10.1	5	7.0	12	19	16.5	9.5	20
M10S	**P10S**	**NP 630**	10	6	M 18 x 1.5	10	12.3	7	7.5	12	22	17.5	10.0	22
M12S	**P12S**		12	8	M 20 x 1.5	12	14.3	8	7.5	12	24	17.5	9.5	21
M16S	**P16S**	**NP 400**	16	12	M 24 x 1.5	16	18.3	12	8.5	14	30	20.5	10.0	25
M20S	**P20S**		20	16	M 30 x 2.0	20	22.9	16	10.5	16	36	24.0	12.0	28
M25S	**P25S**		25	20	M 36 x 2.0	25	27.9	20	12.0	18	46	27.0	12.0	31
M30S	**P30S**	**NP 250**	30	25	M 42 x 2.0	30	33.0	25	13.5	20	50	29.0	13.0	35
M38S	**P38S**		38	32	M 52 x 2.0	38	41.0	32	16.0	22	60	32.5	13.0	38

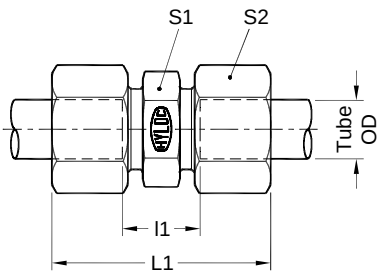
✻ Dimensions given are approx figures with tightened nut.

Locknuts for Bulkhead Couplings
As per ISO 8434-1



Part No.	M	t	S	~ e
GM12	M12 x 1.5	6	17	19.6
GM14	M14 x 1.5	6	19	21.9
GM16	M16 x 1.5	6	22	25.4
GM18	M18 x 1.5	6	24	27.7
GM20	M20 x 1.5	6	27	31.2
GM22	M22 x 1.5	7	30	34.6
GM24	M24 x 1.5	7	32	36.9
GM26	M26 x 1.5	8	36	41.6
GM30	M30 x 2.0	9	41	47.3
GM36	M36 x 2.0	9	46	53.1
GM42	M42 x 2.0	9	50	57.5
GM45	M45 x 2.0	9	55	63.5
GM52	M52 x 2.0	10	65	75.0

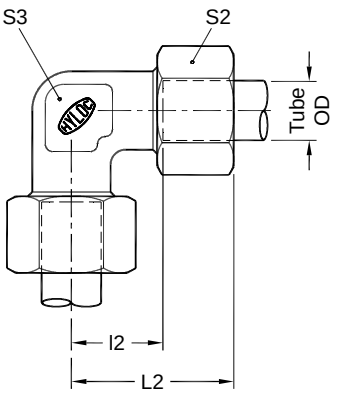
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	l 1	L1 *	S1	S2
G06PL	**Light L**	6	10	41	12	14
G08PL	250 bar	8	11	41	14	17
G10PL		10	13	44	17	19
G12PL		12	14	44	19	22
G15PL		15	16	48	24	27
G18PL	160 bar	18	16	50	27	32
G22PL		22	20	54	32	36
G28PL	100 bar	28	21	57	41	41
G35PL		35	20	66	46	50
G42PL		42	21	68	55	60
G06PS	**Heavy S**	6	16	47	14	17
G08PS	630 bar	8	18	48	17	19
G10PS		10	17	51	19	22
G12PS		12	19	52	22	24
G16PS	400 bar	16	21	59	27	30
G20PS		20	23	68	32	36
G25PS		25	26	76	41	46
G30PS	250 bar	30	27	83	46	50
G38PS		38	29	92	55	60

* Dimensions given are approx figures with tightened nut.

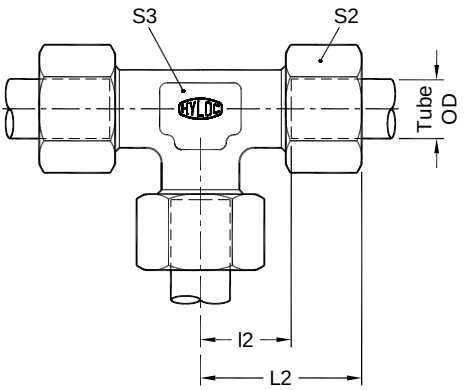
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	l 2	L2 *	S2	S3
W06PL	**Light L**	6	12.0	27.5	14	12
W08PL	250 bar	8	14.0	29.0	17	12
W10PL		10	15.0	30.5	19	14
W12PL		12	17.0	32.0	22	17
W15PL		15	21.0	37.0	27	22
W18PL	160 bar	18	23.5	40.5	32	24
W22PL		22	27.5	44.5	36	27
W28PL	100 bar	28	30.5	48.5	41	36
W35PL		35	34.5	57.5	50	41
W42PL		42	40.0	63.5	60	50
W06PS	**Heavy S**	6	16.0	31.5	17	12
W08PS	630 bar	8	17.0	32.0	19	14
W10PS		10	17.5	34.5	22	17
W12PS		12	21.5	38.0	24	19
W16PS	400 bar	16	24.5	43.5	30	24
W20PS		20	26.5	49.0	36	27
W25PS		25	30.0	55.0	46	36
W30PS	250 bar	30	35.5	63.5	50	41
W38PS		38	41.0	72.5	60	50

* Dimensions given are approx figures with tightened nut.

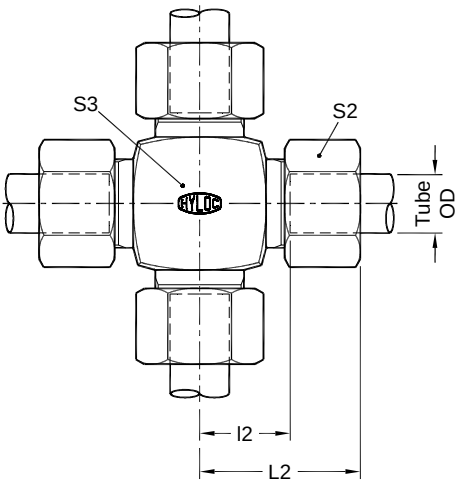
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	l 2	L2 *	S2	S3
T06PL	**Light L**	6	12.0	27.5	14	12
T08PL	250 bar	8	14.0	29.0	17	12
T10PL		10	15.0	30.5	19	14
T12PL		12	17.0	32.0	22	17
T15PL		15	21.0	37.0	27	22
T18PL	160 bar	18	23.5	40.5	32	24
T22PL		22	27.5	44.5	36	27
T28PL	100 bar	28	30.5	48.5	41	36
T35PL		35	34.5	57.5	50	41
T42PL		42	40.0	63.5	60	50
T06PS	**Heavy S**	6	16.0	31.5	17	12
T08PS	630 bar	8	17.0	32.0	19	14
T10PS		10	17.5	34.5	22	17
T12PS		12	21.5	38.0	24	19
T16PS	400 bar	16	24.5	43.5	30	24
T20PS		20	26.5	49.0	36	27
T25PS		25	30.0	55.0	46	36
T30PS	250 bar	30	35.5	63.5	50	41
T38PS		38	41.0	72.5	60	50

* Dimensions given are approx figures with tightened nut.

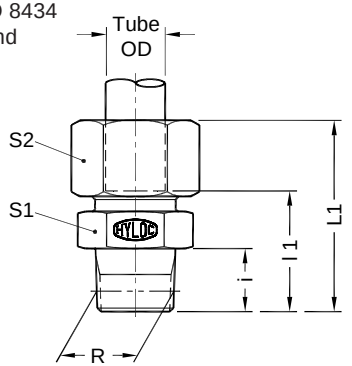
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	l 2	L2 *	S2	S3
K06PL	**Light L**	6	12.0	27.5	14	12
K08PL	250 bar	8	14.0	29.0	17	12
K10PL		10	15.0	30.5	19	14
K12PL		12	17.0	32.0	22	17
K15PL		15	21.0	37.0	27	22
K18PL	160 bar	18	23.5	40.5	32	24
K22PL		22	27.5	44.5	36	27
K28PL	100 bar	28	30.5	48.5	41	36
K35PL		35	34.5	57.5	50	41
K42PL		42	40.0	63.5	60	50
K06PS	**Heavy S**	6	16.0	31.5	17	12
K08PS	630 bar	8	17.0	32.0	19	14
K10PS		10	17.5	34.5	22	17
K12PS		12	21.5	38.0	24	19
K16PS	400 bar	16	24.5	43.5	30	24
K20PS		20	26.5	49.0	36	27
K25PS		25	30.0	55.0	46	36
K30PS	250 bar	30	35.5	63.5	50	41
K38PS		38	41.0	72.5	60	50

* Dimensions given are approx figures with tightened nut.

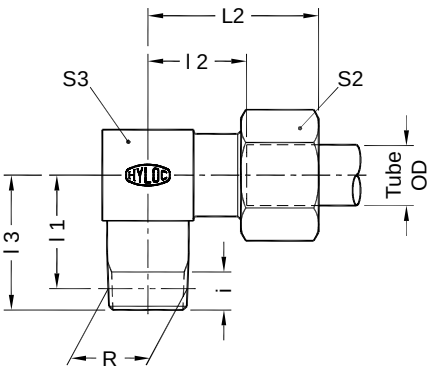
Metric Tube end as per ISO 8434
Male BSP Taper (R) stud end



✻ Dimensions given are approx figures with tightened nut.

Part No.	Series	Tube od	R Male BSPT thread	i	l 1	✻ L1	S1	S2
GE06PLR	**Light L**	6	R 1/8	7.5	14.5	30	14	14
GE06PLR02	250 bar	6	R 1/4	11	18	33.5	14	14
GE08PLR		8	R 1/4	11	19	34	17	17
GE10PLR		10	R 1/4	11	20	35.5	17	19
GE12PLR02		12	R 1/4	11	20	35	19	22
GE12PLR		12	R 3/8	11.5	20.5	35.5	19	22
GE12PLR04		12	R 1/2	15	25	40	22	22
GE15PLR		15	R 1/2	15	26	42	24	27
GE18PLR	160bar	18	R 1/2	15	26.5	43.5	27	32
GE22PLR		22	R 3/4	16.5	30	47	32	36
GE28PLR	100 bar	28	R 1	19	33.5	51.5	41	41
GE35PLR		35	R1.1/4	21.5	35	58	46	50
GE42PLR		42	R1.1/2	21.5	37.5	61	55	60
GE06PSR	Heavy S	6	R 1/4	11	22	37.5	17	17
GE08PSR	630 bar	8	R 1/4	11	22	37	17	19
GE10PSR02		10	R 1/4	11	23.5	40.5	19	22
GE10PSR		10	R 3/8	11.5	24	41	19	22
GE12PSR02		12	R 1/4	11	25.5	42	22	24
GE12PSR		12	R 3/8	11.5	26	42.5	22	24
GE12PSR04		12	R 1/2	15	29.5	46	22	24
GE16PSR	400 bar	16	R 1/2	15	30.5	49.5	27	30
GE20PSR		20	R 3/4	16.5	34	56.5	32	36
GE25PSR		25	R 1	19	39	64	41	46
GE30PSR	250 bar	30	R1.1/4	21.5	42	70	46	50
GE38PSR		38	R1.1/2	21.5	44.5	76	55	60

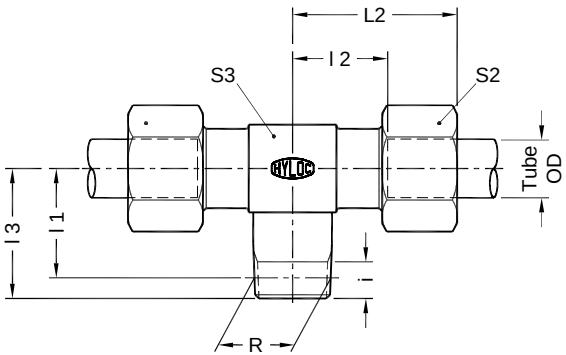
Metric Tube end as per ISO 8434
and BSP Taper (R) stud end



Part No.	Series	Tube od	R Male BSPT thread	i	l 1 min	l1 max	l 2	l 3	* L2	S2	S3
WE06PLR	**Light L**	6	R 1/8	7.5	16.1	17.9	13	21.0	28.5	14	12
WE08PLR	250 bar	8	R 1/4	11	20.2	22.8	15.5	27.5	30.5	17	14
WE10PLR		10	R 1/4	11	19.7	22.3	15	27.0	30.5	19	17
WE12PLR		12	R 3/8	11.5	20.3	22.9	17	28.0	32.0	22	19
WE15PLR		15	R 1/2	15	25.0	28.6	22	35.0	38.0	27	22
WE18PLR	160 bar	18	R 1/2	15	26.0	29.6	23.5	36.0	40.5	32	27
WE06PSR	**Heavy S**	6	R 1/4	11	18.7	21.3	17.5	26.0	33.0	17	14
WE08PSR	630 bar	8	R 1/4	11	19.7	22.3	17	27.0	32.0	19	17
WE10PSR		10	R 3/8	11.5	20.3	22.9	17.5	28.0	34.5	22	19
WE12PSR		12	R 3/8	11.5	20.3	22.9	21.5	28.0	38.0	24	22
WE16PSR	400 bar	16	R 1/2	15	23.5	27.1	26	33.5	45.0	30	24

* Dimensions given are approx figures with tightened nut.

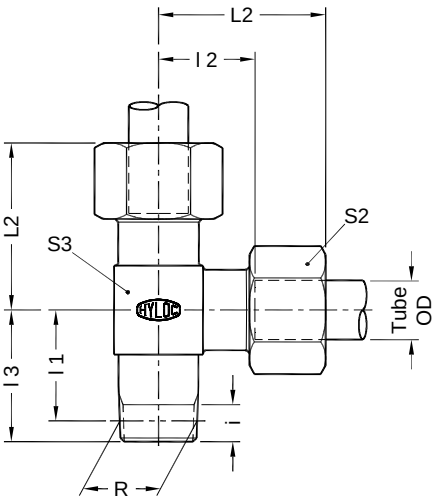
Metric Tube end as per ISO 8434
and BSP Taper (R) stud end



Part No.	Series	Tube od	R Male BSPT thread	i	l 1 min	l1 max	l 2	l 3	✻ L2	S2	S3
TE06PLR	**Light L**	6	R 1/8	7.5	16.1	17.9	13.0	21.0	28.5	14	12
TE08PLR	250 bar	8	R 1/4	11	20.2	22.8	15.5	27.5	30.5	17	14
TE10PLR		10	R 1/4	11	19.7	22.3	15.0	27.0	30.5	19	17
TE12PLR		12	R 3/8	11.5	20.3	22.9	17.0	28.0	32.0	22	19
TE15PLR		15	R 1/2	15	25.0	28.6	22.0	35.0	38.0	27	22
TE18PLR	160 bar	18	R 1/2	15	26.0	29.6	23.5	36.0	40.5	32	27
TE06PSR	**Heavy S**	6	R 1/4	11	18.7	21.3	17.5	26.0	33.0	17	14
TE08PSR	630 bar	8	R 1/4	11	19.7	22.3	17.0	27.0	32.0	19	17
TE10PSR		10	R 3/8	11.5	20.3	22.9	17.5	28.0	34.5	22	19
TE12PSR		12	R 3/8	11.5	20.3	22.9	21.5	28.0	38.0	24	22
TE16PSR	400 bar	16	R 1/2	15	23.5	27.1	26.0	33.5	45.0	30	24

✻ Dimensions given are approx figures with tightened nut.

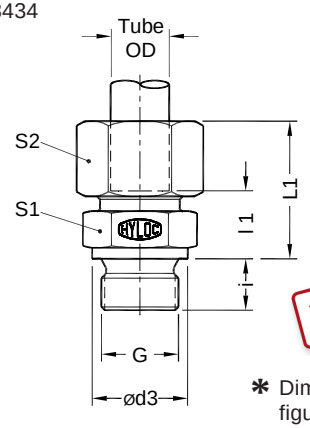
Metric Tube end as per ISO 8434
and BSP Taper (R) stud end



Part No.	Series	Tube od	R Male BSPT thread	i	l 1 min	l1 max	l 2	l 3	✻ L2	S2	S3
LE06PLR	**Light L**	6	R 1/8	7.5	16.1	17.9	13	21.0	28.5	14	12
LE08PLR	250 bar	8	R 1/4	11	20.2	22.8	15.5	27.5	30.5	17	14
LE10PLR		10	R 1/4	11	19.7	22.3	15	27.0	30.5	19	17
LE12PLR		12	R 3/8	11.5	20.3	22.9	17	28.0	32.0	22	19
LE15PLR		15	R 1/2	15	25.0	28.6	22	35.0	38.0	27	22
LE18PLR	160 bar	18	R 1/2	15	26.0	29.6	23.5	36.0	40.5	32	27
LE06PSR	**Heavy S**	6	R 1/4	11	18.7	21.3	17.5	26.0	33.0	17	14
LE08PSR	630 bar	8	R 1/4	11	19.7	22.3	17	27.0	32.0	19	17
LE10PSR		10	R 3/8	11.5	20.3	22.9	17.5	28.0	34.5	22	19
LE12PSR		12	R 3/8	11.5	20.3	22.9	21.5	28.0	38.0	24	22
LE16PSR	400 bar	16	R 1/2	15	23.5	27.1	26	33.5	45.0	30	24

✻ Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male BSPP (G) thread



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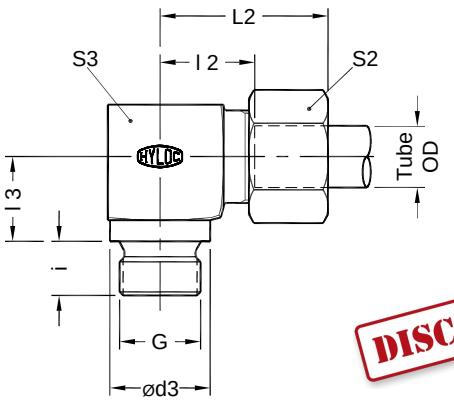
* Dimensions given are approx figures with tightened nut.

Part No.	Series	Tube od	G Male BSP thread	ø d3	i	l 1	* L1	S1	S2
GE06PLG	**Light L**	6	G 1/8 A	14	8	8.5	24	14	14
GE08PLG	250 bar	8	G 1/4 A	18	12	10	25	19	17
GE08PLG03		8	G 3/8 A	22	12	11.5	26.5	22	17
GE10PLG		10	G 1/4 A	18	12	11	26.5	19	19
GE10PLG03		10	G 3/8 A	22	12	12.5	28	22	19
GE12PLG02		12	G 1/4 A	18	12	12	27	19	22
GE12PLG		12	G 3/8 A	22	12	12.5	27.5	22	22
GE12PLG04		12	G 1/2 A	26	14	13	28	27	22
GE15PLG		15	G 1/2 A	26	14	14	30	27	27
GE18PLG	160 bar	18	G 1/2 A	26	14	14.5	31.5	27	32
GE22PLG		22	G 3/4 A	32	16	16.5	33.5	32	36
GE28PLG	100 bar	28	G 1 A	39	18	17.5	35.5	41	41
GE35PLG		35	G1 1/4 A	49	20	17.5	40.5	50	50
GE42PLG		42	G1 1/2 A	55	22	19	42.5	55	60
GE06PSG	**Heavy S**	6	G 1/4 A	18	12	13	28.5	19	17
GE08PSG	630 bar	8	G 1/4 A	18	12	15	30	19	19
GE10PSG		10	G 3/8 A	22	12	15	32	22	22
GE12PSG		12	G 3/8 A	22	12	17	33.5	22	24
GE12PSG04		12	G 1/2 A	26	14	17.5	34	27	24
GE16PSG	400 bar	16	G 1/2 A	26	14	18.5	37.5	27	30
GE20PSG		20	G 3/4 A	32	16	20.5	43	32	36
GE25PSG		25	G 1 A	39	18	23	48	41	46
GE30PSG	250 bar	30	G1 1/4 A	49	20	23.5	51.5	50	50
GE38PSG		38	G1 1/2 A	55	22	26	57.5	55	60

Metric Tube end as per ISO 8434
and BSPP (G) stud end

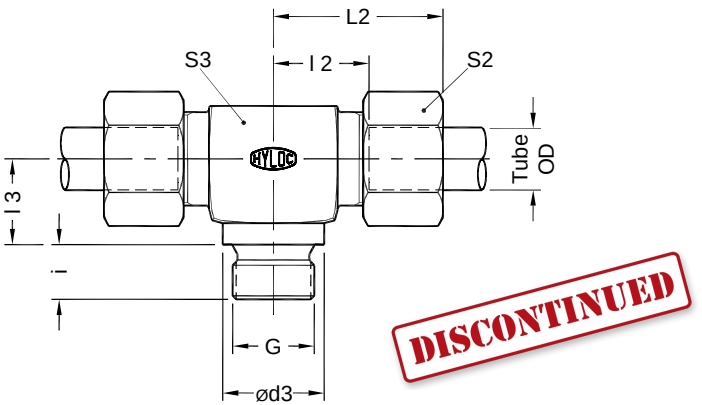


DISCONTINUED

Part No.	Series	Tube od	G Male BSP thread	ø d3	i	l 2	l 3	* L2	S2	S3
WE22PLG	160 bar	22	G 3/4 A	32	16	27.5	26	44.5	36	32
WE28PLG	**Light L**	28	G 1 A	39	18	30.5	30	48.5	41	41
WE35PLG		35	G1 1/4 A	49	20	34.5	34	57.5	50	50
WE42PLG	100 bar	42	G1 1/2 A	55	22	40.0	39	63.5	60	55
WE20PSG	**Heavy S**	20	G 3/4 A	32	16	26.5	26	49.0	36	32
WE25PSG	400 bar	25	G 1 A	39	18	30.0	30	55.0	46	41
WE30PSG		30	G1 1/4 A	49	20	35.5	34	63.5	50	50
WE38PSG	250 bar	38	G1 1/2 A	55	22	41.0	39	72.5	60	55

* Dimensions given are approx figures with tightened nut.

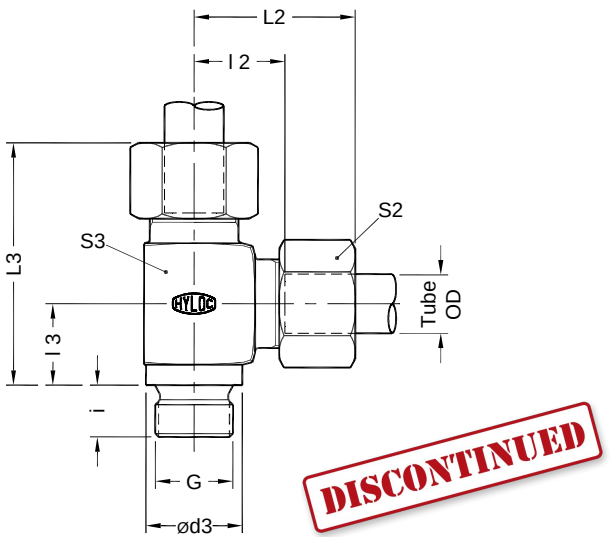
Metric Tube end as per ISO 8434
and BSPP (G) stud end



Part No.	Series	Tube od	G Male BSP thread	ø d3	i	l 2	l 3	* L2	S2	S3
TE22PLG	160 bar	22	G 3/4 A	32	16	27.5	26	44.5	36	32
TE28PLG	**Light L**	28	G 1 A	39	18	30.5	30	48.5	41	41
TE35PLG		35	G1 1/4 A	49	20	34.5	34	57.5	50	50
TE42PLG	100 bar	42	G1 1/2 A	55	22	40.0	39	63.5	60	55
TE20PSG	**Heavy S**	20	G 3/4 A	32	16	26.5	26	49.0	36	32
TE25PSG	400 bar	25	G 1 A	39	18	30.0	30	55.0	46	41
TE30PSG	250 bar	30	G1 1/4 A	49	20	35.5	34	63.5	50	50
TE38PSG		38	G1 1/2 A	55	22	41.0	39	72.5	60	55

* Dimensions given are approx figures with tightened nut.

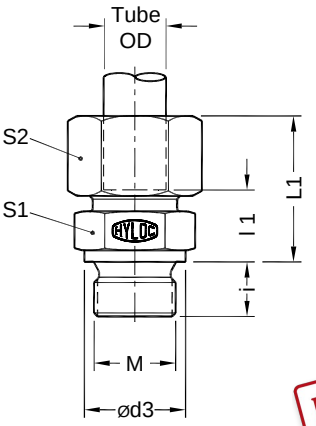
Metric Tube end as per ISO 8434
and BSPP (G) stud end



Part No.	Series	Tube od	G Male BSP thread	ø d3	i	l 2	l 3	* L2	* L3	S2	S3
LE22PLG	160 bar	22	G 3/4 A	32	16	27.5	26	44.5	70.5	36	32
LE28PLG	100 bar	28	G 1 A	39	18	30.5	30	48.5	78.5	41	41
LE35PLG	**Light L**	35	G1 1/4 A	49	20	34.5	34	57.5	91.5	50	50
LE42PLG		42	G1 1/2 A	55	22	40.0	39	63.5	102.5	60	55
LE20PSG	400 bar	20	G 3/4 A	32	16	26.5	26	49.0	75.0	36	32
LE25PSG	**Heavy S**	25	G 1 A	39	18	30.0	30	55.0	85.0	46	41
LE30PSG	250 bar	30	G1 1/4 A	49	20	35.5	34	63.5	97.5	50	50
LE38PSG		38	G1 1/2 A	55	22	41.0	39	72.5	111.5	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male Metric (M) thread



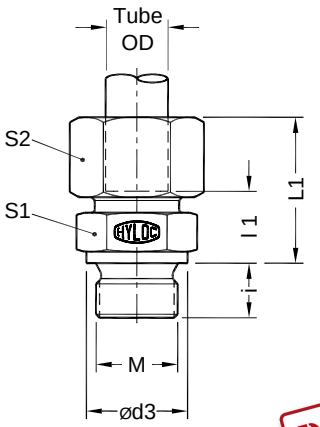
DISCONTINUED

Low Pressure Series

Part No.	Series	Tube od	M Male Metric thread	ø d3	i	l 1	* L1	S1	S2
GE06PLM	**Light L**	6	M10 x 1.0	14	8	8.5	24.0	14	14
GE08PLM	315 bar	8	M12 x 1.5	17	12	10.0	25.0	17	17
GE08PLM18		8	M18 x 1.5	23	12	11.5	26.5	24	17
GE10PLM		10	M14 x 1.5	19	12	11.0	26.5	19	19
GE10PLM16		10	M16 x 1.5	21	12	12.0	27.5	22	19
GE10PLM18		10	M18 x 1.5	23	12	12.5	28.0	24	19
GE10PLM22		10	M22 x 1.5	27	14	14.0	29.5	27	19
GE12PLM14		12	M14 x 1.5	19	12	11.0	26.0	19	22
GE12PLM		12	M16 x 1.5	21	12	12.5	27.5	22	22
GE12PLM18		12	M18 x 1.5	23	12	12.5	27.5	24	22
GE12PLM22		12	M22 x 1.5	27	14	14.0	29.0	27	22
GE15PLM16		15	M16 X 1.5	21	12	13.0	29.0	24	27
GE15PLM		15	M18 x 1.5	23	12	13.5	29.5	24	27
GE15PLM22		15	M22 x 1.5	27	14	15.0	31.0	27	27
GE18PLM18		18	M18 x 1.5	23	12	14.0	31.0	27	32
GE18PLM		18	M22 X 1.5	27	14	14.5	31.5	27	32
GE22PLM22	160 bar	22	M22 x 1.5	27	14	16.5	33.5	32	36
GE22PLM		22	M26 x 1.5	31	16	16.5	33.5	32	36
GE28PLM		28	M33 X 2.0	39	18	17.5	35.5	41	41
GE35PLM		35	M42 X 2.0	49	20	17.5	40.5	50	50
GE42PLM		42	M48 X 2.0	55	22	19.0	42.5	55	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male Metric (M) thread



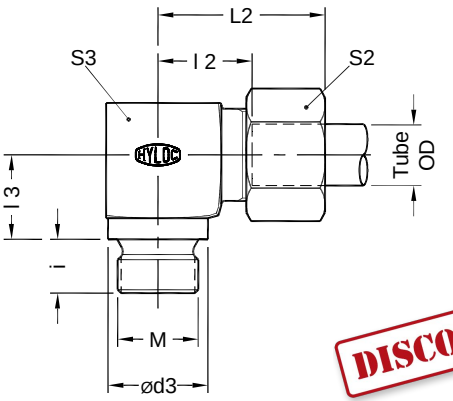
DISCONTINUED

High Pressure Series

Part No.	Series	Tube od	M Male Metric thread	ø d3	i	l 1	* L1	S1	S2
GE06PSM	Heavy S	6	M12 x 1.5	17	12	13	28.5	17	17
GE08PSM	**630 bar**	8	M14 x 1.5	19	12	15	30	19	19
GE10PSM		10	M16 x 1.5	21	12	15	32	22	22
GE12PSM		12	M18 x 1.5	23	12	17	33.5	24	24
GE12PSM22		12	M22 x 1.5	27	14	17.5	34	27	24
GE16PSM18	400 bar	16	M18 x 1.5	23	12	18	37	27	30
GE16PSM		16	M22 x 1.5	27	14	18.5	37.5	27	30
GE20PSM		20	M27 x 2.0	32	16	20.5	43	32	36
GE25PSM		25	M33 x 2.0	39	18	23	48	41	46
GE30PSM	250 bar	30	M42 x 2.0	49	20	23.5	51.5	50	50
GE38PSM		38	M48 x 2.0	55	22	26	57.5	55	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
and Metric (M) stud end

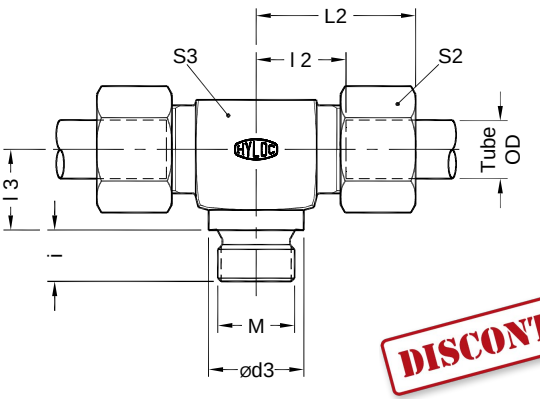


DISCONTINUED

Part No.	Series	Tube od	M Male Metric thread	ø d3	i	l 2	l 3	* L2	S2	S3
WE22PLM	160 bar	22	M 26 x 1.5	32	16	27.5	26	44.5	36	32
WE28PLM	100 bar	28	M 33 x 2.0	39	18	30.5	30	48.5	41	41
WE35PLM	**Light L**	35	M 42 x 2.0	49	20	34.5	34	57.5	50	50
WE42PLM		42	M 48 x 2.0	55	22	40.0	39	63.5	60	55
WE20PSM	400 bar	20	M 27 x 2.0	32	16	26.5	26	49.0	36	32
WE25PSM	**Heavy S**	25	M 33 x 2.0	39	18	30.0	30	55.0	46	41
WE30PSM	250 bar	30	M 42 x 2.0	49	20	35.5	34	63.5	50	50
WE38PSM		38	M 48 x 2.0	55	22	41.0	39	72.5	60	55

* Dimensions given are approx figures with tightened nut.

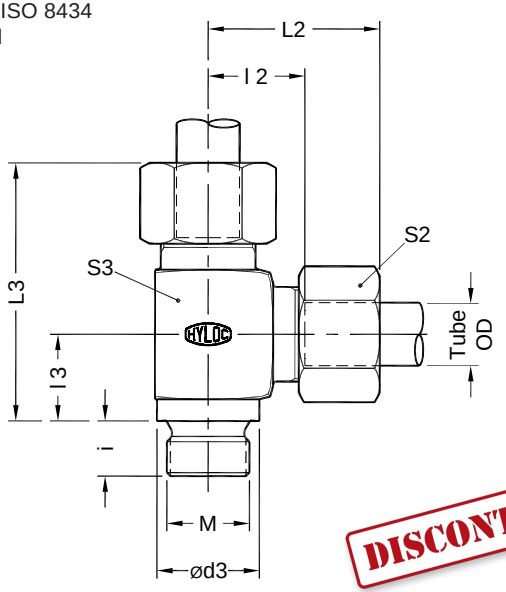
Metric Tube end as per ISO 8434
and Metric (M) stud end



Part No.	Series	Tube od	M Male Metric thread	ø d3	i	l 2	l 3	✻ L2	S2	S3
TE22PLM	160 bar	22	M 26 x 1.5	32	16	27.5	26	44.5	36	32
TE28PLM	100 bar	28	M 33 x 2.0	39	18	30.5	30	48.5	41	41
TE35PLM	**Light L**	35	M 42 x 2.0	49	20	34.5	34	57.5	50	50
TE42PLM		42	M 48 x 2.0	55	22	40.0	39	63.5	60	55
TE20PSM	400 bar	20	M 27 x 2.0	32	16	26.5	26	49.0	36	32
TE25PSM	**Heavy S**	25	M 33 x 2.0	39	18	30.0	30	55.0	46	41
TE30PSM	250 bar	30	M 42 x 2.0	49	20	35.5	34	63.5	50	50
TE38PSM		38	M 48 x 2.0	55	22	41.0	39	72.5	60	55

✻ Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
and Metric (M) stud end



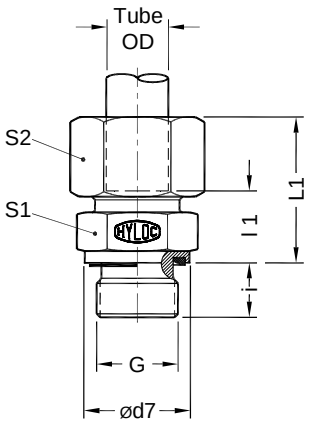
DISCONTINUED

Part No.	Series	Tube od	M Male Metric thread	ø d3	i	l 2	l 3	* L2	* L3	S2	S3
LE22PLM	160 bar	22	M 26 x 1.5	32	16	27.5	26	44.5	70.5	36	32
LE28PLM	100 bar	28	M 33 x 2.0	39	18	30.5	30	48.5	78.5	41	41
LE35PLM	**Light L**	35	M 42 x 2.0	49	20	34.5	34	57.5	91.5	50	50
LE42PLM		42	M 48 x 2.0	55	22	40.0	39	63.5	102.5	60	55
LE20PSM	400 bar	20	M 27 x 2.0	32	16	26.5	26	49.0	75.0	36	32
LE25PSM	**Heavy S**	25	M 33 x 2.0	39	18	30.0	30	55.0	85.0	46	41
LE30PSM	250 bar	30	M 42 x 2.0	49	20	35.5	34	63.5	97.5	50	50
LE38PSM		38	M 48 x 2.0	55	22	41.0	39	72.5	111.5	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

Male BSPP (G) Thread as per DIN 3852, Part 11 with Elastomeric seal

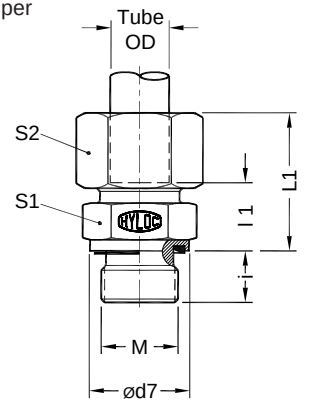


Part No.	Series	Tube od	G Male BSP thread	ø d7	i	l 1	* L1	S1	S2
GE06PLGE	**Light L**	6	G 1/8 A	14	8	8.5	24	14	14
GE08PLGE	250 bar	8	G 1/4 A	19	12	10	25	19	17
GE10PLGE		10	G 1/4 A	19	12	11	26.5	19	19
GE12PLGE		12	G 3/8 A	22	12	12.5	27.5	22	22
GE15PLGE		15	G 1/2 A	27	14	14	30	27	27
GE18PLGE	160 bar	18	G 1/2 A	27	14	14.5	31.5	27	32
GE22PLGE		22	G 3/4 A	32	16	16.5	33.5	32	36
GE28PLGE	100 bar	28	G 1 A	40	18	17.5	35.5	41	41
GE35PLGE		35	G1 1/4 A	50	20	17.5	40.5	50	50
GE42PLGE		42	G1 1/2 A	55	22	19	42.5	55	60
GE06PSGE	**Heavy S**	6	G 1/4 A	19	12	13	28.5	19	17
GE08PSGE	630 bar	8	G 1/4 A	19	12	15	30	19	19
GE10PSGE		10	G 3/8 A	22	12	15	32	22	22
GE12PSGE		12	G 3/8 A	22	12	17	33.5	22	24
GE16PSGE	400 bar	16	G 1/2 A	27	14	18.5	37.5	27	30
GE20PSGE		20	G 3/4 A	32	16	20.5	43	32	36
GE25PSGE		25	G 1 A	40	18	23	48	41	46
GE30PSGE	250 bar	30	G1 1/4 A	50	20	23.5	51.5	50	50
GE38PSGE		38	G1 1/2 A	55	22	26	57.5	55	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

Male Metric (M) Thread as per
DIN 3852 Part 11,
ISO 9974 Form E
with Elastomeric seal

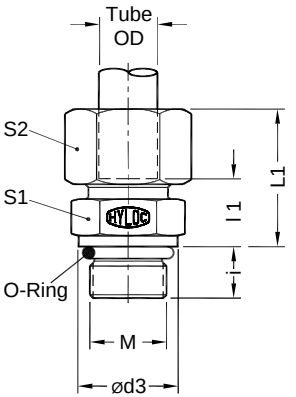


Part No.	Series	Tube od	M Male Metric thread	ø d7	i	l 1	* L1	S1	S2
GE06PLME	**Light L**	6	M10 x 1.0	14	8	8.5	24	14	14
GE08PLME	250 bar	8	M12 x 1.5	17	12	10	25	17	17
GE10PLME		10	M14 x 1.5	19	12	11	26.5	19	19
GE12PLME		12	M16 x 1.5	22	12	12.5	27.5	22	22
GE15PLME		15	M18 x 1.5	24	12	13.5	29.5	24	27
GE18PLME	160 bar	18	M22 x 1.5	27	14	14.5	31.5	27	32
GE22PLME		22	M26 x 1.5	32	16	16.5	33.5	32	36
GE28PLME	100 bar	28	M33 x 2.0	40	18	17.5	35.5	41	41
GE35PLME		35	M42 x 2.0	50	20	17.5	40.5	50	50
GE42PLME		42	M48 x 2.0	55	22	19	42.5	55	60
GE06PSME	**Heavy S**	6	M12 x 1.5	17	12	13	28.5	17	17
GE08PSME	630 bar	8	M14 x 1.5	19	12	15	30	19	19
GE10PSME		10	M16 x 1.5	22	12	15	32	22	22
GE12PSME		12	M18 x 1.5	24	12	17	33.5	24	24
GE16PSME	400 bar	16	M22 x 1.5	27	14	18.5	37.5	27	30
GE20PSME		20	M27 x 2.0	32	16	20.5	43	32	36
GE25PSME		25	M33 x 2.0	40	18	23	48	41	46
GE30PSME	250 bar	30	M42 x 2.0	50	20	23.5	51.5	50	50
GE38PSME		38	M48 x 2.0	55	22	26	57.5	55	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434 and Metric stud end.

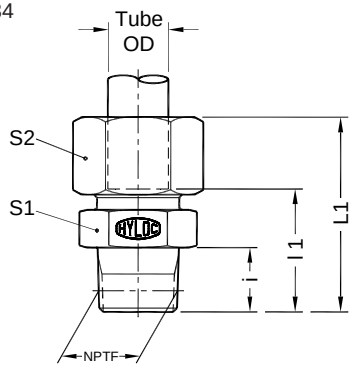
Male Metric (M) Threads with O-Ring sealing for port tappings according to ISO 6149 or DIN 3852 Part 3



Part No.	Series	Tube od	M Male Metric threads	ø d3	i	l 1	* L1	S1	S2	O-Ring ID x CSD ~ 90 Shore
GE06PLMO	**Light**	6	M10 x 1.0	14	9.5	8.5	24	14	14	8.1 x 1.6
GE08PLMO	**L**	8	M12 x 1.5	17	11	10	25	17	17	9.3 x 2.2
GE10PLMO	315	10	M14 x 1.5	19	11	11	26.5	19	19	11.3 x 2.2
GE12PLMO	bar	12	M16 x 1.5	22	12.5	12.5	27.5	22	22	13.3 x 2.2
GE15PLMO		15	M18 x 1.5	24	14	13.5	29.5	24	27	15.3 x 2.2
GE18PLMO		18	M22 x 1.5	27	15	14.5	31.5	27	32	19.3 x 2.2
GE22PLM27O	160	22	M27 x 2.0	32	18.5	16.5	33.5	32	36	23.6 x 2.9
GE28PLMO	bar	28	M33 x 2.0	41	18.5	17.5	35.5	41	41	29.6 x 2.9
GE35PLMO		35	M42 x 2.0	50	19	17.5	40.5	50	50	38.6 x 2.9
GE42PLMO		42	M48 x 2.0	55	21.5	19.5	43	55	60	44.6 x 2.9
GE06PSMO	**Heavy**	6	M12 x 1.5	17	11	13	28.5	17	17	9.3 x 2.2
GE08PSMO	**S**	8	M14 x 1.5	19	11	15	30	19	19	11.3 x 2.2
GE10PSMO	630	10	M16 x 1.5	22	12.5	15	32	22	22	13.3 x 2.2
GE12PSMO	bar	12	M18 x 1.5	24	14	17	33.5	24	24	15.3 x 2.2
GE16PSMO	400	16	M22 x 1.5	27	15	18.5	37.5	27	30	19.3 x 2.2
GE20PSMO	bar	20	M27 x 2.0	32	18.5	20.5	43	32	36	23.6 x 2.9
GE25PSMO		25	M33 x 2.0	41	18.5	23	48	41	46	29.6 x 2.9
GE30PSMO		30	M42 x 2.0	50	19	23.5	51.5	50	50	38.6 x 2.9
GE38PSMO		38	M48 x 2.0	55	21.5	26.5	58	55	60	44.6 x 2.9

* Dimensions given are approx figures with tightened nut.

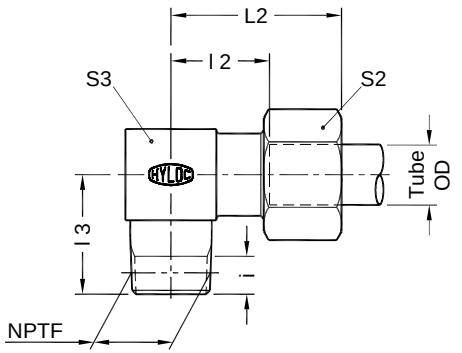
Metric Tube end as per ISO 8434
and NPTF stud end



Part No.	Series	Tube od	Male NPTF thread	i	l 1	* L1	S1	S2
GE06PLN	**Light L**	6	1/8"-27	9.9	17	32.5	12	14
GE06PLN02	250 bar	6	1/4"-18	15.1	23	38.5	17	14
GE08PLN		8	1/4"-18	15.1	23	38	17	17
GE10PLN		10	1/4"-18	15.1	24	39.5	17	19
GE12PLN02		12	1/4"-18	15.1	25	40	19	22
GE12PLN		12	3/8"-18	15.2	25	40	19	22
GE12PLN04		12	1/2"-14	19.8	30	45	22	22
GE15PLN		15	1/2"-14	19.8	31	47	24	27
GE18PLN	160bar	18	1/2"-14	19.8	31.5	48.5	27	32
GE22PLN		22	3/4"-14	20.1	33.5	50.5	32	36
GE28PLN	100 bar	28	1"-11 1/2	25	39.5	57.5	41	41
GE35PLN		35	1 1/4"-11 1/2	25.6	40.5	63.5	46	50
GE42PLN		42	1 1/2"-11 1/2	26	42	65.5	55	60
GE06PSN	Heavy S	6	1/4"-18	15.1	28	43.5	17	17
GE08PSN	630 bar	8	1/4"-18	15.1	28	43	17	19
GE10PSN02		10	1/4"-18	15.1	27.5	44.5	19	22
GE10PSN		10	3/8"-18	15.2	27.5	44.5	19	22
GE12PSN02		12	1/4"-18	15.1	29.5	46	22	24
GE12PSN		12	3/8"-18	15.2	29.5	46	22	24
GE12PSN04		12	1/2"-14	19.8	34.5	51	22	24
GE16PSN	400 bar	16	1/2"-14	19.8	35.5	54.5	27	30
GE20PSN		20	3/4"-14	20.1	37.5	60	32	36
GE25PSN		25	1"-11 1/2	25	45	70	41	46
GE30PSN	250 bar	30	1 1/4"-11 1/2	25.6	46.5	74.5	46	50
GE38PSN		38	1 1/2"-11 1/2	26	49	80.5	55	60

* Dimensions given are approx figures with tightened nut.

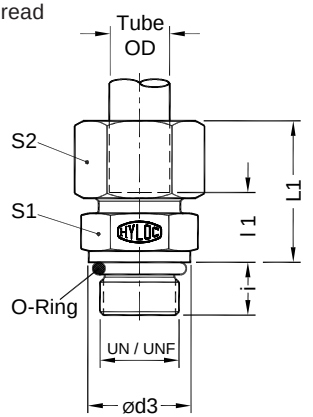
Metric Tube end as per ISO 8434
and NPTF stud end



Part No.	Series	Tube od	Male NPTF thread	i	l 2	l 3	* L2	S2	S3
WE06PLN	**Light L**	6	1/8-27	9.9	12.0	20	27.5	14	12
WE08PLN	250 bar	8	1/4-18	15.1	14.0	26	29.0	17	14
WE10PLN		10	1/4-18	15.1	15.0	28	30.5	19	17
WE12PLN		12	3/8-18	15.2	17.0	30	32.0	22	19
WE15PLN		15	1/2-14	19.8	21.0	37	37.0	27	22
WE18PLN	160 bar	18	1/2-14	19.8	23.5	40	40.5	32	27
WE22PLN		22	3/4-14	20.1	27.5	42	44.5	36	30
WE28PLN	100 bar	28	1- 11 1/2	25	30.5	50	48.5	41	36
WE35PLN		35	1.1/4-11 1/2	25.6	34.5	56	57.5	50	46
WE42PLN		42	1.1/2-11 1/2	26	40.0	62	63.5	60	55
WE06PSN	**Heavy S**	6	1/4-18	15.1	16.0	26	31.5	17	14
WE08PSN	630 bar	8	1/4-18	15.1	17.0	28	32.0	19	17
WE10PSN		10	3/8-18	15.2	17.5	30	34.5	22	19
WE12PSN		12	3/8-18	15.2	21.5	31	38.0	24	22
WE16PSN	400 bar	16	1/2-14	19.8	24.5	39	43.5	30	27
WE20PSN		20	3/4-14	20.1	26.5	43	49.0	36	30
WE25PSN		25	1-11 1/2	25	30.0	54	55.0	46	36
WE30PSN	250 bar	30	1.1/4-11 1/2	25.6	35.5	56	63.5	50	46
WE38PSN		38	1.1/2-11 1/2	26	41.0	62	72.5	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - SAE Straight thread
with O-Ring sealing

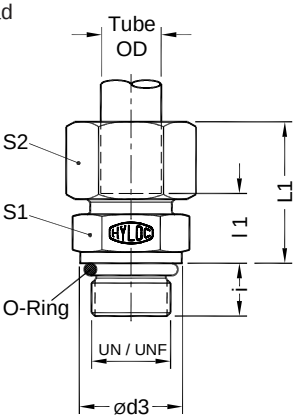


Low Pressure Series

Part No.	Series	Tube od	Male UN/UNF Class 2A	ø d3	i	l 1	* L1	S1	S2	O-Ring ID x CSD
GE08PLS	**Light**	8	7/16 - 20 UNF	14.1	11	10	25.5	17	17	8.92 x 1.83
GE10PLS	250	10	7/16 - 20 UNF	14.1	11	11	26	17	19	8.92 x 1.83
GE12PLS	bar	12	9/16 - 18 UNF	17.3	12	11	26.5	19	22	11.9 x 1.98
GE12PLS08		12	3/4 -16 UNF	22.0	14	13	28	24	22	16.36 x 2.20
GE12PLS10		12	7/8 -14 UNF	25.2	16	14	29	27	22	19.18 x 2.46
GE15PLS		15	3/4 -16 UNF	22.0	14	14	29	24	27	16.36 x 2.20
GE15PLS10		15	7/8 -14 UNF	25.2	16	15	31	27	27	19.18 x 2.46
GE18PLS	160	18	3/4 -16 UNF	22.0	14	14.5	30.5	27	32	16.36 x 2.20
GE18PLS10	bar	18	7/8 -14 UNF	25.2	16	14.5	31.5	27	32	19.18 x 2.46
GE22PLS		22	7/8 -14 UNF	25.2	16	16.5	33.5	32	36	19.18 x 2.46
GE22PLS12		22	1,1/16 -12 UN	31.5	18.5	16.5	33.5	32	36	23.47 x 2.95
GE22PLS16		22	1,5/16 -12 UN	37.9	18.5	17.5	34.5	41	36	29.74 x 2.95
GE28PLS		28	1,1/16 -12 UN	31.5	18.5	17.5	34.5	41	41	23.47 x 2.95
GE28PLS16	100	28	1,5/16 -12 UN	37.9	18.5	17.5	35.5	41	41	29.74 x 2.95
GE35PLS	bar	35	1,5/16 -12 UN	37.9	18.5	17.5	40.5	46	50	29.74 x 2.95
GE35PLS20		35	1,5/8 -12 UN	47.4	18.5	17.5	40.5	50	50	37.46 x 3.00
GE42PLS		42	1 ,5/8 -12 UN	47.4	18.5	19	42.5	55	60	37.46 x 3.00

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - SAE Straight thread
with O-Ring sealing

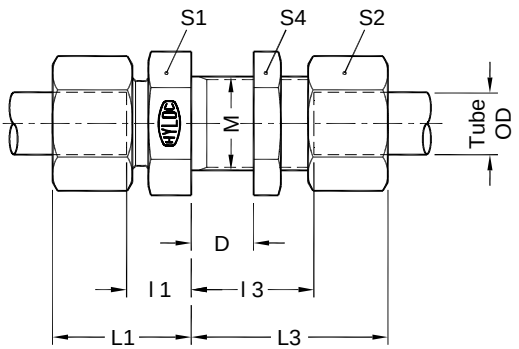


High Pressure Series

Part No.	Series	Tube od	Male UN/UNF Class 2A	ø d3	i	l 1	* L1	S1	S2	O-Ring ID x CSD
GE08PSS	**Heavy**	8	7/16-20 UNF	14.1	11	15	30	17	19	8.92 x 1.83
GE10PSS	630	10	9/16-18 UNF	17.3	12	14.5	31.5	19	22	11.9 x 1.98
GE12PSS	bar	12	9/16-18 UNF	17.3	12	14.5	31	22	24	11.9 x 1.98
GE12PSS08		12	3/4 -16 UNF	22	14	17.5	34	24	24	16.36 x 2.20
GE16PSS	400	16	3/4 -16 UNF	22	14	15.5	34.5	24	30	16.36 x 2.20
GE16PSS10	bar	16	7/8 -14 UNF	25.2	16	18.5	37.5	27	30	19.18 x 2.46
GE20PSS08		20	3/4 -16 UNF	22	14	20.5	43	32	36	16.36 x 2.20
GE20PSS		20	7/8 -14 UNF	25.2	16	20.5	43	32	36	19.18 x 2.46
GE20PSS12		20	1,1/16-12 UN	31.5	18.5	20.5	43	32	36	23.47 x 2.95
GE25PSS		25	1,1/16-12 UN	31.5	18.5	23	48	36	46	23.47 x 2.95
GE25PSS16		25	1,5/16-12 UN	37.9	18.5	23	48	41	46	29.74 x 2.95
GE30PSS	250	30	1,5/16-12 UN	37.9	18.5	23.5	51.5	46	50	29.74 x 2.95
GE30PSS20	bar	30	1,5/8-12 UN	47.4	18.5	23.5	51.5	50	50	37.46 x 3.00
GE30PSS24		30	1,7/8-12 UN	53.8	18.5	23.5	51.5	55	50	43.69 x 3.00
GE38PSS		38	1,5/8-12 UN	47.4	18.5	26	57.5	55	60	37.46 x 3.00
GE38PSS24		38	1,7/8-12 UN	53.8	18.5	26	57.5	55	60	43.69 x 3.00

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434



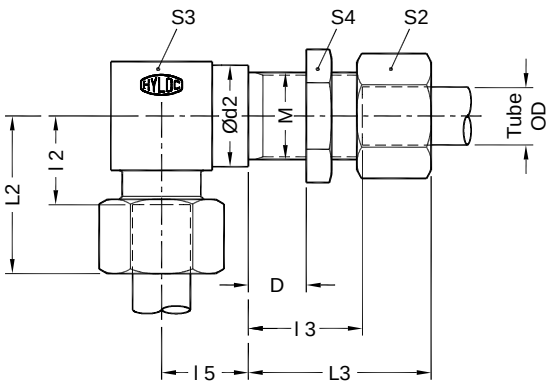
D = 16mm (max)

Lock nut part number - GM

Part No.	Series	Tube od	M	l 1	l 3	L1 *	L3 *	S1	S2	S4
SV06PL	**Light L**	6	M12 x 1.5	7	27.0	22.5	42.5	17	14	17
SV08PL	250 bar	8	M14 x 1.5	8	27.0	23.0	42.0	19	17	19
SV10PL		10	M16 x 1.5	10	28.0	25.5	43.5	22	19	22
SV12PL		12	M18 x 1.5	10	29.0	25.0	44.0	24	22	24
SV15PL		15	M22 x 1.5	12	31.0	28.0	47.0	27	27	30
SV18PL	160 bar	18	M26 x 1.5	13.5	32.5	30.5	49.5	32	32	36
SV22PL		22	M30 x 2.0	16.5	34.5	33.5	51.5	36	36	41
SV28PL	100 bar	28	M36 x 2.0	18.5	35.5	36.5	53.5	41	41	46
SV35PL		35	M45 x 2.0	18.5	36.5	41.5	59.5	50	50	55
SV42PL		42	M52 x 2.0	19	36.0	42.5	59.5	60	60	65
SV06PS	**Heavy S**	6	M14 x 1.5	12	29.0	27.5	44.5	19	17	19
SV08PS	630 bar	8	M16 x 1.5	13	29.0	28.0	44.0	22	19	22
SV10PS		10	M18 x 1.5	14.5	29.5	31.5	46.5	24	22	24
SV12PS		12	M20 x 1.5	14.5	30.5	31.0	47.0	27	24	27
SV16PS	400 bar	16	M24 x 1.5	16.5	31.5	35.5	50.5	32	30	32
SV20PS		20	M30 x 2.0	17.5	33.5	40.0	56.0	41	36	41
SV25PS		25	M36 x 2.0	20	35.0	45.0	60.0	46	46	46
SV30PS	250 bar	30	M42 x 2.0	21.5	37.5	49.5	65.5	50	50	50
SV38PS		38	M52 x 2.0	22	37.0	53.5	68.5	65	60	65

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434



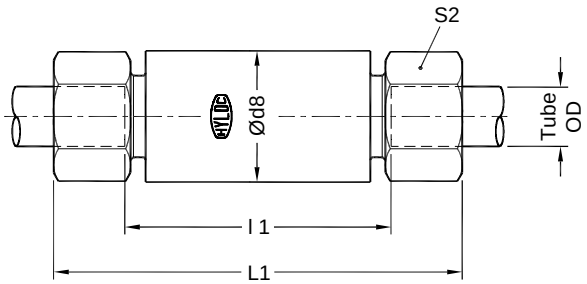
D = 16mm (max)

Lock nut part number - GM

Part No.	Series	Tube od	M	ød2	l 2	l 3	l 5	L2 *	L3 *	S2	S3	S4
WSV06PL	**Light L**	6	M12 x 1.5	17	12.0	27.0	14	27.5	42.5	14	17	17
WSV08PL	250 bar	8	M14 x 1.5	19	14.0	27.0	17	29.0	42.0	17	19	19
WSV10PL		10	M16 x 1.5	22	15.0	28.0	18	30.5	43.5	19	22	22
WSV12PL		12	M18 x 1.5	24	17.0	29.0	20	32.0	44.0	22	24	24
WSV15PL		15	M22 x 1.5	27	21.0	31.0	23	37.0	47.0	27	27	30
WSV18PL	160 bar	18	M26 x 1.5	32	23.5	32.5	24	40.5	49.5	32	32	36
WSV22PL		22	M30 x 2.0	36	27.5	34.5	30	44.5	51.5	36	36	41
WSV28PL	100 bar	28	M36 x 2.0	42	30.5	35.5	34	48.5	53.5	41	42	46
WSV35PL		35	M45 x 2.0	50	34.5	36.5	39	57.5	59.5	50	50	55
WSV42PL		42	M52 x 2.0	60	40.0	36.0	43	63.5	59.5	60	60	65
WSV06PS	**Heavy S**	6	M14 x 1.5	19	16.0	29.0	17	31.5	44.5	17	19	19
WSV08PS		8	M16 x 1.5	22	17.0	29.0	18	32.0	44.0	19	22	22
WSV10PS	630 bar	10	M18 x 1.5	24	17.5	29.5	20	34.5	46.5	22	24	24
WSV12PS		12	M20 x 1.5	27	21.5	30.5	21	38.0	47.0	24	27	27
WSV16PS	400 bar	16	M24 x 1.5	30	24.5	31.5	24	43.5	50.5	30	30	32
WSV20PS		20	M30 x 2.0	36	26.5	33.5	30	49.0	56.0	36	36	41
WSV25PS		25	M36 x 2.0	42	30.0	35.0	34	55.0	60.0	46	42	46
WSV30PS	250 bar	30	M42 x 2.0	50	35.5	37.5	39	63.5	65.5	50	50	50
WSV38PS		38	M52 x 2.0	60	41.0	37.0	43	72.5	68.5	60	60	65

* Dimensions given are approx figures with tightened nut.

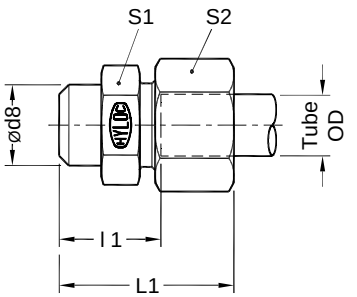
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	Ød8	l 1	L1 *	S2
ESV06PL	**Light L**	6	18	56	87	14
ESV08PL	250 bar	8	20	56	86	17
ESV10PL		10	22	58	89	19
ESV12PL		12	25	58	88	22
ESV15PL		15	28	70	102	27
ESV18PL	160 bar	18	32	69	103	32
ESV22PL		22	36	73	107	36
ESV28PL	100 bar	28	40	73	109	41
ESV35PL		35	50	71	117	50
ESV42PL		42	60	70	117	60
ESV06PS	**Heavy S**	6	20	60	91	17
ESV08PS	630 bar	8	22	60	90	19
ESV10PS		10	25	59	93	22
ESV12PS		12	28	59	92	24
ESV16PS	400 bar	16	35	71	109	30
ESV20PS		20	38	71	116	36
ESV25PS		25	45	72	122	46
ESV30PS	250 bar	30	50	73	129	50
ESV38PS		38	60	72	135	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

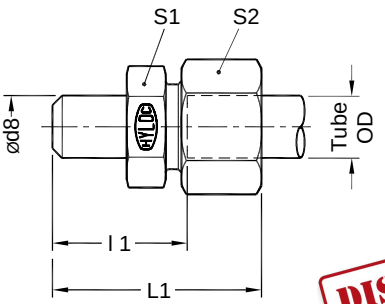


Part No.	Series	Tube od	ød8	l 1	L1 *	S1	S2
AS06PL	**Light L**	6	10	14.0	29.5	12	14
AS08PL	250 bar	8	12	16.0	31.0	14	17
AS10PL		10	14	18.0	33.5	17	19
AS12PL		12	16	18.0	33.0	19	22
AS15PL		15	19	22.0	38.0	22	27
AS18PL	160 bar	18	22	23.5	40.5	27	32
AS22PL		22	27	28.5	45.5	32	36
AS28PL	100 bar	28	32	30.5	48.5	41	41
AS35PL		35	40	32.5	55.5	46	50
AS42PL		42	46	35.0	58.5	55	60
AS06PS	**Heavy S**	6	11	19.0	34.5	14	17
AS08PS	630 bar	8	13	21.0	36.0	17	19
AS10PS		10	15	22.5	39.5	19	22
AS12PS		12	17	24.5	41.0	22	24
AS16PS	400 bar	16	21	26.5	45.5	27	30
AS20PS		20	26	29.5	52.0	32	36
AS25PS		25	31	32.0	57.0	41	46
AS30PS	250 bar	30	36	35.5	63.5	46	50
AS38PS		38	44	38.0	69.5	55	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

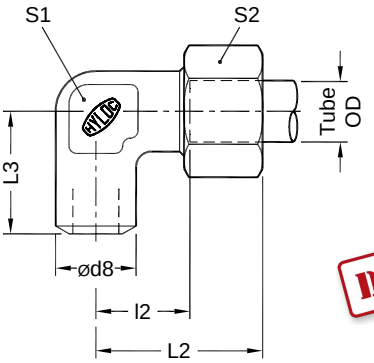
For Equal size Tubes



DISCONTINUED

Part No.	Series	Tube od	ød8	l 1	L1	S1	S2
ASE06PL	**Light L**	6	6	14.0	29.5	12	14
ASE08PL	250 bar	8	8	16.0	31.0	14	17
ASE10PL		10	10	18.0	33.5	17	19
ASE12PL		12	12	18.0	33.0	19	22
ASE15PL		15	15	22.0	38.0	22	27
ASE18PL	160 bar	18	18	23.5	40.5	27	32
ASE22PL		22	22	28.5	45.5	30	36
ASE28PL	100 bar	28	28	30.5	48.5	36	41
ASE35PL		35	35	32.5	55.5	46	50
ASE42PL		42	42	35.0	58.5	55	60
ASE06PS	**Heavy S**	6	6	19.0	34.5	14	17
ASE08PS	630 bar	8	8	21.0	36.0	17	19
ASE10PS		10	10	22.5	39.5	19	22
ASE12PS		12	12	24.5	41.0	22	24
ASE16PS	400 bar	16	16	26.5	45.5	24	30
ASE20PS		20	20	29.5	52.0	30	36
ASE25PS		25	25	32.0	57.0	36	46
ASE30PS	250 bar	30	30	35.5	63.5	46	50
ASE38PS		38	38	38.0	69.5	55	60

Metric Tube end as per ISO 8434

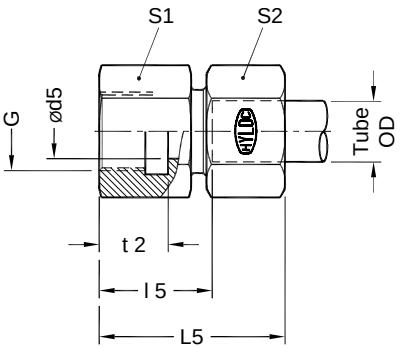


DISCONTINUED

Part No.	Series	Tube od	ød8	l 2	L2 *	L3	S1	S2
WAS06PL	**Light L**	6	10	12.0	27.5	19	12	14
WAS08PL	250 bar	8	12	14.0	29.0	23	12	17
WAS10PL		10	14	15.0	30.5	24	14	19
WAS12PL		12	16	17.0	32.0	25	17	22
WAS15PL		15	19	21.0	37.0	30	22	27
WAS18PL	160 bar	18	22	23.5	40.5	31	24	32
WAS22PL		22	27	27.5	44.5	37	27	36
WAS28PL	100 bar	28	32	30.5	48.5	42	36	41
WAS35PL		35	40	34.5	57.5	49	41	50
WAS42PL		42	46	40.0	63.5	57	50	60
WAS06PS	**Heavy S**	6	11	16.0	31.5	23	12	17
WAS08PS	630 bar	8	13	17.0	32.0	24	14	19
WAS10PS		10	15	17.5	34.5	25	17	22
WAS12PS		12	17	21.5	38.0	29	19	24
WAS16PS	400 bar	16	21	24.5	43.5	33	24	30
WAS20PS		20	26	26.5	49.0	37	27	36
WAS25PS		25	31	30.0	55.0	42	36	46
WAS30PS	250 bar	30	36	35.5	63.5	49	41	50
WAS38PS		38	44	41.0	72.5	57	50	60

* Dimensions given are approx figures with tightened nut.

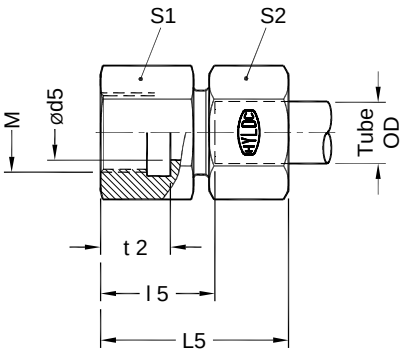
Metric Tube end as per ISO 8434
Female BSPP (G) threads



Part No.	Series	Tube od	G	ød5	t 2	l 5	L5 *	S1	S2
GAI06PLG	**Light L**	6	G 1/8	4	12.0	19.0	34.5	14	14
GAI08PLG	250 bar	8	G 1/4	6	17.0	24.0	39.0	19	17
GAI10PLG		10	G 1/4	8	17.0	25.0	40.5	19	19
GAI12PLG		12	G 3/8	10	17.0	26.0	41.0	24	22
GAI15PLG		15	G 1/2	12	20.0	31.0	47.0	27	27
GAI18PLG	160 bar	18	G 1/2	15	20.0	30.5	47.5	27	32
GAI22PLG		22	G 3/4	19	22.0	35.5	52.5	36	36
GAI28PLG	100 bar	28	G 1	24	24.5	38.0	56.0	41	41
GAI35PLG		35	G1.1/4	30	26.5	41.0	64.0	55	50
GAI42PLG		42	G1.1/2	36	28.5	42.5	66.0	60	60
GAI06PSG	**Heavy S**	6	G 1/4	4	17.0	26.0	41.5	19	17
GAI08PSG	630 bar	8	G 1/4	5	17.0	26.0	41.0	19	19
GAI10PSG		10	G 3/8	7	17.0	26.5	43.5	24	22
GAI12PSG		12	G 3/8	8	17.0	26.5	43.0	24	24
GAI16PSG	400 bar	16	G 1/2	12	20.0	31.5	50.5	30	30
GAI20PSG		20	G 3/4	16	22.0	34.5	57.0	36	36
GAI25PSG		25	G 1	20	24.5	37.5	62.5	41	46
GAI30PSG	250 bar	30	G 1.1/4	25	26.5	42.0	70.0	55	50
GAI38PSG		38	G 1.1/2	32	28.5	43.5	75.0	60	60

* Dimensions given are approx figures with tightened nut.

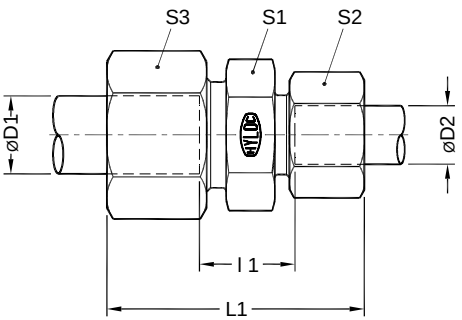
Metric Tube end as per ISO 8434
Female Metric (M) threads



Part No.	Series	Tube od	M	ød5	t 2	l 5	L5 *	S1	S2
GAI06PLM	**Light L**	6	M10 x 1.0	4	12.5	19.5	35.0	14	14
GAI08PLM	250 bar	8	M12 x 1.5	6	17	24.0	39.0	17	17
GAI10PLM		10	M14 x 1.5	8	17	25.0	40.5	19	19
GAI12PLM		12	M16 x 1.5	10	17	26.0	41.0	22	22
GAI15PLM		15	M18 x 1.5	12	17	28.0	44.0	24	27
GAI18PLM	160 bar	18	M22 x 1.5	15	19	29.5	46.5	30	32
GAI22PLM		22	M26 x 1.5	19	21	34.5	51.5	32	36
GAI28PLM	100 bar	28	M33 x 2.0	24	24	37.5	55.5	41	41
GAI35PLM		35	M42 x 2.0	30	26	40.5	63.5	55	50
GAI42PLM		42	M48 x 2.0	36	28	42.0	65.5	60	60
GAI06PSM	**Heavy S**	6	M12 x 1.5	4	17	26.0	41.5	17	17
GAI08PSM	630 bar	8	M14 x 1.5	5	17	26.0	41.0	19	19
GAI10PSM		10	M16 x 1.5	7	17	26.5	43.5	22	22
GAI12PSM		12	M18 x 1.5	8	17	27.5	44.0	24	24
GAI16PSM	400 bar	16	M22 x 1.5	12	19	30.5	49.5	30	30
GAI20PSM		20	M27 x 2.0	16	22	34.5	57.0	36	36
GAI25PSM		25	M33 x 2.0	20	24	37.0	62.0	41	46
GAI30PSM	250 bar	30	M42 x 2.0	25	26	41.5	69.5	55	50
GAI38PSM		38	M48 x 2.0	32	28	43.0	74.5	60	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

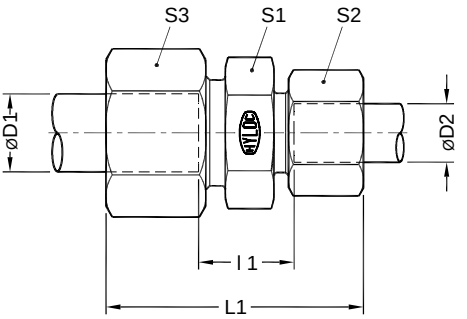


Low Pressure Series

Part No.	Pr (bar)	øD1	øD2	l 1	L1 *	S1	S2	S3
GR0604PLL	100	6	4	10.5	32	12	10	12
GR0804PLL		8	4	12.5	34	12	10	14
GR0806PLL		8	6	11.0	34	12	12	14
GR0806PL	315	8	6	11.0	41.5	14	14	17
GR1006PL	315	10	6	12.0	43.0	17	14	19
GR1008PL		10	8	12.0	42.5	17	17	19
GR1206PL	315	12	6	13.0	43.5	19	14	22
GR1208PL		12	8	13.0	43.0	19	17	22
GR1210PL		12	10	14.0	44.5	19	19	22
GR1510PL	315	15	10	15.0	46.5	24	19	27
GR1512PL		15	12	15.0	46.0	24	22	27
GR1810PL	315	18	10	15.5	48.0	27	19	32
GR1812PL		18	12	15.5	47.5	27	22	32
GR1815PL		18	15	16.5	49.5	27	27	32
GR2212PL	160	22	12	17.5	49.5	32	22	36
GR2215PL		22	15	18.5	51.5	32	27	36
GR2218PL		22	18	18.0	52.0	32	32	36
GR2818PL	160	28	18	19.0	54.0	41	32	41
GR2822PL		28	22	21.0	56.0	41	36	41
GR3522PL	160	35	22	21.0	61.0	46	36	50
GR3528PL		35	28	21.0	62.0	46	41	50

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

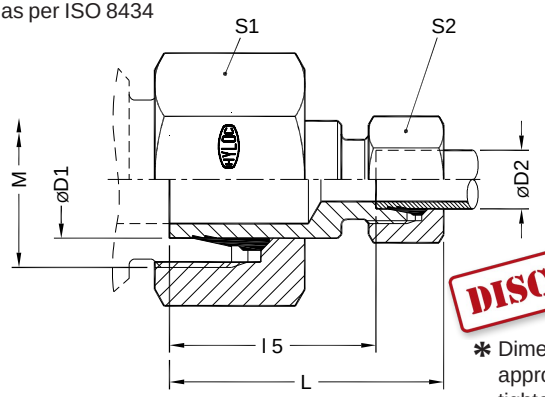


High Pressure Series

Part No.	Pr (bar)	øD1	øD2	l 1	L1 *	S1	S2	S3
GR0806PS	630	8	6	18.0	48.5	17	17	19
GR1006PS	630	10	6	17.5	50.0	19	17	22
GR1008PS		10	8	17.5	49.5	19	19	22
GR1206PS	630	12	6	19.5	51.5	22	17	24
GR1208PS		12	8	19.5	51.0	22	19	24
GR1210PS		12	10	19.0	52.5	22	22	24
GR1612PS	400	16	12	20.0	55.5	27	24	30
GR2010PS	400	20	10	22.0	61.5	32	22	36
GR2012PS		20	12	22.0	61.0	32	24	36
GR2016PS		20	16	23.0	64.5	32	30	36
GR2516PS	400	25	16	25.5	69.5	41	30	46
GR2520PS		25	20	25.5	73.0	41	36	46
GR3020PS	400	30	20	26.0	76.5	46	36	50
GR3025PS		30	25	26.5	79.5	46	46	50
GR3830PS	315	38	30	29.5	89.0	55	50	60

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434



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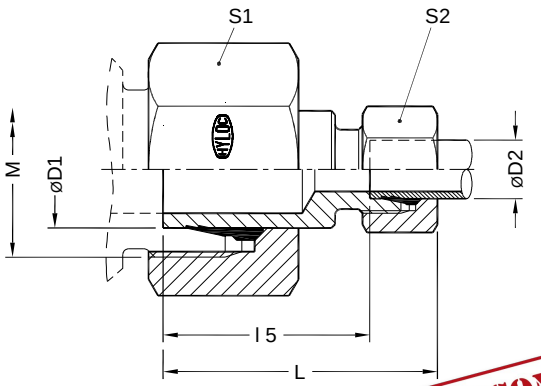
✻ Dimensions given are approx figures with tightened nut.

Low Pressure Series

Part No.	Series	øD1	øD2	M	l 5	L ✻	S1	S2
KOR0806PL	250 bar	8	6	M14 x 1.5	23.5	39.0	17	14
KOR1006PL	250 bar	10	6	M16 x 1.5	23.5	39.0	19	14
KOR1008PL		10	8	M16 x 1.5	23.5	38.5	19	17
KOR1206PL	250 bar	12	6	M18 x 1.5	23.5	39.0	22	14
KOR1208PL		12	8	M18 x 1.5	23.5	38.5	22	17
KOR1210PL		12	10	M18 x 1.5	24.5	40.0	22	19
KOR1506PL	250 bar	15	6	M22 x 1.5	23.5	39.0	27	14
KOR1508PL		15	8	M22 x 1.5	23.5	38.5	27	17
KOR1510PL		15	10	M22 x 1.5	24.5	40.0	27	19
KOR1512PL		15	12	M22 x 1.5	24.5	39.5	27	22
KOR1806PL	160 bar	18	6	M26 x 1.5	24.5	40.0	32	14
KOR1808PL		18	8	M26 x 1.5	24.5	39.5	32	17
KOR1810PL		18	10	M26 x 1.5	25.5	41.0	32	19
KOR1812PL		18	12	M26 x 1.5	25.5	40.5	32	22
KOR1815PL		18	15	M26 x 1.5	26.5	42.5	32	27
KOR2206PL	160 bar	22	6	M30 x 2.0	25.5	41.0	36	14
KOR2208PL		22	8	M30 x 2.0	25.5	40.5	36	17
KOR2210PL		22	10	M30 x 2.0	26.5	42.0	36	19
KOR2212PL		22	12	M30 x 2.0	26.5	41.5	36	22
KOR2215PL		22	15	M30 x 2.0	27.5	43.5	36	27
KOR2218PL		22	18	M30 x 2.0	27.0	44.0	36	32
KOR2806PL	100 bar	28	6	M36 x 2.0	26.5	42.0	41	14
KOR2808PL		28	8	M36 x 2.0	26.5	41.5	41	17
KOR2810PL		28	10	M36 x 2.0	27.5	43.0	41	19
KOR2812PL		28	12	M36 x 2.0	27.5	42.5	41	22
KOR2815PL		28	15	M36 x 2.0	28.5	44.5	41	27
KOR2818PL		28	18	M36 x 2.0	28.0	45.0	41	32
KOR2822PL		28	22	M36 x 2.0	30.0	47.0	41	36

Metric Tube end as per ISO 8434



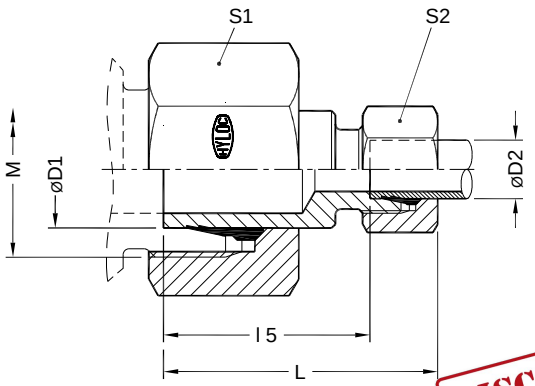
DISCONTINUED

Low Pressure Series

Part No.	Series	øD1	øD2	M	l 5	*L	S1	S2
KOR3506PL	**100 bar**	35	6	M45 x 2.0	31.5	47.0	50	14
KOR3508PL		35	8	M45 x 2.0	31.5	46.5	50	17
KOR3510PL		35	10	M45 x 2.0	32.5	48.0	50	19
KOR3512PL		35	12	M45 x 2.0	32.5	47.5	50	22
KOR3515PL		35	15	M45 x 2.0	33.5	49.5	50	27
KOR3518PL		35	18	M45 x 2.0	33.0	50.0	50	32
KOR3522PL		35	22	M45 x 2.0	35.0	52.0	50	36
KOR3528PL		35	28	M45 x 2.0	35.0	53.0	50	41
KOR4210PL	**100 bar**	42	10	M52 x 2.0	33.5	49.0	60	19
KOR4212PL		42	12	M52 x 2.0	33.5	48.5	60	22
KOR4215PL		42	15	M52 x 2.0	34.5	50.5	60	27
KOR4218PL		42	18	M52 x 2.0	34.0	51.0	60	32
KOR4222PL		42	22	M52 x 2.0	36.0	53.0	60	36
KOR4228PL		42	28	M52 x 2.0	36.0	54.0	60	41
KOR4235PL		42	35	M52 x 2.0	35.0	58.0	60	50

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434



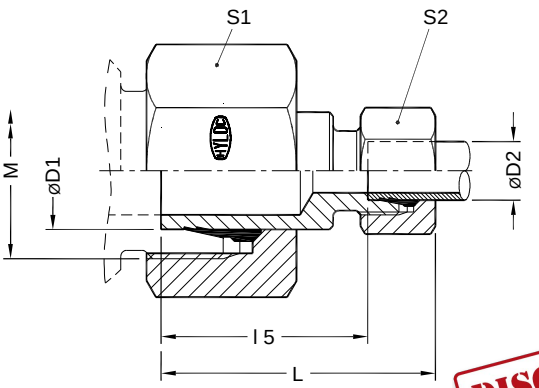
DISCONTINUED

High Pressure Series

Part No.	Series	øD1	øD2	M	l 5	L	S1	S2
KOR0806PS	**250 bar**	8	6	M16 x 1.5	25.0	40.5	19	17
KOR1006PS	**250 bar**	10	6	M18 x 1.5	26.0	41.5	22	17
KOR1008PS		10	8	M18 x 1.5	26.0	41.0	22	19
KOR1206PS	**250 bar**	12	6	M20 x 1.5	27.0	42.5	24	17
KOR1208PS		12	8	M20 x 1.5	27.0	42.0	24	19
KOR1210PS		12	10	M20 x 1.5	26.5	43.5	24	22
KOR1606PS	**160 bar**	16	6	M24 x 1.5	29.0	44.5	30	17
KOR1608PS		16	8	M24 x 1.5	29.0	44.0	30	19
KOR1610PS		16	10	M24 x 1.5	28.5	45.5	30	22
KOR1612PS		16	12	M24 x 1.5	28.5	43.5	30	24
KOR2006PS	**160 bar**	20	6	M30 x 2.0	34.0	49.5	36	17
KOR2008PS		20	8	M30 x 2.0	34.0	49.0	36	19
KOR2010PS		20	10	M30 x 2.0	33.5	50.5	36	22
KOR2012PS		20	12	M30 x 2.0	33.5	50.0	36	24
KOR2016PS		20	16	M30 x 2.0	34.5	53.5	36	30
KOR2506 PS	**100 bar**	25	6	M36 x 2.0	37.0	52.5	46	17
KOR2508PS		25	8	M36 x 2.0	37.0	52.0	46	19
KOR2510PS		25	10	M36 x 2.0	36.5	53.5	46	22
KOR2512PS		25	12	M36 x 2.0	36.5	53.0	46	24
KOR2516PS		25	16	M36 x 2.0	36.5	55.5	46	30
KOR2520PS		25	20	M36 x 2.0	37.5	60.0	46	36

✻ Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434



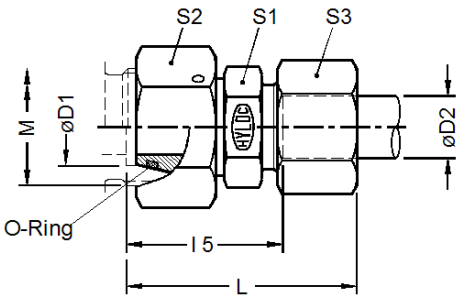
DISCONTINUED

High Pressure Series

Part No.	Series	øD1	øD2	M	l 5	L *	S1	S2
KOR3006PS	**100 bar**	30	6	M42 x 2.0	39.0	54.5	50	17
KOR3008PS		30	8	M42 x 2.0	39.0	54.0	50	19
KOR3010PS		30	10	M42 x 2.0	38.5	55.5	50	22
KOR3012PS		30	12	M42 x 2.0	38.5	55.0	50	24
KOR3016PS		30	16	M42 x 2.0	39.5	58.5	50	30
KOR3020PS		30	20	M42 x 2.0	39.5	62.0	50	36
KOR3025PS		30	25	M42 x 2.0	40.0	65.0	50	46
KOR3806PS	**100 bar**	38	6	M52 x 2.0	43.0	58.5	60	17
KOR3808PS		38	8	M52 x 2.0	43.0	58.0	60	19
KOR3810PS		38	10	M52 x 2.0	42.5	59.5	60	22
KOR3812PS		38	12	M52 x 2.0	42.5	59.0	60	24
KOR3816PS		38	16	M52 x 2.0	43.5	62.5	60	30
KOR3820PS		38	20	M52 x 2.0	43.5	66.0	60	36
KOR3825PS		38	25	M52 x 2.0	44.0	69.0	60	46
KOR3830PS		38	30	M52 x 2.0	44.5	72.5	60	50

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

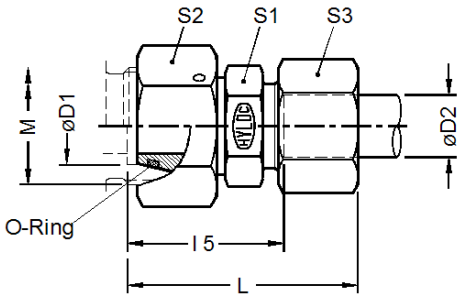


Low Pressure Series

Part No.	Series	øD1	øD2	M	l 5	L *	S1	S2	S3	O' Ring I.DxC.S.D.
RED0806PL	**315 bar**	8	6	M14 x 1.5	23.5	39.0	12	17	14	6.0 x 1.5
RED1006PL	**315 bar**	10	6	M16 x 1.5	25.0	40.5	14	19	14	7.5 x 1.5
RED1008PL		10	8	M16 x 1.5	25.0	40.0	14	19	17	
RED1206PL	**315 bar**	12	6	M18 x 1.5	25.0	40.5	17	22	14	9.0 x 1.5
RED1208PL		12	8	M18 x 1.5	25.0	40.0	17	22	17	
RED1210PL		12	10	M18 x 1.5	26.0	41.5	17	22	19	
RED1506PL	**315 bar**	15	6	M22 x 1.5	28.5	44.0	19	27	14	12 x 2.0
RED1508PL		15	8	M22 x 1.5	28.5	43.5	19	27	17	
RED1510PL		15	10	M22 x 1.5	29.5	45.0	19	27	19	
RED1512PL		15	12	M22 x 1.5	29.5	44.5	19	27	22	
RED1806PL	**315 bar**	18	6	M26 x 1.5	28.0	43.5	24	32	14	15.0 x 2.0
RED1808PL		18	8	M26 x 1.5	28.0	43.0	24	32	17	
RED1810PL		18	10	M26 x 1.5	29.0	44.5	24	32	19	
RED1812PL		18	12	M26 x 1.5	29.0	44.0	24	32	22	
RED1815PL		18	15	M26 x 1.5	30.0	46.0	24	32	27	
RED2206PL	**160 bar**	22	6	M30 x 2.0	32.0	47.5	27	36	14	20.0 x 2.0
RED2208PL		22	8	M30 x 2.0	32.0	47.0	27	36	17	
RED2210PL		22	10	M30 x 2.0	33.0	48.5	27	36	19	
RED2212PL		22	12	M30 x 2.0	33.0	48.0	27	36	22	
RED2215PL		22	15	M30 x 2.0	34.0	50.0	27	36	27	
RED2218PL		22	18	M30 x 2.0	33.5	50.5	27	36	32	

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

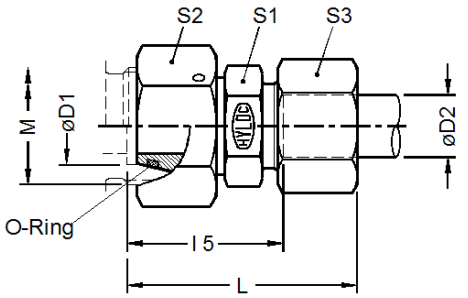


Low Pressure Series

Part No.	Series	øD1	øD2	M	l 5	L *	S1	S2	S3	O' Ring I.DxC.S.D.
RED2806PL	**160 bar**	28	6	M36 x 2.0	34.0	49.5	32	41	14	26.0 x 2.0
RED2808PL		28	8	M36 x 2.0	34.0	49.0	32	41	17	
RED2810PL		28	10	M36 x 2.0	35.0	50.5	32	41	19	
RED2812PL		28	12	M36 x 2.0	35.0	50.0	32	41	22	
RED2815PL		28	15	M36 x 2.0	36.0	52.0	32	41	27	
RED2818PL		28	18	M36 x 2.0	35.5	52.5	32	41	32	
RED2822PL		28	22	M36 x 2.0	37.5	54.5	32	41	36	
RED3506PL	**160 bar**	35	6	M45 x 2.0	37.0	52.5	41	50	14	32.0 x 2.5
RED3508PL		35	8	M45 x 2.0	37.0	52.0	41	50	17	
RED3510PL		35	10	M45 x 2.0	38.0	53.5	41	50	19	
RED3512PL		35	12	M45 x 2.0	38.0	53.0	41	50	22	
RED3515PL		35	15	M45 x 2.0	39.0	55.0	41	50	27	
RED3518PL		35	18	M45 x 2.0	38.5	55.5	41	50	32	
RED3522PL		35	22	M45 x 2.0	40.5	57.5	41	50	36	
RED3528PL		35	28	M45 x 2.0	40.5	58.5	41	50	41	
RED4210PL	**160 bar**	42	10	M52 x 2.0	41.5	57.0	50	60	19	38.0 x 2.5
RED4212PL		42	12	M52 x 2.0	41.5	56.5	50	60	22	
RED4215PL		42	15	M52 x 2.0	42.5	58.5	50	60	27	
RED4218PL		42	18	M52 x 2.0	42.0	59.0	50	60	32	
RED4222PL		42	22	M52 x 2.0	44.0	61.0	50	60	36	
RED4228PL		42	28	M52 x 2.0	44.0	62.0	50	60	41	
RED4235PL		42	35	M52 x 2.0	43.0	66.0	50	60	50	

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

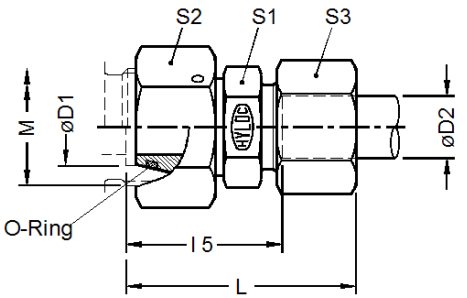


High Pressure Series ✻

Part No.	Series	øD1	øD2	M	l 5	L	S1	S2	S3	O' Ring I.DxC.S.D.
RED0806PS	**630 bar**	8	6	M16 x 1.5	27.0	42.5	14	19	17	6.0 x 1.5
RED1006PS	**630 bar**	10	6	M18 x 1.5	27.5	43.0	17	22	17	7.5 x 1.5
RED1008PS		10	8	M18 x 1.5	27.5	42.5	17	22	19	
RED1206PS	**630 bar**	12	6	M20 x 1.5	29.0	44.5	17	24	17	9.0 x 1.5
RED1208PS		12	8	M20 x 1.5	29.0	44.0	17	24	19	
RED1210PS		12	10	M20 x 1.5	29.5	46.5	19	24	22	
RED1606PS	**400 bar**	16	6	M24 x 1.5	32.0	47.5	22	30	17	12.0 x 2.0
RED1608PS		16	8	M24 x 1.5	32.0	47.0	22	30	19	
RED1610PS		16	10	M24 x 1.5	31.5	48.5	22	30	22	
RED1612PS		16	12	M24 x 1.5	31.5	48.0	22	30	24	
RED2006PS	**400 bar**	20	6	M30 x 2.0	36.0	51.5	27	36	17	16.3 x 2.4
RED2008PS		20	8	M30 x 2.0	36.0	51.0	27	36	19	
RED2010PS		20	10	M30 x 2.0	35.5	52.5	27	36	22	
RED2012PS		20	12	M30 x 2.0	35.5	52.0	27	36	24	
RED2016PS		20	16	M30 x 2.0	36.5	55.5	27	36	30	

✻ Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

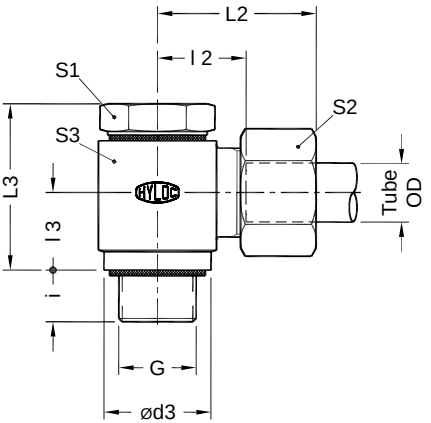


High Pressure Series

Part No.	Series	øD1	øD2	M	l 5	L *	S1	S2	S3	O' Ring I.DxC.S.D.
RED2506PS	**400 bar**	25	6	M36 x 2.0	38.5	54.0	32	46	17	20.3 x 2.4
RED2508PS		25	8	M36 x 2.0	38.5	53.5	32	46	19	
RED2510PS		25	10	M36 x 2.0	38.0	55.0	32	46	22	
RED2512PS		25	12	M36 x 2.0	38.0	54.5	32	46	24	
RED2516PS		25	16	M36 x 2.0	39.0	58.0	32	46	30	
RED2520PS		25	20	M36 x 2.0	39.0	61.5	32	46	36	
RED3006PS	**400 bar**	30	6	M42 x 2.0	44.0	59.5	41	50	17	25.3 x 2.4
RED3008PS		30	8	M42 x 2.0	44.0	59.0	41	50	19	
RED3010PS		30	10	M42 x 2.0	43.5	60.5	41	50	22	
RED3012PS		30	12	M42 x 2.0	43.5	60.0	41	50	24	
RED3016PS		30	16	M42 x 2.0	44.5	63.5	41	50	30	
RED3020PS		30	20	M42 x 2.0	44.5	67.0	41	50	36	
RED3025PS		30	25	M42 x 2.0	45.0	70.0	41	50	46	
RED3810PS	**315 bar**	38	10	M52 x 2.0	47.0	64.0	50	60	22	33.3 x 2.4
RED3812PS		38	12	M52 x 2.0	47.0	63.5	50	60	24	
RED3816PS		38	16	M52 x 2.0	48.0	67.0	50	60	30	
RED3820PS		38	20	M52 x 2.0	48.0	70.5	50	60	36	
RED3825PS		38	25	M52 x 2.0	48.5	73.5	50	60	46	
RED3830PS		38	30	M52 x 2.0	49.0	77.0	50	60	50	

* Dimensions given are approx figures with tightened nut.

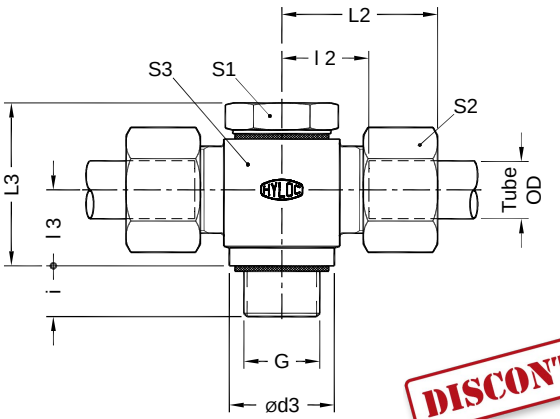
Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads



Part No.	Series	Tube od	BSP thread G	ød3	i	l 2	l 3	* L2	L3	S1	S2	S3
HSWV06PLG	**Light L**	6	G 1/8 A	15	8	12.5	12.0	27.5	28.0	19	14	19
HSWV08PLG	100 bar	8	G 1/4 A	20	12	14.0	15.0	29.0	33.0	19	17	22
HSWV10PLG		10	G 1/4 A	20	12	15.0	15.0	31.0	33.0	19	19	22
HSWV12PLG		12	G 3/8 A	24	12	17.5	18.0	32.5	40.0	22	22	27
HSWV15PLG		15	G 1/2 A	29	14	20.0	21.0	36.0	45.0	27	27	30
HSWV18PLG	100 bar	18	G 1/2 A	29	14	19.5	21.0	37.0	45.0	27	32	30
HSWV22PLG		22	G 3/4 A	35	16	27.0	24.0	44.5	53.0	32	36	41
HSWV28PLG	100 bar	28	G 1 A	43	18	29.5	29.5	48.0	63.5	41	41	46
HSWV35PLG		35	G1 1/4 A	53	20	35.0	33.0	57.5	74.0	50	50	55
HSWV42PLG		42	G1 1/2 A	59	22	40.0	38.5	63.0	83.0	60	60	70
HSWV06PSG	**Heavy S**	6	G 1/4 A	20	12	16.0	15.0	31.0	33.0	19	17	22
HSWV08PSG	200 bar	8	G 1/4 A	20	12	16.0	15.0	31.0	33.0	19	19	22
HSWV10PSG		10	G 3/8 A	24	12	18.0	18.0	35.5	40.0	22	22	27
HSWV12PSG		12	G 3/8 A	24	12	18.0	18.0	34.5	40.0	22	24	27
HSWV16PSG	200 bar	16	G 1/2 A	29	14	21.5	21.0	41.0	45.0	27	30	32
HSWV20PSG		20	G 3/4 A	35	16	28.0	24.0	50.5	53.0	32	36	41
HSWV25PSG		25	G 1 A	43	18	31.0	29.5	56.0	63.5	41	46	50
HSWV30PSG	100 bar	30	G1 1/4 A	53	20	36.5	33.0	65.0	74.0	50	50	60
HSWV38PSG		38	G1 1/2 A	59	22	41.0	38.5	73.0	83.0	60	60	70

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads

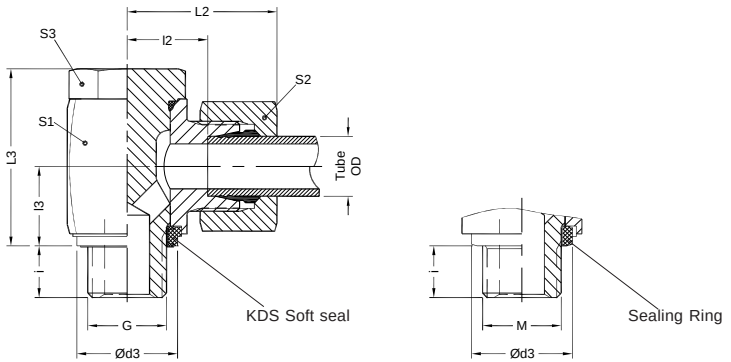


DISCONTINUED

Part No.	Series	Tube od	BSP thread G	ød3	i	l 2	l 3	* L2	L3	S1	S2	S3
HSTV06PLG	**Light L**	6	G 1/8 A	15	8	12.5	12.0	27.5	28.0	19	14	19
HSTV08PLG	250 bar	8	G 1/4 A	20	12	14.0	15.0	29.0	33.0	19	17	22
HSTV10PLG		10	G 1/4 A	20	12	15.0	15.0	31.0	33.0	19	19	22
HSTV12PLG		12	G 3/8 A	24	12	17.5	18.0	32.5	40.0	22	22	27
HSTV15PLG		15	G 1/2 A	29	14	20.0	21.0	36.0	45.0	27	27	30
HSTV18PLG	100 bar	18	G 1/2 A	29	14	19.5	21.0	37.0	45.0	27	32	30
HSTV22PLG		22	G 3/4 A	35	16	27.0	24.0	44.5	53.0	32	36	41
HSTV28PLG	100 bar	28	G 1 A	43	18	29.5	29.5	48.0	63.5	41	41	46
HSTV35PLG		35	G1 1/4 A	53	20	35.0	33.0	57.5	74.0	50	50	55
HSTV42PLG		42	G1 1/2 A	59	22	40.0	38.5	63.0	83.0	60	60	70
HSTV06PSG	**Heavy S**	6	G 1/4 A	20	12	16.0	15.0	31.0	33.0	19	17	22
HSTV08PSG	400 bar	8	G 1/4 A	20	12	16.0	15.0	31.0	33.0	19	19	22
HSTV10PSG		10	G 3/8 A	24	12	18.0	18.0	35.5	40.0	22	22	27
HSTV12PSG		12	G 3/8 A	24	12	18.0	18.0	34.5	40.0	22	24	27
HSTV16PSG	400 bar	16	G 1/2 A	29	14	21.5	21.0	41.0	45.0	27	30	32
HSTV20PSG		20	G 3/4 A	35	16	28.0	24.0	50.5	53.0	32	36	41
HSTV25PSG		25	G 1 A	43	18	31.0	29.5	56.0	63.5	41	46	50
HSTV30PSG	250 bar	30	G1 1/4 A	53	20	36.5	33.0	65.0	74.0	50	50	60
HSTV38PSG		38	G1 1/2 A	59	22	41.0	38.5	73.0	83.0	60	60	70

* Dimensions given are approx figures with tightened nut.

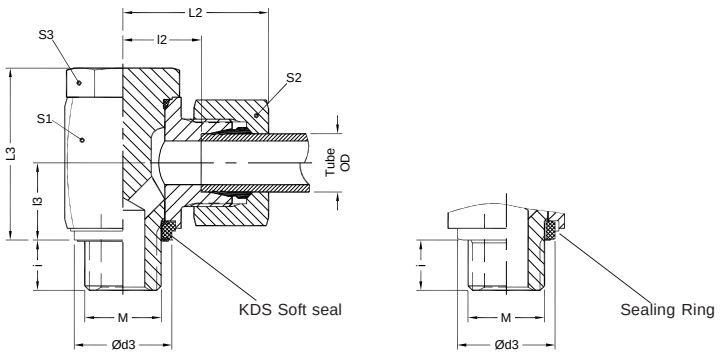
Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads



Part No. (With KDS Soft seal)	Part No. (With sealing ring)	Series	Tube od	BSP thread G	Ød3	i	l 2	l 3	* L2	L3	S1	S2	S3
WH06PLGE	**WH06PLG**	**Light L**	6	G 1/8A	14.9	8	13.0	10.0	28.5	21.0	17	14	14
WH06PLG02E	**WH06PLG02**		6	G 1/4A	18.9	12	15.0	13.5	30.5	27.0	22	14	19
WH08PLGE	**WH08PLG**	350 bar	8	G 1/4A	18.9	12	14.0	13.5	29.0	27.0	22	17	19
WH10PLGE	**WH10PLG**		10	G 1/4A	18.9	12	15.0	13.5	30.5	27.0	22	19	19
WH12PLG02E	**WH12PLG02**		12	G 1/4A	18.9	10	15.0	15.5	30.0	30.0	22	22	19
WH12PLGE	**WH12PLG**		12	G 3/8A	21.9	12	17.5	16.0	32.5	32.5	24	22	22
WH15PLGE	**WH15PLG**		15	G 1/2A	26.9	14	21.0	19.5	37.0	43.0	30	27	27
WH18PLGE	**WH18PLG**		18	G 1/2A	26.9	14	20.5	21.5	37.5	43.0	30	32	27
WH22PLGE	**WH22PLG**		22	G 3/4A	32.9	16	27.0	24.0	44.0	48.0	36	36	32
WH28PLGE	**WH28PLG**		28	G1A	39.9	18	31.5	30.5	49.5	59.0	46	41	41
WH35PLGE	**WH35PLG**		35	G1.1/4A	49.9	20	35.5	35.5	58.5	70.0	55	50	50
WH42PLGE	**WH42PLG**	160 bar	42	G1.1/2A	55.9	22	40.0	40.5	63.5	80.0	65	60	55
WH06PSGE	**WH06PSG**	**Heavy**	6	G 1/4A	18.9	12	16.0	13.5	31.5	27.0	22	17	19
WH08PSGE	**WH08PSG**	350 bar	8	G 1/4A	18.9	12	16.0	13.5	31.0	27.0	22	19	19
WH10PSGE	**WH10PSG**		10	G 3/8A	21.9	12	18.0	16.0	35.0	32.5	24	22	22
WH12PSGE	**WH12PSG**		12	G 3/8A	21.9	12	18.0	16.0	34.5	32.5	24	24	22
WH16PSGE	**WH16PSG**		16	G 1/2A	26.9	14	21.5	21.5	40.5	43.0	30	30	27
WH20PSGE	**WH20PSG**		20	G 3/4A	32.9	16	26.0	24.0	48.5	48.0	36	36	32
WH25PSGE	**WH25PSG**		25	G1A	39.9	18	31.0	30.5	56.0	59.0	46	46	41
WH30PSGE	**WH30PSG**		30	G1.1/4A	49.9	20	36.5	35.5	64.5	70.0	55	50	50
WH38PSGE	**WH38PSG**	250 bar	38	G1.1/2A	55.9	22	41.0	40.5	72.5	80.0	65	60	55

* Dimensions given are approx figures with tightened nut.

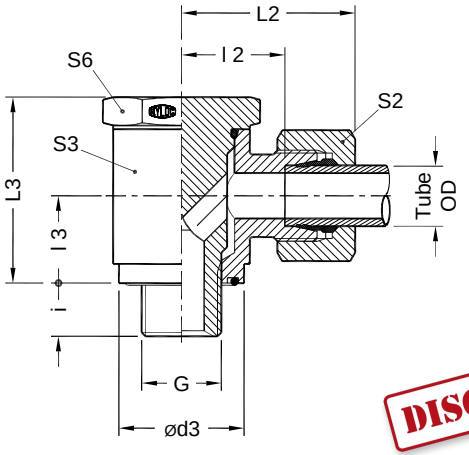
Metric Tube end as per ISO 8434
Male stud - Metric (M) threads



Part No. (With KDS Soft seal)	Part No. (With sealing ring)	Series	Tube od	Metric thread M	Ød3	i	l 2	l 3	* L2	L3	S1	S2	S3
WH06PLME	**WH06PLM**	**Light L**	6	M10x1.0	14.9	8	13.0	10.0	28.5	21.0	17	14	14
WH08PLME	**WH08PLM**	350 bar	8	M12x1.5	17.9	12	14.0	13.5	29.0	27.0	22	17	19
WH10PLME	**WH10PLM**		10	M14x1.5	19.9	12	15.0	13.5	30.5	27.0	22	19	19
WH12PLME	**WH12PLM**		12	M16x1.5	21.9	12	17.5	16.0	32.5	32.5	24	22	22
WH12PLM18E	**WH12PLM18**		12	M18x1.5	23.9	12	20.0	18.5	35.0	37.0	27	22	24
WH15PLME	**WH15PLM**		15	M18x1.5	23.9	12	20.0	18.5	36.0	37.0	27	27	24
WH18PLME	**WH18PLM**		18	M22x1.5	27.9	14	20.5	21.5	37.5	43.0	30	32	27
WH22PLME	**WH22PLM**		22	M26x1.5	31.9	16	27.0	24.0	44.0	48.0	36	36	32
WH28PLME	**WH28PLM**		28	M33x2.0	39.9	18	31.5	30.5	49.5	59.0	46	41	41
WH35PLME	**WH35PLM**		35	M42x2.0	49.9	20	35.5	35.5	58.5	70.0	55	50	50
WH42PLME	**WH42PLM**	160 bar	42	M48x2.0	55.9	22	40.0	40.5	63.5	80.0	65	60	55
WH06PSME	**WH06PSM**	**Heavy**	6	M12x1.5	17.9	12	16.0	13.5	31.5	270	22	17	19
WH08PSME	**WH08PSM**	350 bar	8	M14x1.5	19.9	12	16.0	13.5	31.0	27.0	22	19	19
WH10PSME	**WH10PSM**		10	M16x1.5	21.9	12	18.0	16.0	35.0	32.5	24	22	22
WH12PSME	**WH12PSM**		12	M18x1.5	23.9	12	19.5	18.5	36.0	37.0	27	24	24
WH16PSME	**WH16PSM**		16	M22x1.5	27.9	14	21.5	21.5	40.5	43.0	30	30	27
WH20PSME	**WH20PSM**		20	M27x2.0	31.9	16	26.0	24.0	48.5	48.0	36	36	32
WH25PSME	**WH25PSM**		25	M33x2.0	39.9	18	31.0	30.5	56.0	59.0	46	46	41
WH30PSME	**WH30PSM**		30	M42x2.0	49.9	20	36.5	35.5	64.5	70.0	55	50	50
WH38PSME	**WH38PSM**	250 bar	38	M48x2.0	55.9	22	41.0	40.5	72.5	80.0	65	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads

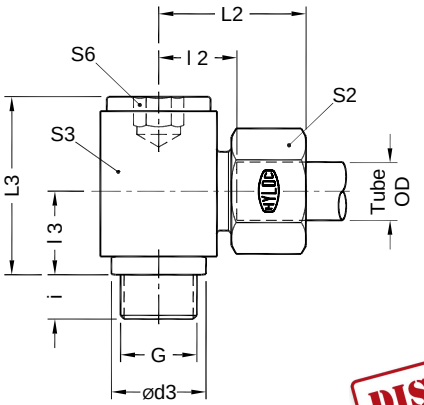


DISCONTINUED

Part No.	Series	Tube od	BSP thread G	ød3	i	l 2	l 3	* L2	L3	S2	S3	S6
WHO06PLG	**Light L**	6	G 1/8 A	18.0	8	15.0	11.0	30.5	25.0	14	19	19
WHO08PLG	250 bar	8	G 1/4 A	22.5	12	17.5	14.5	32.5	33.0	17	24	24
WHO10PLG		10	G 1/4 A	22.5	12	18.5	14.5	34.0	33.0	19	24	24
WHO12PLG		12	G 3/8 A	27.0	12	21.5	18.0	36.5	39.0	22	27	27
WHO15PLG		15	G 1/2 A	32.0	14	25.0	20.0	41.0	44.0	27	32	32
WHO18PLG	100 bar	18	G 1/2 A	33.0	14	25.5	23.0	42.5	49.0	32	36	36
WHO22PLG		22	G 3/4 A	41.0	16	33.0	25.5	50.0	55.5	36	46	41
WHO28PLG	100 bar	28	G 1 A	46.0	18	35.5	31.0	53.5	66.0	41	50	46
WHO35PLG		35	G1 1/4 A	57.0	20	39.5	34.0	62.5	76.0	50	60	60
WHO42PLG		42	G1 1/2 A	64.0	22	44.0	40.0	67.5	86.0	60	70	65
WHO06PSG	**Heavy S**	6	G 1/4 A	22.5	12	19.5	14.5	35.0	33.0	17	24	24
WHO08PSG	400 bar	8	G 1/4 A	22.5	12	19.5	14.5	34.5	33.0	19	24	24
WHO10PSG		10	G 3/8 A	27.0	12	22.0	18.0	39.0	39.0	22	27	27
WHO12PSG		12	G 3/8 A	27.0	12	22.0	18.0	38.5	39.0	24	27	27
WHO16PSG	400 bar	16	G 1/2 A	33.0	14	26.5	23.0	45.5	49.0	30	36	36
WHO20PSG		20	G 3/4 A	41.0	16	32.0	25.5	54.5	55.5	36	46	41
WHO25PSG		25	G 1 A	46.0	18	35.0	31.0	60.0	66.0	46	50	46
WHO30PSG	250 bar	30	G1 1/4 A	57.0	20	40.5	34.0	68.5	76.0	50	60	60
WHO38PSG		38	G1 1/2 A	64.0	22	45.0	40.0	76.5	86.0	60	70	65

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads

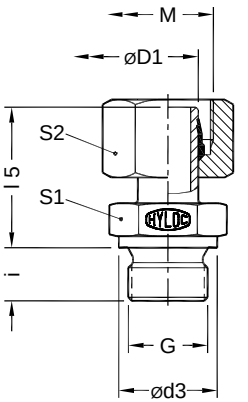


DISCONTINUED

Part No.	Series	Tube od	BSP thread G	ød3	i	l 2	l 3	* L2	L3	S2	S3	S6
DSVW06PLG	**Light L**	6	G 1/8 A	14	8	12.5	12	28.0	24	14	19	6
DSVW08PLG	250 bar	8	G 1/4 A	18	12	14.5	16	29.5	30	17	22	8
DSVW10PLG		10	G 1/4 A	18	12	15.5	16	31.0	30	19	22	8
DSVW12PLG		12	G 3/8 A	22	12	18.5	18	33.5	37	22	27	10
DSVW15PLG		15	G 1/2 A	26	14	22.0	21	38.0	42	27	32	12
DSVW18PLG	100 bar	18	G 1/2 A	26	14	21.5	23	38.5	46	32	36	12
DSVW22PLG		22	G 3/4 A	32	16	28.5	28	45.5	58	36	46	17
DSVW28PLG	100 bar	28	G 1 A	39	18	31.5	32	49.5	64	41	50	22
DSVW35PLG		35	G1 1/4 A	49	20	35.5	37	58.5	76	50	60	27
DSVW42PLG		42	G1 1/2 A	55	22	40.0	42	63.5	85	60	70	32
DSVW06PSG	**Heavy S**	6	G 1/4 A	18	12	16.5	16	32.0	30	17	22	8
DSVW08PSG	400 bar	8	G 1/4 A	18	12	16.5	16	31.5	30	19	22	8
DSVW10PSG		10	G 3/8 A	22	12	18.5	18	35.5	37	22	27	10
DSVW12PSG		12	G 3/8 A	22	12	18.5	18	35.0	37	24	27	10
DSVW16PSG	400 bar	16	G 1/2 A	26	14	22.5	23	41.5	46	30	32	12
DSVW20PSG		20	G 3/4 A	32	16	27.5	28	50.0	58	36	46	17
DSVW25PSG		25	G 1 A	39	18	31.0	32	56.0	64	46	50	22
DSVW30PSG	250 bar	30	G1 1/4 A	49	20	36.5	37	64.5	76	50	60	27
DSVW38PSG		38	G1 1/2 A	55	22	41.0	42	72.5	85	60	70	32

* Dimensions given are approx figures with tightened nut.

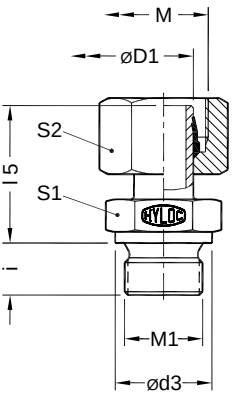
Metric Standpipe
Male stud - BSPP (G) threads



DISCONTINUED

Part No.	Series	Tube od øD1	G Male BSP thread	M	ø d3	i	l 5	S1	S2
EVGE06PLG	**Light L**	6	G 1/8 A	M12 x 1.5	14	8	24.5	14	14
EVGE08PLG	250 bar	8	G 1/4 A	M14 x 1.5	18	12	29.5	19	17
EVGE10PLG		10	G 1/4 A	M16 x 1.5	18	12	27.5	19	19
EVGE12PLG		12	G 3/8 A	M18 x 1.5	22	12	34.0	22	22
EVGE15PLG		15	G 1/2 A	M22 x 1.5	26	14	32.0	27	27
EVGE18PLG	160 bar	18	G 1/2 A	M26 x 1.5	26	14	31.5	27	32
EVGE22PLG		22	G 3/4 A	M30 x 2.0	32	16	32.5	32	36
EVGE28PLG	100 bar	28	G 1 A	M36 x 2.0	39	18	35.0	41	41
EVGE35PLG		35	G1 1/4 A	M45 x 2.0	49	20	42.5	50	50
EVGE42PLG		42	G1 1/2 A	M52 x 2.0	55	22	46.5	55	60
EVGE06PSG	**Heavy S**	6	G 1/4 A	M14 x 1.5	18	12	27.0	19	17
EVGE08PSG	630 bar	8	G 1/4 A	M16 x 1.5	18	12	29.5	19	19
EVGE10PSG		10	G 3/8 A	M18 x 1.5	22	12	32.0	22	22
EVGE12PSG		12	G 3/8 A	M20 x 1.5	22	12	34.0	22	24
EVGE16PSG	400 bar	16	G 1/2 A	M24 x 1.5	26	14	37.0	27	30
EVGE20PSG		20	G 3/4 A	M30 x 2.0	32	16	43.0	32	36
EVGE25PSG		25	G 1 A	M36 x 2.0	39	18	48.0	41	46
EVGE30PSG	250 bar	30	G1 1/4 A	M42 x 2.0	49	20	51.0	50	50
EVGE38PSG		38	G1 1/2 A	M52 x 2.0	55	22	60.0	55	60

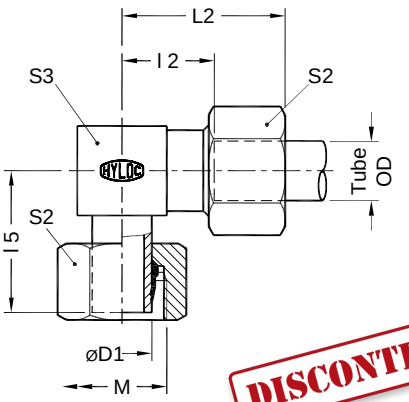
Metric Tube end as per ISO 8434
Male stud - Metric (M) threads



DISCONTINUED

Part No.	Series	Tube od øD1	M1 Male Metric thread	M	ø d3	i	l 5	S1	S2
EVGE06PLM	**Light L**	6	M10 x 1.0	M12 x 1.5	14	8	24.5	14	14
EVGE08PLM	250 bar	8	M12 x 1.5	M14 x 1.5	17	12	26.5	17	17
EVGE10PLM		10	M14 x 1.5	M16 x 1.5	19	12	27.5	19	19
EVGE12PLM		12	M16 x 1.5	M18 x 1.5	22	12	29.5	22	22
EVGE15PLM		15	M18 x 1.5	M22 x 1.5	24	12	31.5	24	27
EVGE18PLM	160 bar	18	M22 x 1.5	M26 x 1.5	27	14	31.5	27	32
EVGE22PLM		22	M26 x 1.5	M30 x 2.0	32	16	32.5	32	36
EVGE28PLM	100 bar	28	M33 x 2.0	M36 x 2.0	40	18	35.0	41	41
EVGE35PLM		35	M42 x 2.0	M45 x 2.0	50	20	42.5	50	50
EVGE42PLM		42	M48 x 2.0	M52 x 2.0	55	22	46.5	55	60
EVGE06PSM	**Heavy S**	6	M12 x 1.5	M14 x 1.5	17	12	27.0	17	17
EVGE08PSM	630 bar	8	M14 x 1.5	M16 x 1.5	19	12	29.5	19	19
EVGE10PSM		10	M16 x 1.5	M18 x 1.5	22	12	32.0	22	22
EVGE12PSM		12	M18 x 1.5	M20 x 1.5	24	12	34.0	24	24
EVGE16PSM	400 bar	16	M22 x 1.5	M24 x 1.5	27	14	37.0	27	30
EVGE20PSM		20	M27 x 2.0	M30 x 2.0	32	16	43.0	32	36
EVGE25PSM		25	M33 x 2.0	M36 x 2.0	40	18	48.0	41	46
EVGE30PSM	250 bar	30	M42 x 2.0	M42 x 2.0	50	20	51.0	50	50
EVGE38PSM		38	M48 x 2.0	M52 x 2.0	55	22	60.0	55	60

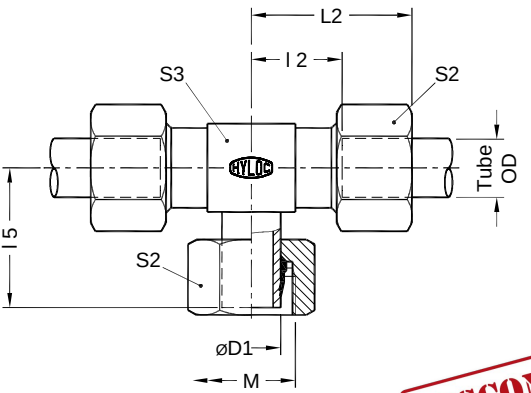
Metric Tube end as per ISO 8434



Part No.	Series	Tube od (øD1)	M	l 2	l 5	* L2	S2	S3
EVW06PL	**Light L**	6	M12 x 1.5	12.0	26.0	27.5	14	12
EVW08PL	250 bar	8	M14 x 1.5	14.0	27.5	29.0	17	14
EVW10PL		10	M16 x 1.5	15.0	29.0	30.5	19	17
EVW12PL		12	M18 x 1.5	17.0	29.5	32.0	22	19
EVW15PL		15	M22 x 1.5	21.0	32.5	37.0	27	22
EVW18PL	160 bar	18	M26 x 1.5	23.5	35.5	40.5	32	27
EVW22PL		22	M30 x 2.0	27.5	38.5	44.5	36	30
EVW28PL	100 bar	28	M36 x 2.0	30.5	41.5	48.5	41	36
EVW35PL		35	M45 x 2.0	34.5	51.0	57.5	50	46
EVW42PL		42	M52 x 2.0	40.0	56.0	63.5	60	55
EVW06PS	**Heavy S**	6	M14 x 1.5	16.0	27.0	31.5	17	14
EVW08PS	630 bar	8	M16 x 1.5	17.0	27.5	32.0	19	17
EVW10PS		10	M18 x 1.5	17.5	30.0	34.5	22	19
EVW12PS		12	M20 x 1.5	21.5	31.0	38.0	24	22
EVW16PS	400 bar	16	M24 x 1.5	24.5	36.5	43.5	30	24
EVW20PS		20	M30 x 2.0	26.5	44.5	49.0	36	30
EVW25PS		25	M36 x 2.0	30.0	50.0	55.0	46	36
EVW30PS	250 bar	30	M42 x 2.0	35.5	55.0	63.5	50	46
EVW38PS		38	M52 x 2.0	41.0	63.0	72.5	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

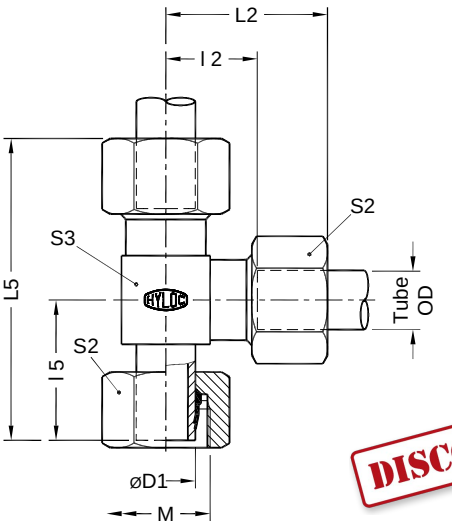


DISCONTINUED

Part No.	Series	Tube od (øD1)	M	l 2	l 5	* L2	S2	S3
EVT06PL	**Light L**	6	M12 x 1.5	12.0	26.0	27.5	14	12
EVT08PL	250 bar	8	M14 x 1.5	14.0	27.5	29.0	17	14
EVT10PL		10	M16 x 1.5	15.0	29.0	30.5	19	17
EVT12PL		12	M18 x 1.5	17.0	29.5	32.0	22	19
EVT15PL		15	M22 x 1.5	21.0	32.5	37.0	27	22
EVT18PL	160 bar	18	M26 x 1.5	23.5	35.5	40.5	32	27
EVT22PL		22	M30 x 2.0	27.5	38.5	44.5	36	30
EVT28PL	100 bar	28	M36 x 2.0	30.5	41.5	48.5	41	36
EVT35PL		35	M45 x 2.0	34.5	51.0	57.5	50	46
EVT42PL		42	M52 x 2.0	40.0	56.0	63.5	60	55
EVT06PS	**Heavy S**	6	M14 x 1.5	16.0	27.0	31.5	17	14
EVT08PS	630 bar	8	M16 x 1.5	17.0	27.5	32.0	19	17
EVT10PS		10	M18 x 1.5	17.5	30.0	34.5	22	19
EVT12PS		12	M20 x 1.5	21.5	31.0	38.0	24	22
EVT16PS	400 bar	16	M24 x 1.5	24.5	36.5	43.5	30	24
EVT20PS		20	M30 x 2.0	26.5	44.5	49.0	36	30
EVT25PS		25	M36 x 2.0	30.0	50.0	55.0	46	36
EVT30PS	250 bar	30	M42 x 2.0	35.5	55.0	63.5	50	46
EVT38PS		38	M52 x 2.0	41.0	63.0	72.5	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

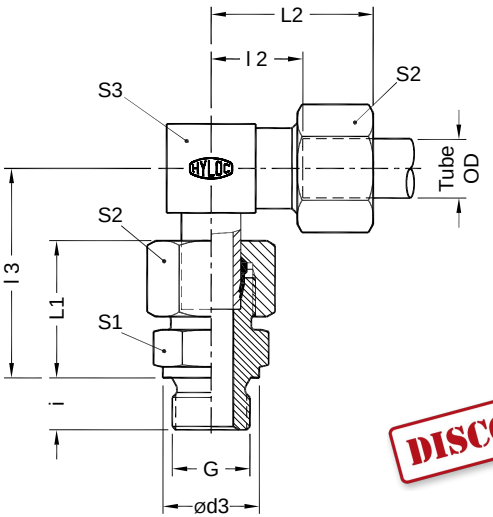


DISCONTINUED

Part No.	Series	Tube od (øD1)	M	l 2	l 5	* L2	* L5	S2	S3
EVL06PL	**Light L**	6	M12 x 1.5	12.0	26.0	27.5	53.5	14	12
EVL08PL	250 bar	8	M14 x 1.5	14.0	27.5	29.0	56.5	17	14
EVL10PL		10	M16 x 1.5	15.0	29.0	30.5	59.5	19	17
EVL12PL		12	M18 x 1.5	17.0	29.5	32.0	61.5	22	19
EVL15PL		15	M22 x 1.5	21.0	32.5	37.0	69.5	27	22
EVL18PL	160 bar	18	M26 x 1.5	23.5	35.5	40.5	76.0	32	27
EVL22PL		22	M30 x 2.0	27.5	38.5	44.5	83.0	36	30
EVL28PL	100 bar	28	M36 x 2.0	30.5	41.5	48.5	90.0	41	36
EVL35PL		35	M45 x 2.0	34.5	51.0	57.5	108.5	50	46
EVL42PL		42	M52 x 2.0	40.0	56.0	63.5	119.5	60	55
EVL06PS	**Heavy S**	6	M14 x 1.5	16.0	27.0	31.5	58.5	17	14
EVL08PS	630 bar	8	M16 x 1.5	17.0	27.5	32.0	59.5	19	17
EVL10PS		10	M18 x 1.5	17.5	30.0	34.5	64.5	22	19
EVL12PS		12	M20 x 1.5	21.5	31.0	38.0	69.0	24	22
EVL16PS	400 bar	16	M24 x 1.5	24.5	36.5	43.5	80.0	30	24
EVL20PS		20	M30 x 2.0	26.5	44.5	49.0	93.5	36	30
EVL25PS		25	M36 x 2.0	30.0	50.0	55.0	105.0	46	36
EVL30PS	250 bar	30	M42 x 2.0	35.5	55.0	63.5	118.5	50	46
EVL38PS		38	M52 x 2.0	41.0	63.0	72.5	135.5	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads

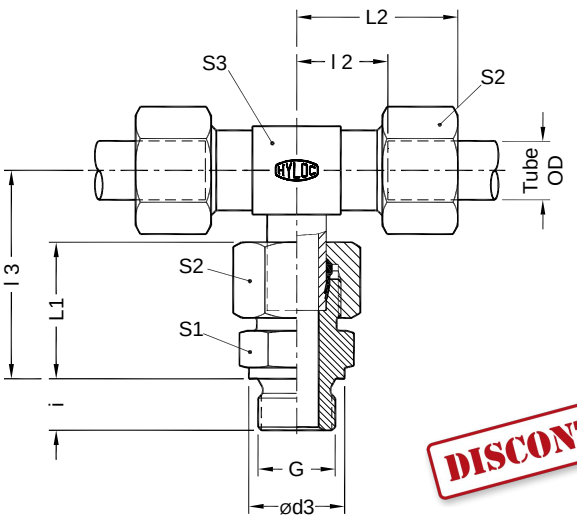


DISCONTINUED

Part No.	Series	Tube od	G Male BSP thread	ød3	i	l 2	l 3	* L1	* L2	S1	S2	S3
EVW06PLG	**Light L**	6	G 1/8	14	8	12.0	34.5	24.0	27.5	14	14	12
EVW08PLG	250 bar	8	G 1/4	18	12	14.0	37.5	25.0	29.0	19	17	14
EVW10PLG		10	G 1/4	18	12	15.0	40.0	26.5	30.5	19	19	17
EVW12PLG		12	G 3/8	22	12	17.0	42.0	27.5	32.0	22	22	19
EVW15PLG		15	G 1/2	26	14	21.0	46.5	30.0	37.0	27	27	22
EVW18PLG	160 bar	18	G 1/2	26	14	23.5	50.0	31.5	40.5	27	32	27
EVW22PLG		22	G 3/4	32	16	27.5	55.0	33.5	44.5	32	36	30
EVW28PLG	100 bar	28	G 1	39	18	30.5	59.0	35.5	48.5	41	41	36
EVW35PLG		35	G1.1/4	49	20	34.5	68.5	40.5	57.5	50	50	46
EVW42PLG		42	G1.1/2	55	22	40.0	75.0	42.5	63.5	55	60	55
EVW06PSG	**Heavy S**	6	G 1/4	18	12	16.0	40.0	28.5	31.5	19	17	14
EVW08PSG	630 bar	8	G 1/4	18	12	17.0	42.5	30.0	32.0	19	19	17
EVW10PSG		10	G 3/8	22	12	17.5	45.0	32.0	34.5	22	22	19
EVW12PSG		12	G 3/8	22	12	21.5	48.0	33.5	38.0	22	24	22
EVW16PSG	400 bar	16	G 1/2	26	14	24.5	55.0	37.5	43.5	27	30	24
EVW20PSG		20	G 3/4	32	16	26.5	65.0	43.0	49.0	32	36	30
EVW25PSG		25	G 1	39	18	30.0	73.0	48.0	55.0	41	46	36
EVW30PSG	250 bar	30	G1.1/4	49	20	35.5	78.5	51.5	63.5	50	50	46
EVW38PSG		38	G1.1/2	55	22	41.0	89.0	57.5	72.5	55	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

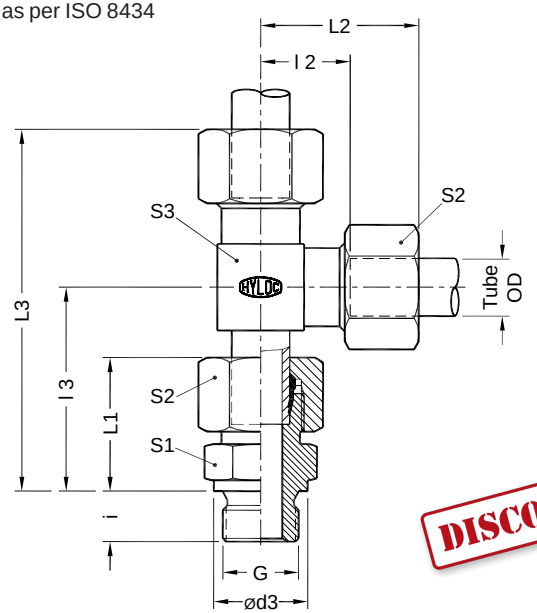


DISCONTINUED

Part No.	Series	Tube od	G Male BSP thread	ød3	i	l 2	l 3	* L1	* L2	S1	S2	S3
EVT06PLG	**Light L**	6	G 1/8	14	8	12.0	34.5	24.0	27.5	14	14	12
EVT08PLG	250 bar	8	G 1/4	18	12	14.0	37.5	25.0	29.0	19	17	14
EVT10PLG		10	G 1/4	18	12	15.0	40.0	26.5	30.5	19	19	17
EVT12PLG		12	G 3/8	22	12	17.0	42.0	27.5	32.0	22	22	19
EVT15PLG		15	G 1/2	26	14	21.0	46.5	30.0	37.0	27	27	22
EVT18PLG	160 bar	18	G 1/2	26	14	23.5	50.0	31.5	40.5	27	32	27
EVT22PLG		22	G 3/4	32	16	27.5	55.0	33.5	44.5	32	36	30
EVT28PLG	100 bar	28	G 1	39	18	30.5	59.0	35.5	48.5	41	41	36
EVT35PLG		35	G1.1/4	49	20	34.5	68.5	40.5	57.5	50	50	46
EVT42PLG		42	G1.1/2	55	22	40.0	75.0	42.5	63.5	55	60	55
EVT06PSG	**Heavy S**	6	G 1/4	18	12	16.0	40.0	28.5	31.5	19	17	14
EVT08PSG	630 bar	8	G 1/4	18	12	17.0	42.5	30.0	32.0	19	19	17
EVT10PSG		10	G 3/8	22	12	17.5	45.0	32.0	34.5	22	22	19
EVT12PSG		12	G 3/8	22	12	21.5	48.0	33.5	38.0	22	24	22
EVT16PSG	400 bar	16	G 1/2	26	14	24.5	55.0	37.5	43.5	27	30	24
EVT20PSG		20	G 3/4	32	16	26.5	65.0	43.0	49.0	32	36	30
EVT25PSG		25	G 1	39	18	30.0	73.0	48.0	55.0	41	46	36
EVT30PSG	250 bar	30	G1.1/4	49	20	35.5	78.5	51.5	63.5	50	50	46
EVT38PSG		38	G1.1/2	55	22	41.0	89.0	57.5	72.5	55	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434

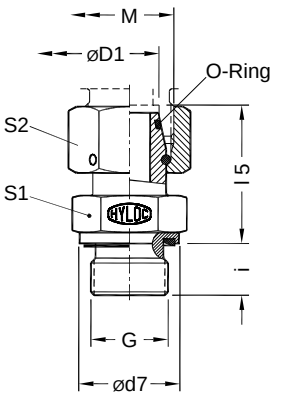


DISCONTINUED

Part No.	Series	Tube od	G Male BSP thread	ød3	i	l 2	l 3	* L1	* L2	* L3	S1	S2	S3
EVL06PLG	**Light**	6	G 1/8	14	8	12.0	34.5	24.0	27.5	62.0	14	14	12
EVL08PLG	**L**	8	G 1/4	18	12	14.0	37.5	25.0	29.0	66.5	19	17	14
EVL10PLG	250 bar	10	G 1/4	18	12	15.0	40.0	26.5	30.5	70.5	19	19	17
EVL12PLG		12	G 3/8	22	12	17.0	42.0	27.5	32.0	74.0	22	22	19
EVL15PLG		15	G 1/2	26	14	21.0	46.5	30.0	37.0	83.5	27	27	22
EVL18PLG	160 bar	18	G 1/2	26	14	23.5	50.0	31.5	40.5	90.5	27	32	27
EVL22PLG		22	G 3/4	32	16	27.5	55.0	33.5	44.5	99.5	32	36	30
EVL28PLG	100 bar	28	G 1	39	18	30.5	59.0	35.5	48.5	107.5	41	41	36
EVL35PLG		35	G1.1/4	49	20	34.5	68.5	40.5	57.5	126.0	50	50	46
EVL42PLG		42	G1.1/2	55	22	40.0	75.0	42.5	63.5	138.5	55	60	55
EVL06PSG	**Heavy**	6	G 1/4	18	12	16.0	40.0	28.5	31.5	71.5	19	17	14
EVL08PSG	**S**	8	G 1/4	18	12	17.0	42.5	30.0	32.0	74.5	19	19	17
EVL10PSG	630 bar	10	G 3/8	22	12	17.5	45.0	32.0	34.5	79.5	22	22	19
EVL12PSG		12	G 3/8	22	12	21.5	48.0	33.5	38.0	86.0	22	24	22
EVL16PSG	400 bar	16	G 1/2	26	14	24.5	55.0	37.5	43.5	98.5	27	30	24
EVL20PSG		20	G 3/4	32	16	26.5	65.0	43.0	49.0	114.0	32	36	30
EVL25PSG		25	G 1	39	18	30.0	73.0	48.0	55.0	128.0	41	46	36
EVL30PSG	250 bar	30	G1.1/4	49	20	35.5	78.5	51.5	63.5	142.0	50	50	46
EVL38PSG		38	G1.1/2	55	22	41.0	89.0	57.5	72.5	161.5	55	60	55

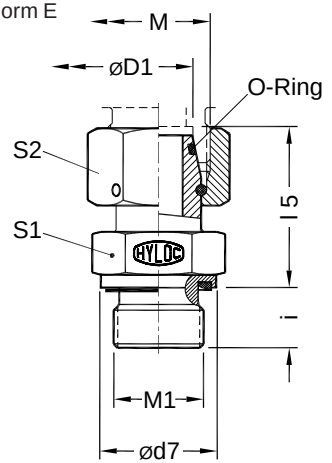
* Dimensions given are approx figures with tightened nut.

Metric Standpipe with Swivel Coupling nut
Male BSPP (G) threads, DIN 3852-11
with Elastomeric seal



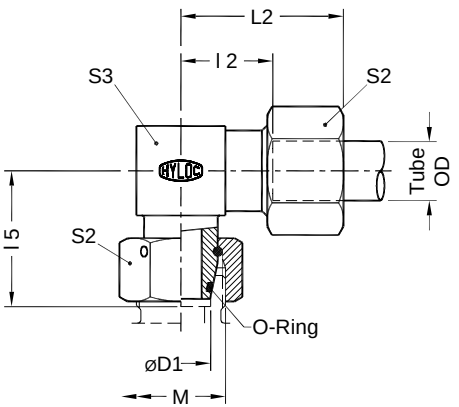
Part No.	Series	Tube od øD1	G Male BSP thread	M	ød7	i	l 5	S1	S2	O - Ring ID x CSD
EGE06LGE	**Light L**	6	G 1/8 A	M12 x 1.5	14	8	24.5	14	14	4.0 x 1.5
EGE08LGE	315 bar	8	G 1/4 A	M14 x 1.5	19	12	29.5	19	17	6.0 x 1.5
EGE10LGE		10	G 1/4 A	M16 x 1.5	19	12	27.5	19	19	7.5 x 1.5
EGE12LGE		12	G 3/8 A	M18 x 1.5	22	12	34.0	22	22	9.0 x 1.5
EGE15LGE		15	G 1/2 A	M22 x 1.5	27	14	32.0	27	27	12.0 x 2.0
EGE18LGE		18	G 1/2 A	M26 x 1.5	27	14	31.5	27	32	15.0 x 2.0
EGE22LGE	160 bar	22	G 3/4 A	M30 x 2.0	32	16	32.5	32	36	20.0 x 2.0
EGE28LGE		28	G 1 A	M36 x 2.0	40	18	35.0	41	41	26.0 x 2.0
EGE35LGE		35	G1 1/4 A	M45 x 2.0	50	20	42.5	50	50	32.0 x 2.5
EGE42LGE		42	G1 1/2 A	M52 x 2.0	55	22	46.5	55	60	38.0 x 2.5
EGE06SGE	**Heavy S**	6	G 1/4 A	M14 x 1.5	19	12	27.0	19	17	4.0 x 1.5
EGE08SGE	630 bar	8	G 1/4 A	M16 x 1.5	19	12	29.5	19	19	6.0 x 1.5
EGE10SGE		10	G 3/8 A	M18 x 1.5	22	12	32.0	22	22	7.5 x 1.5
EGE12SGE		12	G 3/8 A	M20 x 1.5	22	12	34.0	22	24	9.0 x 1.5
EGE16SGE	400 bar	16	G 1/2 A	M24 x 1.5	27	14	37.0	27	30	12.0 x 2.0
EGE20SGE		20	G 3/4 A	M30 x 2.0	32	16	43.0	32	36	16.3 x 2.4
EGE25SGE		25	G 1 A	M36 x 2.0	40	18	48.0	41	46	20.3 x 2.4
EGE30SGE		30	G1 1/4 A	M42 x 2.0	50	20	51.0	50	50	25.3 x 2.4
EGE38SGE	315 bar	38	G1 1/2 A	M52 x 2.0	55	22	60.0	55	60	33.3 x 2.4

Metric Standpipe with Swivel Coupling nut
Male Metric (M) threads,
DIN 3852-11 / ISO 9974 Form E
with Elastomeric seal



Part No.	Series	Tube od øD1	M1 Male Metric thread	M	ød7	i	l 5	S1	S2	O - Ring ID x CSD
EGE06LME	**Light L**	6	M10 x 1.0	M12 x 1.5	14	8	24.5	14	14	4.0 x 1.5
EGE08LME	315 bar	8	M12 x 1.5	M14 x 1.5	17	12	26.5	17	17	6.0 x 1.5
EGE10LME		10	M14 x 1.5	M16 x 1.5	19	12	27.5	19	19	7.5 x 1.5
EGE12LME		12	M16 x 1.5	M18 x 1.5	22	12	30.5	22	22	9.0 x 1.5
EGE15LME		15	M18 x 1.5	M22 x 1.5	24	12	31.5	24	27	12.0 x 2.0
EGE18LME		18	M22 x 1.5	M26 x 1.5	27	14	31.5	27	32	15.0 x 2.0
EGE22LME	160 bar	22	M26 x 1.5	M30 x 2.0	32	16	32.5	32	36	20.0 x 2.0
EGE28LME		28	M33 x 2.0	M36 x 2.0	40	18	35.0	41	41	26.0 x 2.0
EGE35LME		35	M42 x 2.0	M45 x 2.0	50	20	42.5	50	50	32.0 x 2.5
EGE42LME		42	M48 x 2.0	M52 x 2.0	55	22	46.5	55	60	38.0 x 2.5
EGE06SME	**Heavy S**	6	M12 x 1.5	M14 x 1.5	17	12	27.0	17	17	4.0 x 1.5
EGE08SME	630 bar	8	M14 x 1.5	M16 x 1.5	19	12	29.5	19	19	6.0 x 1.5
EGE10SME		10	M16 x 1.5	M18 x 1.5	22	12	32.0	22	22	7.5 x 1.5
EGE12SME		12	M18 x 1.5	M20 x 1.5	24	12	34.0	24	24	9.0 x 1.5
EGE16SME	400 bar	16	M22 x 1.5	M24 x 1.5	27	14	37.0	27	30	12.0 x 2.0
EGE20SME		20	M27 x 2.0	M30 x 2.0	32	16	43.0	32	36	16.3 x 2.4
EGE25SME		25	M33 x 2.0	M36 x 2.0	40	18	48.0	41	46	20.3 x 2.4
EGE30SME		30	M42 x 2.0	M42 x 2.0	50	20	51.0	50	50	25.3 x 2.4
EGE38SME	315 bar	38	M48 x 2.0	M52 x 2.0	55	22	60.0	55	60	33.3 x 2.4

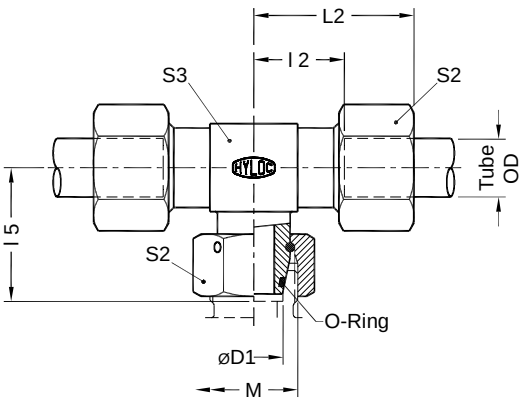
Metric Tube end as per ISO 8434



Part No.	Series	Tube od (ØD1)	M	l 2	l 5	✻ L2	S2	S3	O - Ring ID x CSD
EW06PL	**Light L**	6	M12 x 1.5	12.0	26.0	27.5	14	12	4.0 x 1.5
EW08PL	315 bar	8	M14 x 1.5	14.0	27.5	29.0	17	14	6.0 x 1.5
EW10PL		10	M16 x 1.5	15.0	29.0	30.5	19	17	7.5 x 1.5
EW12PL		12	M18 x 1.5	17.0	29.5	32.0	22	19	9.0 x 1.5
EW15PL		15	M22 x 1.5	21.0	32.5	37.0	27	22	12.0 x 2.0
EW18PL		18	M26 x 1.5	23.5	35.5	40.5	32	27	15.0 x 2.0
EW22PL	160 bar	22	M30 x 2.0	27.5	38.5	44.5	36	30	20.0 x 2.0
EW28PL		28	M36 x 2.0	30.5	41.5	48.5	41	36	26.0 x 2.0
EW35PL		35	M45 x 2.0	34.5	51.0	57.5	50	46	32.0 x 2.5
EW42PL		42	M52 x 2.0	40.0	56.0	63.5	60	55	38.0 x 2.5
EW06PS	**Heavy S**	6	M14 x 1.5	16.0	27.0	31.5	17	14	4.0 x 1.5
EW08PS	630 bar	8	M16 x 1.5	17.0	27.5	32.0	19	17	6.0 x 1.5
EW10PS		10	M18 x 1.5	17.5	30.0	34.5	22	19	7.5 x 1.5
EW12PS		12	M20 x 1.5	21.5	31.0	38.0	24	22	9.0 x 1.5
EW16PS	400 bar	16	M24 x 1.5	24.5	36.5	43.5	30	24	12.0 x 2.0
EW20PS		20	M30 x 2.0	26.5	44.5	49.0	36	30	16.3 x 2.4
EW25PS		25	M36 x 2.0	30.0	50	55.0	46	36	20.3 x 2.4
EW30PS		30	M42 x 2.0	35.5	55	63.5	50	46	25.3 x 2.4
EW38PS	315 bar	38	M52 x 2.0	41.0	63	72.5	60	55	33.3 x 2.4

✻ Dimensions given are approx figures with tightened nut.

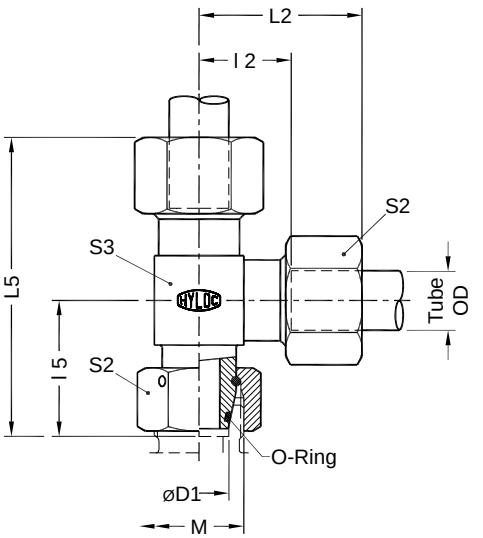
Metric Tube end as per ISO 8434



Part No.	Series	Tube od (øD1)	M	l 2	l 5	* L2	S2	S3	O - Ring ID x CSD
ET06PL	**Light L**	6	M12 x 1.5	12.0	26.0	27.5	14	12	4.0 x 1.5
ET08PL	315 bar	8	M14 x 1.5	14.0	27.5	29.0	17	14	6.0 x 1.5
ET10PL		10	M16 x 1.5	15.0	29.0	30.5	19	17	7.5 x 1.5
ET12PL		12	M18 x 1.5	17.0	29.5	32.0	22	19	9.0 x 1.5
ET15PL		15	M22 x 1.5	21.0	32.5	37.0	27	22	12.0 x 2.0
ET18PL		18	M26 x 1.5	23.5	35.5	40.5	32	27	15.0 x 2.0
ET22PL	160 bar	22	M30 x 2.0	27.5	38.5	44.5	36	30	20.0 x 2.0
ET28PL		28	M36 x 2.0	30.5	41.5	48.5	41	36	26.0 x 2.0
ET35PL		35	M45 x 2.0	34.5	51.0	57.5	50	46	32.0 x 2.5
ET42PL		42	M52 x 2.0	40.0	56.0	63.5	60	55	38.0 x 2.5
ET06PS	**Heavy S**	6	M14 x 1.5	16.0	27.0	31.5	17	14	4.0 x 1.5
ET08PS	630 bar	8	M16 x 1.5	17.0	27.5	32.0	19	17	6.0 x 1.5
ET10PS		10	M18 x 1.5	17.5	30.0	34.5	22	19	7.5 x 1.5
ET12PS		12	M20 x 1.5	21.5	31.0	38.0	24	22	9.0 x 1.5
ET16PS	400 bar	16	M24 x 1.5	24.5	36.5	43.5	30	24	12.0 x 2.0
ET20PS		20	M30 x 2.0	26.5	44.5	49.0	36	30	16.3 x 2.4
ET25PS		25	M36 x 2.0	30.0	50	55.0	46	36	20.3 x 2.4
ET30PS		30	M42 x 2.0	35.5	55	63.5	50	46	25.3 x 2.4
ET38PS	315 bar	38	M52 x 2.0	41.0	63	72.5	60	55	33.3 x 2.4

* Dimensions given are approx figures with tightened nut.

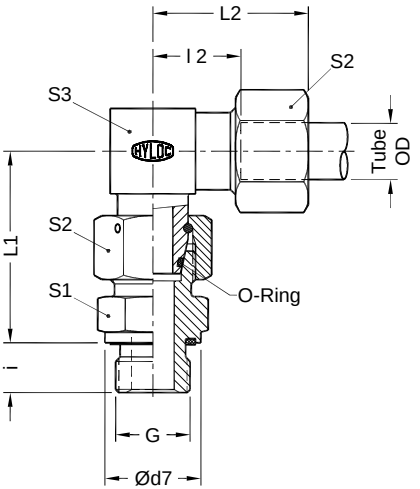
Metric Tube end as per ISO 8434



Part No.	Series	Tube od (øD1)	M	l 2	l 5	* L2	* L5	S2	S3	O - Ring ID x CSD
EL06PL	**Light L**	6	M12 x 1.5	12.0	26.0	27.5	53.5	14	12	4.0 x 1.5
EL08PL	315 bar	8	M14 x 1.5	14.0	27.5	29.0	56.5	17	14	6.0 x 1.5
EL10PL		10	M16 x 1.5	15.0	29.0	30.5	59.5	19	17	7.5 x 1.5
EL12PL		12	M18 x 1.5	17.0	29.5	32.0	61.5	22	19	9.0 x 1.5
EL15PL		15	M22 x 1.5	21.0	32.5	37.0	69.5	27	22	12.0 x 2.0
EL18PL		18	M26 x 1.5	23.5	35.5	40.5	76.0	32	27	15.0 x 2.0
EL22PL	160 bar	22	M30 x 2.0	27.5	38.5	44.5	83.0	36	30	20.0 x 2.0
EL28PL		28	M36 x 2.0	30.5	41.5	48.5	90.0	41	36	26.0 x 2.0
EL35PL		35	M45 x 2.0	34.5	51.0	57.5	108.5	50	46	32.0 x 2.5
EL42PL		42	M52 x 2.0	40.0	56.0	63.5	119.5	60	55	38.0 x 2.5
EL06PS	**Heavy S**	6	M14 x 1.5	16.0	27.0	31.5	58.5	17	14	4.0 x 1.5
EL08PS	630 bar	8	M16 x 1.5	17.0	27.5	32.0	59.5	19	17	6.0 x 1.5
EL10PS		10	M18 x 1.5	17.5	30.0	34.5	64.5	22	19	7.5 x 1.5
EL12PS		12	M20 x 1.5	21.5	31.0	38.0	69.0	24	22	9.0 x 1.5
EL16PS	400 bar	16	M24 x 1.5	24.5	36.5	43.5	80.0	30	24	12.0 x 2.0
EL20PS		20	M30 x 2.0	26.5	44.5	49.0	93.5	36	30	16.3 x 2.4
EL25PS		25	M36 x 2.0	30.0	50.0	55.0	105.0	46	36	20.3 x 2.4
EL30PS		30	M42 x 2.0	35.5	55.0	63.5	118.5	50	46	25.3 x 2.4
EL38PS	315 bar	38	M52 x 2.0	41.0	63.0	72.5	135.5	60	55	33.3 x 2.4

* Dimensions given are approx figures with tightened nut.

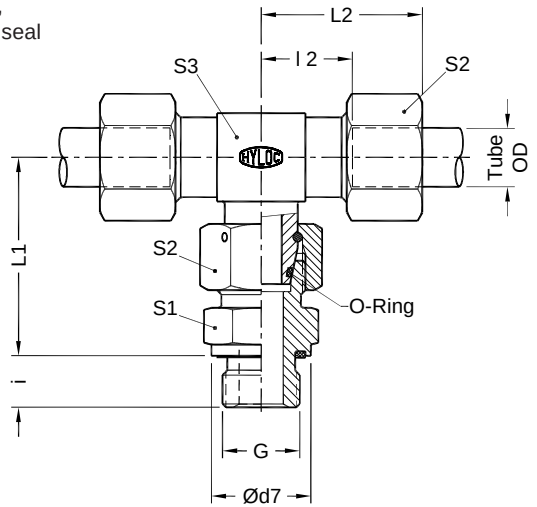
Metric Tube end as per ISO 8434
Male Stud - BSPP (G) threads
DIN 3852-Part 11,
with Elastomeric seal



Part No.	Series	Tube od	G Male BSP thread	ød7	i	l 2	L1	✻ L2	S1	S2	S3
EW06PLGE	**Light L**	6	G 1/8	14	8	12.0	34.5	27.5	14	14	12
EW08PLGE	315 bar	8	G 1/4	19	12	14.0	37.5	29.0	19	17	14
EW10PLGE		10	G 1/4	19	12	15.0	40.0	30.5	19	19	17
EW12PLGE		12	G 3/8	22	12	17.0	42.0	32.0	22	22	19
EW15PLGE		15	G 1/2	27	14	21.0	46.5	37.0	27	27	22
EW18PLGE		18	G 1/2	27	14	23.5	50.0	40.5	27	32	27
EW22PLGE	160 bar	22	G 3/4	32	16	27.5	55.0	44.5	32	36	30
EW28PLGE		28	G 1	40	18	30.5	59.0	48.5	41	41	36
EW35PLGE		35	G1.1/4	50	20	34.5	68.5	57.5	50	50	46
EW42PLGE		42	G1.1/2	55	22	40.0	75.0	63.5	55	60	55
EW06PSGE	**Heavy S**	6	G 1/4	19	12	16.0	40.0	31.5	19	17	14
EW08PSGE	630 bar	8	G 1/4	19	12	17.0	42.5	32.0	19	19	17
EW10PSGE		10	G 3/8	22	12	17.5	45.0	34.5	22	22	19
EW12PSGE		12	G 3/8	22	12	21.5	48.0	38.0	22	24	22
EW16PSGE	400 bar	16	G 1/2	27	14	24.5	55.0	43.5	27	30	24
EW20PSGE		20	G 3/4	32	16	26.5	65.0	49.0	32	36	30
EW25PSGE		25	G 1	40	18	30.0	73.0	55.0	41	46	36
EW30PSGE		30	G1.1/4	50	20	35.5	78.5	63.5	50	50	46
EW38PSGE	315 bar	38	G1.1/2	55	22	41.0	89.0	72.5	55	60	55

✻ Dimensions given are approx figures with tightened nut.

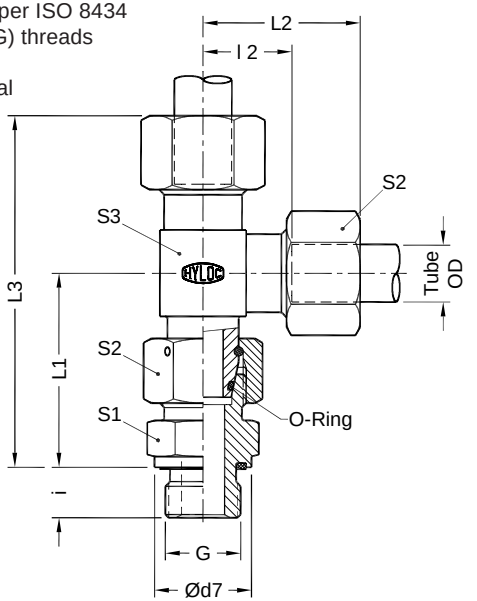
Metric Tube end as per ISO 8434
Male Stud - BSPP (G) threads
DIN 3852-Part 11,
with Elastomeric seal



Part No.	Series	Tube od	G Male BSP thread	ød7	i	l 2	L1	✻ L2	S1	S2	S3
ET06PLGE	**Light L**	6	G 1/8	14	8	12.0	34.5	27.5	14	14	12
ET08PLGE	315 bar	8	G 1/4	19	12	14.0	37.5	29.0	19	17	14
ET10PLGE		10	G 1/4	19	12	15.0	40.0	30.5	19	19	17
ET12PLGE		12	G 3/8	22	12	17.0	42.0	32.0	22	22	19
ET15PLGE		15	G 1/2	27	14	21.0	46.5	37.0	27	27	22
ET18PLGE		18	G 1/2	27	14	23.5	50.0	40.5	27	32	27
ET22PLGE	160 bar	22	G 3/4	32	16	27.5	55.0	44.5	32	36	30
ET28PLGE		28	G 1	40	18	30.5	59.0	48.5	41	41	36
ET35PLGE		35	G1.1/4	50	20	34.5	68.5	57.5	50	50	46
ET42PLGE		42	G1.1/2	55	22	40.0	75.0	63.5	55	60	55
ET06PSGE	**Heavy S**	6	G 1/4	19	12	16.0	40.0	31.5	19	17	14
ET08PSGE	630 bar	8	G 1/4	19	12	17.0	42.5	32.0	19	19	17
ET10PSGE		10	G 3/8	22	12	17.5	45.0	34.5	22	22	19
ET12PSGE		12	G 3/8	22	12	21.5	48.0	38.0	22	24	22
ET16PSGE	400 bar	16	G 1/2	27	14	24.5	55.0	43.5	27	30	24
ET20PSGE		20	G 3/4	32	16	26.5	65.0	49.0	32	36	30
ET25PSGE		25	G 1	40	18	30.0	73.0	55.0	41	46	36
ET30PSGE		30	G1.1/4	50	20	35.5	78.5	63.5	50	50	46
ET38PSGE	315 bar	38	G1.1/2	55	22	41.0	89.0	72.5	55	60	55

✻ Dimensions given are approx figures with tightened nut.

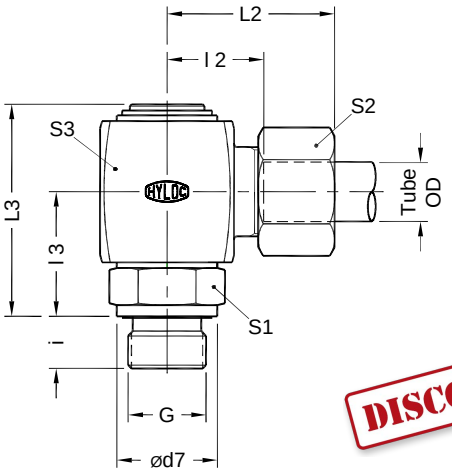
Metric Tube end as per ISO 8434
Male Stud - BSPP (G) threads
DIN 3852-Part 11,
with Elastomeric seal



Part No.	Series	Tube od	G Male BSP thread	Ød7	i	l 2	* L1	* L2	* L3	S1	S2	S3
EL06PLGE	**Light L**	6	G 1/8	14	8	12.0	34.5	27.5	62.0	14	14	12
EL08PLGE	315 bar	8	G 1/4	19	12	14.0	37.5	29.0	66.5	19	17	14
EL10PLGE		10	G 1/4	19	12	15.0	40.0	30.5	70.5	19	19	17
EL12PLGE		12	G 3/8	22	12	17.0	42.0	32.0	74.0	22	22	19
EL15PLGE		15	G 1/2	27	14	21.0	46.5	37.0	83.5	27	27	22
EL18PLGE		18	G 1/2	27	14	23.5	50.0	40.5	90.5	27	32	27
EL22PLGE	160 bar	22	G 3/4	32	16	27.5	55.0	44.5	99.5	32	36	30
EL28PLGE		28	G 1	40	18	30.5	59.0	48.5	107.5	41	41	36
EL35PLGE		35	G1.1/4	50	20	34.5	68.5	57.5	126.0	50	50	46
EL42PLGE		42	G1.1/2	55	22	40.0	75.0	63.5	138.5	55	60	55
EL06PSGE	**Heavy**	6	G 1/4	19	12	16.0	40.0	31.5	71.5	19	17	14
EL08PSGE	**S**	8	G 1/4	19	12	17.0	42.5	32.0	74.5	19	19	17
EL10PSGE	630 bar	10	G 3/8	22	12	17.5	45.0	34.5	79.5	22	22	19
EL12PSGE		12	G 3/8	22	12	21.5	48.0	38.0	86.0	22	24	22
EL16PSGE	400 bar	16	G 1/2	27	14	24.5	55.0	43.5	98.5	27	30	24
EL20PSGE		20	G 3/4	32	16	26.5	65.0	49.0	114.0	32	36	30
EL25PSGE		25	G 1	40	18	30.0	73.0	55.0	128.0	41	46	36
EL30PSGE		30	G1.1/4	50	20	35.5	78.5	63.5	142.0	50	50	46
EL38PSGE	315 bar	38	G1.1/2	55	22	41.0	89.0	72.5	161.5	55	60	55

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Male stud - BSPP (G) threads
with Elastomeric seal

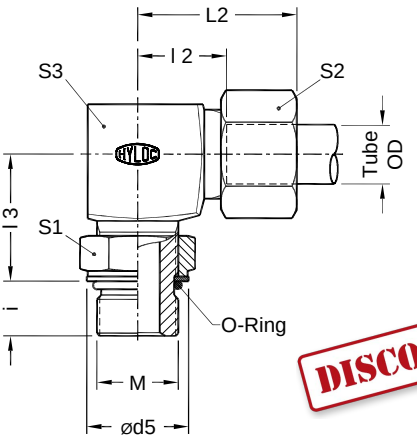


DISCONTINUED

Part No.	Series	Tube od	BSP thread G	ød7	i	l 2	l 3	* L2	L3	S1	S2	S3
RW06PLGE	**Light L**	6	G 1/8 A	14	8	14.0	19.0	29.0	35.5	14	14	22
RW08PLGE	250 bar	8	G 1/4 A	19	12	18.0	23.5	33.0	41.5	19	17	27
RW10PLGE		10	G 1/4 A	19	12	19.0	23.5	35.0	41.5	19	19	27
RW12PLGE		12	G 3/8 A	22	12	20.0	27.0	35.0	46.5	22	22	32
RW15PLGE		15	G 1/2 A	27	14	25.5	33.5	41.5	57.0	27	27	36
RW18PLGE	100 bar	18	G 1/2 A	27	14	25.0	33.5	42.5	57.0	27	32	36
RW22PLGE		22	G 3/4 A	32	16	29.5	39.0	47.0	66.0	32	36	46
RW28PLGE	100 bar	28	G 1 A	40	18	34.0	45.0	52.5	78.0	41	41	55
RW35PLGE		35	G1 1/4 A	50	20	38.0	51.5	60.5	93.0	50	50	65
RW42PLGE		42	G1 1/2 A	55	22	42.5	60.5	65.5	108.0	55	60	75
RW06PSGE	**Heavy S**	6	G 1/4 A	19	12	18.5	23.5	33.5	41.5	19	17	27
RW08PSGE	400 bar	8	G 1/4 A	19	12	18.5	23.5	33.5	41.5	19	19	27
RW10PSGE		10	G 3/8 A	22	12	20.5	27.0	38.0	46.5	22	22	32
RW12PSGE		12	G 3/8 A	22	12	20.5	27.0	37.0	46.5	22	24	32
RW16PSGE	400 bar	16	G 1/2 A	27	14	23.5	33.5	43.0	57.0	27	30	36
RW20PSGE		20	G 3/4 A	32	16	28.5	39.0	51.0	66.0	32	36	46
RW25PSGE		25	G 1 A	40	18	33.5	45.0	58.5	78.0	41	46	55
RW30PSGE	250 bar	30	G1 1/4 A	50	20	39.0	51.5	67.5	93.0	50	50	65
RW38PSGE		38	G1 1/2 A	55	22	43.5	60.5	75.5	108.0	55	60	75

* Dimensions given are approx figures with tightened nut.

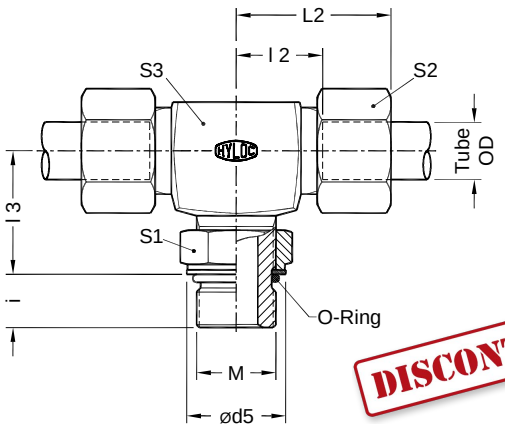
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	Metric thread M	ød5	i	l 2	* L2	l 3	S1	S2	S3
WEE06PLMO	**Light L**	6	M10x1.0	15	7.0	14.0	29.5	20.0	14	14	14
WEE08PLMO	315 bar	8	M12x1.5	18	10.0	16.0	31.0	22.0	17	17	14
WEE10PLMO		10	M14x1.5	20	10.0	17.0	32.5	25.0	19	19	19
WEE12PLMO		12	M16x1.5	23	10.0	19.0	34.0	26.0	22	22	19
WEE15PLMO		15	M18x1.5	25	11.0	21.0	37.0	30.0	24	27	22
WEE18PLMO		18	M22x1.5	28	12.0	24.0	41.0	33.0	27	32	27
WEE22PLMO		22	M27x2.0	33	14.0	28.0	45.0	35.0	32	36	30
WEE28PLMO	160 bar	28	M33x2.0	41	14.0	31.0	49.0	38.0	41	41	36
WEE35PLMO		35	M42x2.0	51	14.0	38.0	61.0	48.0	50	50	50
WEE42PLMO		42	M48x2.0	56	16.0	38.0	61.5	49.0	55	60	50
WEE06PSMO	**Heavy**	6	M12x1.5	18	10.0	15.0	30.5	22.0	17	17	14
WEE08PSMO	400 bar	8	M14x1.5	20	10.0	17.0	32.0	26.0	19	19	19
WEE10PSMO		10	M16x1.5	23	11.0	18.0	35.0	27.0	22	22	19
WEE12PSMO		12	M18x1.5	25	12.0	22.0	38.5	31.0	24	24	22
WEE16PSMO		16	M22x1.5	28	14.0	25.0	44.0	35.0	27	30	27
WEE20PSMO	400 bar	20	M27x2.0	33	16.0	28.0	50.5	39.0	32	36	30
WEE25PSMO	315 bar	25	M33x2.0	41	16.0	30.0	55.0	44.0	41	46	36
WEE30PSMO	250 bar	30	M42x2.0	51	17.0	36.0	64.0	51.0	50	50	50
WEE38PSMO	200 bar	38	M48x2.0	56	19.0	34.0	65.5	54.0	55	60	50

* Dimensions given are approx figures with tightened nut.

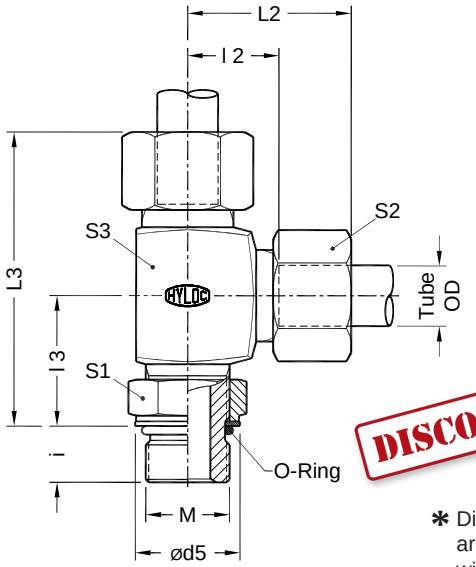
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	Metric thread M	ød5	i	l 2	* L2	l 3	S1	S2	S3
TEE06PLMO	**Light L**	6	M10x1.0	15	7.0	14.0	29.5	20.0	14	14	14
TEE08PLMO	315 bar	8	M12x1.5	18	10.0	16.0	31.0	22.0	17	17	14
TEE10PLMO		10	M14x1.5	20	10.0	17.0	32.5	25.0	19	19	19
TEE12PLMO		12	M16x1.5	23	10.0	19.0	34.0	26.0	22	22	19
TEE15PLMO		15	M18x1.5	25	11.0	21.0	37.0	30.0	24	27	22
TEE18PLMO		18	M22x1.5	28	12.0	24.0	41.0	33.0	27	32	27
TEE22PLMO		22	M27x2.0	33	14.0	28.0	45.0	35.0	32	36	30
TEE28PLMO	160 bar	28	M33x2.0	41	14.0	31.0	49.0	38.0	41	41	36
TEE35PLMO		35	M42x2.0	51	14.0	38.0	61.0	48.0	50	50	50
TEE42PLMO		42	M48x2.0	56	16.0	38.0	61.5	49.0	55	60	50
TEE06PSMO	**Heavy**	6	M12x1.5	18	10.0	15.0	30.5	22.0	17	17	14
TEE08PSMO	400 bar	8	M14x1.5	20	10.0	17.0	32.0	26.0	19	19	19
TEE10PSMO		10	M16x1.5	23	11.0	18.0	35.0	27.0	22	22	19
TEE12PSMO		12	M18x1.5	25	12.0	22.0	38.5	31.0	24	24	22
TEE16PSMO		16	M22x1.5	28	14.0	25.0	44.0	35.0	27	30	27
TEE20PSMO	400 bar	20	M27x2.0	33	16.0	28.0	50.5	39.0	32	36	30
TEE25PSMO	315 bar	25	M33x2.0	41	16.0	30.0	55.0	44.0	41	46	36
TEE30PSMO	250 bar	30	M42x2.0	51	17.0	36.0	64.0	51.0	50	50	50
TEE38PSMO	200 bar	38	M48x2.0	56	19.0	34.0	65.5	54.0	55	60	50

* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434



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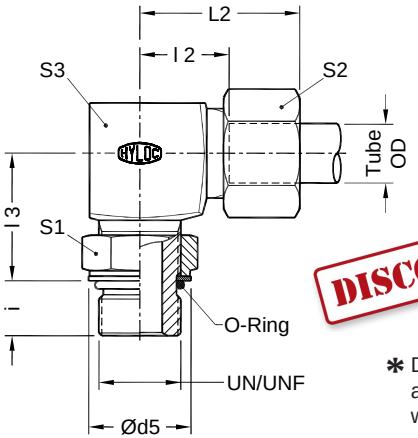
✻ Dimensions given are approx figures with tightened nut.

Part No.	Series	Tube od	Metric thread M	ød5	i	l 2	✻ L2	l 3	✻ L3	S1	S2	S3
LEE06PLMO	**Light L**	6	M10x1.0	15	7.0	14.0	29.5	20.0	49.5	14	14	14
LEE08PLMO	315 bar	8	M12x1.5	18	10.0	16.0	31.0	22.0	53.0	17	17	14
LEE10PLMO		10	M14x1.5	20	10.0	17.0	32.5	25.0	57.5	19	19	19
LEE12PLMO		12	M16x1.5	23	10.0	19.0	34.0	26.0	60.0	22	22	19
LEE15PLMO		15	M18x1.5	25	11.0	21.0	37.0	30.0	67.0	24	27	22
LEE18PLMO		18	M22x1.5	28	12.0	24.0	41.0	33.0	74.0	27	32	27
LEE22PLMO		22	M27x2.0	33	14.0	28.0	45.0	35.0	80.0	32	36	30
LEE28PLMO	160 bar	28	M33x2.0	41	14.0	31.0	49.0	38.0	87.0	41	41	36
LEE35PLMO		35	M42x2.0	51	14.0	38.0	61.0	48.0	109.0	50	50	50
LEE42PLMO		42	M48x2.0	56	16.0	38.0	61.5	49.0	110.5	55	60	50
LEE06PSMO	**Heavy**	6	M12x1.5	18	10.0	15.0	30.5	22.0	52.5	17	17	14
LEE08PSMO	400 bar	8	M14x1.5	20	10.0	17.0	32.0	26.0	58.0	19	19	19
LEE10PSMO		10	M16x1.5	23	11.0	18.0	35.0	27.0	62.0	22	22	19
LEE12PSMO		12	M18x1.5	25	12.0	22.0	38.5	31.0	69.5	24	24	22
LEE16PSMO		16	M22x1.5	28	14.0	25.0	44.0	35.0	79.0	27	30	27
LEE20PSMO	400 bar	20	M27x2.0	33	16.0	28.0	50.5	39.0	89.5	32	36	30
LEE25PSMO	315 bar	25	M33x2.0	41	16.0	30.0	55.0	44.0	99.0	41	46	36
LEE30PSMO	250 bar	30	M42x2.0	51	17.0	36.0	64.0	51.0	115.0	50	50	50
LEE38PSMO	200 bar	38	M48x2.0	56	19.0	34.0	65.5	54.0	119.5	55	60	50

Metric Tube end as per ISO 8434



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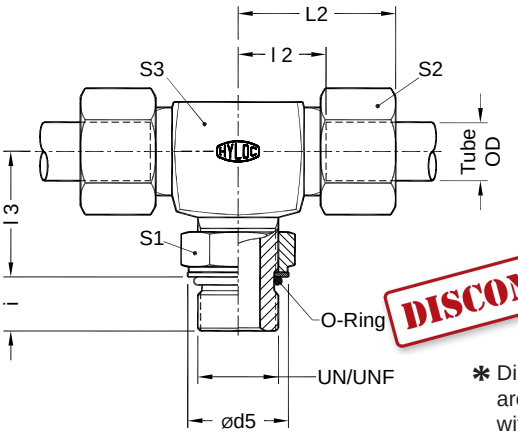
✻ Dimensions given are approx figures with tightened nut.

Part No.	Series	Tube od	SAE thread UNF / UN	ød5	i	l 2	✻ L2	l 3	S1	S2	S3
WEE06PLS04	**Light L**	6	7/16"-20 UNF	16.5	10	14	29.5	19	14	14	14
WEE08PLS04	315 bar	8	7/16"-20 UNF	18.3	10	16	31.0	19	14	17	14
WEE10PLS06		10	9/16"-18 UNF	20.2	10	17	32.5	24	17	19	19
WEE12PLS06		12	9/16"-18 UNF	25.7	11	19	34.0	25	17	22	19
WEE12PLS08		12	3/4"-16 UNF	25.7	13	19	34.0	25	22	22	19
WEE15PLS08	315 bar	15	3/4"-16 UNF	25.7	13	21	37.0	28	22	27	22
WEE15PLS10	315 bar	15	7/8"-14 UNF	29.3	15	21	37.0	28	27	27	22
WEE18PLS10	315 bar	18	7/8"-14 UNF	29.3	15	24	41.0	32	27	32	27
WEE18PLS12	315 bar	18	1.1/16"-12 UN	29.3	17	24	41.0	32	32	32	30
WEE22PLS12	160 bar	22	1.1/16"-12 UN	36.7	17	28	45.0	35	32	36	30
WEE28PLS16	160 bar	28	1.5/16"-12 UN	44.0	17	31	49.0	42	41	41	36
WEE35PLS20	160 bar	35	1.5/8"-12 UN	55.0	17	38	61.0	46	50	50	50
WEE42PLS24	160 bar	42	1.7/8"-12 UN	55.0	17	38	61.5	47	55	60	50
WEE06PSS04	**Heavy S**	6	7/16"-20 UNF	16.5	12	15	30.5	20	14	17	14
WEE08PSS06	400 bar	8	9/16"-18 UNF	18.3	12	17	32.0	25	17	19	19
WEE10PSS06		10	9/16"-18 UNF	20.2	12	18	35.0	26	17	22	19
WEE12PSS08		12	3/4"-16 UNF	25.7	14	22	38.5	30	22	24	22
WEE16PSS10		16	7/8"-14 UNF	29.3	16	25	44.0	34	27	30	27
WEE20PSS12	400 bar	20	1.1/16"-12 UN	36.7	19	28	50.5	37	32	36	30
WEE25PSS12	400 bar	25	1.1/16"-12 UN	44.0	19	30	55.0	50	32	46	36
WEE30PSS20	250 bar	30	1.5/8"-12 UN	55.0	19	36	64.0	50	50	50	50
WEE38PSS24	250 bar	38	1.7/8"-12 UN	55.0	19	34	65.5	51	55	60	50

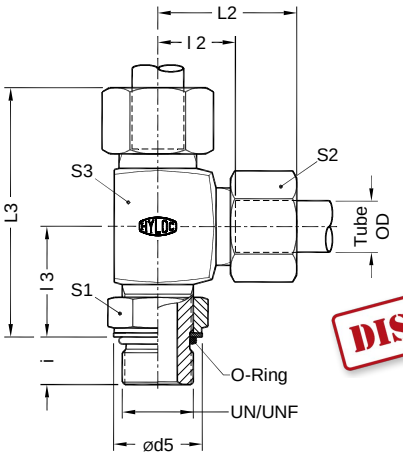
Metric Tube end as per ISO 8434



✻ Dimensions given are approx figures with tightened nut.

Part No.	Series	Tube od	SAE thread UNF / UN	ød5	i	l 2	✻ L2	l 3	S1	S2	S3
TEE06PLS04	**Light L**	6	7/16"-20 UNF	16.5	10	14	29.5	19	14	14	14
TEE08PLS04	315 bar	8	7/16"-20 UNF	18.3	10	16	31.0	19	14	17	14
TEE10PLS06		10	9/16"-18 UNF	20.2	10	17	32.5	24	17	19	19
TEE12PLS06		12	9/16"-18 UNF	25.7	11	19	34.0	25	17	22	19
TEE12PLS08		12	3/4"-16 UNF	25.7	13	19	34.0	25	22	22	19
TEE15PLS08	315 bar	15	3/4"-16 UNF	25.7	13	21	37.0	28	22	27	22
TEE15PLS10	315 bar	15	7/8"-14 UNF	29.3	15	21	37.0	28	27	27	22
TEE18PLS10	315 bar	18	7/8"-14 UNF	29.3	15	24	41.0	32	27	32	27
TEE18PLS12	315 bar	18	1.1/16"-12 UN	29.3	17	24	41.0	32	32	32	30
TEE22PLS12	160 bar	22	1.1/16"-12 UN	36.7	17	28	45.0	35	32	36	30
TEE28PLS16	160 bar	28	1.5/16"-12 UN	44.0	17	31	49.0	42	41	41	36
TEE35PLS20	160 bar	35	1.5/8"-12 UN	55.0	17	38	61.0	46	50	50	50
TEE42PLS24	160 bar	42	1.7/8"-12 UN	55.0	17	38	61.5	47	55	60	50
TEE06PSS04	**Heavy S**	6	7/16"-20 UNF	16.5	12	15	30.5	20	14	17	14
TEE08PSS06	400 bar	8	9/16"-18 UNF	18.3	12	17	32.0	25	17	19	19
TEE10PSS06		10	9/16"-18 UNF	20.2	12	18	35.0	26	17	22	19
TEE12PSS08		12	3/4"-16 UNF	25.7	14	22	38.5	30	22	24	22
TEE16PSS10		16	7/8"-14 UNF	29.3	16	25	44.0	34	27	30	27
TEE20PSS12	400 bar	20	1.1/16"-12 UN	36.7	19	28	50.5	37	32	36	30
TEE25PSS12	400 bar	25	1.1/16"-12 UN	44.0	19	30	55.0	50	32	46	36
TEE30PSS20	250 bar	30	1.5/8"-12 UN	55.0	19	36	64.0	50	50	50	50
TEE38PSS24	250 bar	38	1.7/8"-12 UN	55.0	19	34	65.5	51	55	60	50

Metric Tube end as per ISO 8434



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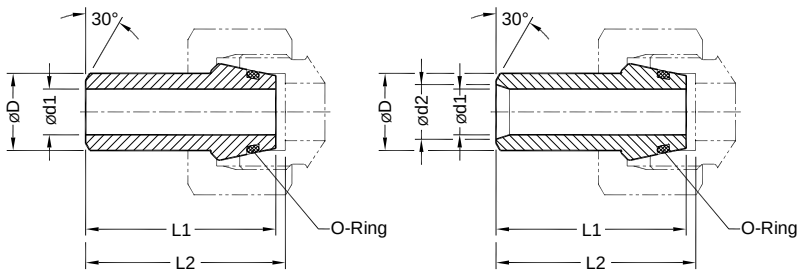
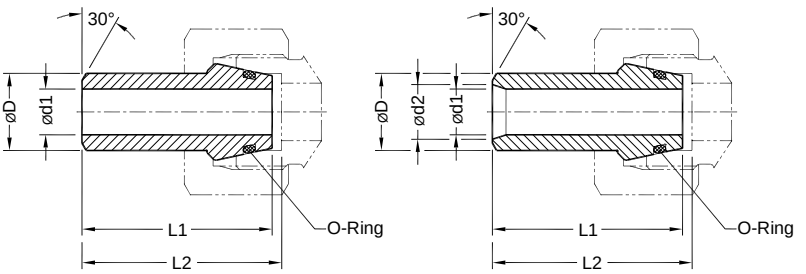
✻ Dimensions given are approx figures with tightened nut.

Part No.	Series	Tube od	SAE thread UNF / UN	ød5	i	l 2	✻ L2	l 3	✻ L3	S1	S2	S3
LEE06PLS04	**Light L**	6	7/16"-20 UNF	16.5	10	14	29.5	19	48.5	14	14	14
LEE08PLS04	315 bar	8	7/16"-20 UNF	18.3	10	16	31.0	19	50.0	14	17	14
LEE10PLS06		10	9/16"-18 UNF	20.2	10	17	32.5	24	56.5	17	19	19
LEE12PLS06		12	9/16"-18 UNF	25.7	11	19	34.0	25	59.0	17	22	19
LEE12PLS08		12	3/4"-16 UNF	25.7	13	19	34.0	25	59.0	22	22	19
LEE15PLS08	315 bar	15	3/4"-16 UNF	25.7	13	21	37.0	28	65.0	22	27	22
LEE15PLS10	315 bar	15	7/8"-14 UNF	29.3	15	21	37.0	28	65.0	27	27	22
LEE18PLS10	315 bar	18	7/8"-14 UNF	29.3	15	24	41.0	32	73.0	27	32	27
LEE18PLS12	315 bar	18	1.1/16"-12 UN	29.3	17	24	41.0	32	73.0	32	32	30
LEE22PLS12	160 bar	22	1.1/16"-12 UN	36.7	17	28	45.0	35	80.0	32	36	30
LEE28PLS16	160 bar	28	1.5/16"-12 UN	44.0	17	31	49.0	42	91.0	41	41	36
LEE35PLS20	160 bar	35	1.5/8"-12 UN	55.0	17	38	61.0	46	107.0	50	50	50
LEE42PLS24	160 bar	42	1.7/8"-12 UN	55.0	17	38	61.5	47	108.5	55	60	50
LEE06PSS04	**Heavy S**	6	7/16"-20 UNF	16.5	12	15	30.5	20	50.5	14	17	14
LEE08PSS06	400 bar	8	9/16"-18 UNF	18.3	12	17	32.0	25	57.0	17	19	19
LEE10PSS06		10	9/16"-18 UNF	20.2	12	18	35.0	26	61.0	17	22	19
LEE12PSS08		12	3/4"-16 UNF	25.7	14	22	38.5	30	68.5	22	24	22
LEE16PSS10		16	7/8"-14 UNF	29.3	16	25	44.0	34	78.0	27	30	27
LEE20PSS12	400 bar	20	1.1/16"-12 UN	36.7	19	28	50.5	37	87.5	32	36	30
LEE25PSS12	400 bar	25	1.1/16"-12 UN	44.0	19	30	55.0	50	105.0	32	46	36
LEE30PSS20	250 bar	30	1.5/8"-12 UN	55.0	19	36	64.0	50	114.0	50	50	50
LEE38PSS24	250 bar	38	1.7/8"-12 UN	55.0	19	34	65.5	51	116.5	55	60	50



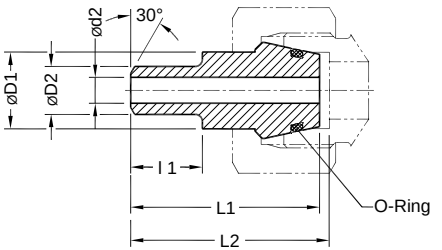
	Part No.	Series	Max Pr (bar)	Tube size od x Wall	O-Ring ID x CSD	ØD	Ød1	Ød2	L1	L2
#	**WNA1515**	**Light L**	282	15 x 1.5	12 x 2.0	15	10	12	34.5	35.0
	WNA1520		376	15 x 2.0			10	11	34.5	35.0
	WNA1525		409	15 x 2.5			10	--	34.5	35.0
#	**WNA1820**		313	18 x 2.0	15 x 2.0	18	13	14	36.5	37.0
	WNA1825		392	18 x 2.5			13	--	36.5	37.0
	WNA1830		409	18 x 3.0			12	--	36.5	37.0
	WNA2220		256	22 x 2.0	20 x 2.0	22	17	18	39.0	39.5
#	**WNA2225**		320	22 x 2.5			17	--	39.0	39.5
#	**WNA2825**		252	28 x 2.5	26 x 2.0	28	23	--	41.5	42.5
	WNA2830		302	28 x 3.0			22	--	41.5	42.5
	WNA2840		403	28 x 4.0			20	--	41.5	42.5
#	**WNA3530**		242	35 x 3.0	32 x 2.5	35	29	--	48.5	49.5
	WNA3540		322	35 x 4.0			27	--	48.5	49.5
	WNA3550		403	35 x 5.0			25	--	48.5	49.5
	WNA4220		134	42 x 2.0	38 x 2.5	42	36	38	49.0	50.0
	WNA4230		201	42 x 3.0			36	--	49.0	50.0
#	**WNA4240**		269	42 x 4.0			34	--	49.0	50.0
#	**WNA0610**	**Heavy S**	237	6.0 x 1.0	4.0 x 1.5	6	2.5	4	31.5	32.0
	WNA0615		237	6.0 x 1.5			2.5	3		
	WNA0810		237	8.0 x 1.0	6.0 x 1.5	8	4.0	6	31.0	32.0
#	**WNA0815**		237	8.0 x 1.5			4.0	5		
	WNA0820		237	8.0 x 2.0			4.0	--		

Standard wall thickness unless specified

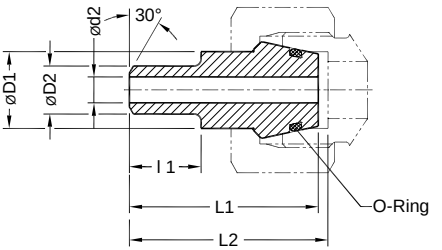


	Part No.	Series	Max Pr (bar)	Tube size od x Wall	O-Ring ID x CSD	ØD	Ød1	Ød2	L1	L2
	WNA1010	**Heavy S**	**237**	10 x 1.0	7.5 x 1.5	10	6	8	32.5	33.5
#	**WNA1015**		370	10 x 1.5			6	7		
	WNA1020		508	10 x 2.0			6	--		
	WNA1215		302	12 x 1.5	9.0 x 1.5	12	8	9	32.5	33.5
#	**WNA1220**		415	12 x 2.0			8	--		
	WNA1225		532	12 x 2.5			7	--		
	WNA1615		221	16 x 1.5	12 x 2.0	16	11	13	39.5	40.5
	WNA1620		302	16 x 2.0			11	12		
#	**WNA1625**		387	16 x 2.5			11	--		
	WNA1630		473	16 x 3.0			10	--		
	WNA2020		237	20 x 2.0	16.3 x 2.4	20	14	16	46.5	47.0
	WNA2025		302	20 x 2.5			14	15		
#	**WNA2030**		370	20 x 3.0			14	--		
	WNA2040		508	20 x 4.0			12	--		
	WNA2530		289	25 x 3.0	20.3 x 2.4	25	19	--	52.5	53.5
#	**WNA2540**		397	25 x 4.0			17	--		
	WNA2550		508	25 x 5.0			15	--		
	WNA3030		237	30 x 3.0	25.3 x 2.4	30	24	--	56.5	57.5
#	**WNA3040**		325	30 x 4.0			22	--		
	WNA3050		415	30 x 5.0			20	--		
	WNA3060		508	30 x 6.0			18	--		
	WNA3840		251	38 x 4.0	33.3 x 2.4	38	30	--	63.5	64.5
#	**WNA3850**		320	38 x 5.0			28	--		
	WNA3860		391	38 x 6.0			26	--		
	WNA3870		464	38 x 7.0			24	--		

Standard wall thickness unless specified

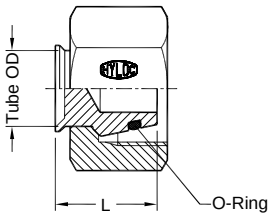


Part No.	Series	Max Pr (bar)	øD1	øD2	Tube size od x Wall	O-Ring ID x CSD	ød2	l 1	L1	L2
WNR181515	**Light L**	160	18	15	15 x 1.5	15 x 2.0	12	16	36.5	37.0
WNR221815		160	22	18	18 x 1.5	20 x 2.0	15	18	39.0	39.5
WNR221515			22	15	15 x 1.5		12			
WNR282220		100	28	22	22 x 2.0	26 x 2.0	18	21	41.5	42.5
WNR281815			28	18	18 x 1.5		15			
WNR281515			28	15	15 x 1.5		12			
WNR352820		100	35	28	28 x 2.0	32 x 2.5	24	25	48.5	49.5
WNR352220			35	22	22 x 2.0		18			
WNR351815			35	18	18 x 1.5		15			
WNR351515			35	15	15 x 1.5		12			
WNR423520		100	42	35	35 x 2.0	38 x 2.5	31	22	49	50.0
WNR422820			42	28	28 x 2.0		24			
WNR422220			42	22	22 x 2.0		18			
WNR421815			42	18	18 x 1.5		15			
WNR421515			42	15	15 x 1.5		12			
WNR080620	**Heavy S**	630	8	6	6 x 2.0	6.0 x 1.5	2	11	31.0	32.0
WNR100825		630	10	8	8 x 2.5	7.5 x 1.5	3	12	32.5	33.5
WNR100620			10	6	6 x 2.0		2			
WNR121030		630	12	10	10 x 3.0	9.0 x 1.5	4	13	32.5	33.5
WNR120825			12	8	8 x 2.5		3			
WNR120620			12	6	6 x 2.0		2			



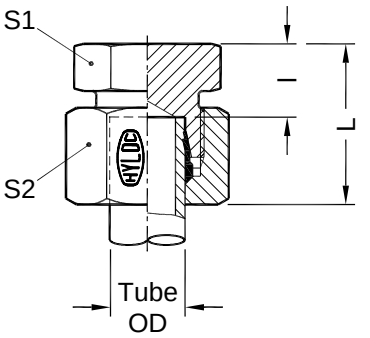
Part No.	Series	Max Pr (bar)	øD1	øD2	Tube size od x Wall	O-Ring ID x CSD	ød2	l 1	L1	L2
WNR161220	**Heavy S**	400	16	12	12 x 2.0	12 x 2.0	8	15	39.5	40.5
WNR161020			16	10	10 x 2.0		6			
WNR160815			16	8	8 x 1.5		5			
WNR160615			16	6	6 x 1.5		3			
WNR201630		400	20	16	16 x 3.0	16.3 x 2.4	10	17	46.5	47.0
WNR201220			20	12	12 x 2.0		8			
WNR201020			20	10	10 x 2.0		6			
WNR200815			20	8	8 x 1.5		5			
WNR200615			20	6	6 x 1.5		3			
WNR252035		400	25	20	20 x 3.5	20.3 x 2.4	13	20	52.5	53.5
WNR251630			25	16	16 x 3.0		10			
WNR251220			25	12	12 x 2.0		8			
WNR251020			25	10	10 x 2.0		6			
WNR250815			25	8	8 x 1.5		5			
WNR250615			25	6	6 x 1.5		3			
WNR302525		250	30	25	25 x 2.5	25.3 x 2.4	20	22	56.5	57.5
WNR302020			30	20	20 x 2.0		16			
WNR301620			30	16	16 x 2.0		12			
WNR301215			30	12	12 x 1.5		9			
WNR301015			30	10	10 x 1.5		7			
WNR300815			30	8	8 x 1.5		5			
WNR300610			30	6	6 x 1.0		4			
WNR383030		250	38	30	30 x 3.0	33.3 x 2.4	24	26	63.5	64.5
WNR382525			38	25	25 x 2.5		20			
WNR382020			38	20	20 x 2.0		16			
WNR381620			38	16	16 x 2.0		12			
WNR381215			38	12	12 x 1.5		9			
WNR381015			38	10	10 x 1.5		7			
WNR380815			38	8	8 x 1.5		5			
WNR380610			38	6	6 x 1.0		4			

For Metric Tube ends (24º) as per ISO 8434



Part No.	Series	Tube od	L	O-Ring ID x CSD
VKA06L	**Light L**	6	18.5	4.0 x 1.5
VKA08L	250 bar	8	18.0	6.0 x 1.5
VKA10L		10	19.5	7.5 x 1.5
VKA12L		12	19.5	9.0 x 1.5
VKA15L		15	19.0	12.0 x 2.0
VKA18L	160 bar	18	20.5	15 x 2.0
VKA22L		22	21.5	20 x 2.0
VKA28L	100 bar	28	22.0	26 x 2.0
VKA35L		35	27.5	32 x 2.5
VKA42L		42	28.0	38 x 2.5
VKA06S	**Heavy S**	6	18.5	4.0 x 1.5
VKA08S	630 bar	8	18.0	6.0 x 1.5
VKA10S		10	19.5	7.5 x 1.5
VKA12S		12	19.5	9.0 x 1.5
VKA16S	400 bar	16	21.5	12 x 2.0
VKA20S		20	26.0	16.3 x 2.4
VKA25S		25	28.0	20.3 x 2.4
VKA30S	250 bar	30	32.5	25.3 x 2.4
VKA38S		38	36.5	33.3 x 2.4

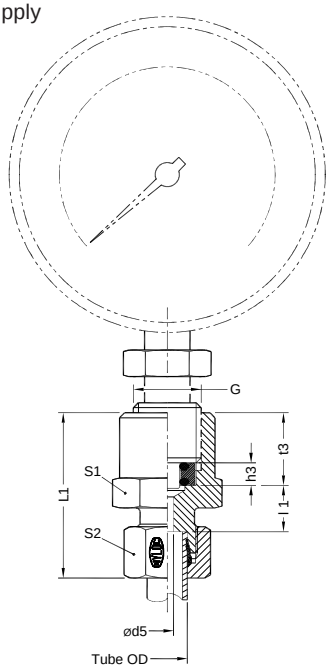
Metric Tube end as per ISO 8434



Part No.	Series	Tube od	l	L *	S1	S2
BUZT06L	**Light L**	6	8.0	23.5	12	14
BUZT08L	250 bar	8	8.0	23.0	14	17
BUZT10L		10	9.0	24.5	17	19
BUZT12L		12	10.0	25.0	19	22
BUZT15L		15	11.0	27.0	22	27
BUZT18L	160 bar	18	11.5	28.5	27	32
BUZT22L		22	13.5	30.5	30	36
BUZT28L	100 bar	28	14.5	32.5	36	41
BUZT35L		35	16.5	39.5	46	50
BUZT42L		42	19.0	42.5	55	60
BUZT06S	**Heavy S**	6	13.0	28.5	14	17
BUZT08S	630 bar	8	13.0	28.0	17	19
BUZT10S		10	12.5	29.5	19	22
BUZT12S		12	14.5	31.0	22	24
BUZT16S	400 bar	16	15.5	34.5	24	30
BUZT20S		20	17.5	40.0	30	36
BUZT25S		25	18.0	43.0	36	46
BUZT30S	250 bar	30	22.5	50.5	46	50
BUZT38S		38	23.0	54.5	55	60

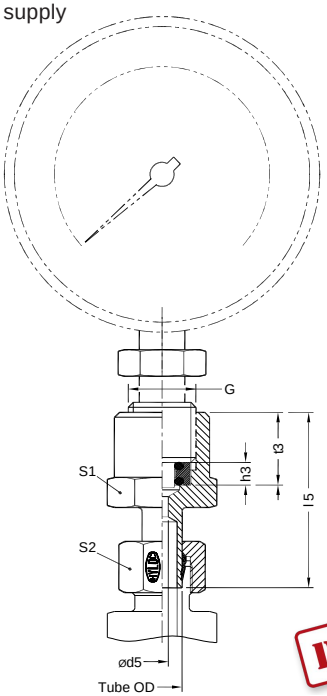
* Dimensions given are approx figures with tightened nut.

Metric Tube end as per ISO 8434
Gauge is not in scope of supply



Part No.	Series	Tube od	Connection thread	ød5	h3	l 1	L 1 *	S1	S2	t 3
MAV04PLG02	100 bar	4	G 1/4	2.5	4.5	8.5	33.0	19	14	14.5
MAV06PLG02	250 bar	6	G 1/4	2.5	4.5	7.5	37.5	19	14	14.5
MAV08PLG02		8	G 1/4	5.5	4.5	7.5	37.0	19	17	14.5
MAV10PLG02		10	G 1/4	5.5	4.5	8.5	38.5	19	19	14.5
MAV12PLG02		12	G 1/4	5.5	4.5	8.5	38.0	19	22	14.5
MAV06PLG03	250 bar	6	G 3/8	2.5	5.5	9.5	41.5	22	14	16.5
MAV08PLG03		8	G 3/8	5.5	5.5	9.5	41.0	22	17	16.5
MAV10PLG03		10	G 3/8	5.5	5.5	10.5	42.5	22	19	16.5
MAV12PLG03		12	G 3/8	5.5	5.5	10.5	42.0	22	22	16.5
MAV06PSG03	630 bar	6	G 3/8	3.5	5.5	9.5	41.5	22	17	16.5
MAV08PSG03		8	G 3/8	3.5	5.5	9.5	41.0	22	19	16.5
MAV10PSG03		10	G 3/8	7	5.5	9	42.5	22	22	16.5
MAV12PSG03		12	G 3/8	7	5.5	9	42.0	22	24	16.5
MAV06PSG04	630 bar	6	G 1/2	3.5	5.5	11	46.5	27	17	20
MAV08PSG04		8	G 1/2	3.5	5.5	11	46.0	27	19	20
MAV10PSG04		10	G 1/2	7	5.5	10.5	47.5	27	22	20
MAV12PSG04		12	G 1/2	7	5.5	10.5	47.0	27	24	20

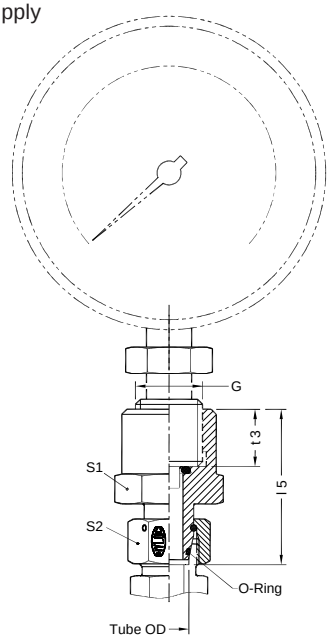
Metric Tube end as per ISO 8434
Gauge is not in scope of supply



DISCONTINUED

Part No.	Series	Tube od	Connection thread G	ød5	h3	l 5	S1	S2	t 3
MAVEV06PLG02	250 bar	6	G 1/4	2.5	4.5	38.0	19	14	14.5
MAVEV08PLG02		8	G 1/4	4.5	4.5	38.0	19	17	14.5
MAVEV10PLG02		10	G 1/4	5.5	4.5	39.5	19	19	14.5
MAVEV12PLG02		12	G 1/4	5.5	4.5	40.5	19	22	14.5
MAVEV06PLG03	250 bar	6	G 3/8	2.5	5.5	38.0	22	14	16.5
MAVEV08PLG03		8	G 3/8	5.5	5.5	38.0	22	17	16.5
MAVEV10PLG03		10	G 3/8	5.5	5.5	39.5	22	19	16.5
MAVEV12PLG03		12	G 3/8	5.5	5.5	40.5	22	22	16.5
MAVEV06PSG03	630 bar	6	G 3/8	2.5	5.5	41.0	22	17	16.5
MAVEV08PSG03		8	G 3/8	5.5	5.5	41.0	22	19	16.5
MAVEV10PSG03		10	G 3/8	5.5	5.5	43.0	22	22	16.5
MAVEV12PSG03		12	G 3/8	5.5	5.5	43.5	22	24	16.5
MAVEV06PSG04	630 bar	6	G 1/2	3.5	5.5	45.0	27	17	20.0
MAVEV08PSG04		8	G 1/2	3.5	5.5	45.0	27	19	20.0
MAVEV10PSG04		10	G 1/2	6.5	5.5	47.0	27	22	20.0
MAVEV12PSG04		12	G 1/2	7.0	5.5	47.5	27	24	20.0

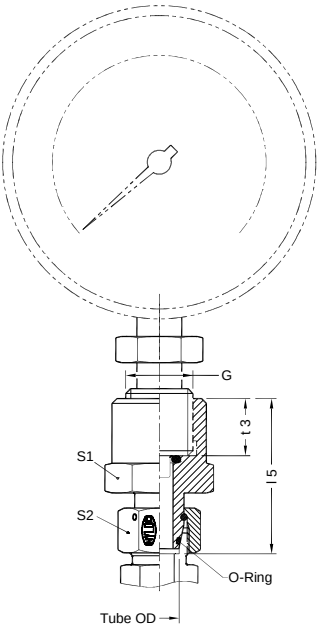
For Metric Tube ends (24º) as per ISO 8434
Gauge is not in scope of supply



Low Pressure Series

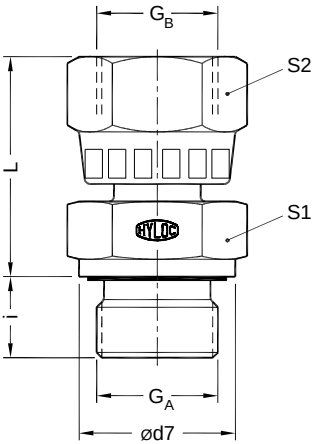
Part No.	Series	Tube od	Connection thread G	t 3	l 5	S1	S2	O-Ring ID x CSD
MAVE06LG02	250 bar	6	G 1/4	10	35.5	19	14	4.0 x 1.5
MAVE08LG02		8	G 1/4	10	35.5	19	17	6.0 x 1.5
MAVE10LG02		10	G 1/4	10	36.0	19	19	7.5 x 1.5
MAVE12LG02		12	G 1/4	10	36.0	19	22	9.0 x 1.5
MAVE06LG03	250 bar	6	G 3/8	13	37.0	24	14	4.0 x 1.5
MAVE08LG03		8	G 3/8	13	37.5	24	17	6.0 x 1.5
MAVE10LG03		10	G 3/8	13	38.5	24	19	7.5 x 1.5
MAVE12LG03		12	G 3/8	13	38.0	24	22	9.0 x 1.5
MAVE06LG04	250 bar	6	G 1/2	16	42.5	27	14	4.0 x 1.5
MAVE08LG04		8	G 1/2	16	43.0	27	17	6.0 x 1.5
MAVE10LG04		10	G 1/2	16	43.5	27	19	7.5 x 1.5
MAVE12LG04		12	G 1/2	16	45.0	27	22	9.0 x 1.5

For Metric Tube ends (24º) as per ISO 8434
Gauge is not in scope of supply



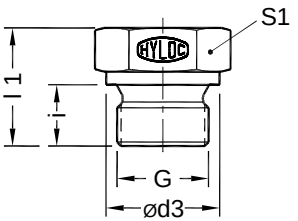
High Pressure Series

Part No.	Series	Tube od	Connection thread G	t 3	l 5	S1	S2	O-Ring ID x CSD
MAVE06SG02	630 bar	6	G 1/4	10	35.5	19	17	4.0 x 1.5
MAVE08SG02		8	G 1/4	10	35.5	19	19	6.0 x 1.5
MAVE10SG02		10	G 1/4	10	39.0	19	22	7.5 x 1.5
MAVE12SG02		12	G 1/4	10	39.0	19	24	9.0 x 1.5
MAVE06SG03	630 bar	6	G 3/8	13	37.0	24	17	4.0 x 1.5
MAVE08SG03		8	G 3/8	13	36.0	24	19	6.0 x 1.5
MAVE10SG03		10	G 3/8	13	37.5	24	22	7.5 x 1.5
MAVE12SG03		12	G 3/8	13	37.0	24	24	9.0 x 1.5
MAVE06SG04	630 bar	6	G 1/2	16	42.5	27	17	4.0 x 1.5
MAVE08SG04		8	G 1/2	16	43.0	27	19	6.0 x 1.5
MAVE10SG04		10	G 1/2	16	43.5	27	22	7.5 x 1.5
MAVE12SG04		12	G 1/2	16	45.0	27	24	9.0 x 1.5



Part No.	Stud end G_A	Gauge end G_B	i	L	Ød7	S1	S2
1GAG02EG02	G 1/4	G 1/4	12	42.0	19	19	19
1GAG02EG03		G 3/8					22
1GAG02EG04		G 1/2					27
1GAG03EG02	G 3/8	G 1/4	12	44.5	22	22	19
1GAG03EG03		G 3/8					22
1GAG03EG04		G 1/2					27
1GAG04EG02	G 1/2	G 1/4	14	52.0	27	27	19
1GAG04EG03		G 3/8					22
1GAG04EG04		G 1/2					27

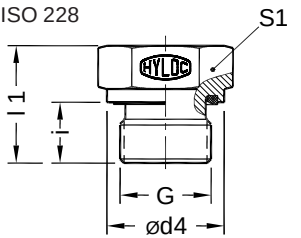
Hex head Plug
Male thread : BSPP (G) - ISO 228



DISCONTINUED

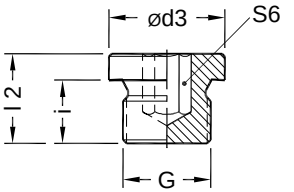
Part No.	G Male thread BSPP	ød3	i	l 1	S1
VSTG01	G 1/8	14	8	14.5	14
VSTG02	G 1/4	18	12	20.0	19
VSTG03	G 3/8	22	12	22.5	22
VSTG04	G 1/2	26	14	24.0	27
VSTG06	G 3/4	32	16	26.0	32
VSTG08	G 1	39	16	27.0	41
VSTG10	G1 1/4	49	16	28.0	50
VSTG12	G1 1/2	55	16	30.0	55

Hex head Plug with Elastomeric seal
Male thread : BSPP (G) - ISO 228



Part No.	G Male thread BSPP	ød4	i	l 1	S1
VSTG01E	G 1/8	14	8	14.5	14
VSTG02E	G 1/4	19	12	20.0	19
VSTG03E	G 3/8	22	12	22.5	22
VSTG04E	G 1/2	27	14	24.0	27
VSTG06E	G 3/4	32	16	26.0	32
VSTG08E	G 1	40	16	27.0	41
VSTG10E	G1 1/4	50	16	28.0	50
VSTG12E	G1 1/2	55	16	30.0	55

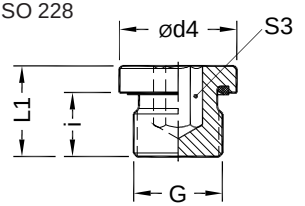
Socket head Plug
Male thread : BSPP (G) - ISO 228



DISCONTINUED

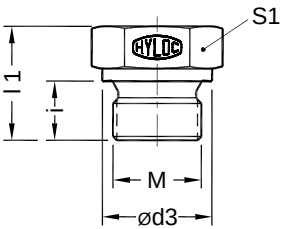
Part No.	G Male thread BSP	ød3	i	l 2	S6
VSTIG01	G 1/8	14	8	11	5
VSTIG02	G 1/4	18	12	15	6
VSTIG03	G 3/8	22	12	15	8
VSTIG04	G 1/2	26	14	18	10
VSTIG06	G 3/4	32	16	20	12
VSTIG08	G 1	39	16	21	17
VSTIG10	G1 1/4	49	16	21	22
VSTIG12	G1 1/2	55	16	21	24

Socket head Plug with Elastomeric Seal
Male thread : BSPP (G) - ISO 228



Part No.	G Male thread BSP	ød4	i	L1	S3
VSTIG01E	G 1/8	14	8	13	5
VSTIG02E	G 1/4	19	12	17	6
VSTIG03E	G 3/8	22	12	17	8
VSTIG04E	G 1/2	27	14	20	10
VSTIG06E	G 3/4	32	16	22	12
VSTIG08E	G 1	40	16	24	17
VSTIG10E	G1 1/4	50	16	24	22
VSTIG12E	G1 1/2	55	16	24	24

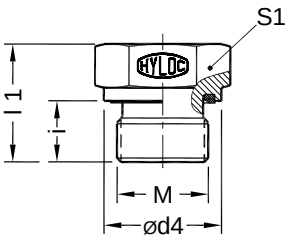
Hex head Plug
Male thread : Metric (M) - ISO 261



DISCONTINUED

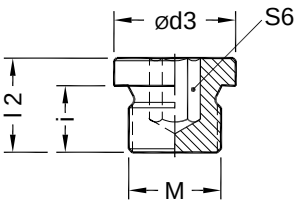
Part No.	Working Pressure (bar)	M Male thread Metric	ød3	i	l 1	S1
VSTM10	630	M10 x 1.0	14	8	16	14
VSTM12	630	M12 x 1.5	17	12	20	17
VSTM14	630	M14 x 1.5	19	12	20	19
VSTM16	630	M16 x 1.5	21	12	22	22
VSTM18	630	M18 x 1.5	23	12	23	24
VSTM20	630	M20 x 1.5	25	14	25	27
VSTM22	400	M22 x 1.5	27	14	26	27
VSTM26	160	M26 x 1.5	31	16	29	32
VSTM27	400	M27 x 2.0	32	16	29	32
VSTM33	400	M33 x 2.0	39	16	34	41
VSTM42	250	M42 x 2.0	49	16	36	50
VSTM48	250	M48 x 2.0	55	16	37	55

Hex head Plug with Elastomeric seal (ISO 9974-4)
Male thread : Metric (M) - ISO 261



Part No.	Working Pressure (bar)	M Male thread Metric	ød4	i	l 1	S1	Tightening Torque N-m
VSTM10E	630	M10 x 1.0	14	8	16	14	20
VSTM12E	630	M12 x 1.5	17	12	20	17	30
VSTM14E	630	M14 x 1.5	19	12	20	19	45
VSTM16E	630	M16 x 1.5	22	12	22	22	60
VSTM18E	630	M18 x 1.5	24	12	23	24	80
VSTM20E	630	M20 x 1.5	26	14	25	27	100
VSTM22E	400	M22 x 1.5	27	14	26	27	80
VSTM26E	160	M26 x 1.5	32	16	29	32	120
VSTM27E	400	M27 x 2.0	32	16	29	32	135
VSTM33E	400	M33 x 2.0	40	16	34	41	225
VSTM42E	250	M42 x 2.0	50	16	36	50	360
VSTM48E	250	M48 x 2.0	55	16	37	55	400

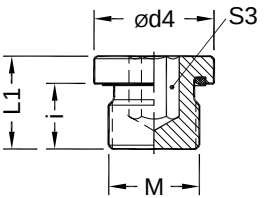
Socket head Plug
Male thread : Metric (M) - ISO 261



DISCONTINUED

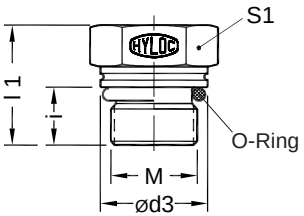
Part No.	Working Pressure (bar)	M Male thread Metric	ød3	i	l 2	S6	Tightening Torque N-m
VSTIM10	400	M10 x 1.0	14	8	12.3	5	12
VSTIM12	400	M12 x 1.5	17	12	17.3	6	25
VSTIM14	400	M14 x 1.5	19	12	17.3	6	35
VSTIM16	400	M16 x 1.5	22	12	17.3	8	50
VSTIM18	400	M18 x 1.5	24	12	17.3	8	60
VSTIM20	400	M20 x 1.5	26	14	19.3	10	70
VSTIM22	400	M22 x 1.5	27	14	19.3	10	80
VSTIM26	160	M26 x 1.5	32	16	21.3	12	120
VSTIM27	400	M27 x 2.0	32	16	21.3	12	135
VSTIM33	400	M33 x 2.0	40	16	22.8	17	225
VSTIM42	250	M42 x 2.0	50	16	22.8	22	360
VSTIM48	250	M48 x 2.0	55	16	22.8	24	400

Socket head Plug with Elastomeric seal (ISO 9974-4)
Male thread : Metric (M) - ISO 261



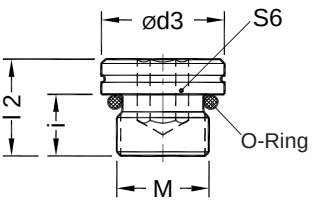
Part No.	Working Pressure (bar)	M Male thread Metric	ød4	i	L1	S3	Tightening Torque N-m
VSTIM10E	400	M10 x 1.0	14	8	12.3	5	12
VSTIM12E	400	M12 x 1.5	17	12	17.3	6	25
VSTIM14E	400	M14 x 1.5	19	12	17.3	6	35
VSTIM16E	400	M16 x 1.5	22	12	17.3	8	50
VSTIM18E	400	M18 x 1.5	24	12	17.3	8	60
VSTIM20E	400	M20 x 1.5	26	14	19.3	10	70
VSTIM22E	400	M22 x 1.5	27	14	19.3	10	80
VSTIM26E	160	M26 x 1.5	32	16	21.3	12	120
VSTIM27E	400	M27 x 2.0	32	16	21.3	12	135
VSTIM33E	400	M33 x 2.0	40	16	22.8	17	225
VSTIM42E	250	M42 x 2.0	50	16	22.8	22	360
VSTIM48E	250	M48 x 2.0	55	16	22.8	24	400

Hex head Plug with O-Ring (ISO 6149-4)
Male thread : Metric (M) - ISO 261



Part No.	Working Pressure (bar)	M Male thread Metric	ød3	i	l 1	S1	O-Ring ID x CSD	Tightening Torque N-m
VSTM10O	630	M10 x 1.0	13.8	9.5	17.0	14	8.1 x 1.6	20
VSTM12O	630	M12 x 1.5	16.8	11.0	18.5	17	9.3 x 2.2	35
VSTM14O	630	M14 x 1.5	18.8	11.0	19.5	19	11.3 x 2.2	45
VSTM16O	630	M16 x 1.5	21.8	12.5	22.0	22	13.3 x 2.2	55
VSTM18O	630	M18 x 1.5	23.8	14.0	24.0	24	15.3 x 2.2	70
VSTM22O	630	M22 x 1.5	26.8	15.0	26.0	27	19.3 x 2.2	100
VSTM27O	400	M27 x 2.0	31.8	18.5	31.5	32	23.6 x 2.9	170
VSTM30O	400	M30 x 2.0	35.8	18.5	33.0	36	26.6 x 2.9	215
VSTM33O	400	M33 x 2.0	40.8	18.5	34.0	41	29.6 x 2.9	310
VSTM42O	250	M42 x 2.0	49.8	19.0	36.5	50	38.6 x 2.9	330
VSTM48O	250	M48 x 2.0	54.8	21.5	40.0	55	44.6 x 2.9	420
VSTM60O	250	M60 x 2.0	64.8	24.0	44.5	65	56.6 x 2.9	500

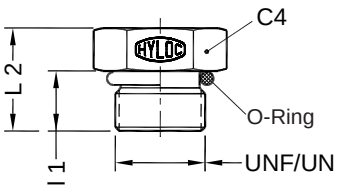
Socket head Plug with O-Ring (ISO 6149-4)
Male thread : Metric (M) - ISO 261



Part No.	Working Pressure (bar)	M Male thread Metric	ød3	i	l 2	S6	O-Ring ID x CSD	Tightening Torque N-m
VSTIM10O	420	M10 x 1.0	13.8	9.5	13.5	5	8.1 x 1.6	15
VSTIM12O	420	M12 x 1.5	16.8	11.0	15.5	6	9.3 x 2.2	22
VSTIM14O	630	M14 x 1.5	18.8	11.0	16.0	6	11.3 x 2.2	45
VSTIM16O	630	M16 x 1.5	21.8	12.5	17.5	8	13.3 x 2.2	55
VSTIM18O	630	M18 x 1.5	23.8	14.0	19.0	8	15.3 x 2.2	70
VSTIM22O	630	M22 x 1.5	26.8	15.0	20.0	10	19.3 x 2.2	100
VSTIM26O	✻ 400	M26 x 1.5	31.0	16.0	21.0	12	23.0 x 2.4	---
VSTIM27O	400	M27 x 2.0	31.8	18.5	23.5	12	23.6 x 2.9	170
VSTIM30O	400	M30 x 2.0	35.8	18.5	24.5	14	26.6 x 2.9	215
VSTIM33O	400	M33 x 2.0	40.8	18.5	24.5	14	29.6 x 2.9	310
VSTIM42O	250	M42 x 2.0	49.8	19.0	25.0	17	38.6 x 2.9	330
VSTIM48O	250	M48 x 2.0	54.8	21.5	27.5	17	44.6 x 2.9	420
VSTIM60O	250	M60 x 2.0	64.8	24.0	30.0	19	56.6 x 2.9	500

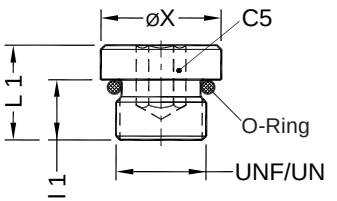
✻ Not included in ISO 6149-4 standard

Hex head Plug with O-Ring
Male thread : SAE (UNF/UN) - ISO 263



Part No.	Male thread UNF/UN	l 1	L2	C4	O - Ring ID x CSD
VSTS02	5/16" -24	7.54	15.2	12	6.07 x 1.63
VSTS03	3/8" -24	7.54	15.2	12	7.65 x 1.63
VSTS04	7/16" -20	9.14	17.0	14	8.92 x 1.83
VSTS05	1/2" -20	9.14	17.0	17	10.52 x 1.83
VSTS06	9/16" -18	9.93	18.5	17	11.89 x 1.98
VSTS08	3/4" -16	11.13	20.3	22	16.36 x 2.21
VSTS10	7/8" -14	12.7	23.6	27	19.18 x 2.46
VSTS12	1.1/16" -12	15.09	27.7	32	23.47 x 2.95
VSTS14	1.3/16" -12	15.09	27.7	36	26.62 x 2.95
VSTS16	1.5/16" -12	15.09	28.4	41	29.74 x 2.95
VSTS20	1.5/8" -12	15.09	30.5	46	37.47 x 3.00
VSTS24	1.7/8" -12	15.09	32.3	55	43.69 x 3.00
VSTS32	2.1/2" -12	15.09	36.3	70	59.36 x 3.00

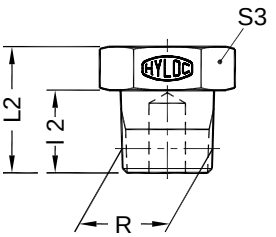
Socket head Plug with O-Ring (SAE 090109B)
Male thread : SAE (UNF/UN) - (Thread as per ISO 263)



Part No.	Male thread UNF/UN	øX	l 1	L1	C5	O - Ring ID x CSD
VSTIS02	5/16" -24	11.13	7.54	10.2	3.0	6.07 x 1.63
VSTIS03	3/8" -24	12.70	7.54	10.2	3.0	7.65 x 1.63
VSTIS04	7/16" -20	14.30	9.14	11.9	5.0	8.92 x 1.83
VSTIS05	1/2" -20	15.88	9.14	11.9	5.0	10.52 x 1.83
VSTIS06	9/16" -18	17.48	9.93	12.7	6.0	11.89 x 1.98
VSTIS08	3/4" -16	22.00	11.13	14.7	8.0	16.36 x 2.21
VSTIS10	7/8" -14	25.40	12.7	16.5	10.0	19.18 x 2.46
VSTIS12	1.1/16" -12	31.75	15.09	19.5	14.0	23.47 x 2.95
VSTIS14	1.3/16" -12	34.92	15.09	19.5	14.0	26.62 x 2.95
VSTIS16	1.5/16" -12	38.10	15.09	19.5	17.0	29.74 x 2.95
VSTIS20	1.5/8" -12	47.62	15.09	19.5	19.0	37.47 x 3.00
VSTIS24	1.7/8" -12	53.98	15.09	19.5	19.0	43.69 x 3.00
VSTIS32	2.1/2" -12	69.85	15.09	19.5	19.0	59.36 x 3.00

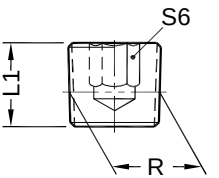
Note : Socket, 'C5' dimensions specified are with Metric sizes

Hex head Plug
Male thread : BSP Taper (R)



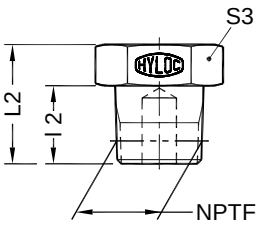
Part No.	R - Male thread BSPT	l 2	L2	S3
VSTR01	R 1/8" -27	7.5	11.5	12
VSTR02	R 1/4" -18	11.0	17.0	14
VSTR03	R 3/8" -18	11.5	17.5	19
VSTR04	R 1/2" -14	15.0	25.0	22
VSTR06	R 3/4" -14	16.5	26.5	30
VSTR08	R 1" -11 1/2	19.0	31.0	36
VSTR10	R 1 1/4" -11 1/2	21.5	35.0	46
VSTR12	R 1 1/2" -11 1/2	21.5	35.0	50

Socket head Plug
Male thread : BSP Taper (R)



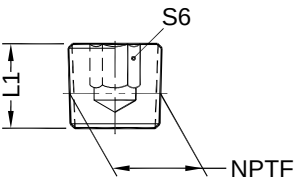
Part No.	R - Male thread BSPT	L1	S6
VSTIR01	R 1/8" -27	8.0	5
VSTIR02	R 1/4" -18	10.0	7
VSTIR03	R 3/8" -18	10.0	8
VSTIR04	R 1/2" -14	10.0	10
VSTIR06	R 3/4" -14	12.0	12
VSTIR08	R 1" -11 1/2	12.0	17
VSTIR10	R 1 1/4" -11 1/2	18.0	22
VSTIR12	R 1 1/2" -11 1/2	20.0	24

Hex head Plug
Male thread : NPTF (SAE J476)



Part No.	Male thread NPTF	l 2	L2	S3
VSTN01	1/8” -27	9.7	14.5	12
VSTN02	1/4” -18	14.2	19.0	17
VSTN03	3/8” -18	14.2	19.5	19
VSTN04	1/2” -14	19.05	24.0	24
VSTN06	3/4” -14	19.05	27.0	30
VSTN08	1.0” -11 1/2	23.9	32.0	36
VSTN10	1 1/4” -11 1/2	24.6	32.5	46
VSTN12	1 1/2” -11 1/2	25.4	35.0	50
VSTN16	2.0” -11 1/2	26.2	38.0	65

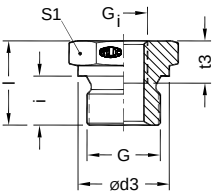
Socket head Plug
Male thread : NPTF (SAE J476)

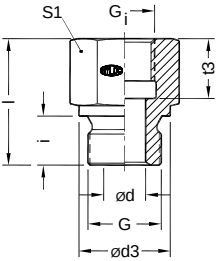


Part No.	Male thread NPTF	L1	S6
VSTIN00	1/16” -27	7.8	4
VSTIN01	1/8” -27	7.8	5
VSTIN02	1/4” -18	12.0	6
VSTIN03	3/8” -18	12.0	8
VSTIN04	1/2” -14	16.0	10
VSTIN06	3/4” -14	16.2	14
VSTIN08	1.0” -11 1/2	20.0	14
VSTIN10	1 1/4” -11 1/2	20.0	25.4
VSTIN12	1 1/2” -11 1/2	20.0	30
VSTIN16	2.0” -11 1/2	21.0	30

Dimensions in mm DIN Fittings

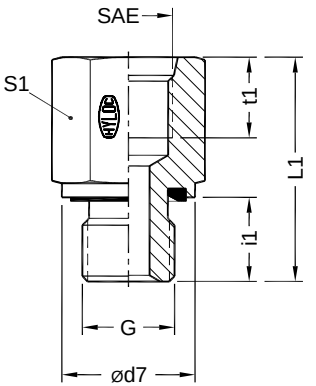
Male thread : BSPP (G) - ISO 228
Female thread : BSPP (G)





Part No.	Pressure	Male Thread G	Female Thread G i	l	i	S1	Ød	Ød3	t 3
MFAG01G02	630 bar	G 1 / 8 A	G 1 / 4	31	8	19	4	14	17.0
MFAG01G03	630 bar	G 1 / 8 A	G 3 / 8	32	8	24	4	14	17.0
MFAG02G01	630 bar	G 1 / 4 A	G 1 / 8	28	12	19	5	18	12.0
MFAG02G03	630 bar	G 1 / 4 A	G 3 / 8	36	12	24	5	18	17.0
MFAG02G04	630 bar	G 1 / 4 A	G 1 / 2	40	12	30	5	18	20.0
MFAG02G06	630 bar	G 1 / 4 A	G 3 / 4	43	12	36	5	18	22.0
MFAG03G01	630 bar	G 3 / 8 A	G 1 / 8	22.5	12	22	--	22	8.0
MFAG03G02	630 bar	G 3 / 8 A	G 1 / 4	36	12	22	8	22	17.0
MFAG03G04	630 bar	G 3 / 8 A	G 1 / 2	41	12	30	8	22	20.0
MFAG03G06	400 bar	G 3 / 8 A	G 3 / 4	44	12	36	8	22	22.0
MFAG04G02	630 bar	G 1 / 2 A	G 1 / 4	24	14	27	--	26	12.0
MFAG04G03	630 bar	G 1 / 2 A	G 3 / 8	36	14	27	12	26	17.0
MFAG04G06	400 bar	G 1 / 2 A	G 3 / 4	46	14	36	12	26	22.0
MFAG04G08	400 bar	G 1 / 2 A	G 1	49	14	41	12	26	24.5
MFAG04G10	250 bar	G 1 / 2 A	G1.1 / 4	53	14	55	10	26	26.5
MFAG06G02	400 bar	G 3 / 4 A	G 1 / 4	26.0	16	32	--	32	12.0
MFAG06G03	400 bar	G 3 / 4 A	G 3 / 8	26.0	16	32	--	32	12.0
MFAG06G04	400 bar	G 3 / 4 A	G 1 / 2	41	16	32	16	32	20.0
MFAG06G08	400 bar	G 3 / 4 A	G 1	51	16	41	16	32	24.5
MFAG06G10	250 bar	G 3 / 4 A	G1 1/4	55	16	55	16	32	26.5
MFAG06G12	250 bar	G 3 / 4 A	G1 1/2	57	16	60	16	32	28.5
MFAG08G02	400 bar	G 1 A	G 1 / 4	29.0	18	41	--	39	12.0
MFAG08G03	400 bar	G 1 A	G 3 / 8	29.0	18	41	--	39	12.0
MFAG08G04	400 bar	G 1 A	G 1 / 2	29.0	18	41	--	39	14.0
MFAG08G06	400 bar	G 1 A	G 3 / 4	47	18	41	20	39	22.0
MFAG08G10	250 bar	G 1 A	G1.1/4	57	18	55	20	39	26.5
MFAG08G12	250 bar	G 1 A	G1.1/2	59	18	60	20	39	28.5
MFAG10G04	250 bar	G1.1/4 A	G 1 / 2	32.0	20	50	--	49	14.0
MFAG10G06	250 bar	G1.1/4 A	G 3 / 4	32.0	20	50	--	49	16.0
MFAG10G08	250 bar	G1.1 / 4 A	G 1	52	20	50	25	49	24.5
MFAG10G12	250 bar	G1.1 / 4 A	G1 1/2	60	20	60	25	49	28.5
MFAG12G04	250 bar	G1.1/2 A	G 1 / 2	36.0	22	55	--	55	14.0
MFAG12G06	250 bar	G1.1/2 A	G 3 / 4	36.0	22	55	--	55	16.0
MFAG12G08	250 bar	G1.1/2 A	G 1	36.0	22	55	--	55	18.0
MFAG12G10	250 bar	G1 1 / 2	G1 1/4	58	22	55	32	55	26.5

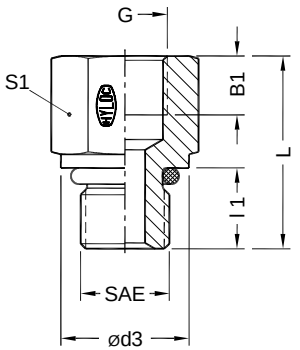
Male thread : BSPP (G) - ISO 228
DIN 3852-Part 11, with Elastomeric seal
Female thread : UN/UNF (SAE)



Part No.	Male thread 'G'	Female SAE Class 2B	ød7	i 1	t 1	L1	S1
MFAG01S02	G 1/8 A	5/16” - 24	14	8	10.0	24	14
MFAG01S03	G 1/8 A	3/8” - 24	14	8	10.0	24	17
MFAG02S04	G 1/4 A	7/16” - 20	19	12	11.5	30	19
MFAG02S05	G 1/4 A	1/2” - 20	19	12	11.5	32	19
MFAG02S06	G 1/4 A	9/16” - 18	19	12	13.0	34	22
MFAG03S08	G 3/8 A	3/4” - 16	22	12	14.0	36	27
MFAG04S10	G 1/2 A	7/8” - 14	27	14	16.5	42	30
MFAG06S12	G 3/4 A	1.1/16” - 12	32	16	19.0	45	36
MFAG08S14	G 1 A	1.3/16” - 12	40	18	19.0	50	41
MFAG08S16	G 1 A	1.5/16” - 12	40	18	19.0	50	41
MFAG10S20	G1.1/4 A	1.5/8” - 12	50	20	19.0	53	55
MFAG12S24	G1.1/2 A	1.7/8” - 12	55	22	19.0	55	60
MFAG16S32	✻G 2 A	2.1/2” - 12	75	24	19.0	62	75

✻ Thread size - G2 is not included in DIN 3852 Part 11

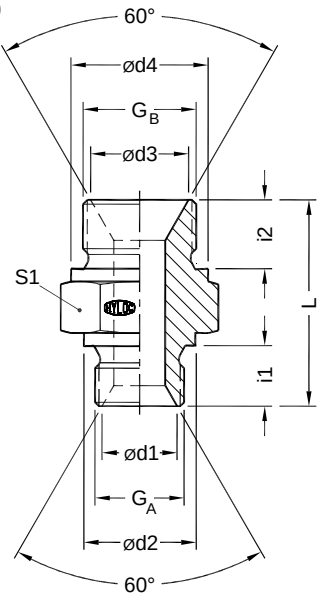
Male thread : UN/UNF (SAE)
with O-Ring sealing (NBR 90 Shore)
Female thread : BSPP (G)



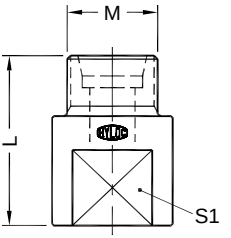
Part No.	Male SAE Class 2A	Female thread 'G'	ød3	l 1	B1	L	S1	O - Ring
MFAS02G01	5/16" - 24	G 1/8	11.0	7.5	9	24	17	6.07 x 1.63
MFAS03G01	3/8" - 24	G 1/8	13.0	7.5	9	24	17	7.65 x 1.63
MFAS04G02	7/16" - 20	G 1/4	14.5	9	13	32	22	8.92 x 1.83
MFAS05G02	1/2" - 20	G 1/4	16.0	9	13	32	22	10.52 x 1.83
MFAS06G02	9/16" - 18	G 1/4	17.5	10	13	34	22	11.89 x 1.98
MFAS08G03	3/4" - 16	G 3/8	22.0	11	13	34	27	16.36 x 2.21
MFAS10G04	7/8" - 14	G 1/2	25.5	13	15	40	30	19.18 x 2.46
MFAS12G06	1.1/16" - 12	G 3/4	32.0	15	17	45	36	23.47 x 2.95
MFAS14G08	1.3/16" - 12	G 1	35.0	15	19	50	46	26.62 x 2.95
MFAS16G08	1.5/16" - 12	G 1	38.0	15	19	50	46	29.74 x 2.95
MFAS20G10	1.5/8" - 12	G1.1/4	48.0	15	21	55	55	37.47 x 3.00
MFAS24G12	1.7/8" - 12	G1.1/2	54.0	15	23	55	60	43.69 x 3.00
MFAS32G16	2.1/2" - 12	G 2	70.0	15	25	60	75	59.36 x 3.00

Hose adaptors as per BS 5200

Male threads -----
BSPP (G) as per - ISO 228

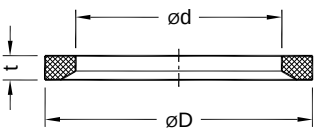


Part No.	G_A	G_B	ød1	ød2	ød3	ød4	i 1	i 2	L	S1
HAG01G01	G1/8	G1/8	7.5	14	7.5	14	8	8	26.0	14
HAG01G02	G1/8	G1/4	7.5	14	10.4	18	8	11	29.5	19
HAG02G02	G 1/4	G 1/4	10.4	18	10.4	18	11	11	33.0	19
HAG02G03	G 1/4	G 3/8	10.4	18	14.0	22	11	12	36.5	22
HAG02G04	G 1/4	G 1/2	10.4	18	17.5	26	11	14	39.0	27
HAG03G03	G 3/8	G 3/8	14.0	22	14.0	22	12	12	38.0	22
HAG03G04	G 3/8	G 1/2	14.0	22	17.5	26	12	14	40.5	27
HAG03G06	G 3/8	G 3/4	14.0	22	22.9	32	12	16	44.5	32
HAG04G04	G 1/2	G 1/2	17.5	26	17.5	26	14	14	43.0	27
HAG04G06	G 1/2	G 3/4	17.5	26	22.9	32	14	16	47.0	32
HAG04G08	G 1/2	G 1	17.5	26	28.7	39	14	19	50.0	41
HAG06G06	G 3/4	G 3/4	22.9	32	22.9	32	16	16	49.0	32
HAG06G08	G 3/4	G 1	22.9	32	28.7	39	16	19	52.0	41
HAG06G10	G 3/4	G 1,1/4	22.9	32	36.8	49	16	20	57.0	50
HAG08G08	G 1	G 1	28.7	39	28.7	39	19	19	55.0	41
HAG08G10	G 1	G 1,1/4	28.7	39	36.8	49	19	20	60.0	50
HAG08G12	G 1	G 1,1/2	28.7	39	42.7	55	19	22	63.0	55
HAG10G10	G 1,1/4	G 1,1/4	36.8	49	36.8	49	20	20	61.0	50
HAG10G12	G 1,1/4	G 1,1/2	36.8	49	42.7	55	20	22	64.0	55
HAG12G12	G 1,1/2	G 1,1/2	42.7	55	42.7	55	22	22	66.0	55



Part No.	Tube od	M	L	S1
PST06L	6	M12 x 1.5	45	24
PST08L	8	M14 x 1.5	45	24
PST10L	10	M16 x 1.5	45	24
PST12L	12	M18 x 1.5	45	24
PST15L	15	M22 x 1.5	45	24
PST18L	18	M26 x 1.5	45	24
PST22L	22	M30 x 2.0	60	50
PST28L	28	M36 x 2.0	60	50
PST35L	35	M45 x 2.0	60	50
PST42L	42	M52 x 2.0	60	50
PST06S	6	M14 x 1.5	45	24
PST08S	8	M16 x 1.5	45	24
PST10S	10	M18 x 1.5	45	24
PST12S	12	M20 x 1.5	45	24
PST16S	16	M24 x 1.5	45	24
PST20S	20	M30 x 2.0	60	50
PST25S	25	M36 x 2.0	60	50
PST30S	30	M42 x 2.0	60	50
PST38S	38	M52 x 2.0	60	50

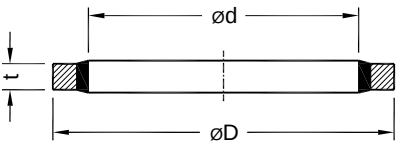
Elastomeric Seals (DIN 3869)
Soft sealing for Male stud ends



Part No.	For Male Metric (M) thread	For Male BSPP (G) threads	ød	øD	t
ED10	M10 x 1.0	G 1/8	8.4	11.9	1.0
ED12	M12 x 1.5	---	9.8	14.4	1.5
ED14	M14 x 1.5	G 1/4	11.6	16.5	1.5
ED16	M16 x 1.5	---	13.8	18.9	1.5
ED17	---	G 3/8	14.7	18.9	1.5
ED18	M18 x 1.5	---	15.7	20.9	1.5
ED20	M20 x 1.5	---	17.8	22.9	1.5
ED21	---	G 1/2	18.5	23.9	1.5
ED22	M22 x 1.5		19.6	24.3	1.5
ED27	M26 x 1.5 M27 x 2.0	G 3/4	23.9	29.2	1.5
ED33	M33 x 2.0	G 1	29.7	35.7	2.0
ED42	M42 x 2.0	G1 1/4	38.8	45.8	2.0
ED48	M48 x 2.0	G1 1/2	44.7	50.7	2.0

Material : NBR with 85 ± 5 IRHD
FPM with 80 ± 5 IRHD

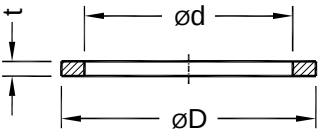
Bonded Seals
For BSPP (G) Male stud ends



DISCONTINUED

Part No.	For male thread BSP	Ød	ØD	t min
BSG01	G 1/8	10.37	15.88	1.80
BSG02	G 1/4	13.74	20.57	1.80
BSG03	G 3/8	17.28	23.80	1.80
BSG04	G 1/2	21.54	28.58	2.30
BSG06	G 3/4	27.05	34.93	2.30
BSG08	G 1	33.89	42.80	2.85
BSG10	G1 1/4	42.93	52.38	2.85
BSG12	G1 1/2	48.44	58.60	2.85
BSG16	G2	60.58	73.03	2.85

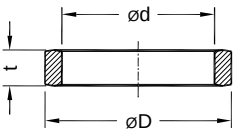
Copper Washer
For BSPP (G) Male stud ends



DISCONTINUED

Part No.	For male thread BSP	Ød	ØD	t
CWG01	G 1/8	10.20	13.90	1.00
CWG02	G 1/4	14.20	17.90	1.50
CWG03	G 3/8	17.20	20.90	1.50
CWG04	G 1/2	21.20	25.90	1.50
CWG06	G 3/4	27.30	31.90	2.00
CWG08	G 1	33.30	38.90	2.00
CWG10	G1 1/4	42.30	48.90	2.00
CWG12	G1 1/2	48.30	54.90	2.00
CWG16	G2	60.50	67.80	2.50

Sealing Rings (Metallic)
For Throttle free Banjo Couplings

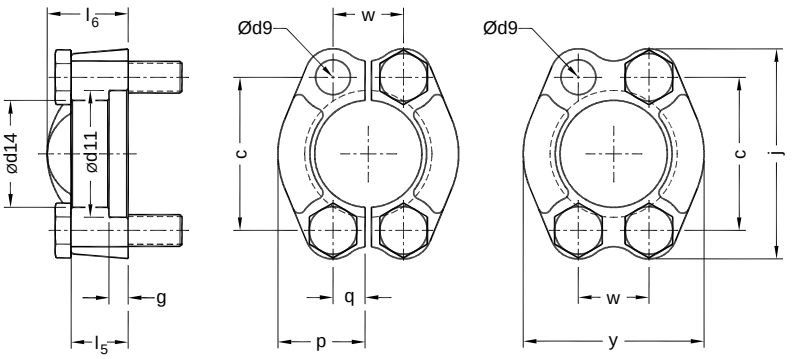


DISCONTINUED

Part No.	For male thread BSP	Ød	ØD	t
DKAG01	G 1/8	10.0	14	4
DKAG02	G 1/4	13.4	18	4
DKAG03	G 3/8	16.9	22	5
DKAG04	G 1/2	21.3	26	5
DKAG06	G 3/4	26.8	32	5
DKAG08	G 1	33.6	39	6
DKAG10	G1 1/4	42.3	49	7
DKAG12	G1 1/2	48.2	55	7

Dimensions in mm

Mounting Interface conforms to ISO 6162



Split Flanges
Part No : **SFS**

Monoblock Flanges
Part No : **MFS**

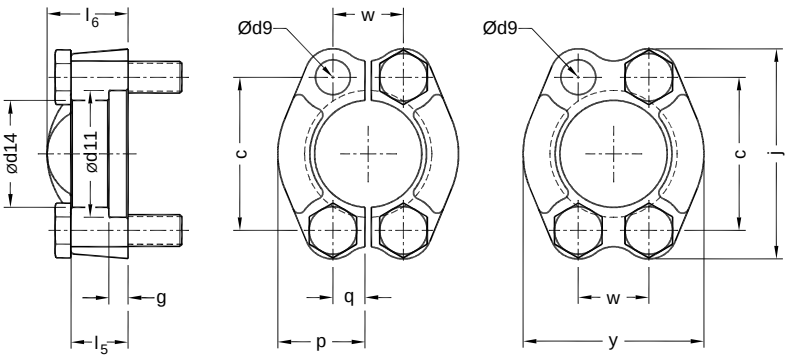
Standard Pressure Series (Code 61)

Split flanges	Monoblock flanges	Size	Ød11	Ød14	g	l_5	l_6	c	p	q	j	w	y
SFS 04	**MFS 04**	1/2	31.0	24.3	6.2	13	19	38.1	21.8	8	54	17.5	46
SFS 06	**MFS 06**	3/4	38.9	32.2	6.2	14	22	47.6	24.9	10	65	22.3	52
SFS 08	**MFS 08**	1	45.3	38.5	7.5	16	22	52.4	28.2	12	70	26.2	59
SFS 10	**MFS 10**	1 1/4	51.6	43.7	7.5	14	24	58.7	35.3	14	79	30.2	73
SFS 12	**MFS 12**	1 1/2	61.1	50.8	7.5	16	25	69.9	40.1	17	94	35.7	83
SFS 16	**MFS 16**	2	72.3	62.8	9.0	16	26	77.8	47.2	21	102	42.9	97
SFS 20	**MFS 20**	2 1/2	84.9	74.9	9.0	19	38	88.9	53.1	24	115	50.8	109
SFS 24	**MFS 24**	3	102.4	90.9	9.0	22	41	106.4	64.3	30	135	61.9	131
SFS 28	**MFS 28**	3 1/2	115.1	102.4	10.7	22	28	120.7	68.6	34	152	69.9	140
SFS 32	**MFS 32**	4	127.8	115.0	10.7	25	35	130.2	74.9	38	162	77.8	152
SFS 40	**MFS 40**	5	153.2	140.5	10.7	28	41	152.4	89.4	45	184	92.1	181

Split flanges	Monoblock flanges	Size	Pr (bar)	Ød9 for Metric	Ød9 for UNC	Metric bolt	Torque (N-m)	UNC (INCH) bolt	Torque (N-m)
SFS 04	**MFS 04**	1/2	350	9.0	8.7	M8 x 25	25	5/16"-18 x 32	25
SFS 06	**MFS 06**	3/4	350	11.0	10.3	M10 x 30	53	3/8" - 16 x 32	45
SFS 08	**MFS 08**	1	350	11.0	10.3	M10 x 30	53	3/8" - 16 x 32	45
SFS 10	**MFS 10**	1 1/4	250	11.0	11.9	M10 x 30	53	7/16" - 14 x 38	73
SFS 12	**MFS 12**	1 1/2	200	13.5	13.5	M12 x 35	95	1/2" - 13 x 38	110
SFS 16	**MFS 16**	2	200	13.5	13.5	M12 x 35	95	1/2" - 13 x 38	110
SFS 20	**MFS 20**	2 1/2	160	13.5	13.5	M12 x 40	95	1/2" - 13 x 44	110
SFS 24	**MFS 24**	3	100	17.5	16.6	M16 x 50	220	5/8" - 11 x 44	220
SFS 28	**MFS 28**	3 1/2	25	17.5	16.6	M16 x 50	220	5/8" - 11 x 51	220
SFS 32	**MFS 32**	4	25	17.5	16.6	M16 x 50	220	5/8" - 11 x 51	220
SFS 40	**MFS 40**	5	25	17.5	16.6	M16 x 55	220	5/8" - 11 x 57	220

Dimensions in mm

Mounting Interface conforms to ISO 6162



Split Flanges
Part No : **SFH**

Monoblock Flanges
Part No : **MFH**

High Pressure Series (Code 62)

Split flanges	Monoblock flanges	Size	Ød11	Ød14	g	l_5	l_6	c	p	q	j	w	y
SFH 04	**MFH 04**	1/2	32.5	24.6	7.2	16	22	40.5	22.6	8	56	18.2	48
SFH 06	**MFH 06**	3/4	42.0	32.5	8.2	19	28	50.8	29	11	71	23.8	60
SFH 08	**MFH 08**	1	48.4	38.8	9.0	24	33	57.2	33.8	13	81	27.8	70
SFH 10	**MFH 10**	1 1/4	54.8	44.5	9.8	27	38	66.6	37.6	15	95	31.8	78
SFH 12	**MFH 12**	1 1/2	64.3	51.6	12.0	30	43	79.3	46.5	17	113	36.5	95
SFH 16	**MFH 16**	2	80.2	67.6	12.0	37	52	96.8	55.9	21	133	44.5	114

Split flanges	Monoblock flanges	Size	Pr (bar)	Ød9 for Metric	Ød9 for UNC	Metric bolt	Torque (N-m)	UNC (INCH) bolt	Torque (N-m)
SFH 04	**MFH 04**	1/2	400	9.0	8.7	M8 x 30	25	5/16" - 18 x 32	25
SFH 06	**MFH 06**	3/4	400	11.0	10.3	M10 x 35	53	3/8" - 16 x 38	45
SFH 08	**MFH 08**	1	400	13.5	11.9	M12 x 45	95	7/16" - 14 x 44	73
SFH 10	**MFH 10**	1 1/4	400	13.5	13.5	M12 x 45	95	1/2" - 13 x 44	110
SFH 12	**MFH 12**	1 1/2	400	17.5	16.6	M16 x 55	220	5/8" - 11 x 57	220
SFH 16	**MFH 16**	2	400	22.0	19.8	M20 x 70	390	3/4" - 10 x 70	390

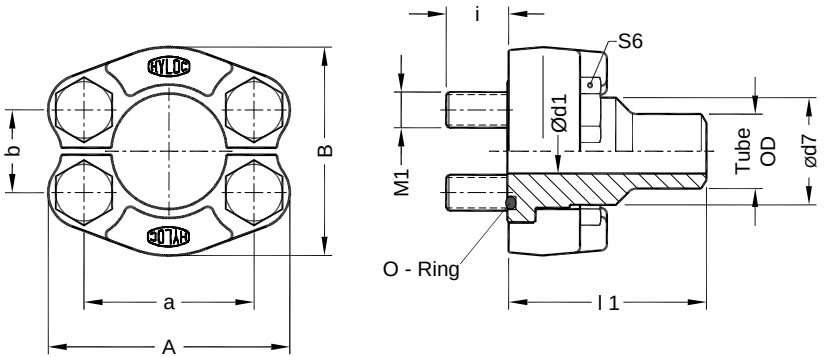
Note : While ordering the flanges with mounting hardwares, add suffix, **BKM / BKU** to the flange part numbers.

e.g : **SFS 04 - BKM** for Metric bolts
SFS 04 - BKU for UNC (Inch) bolts

Metric bolts of property class 8.8 or 10.9
UNC (Inch) bolts of Minimum tensile strength of 827 N/mm^2

Dimensions in mm

For Welded tube construction
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore

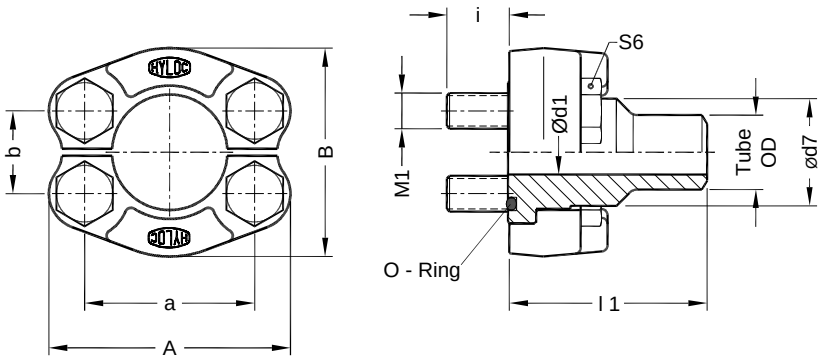


Standard Pressure Series (Code 61)

Part No.	Nom size	PB (bar)	Tube od x wall th.	A	a	B	b	i	Ød1	Ød7	l 1	Split Flange	O - Ring ID x CSD	Hex. bolts (10.9)
AS3215PL	1/2	323	15 x 2.0	54	38.1	46	17.5	12	11	23.9	38	**SFS04**	19.0 x 3.55	M8 x 25
AS3216PS		350	16 x 3.0						10					
AS3318PL	3/4	210	18 x 1.5	65	47.6	52	22.3	16	15	31.8	50	**SFS06**	25.0 x 3.55	M10 x 30
AS3322PL		228	22 x 2.0						18					
AS3320PS		350	20 x 3.0						14					
AS3325PS		350	25 x 4.0						17					
AS3428PL	1	182	28 x 2.0	70	52.4	59	26.2	14	24	38.0	50	**SFS08**	32.5 x 3.55	M10 x 30
AS3430PS		350	30 x 4.5						21					
AS3535PL	1 1/4	147	35 x 2.0	79	58.7	73	30.2	16	31	43.0	55	**SFS10**	37.5 x 3.55	M10 x 30
AS3525PS		280	25 x 3.0						19					
AS3530PS		280	30 x 4.0						22					
AS3538PS		280	38 x 5.0						28					
AS3642PL	1 1/2	182	42 x 3.0	94	69.9	83	35.7	19	36	50.0	57	**SFS12**	47.5 x 3.55	M12 x 35
AS3638PS		210	38 x 4.0						30					
AS3850PS	2	210	50 x 6.0	102	77.8	97	42.9	19	38	62.0	62	**SFS16**	56.0 x 3.55	M12 x 35
AS3865PS		210	65 x 8.0						49	65.0	62			

Dimensions in mm

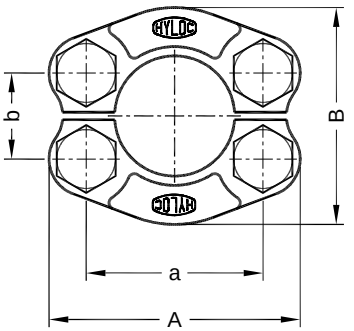
For Welded tube construction
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore

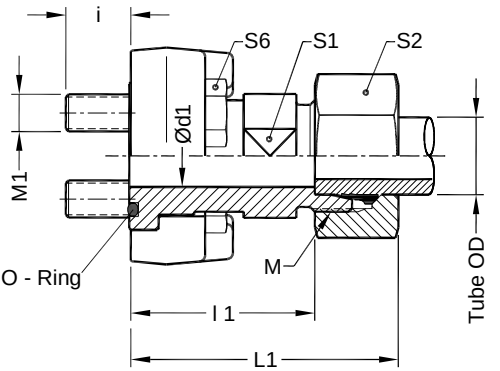


High Pressure Series (Code 62)

Part No.	Nom size	PB (bar)	Tube od x wall th.	A	a	B	b	i	Ød1	Ød7	l 1	Split Flange	O - Ring ID x CSD	Hex. bolts (10.9)
AS6216PS	1/2	415	16 x 3.0	56	40.5	48	18.2	14	10	23.9	41	**SFH04**	19.0 x 3.55	M8 x 30
AS6316PS	3/4	415	16 x 3.0	71	50.8	60	23.8	16	10	31.8	55	**SFH06**	25.0 x 3.55	M10 x 35
AS6320PS		415	20 x 4.0						12					
AS6325PS		415	25 x 5.0						15					
AS6425PS	1	415	25 x 5.0	81	57.2	70	27.8	21	15	38.0	67	**SFH08**	32.5 x 3.55	M12 x 45
AS6430PS		323	30 x 4.0						22					
AS6430PS		415	30 x 6.0						18					
AS6530PS	1 1/4	323	30 x 4.0	95	66.6	78	31.8	18	22	43.7	78	**SFH10**	37.5 x 3.55	M12 x 45
AS6530PS		415	30 x 6.0						18					
AS6538PS		319	38 x 5.0						28					
AS6538PS		415	38 x 8.0						22					
AS6638PS	1 1/2	319	38 x 5.0	113	79.3	95	36.5	25	28	50.8	85	**SFH12**	47.5 x 3.55	M16 x 55
AS6638PS		415	38 x 8.0						22					
AS6850PS	2	415	50 x 9.0	133	96.8	114	44.5	33	32	66.6	116	**SFH16**	56.0 x 3.55	M20 x 70
AS6865PS		300	65 x 8.0						49					

Tube connections as per ISO 8434
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore





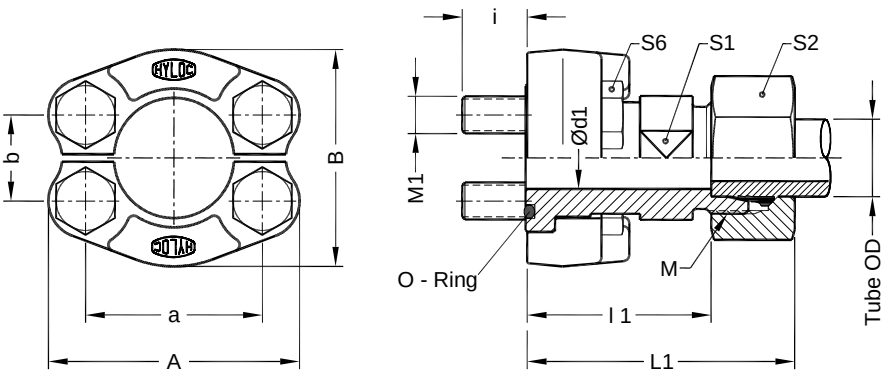
Standard Pressure Series (Code 61)

Part No.	Nom size	Tube o.d.	A	a	B	b	M	S6	i	Split Flange	O - Ring ID x CSD	M1 Hex. bolts (10.9)
GFS3215PL	1/2	15	54	38.1	46	17.5	M22x1.5	13	12	SFS04	19.0 x 3.55	M8 x 25
GFS3216PS		16					M24x1.5					
GFS3318PL	3/4	18	65	47.6	52	22.3	M26x1.5	17	16	SFS06	25.0 x 3.55	M10 x 30
GFS3322PL		22					M30x2.0					
GFS3320PS		20					M30x2.0					
GFS3325PS		25					M36x2.0					
GFS3428PL	1	28	70	52.4	59	26.2	M36x2.0	17	14	SFS08	32.5 x 3.55	M10 x 30
GFS3430PS		30					M42x2.0					
GFS3535PL	1 1/4	35	79	58.7	73	30.2	M45x2.0	17	16	SFS10	37.5 x 3.55	M10 x 30
GFS3525PS		25					M36x2.0					
GFS3530PS		30					M42x2.0					
GFS3538PS		38					M52x2.0					
GFS3642PL	1 1/2	42	94	69.9	83	35.7	M52x2.0	19	19	SFS12	47.5 x 3.55	M12 x 35
GFS3638PS		38					M52x2.0					

Part No.	Nom size	Tube o.d.	PB bar	Ø d1	l 1	L 1 *	S1	S2
GFS3215PL	1/2	15	315	12	41.0	57.0	24	27
GFS3216PS		16	350	12	41.5	60.5	24	30
GFS3318PL	3/4	18	315	15	45.5	62.5	30	32
GFS3322PL		22	160	19	45.5	62.5	30	36
GFS3320PS		20	350	16	46.5	69.0	30	36
GFS3325PS		25	350	17	45.0	70.0	30	46
GFS3428PL	1	28	160	24	46.5	64.5	36	41
GFS3430PS		30	350	24	49.5	77.5	36	50
GFS3535PL	1 1/4	35	160	30	47.5	70.5	41	50
GFS3525PS		25	280	20	48.0	73.0	41	46
GFS3530PS		30	280	25	48.5	76.5	41	50
GFS3538PS		38	280	28	50.0	81.5	46	60
GFS3642PL	1 1/2	42	160	36	53.0	76.5	46	60
GFS3638PS		38	210	32	54.0	85.5	46	60

* Dimensions given are approx figures with tightened nut.

Tube connections as per ISO 8434
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore



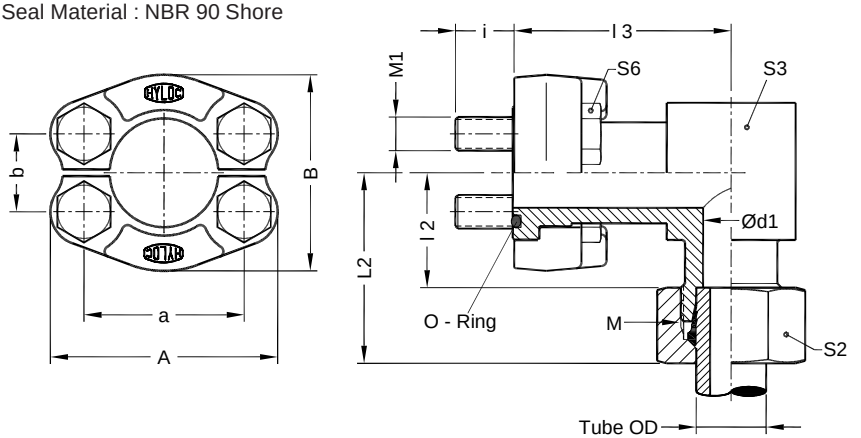
High Pressure Series (Code 62)

Part No.	Nom size	Tube o.d.	A	a	B	b	M	S6	i	Split Flange	O - Ring ID x CSD	M1 Hex. bolts (10.9)
GFS6216PS	1/2	16	56	40.5	48	18.2	M24 x 1.5	13	14	**SFH04**	19.0 x 3.55	M8 x 30
GFS6316PS	3/4	16	71	50.8	60	23.8	M24 x 1.5	17	16	**SFH06**	25.0 x 3.55	M10 x 35
GFS6320PS		20					M30 x 2.0					
GFS6325PS		25					M36 x 2.0					
GFS6425PS	1	25	81	57.2	70	27.8	M36 x 2.0	19	21	**SFH08**	32.5 x 3.55	M12 x 45
GFS6430PS		30					M42 x 2.0					
GFS6530PS	1 1/4	30	95	66.6	78	31.8	M42 x 2.0	19	18	**SFH10**	37.5 x 3.55	M12 x 45
GFS6538PS		38					M52 x 2.0					
GFS6638PS	1 1/2	38	113	79.3	95	36.5	M52 x 2.0	24	25	**SFH12**	47.5 x 3.55	M16 x 55

Part No.	Nom size	Tube o.d.	PB bar	Ø d1	l 1	L 1*	S1	S2
GFS6216PS	1/2	16	400	12	44.5	60.5	24	30
GFS6316PS	3/4	16	400	12	50.5	67.5	30	30
GFS6320PS		20	400	16	50.5	67.5	30	36
GFS6325PS		25	400	17	51.0	68.0	30	46
GFS6425PS	1	25	400	20	60.0	78.0	36	46
GFS6430PS		30	400	24	60.5	88.5	36	50
GFS6530PS	1 1/4	30	400	25	65.5	88.5	41	50
GFS6538PS		38	315	30	67.0	92.0	41	60
GFS6638PS	1 1/2	38	315	30	73.0	96.5	46	60

*Dimensions given are approx figures with tightened nut.

Tube connections as per ISO 8434
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore



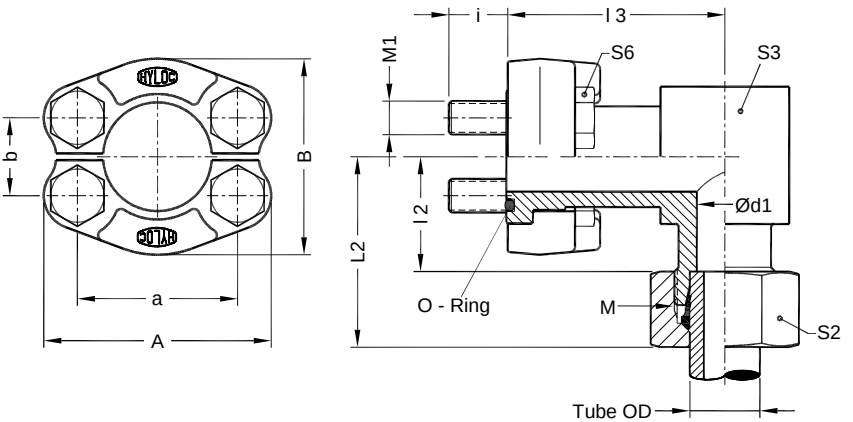
Standard Pressure Series (Code 61)

Part No.	Nom size	Tube o.d.	A	a	B	b	M	S6	i	Split Flange	O - Ring ID x CSD	M1 Hex. bolts (10.9)
WFS3215PL	1/2	15	54	38.1	46	17.5	M22x1.5	13	12	**SFS04**	19.0 x 3.55	M8 x 25
WFS3216PS		16					M24x1.5					
WFS3318PL	3/4	18	65	47.6	52	22.3	M26x1.5	17	16	**SFS06**	25.0 x 3.55	M10 x 30
WFS3322PL		22					M30x2.0					
WFS3320PS		20					M30x2.0					
WFS3325PS		25					M36x2.0					
WFS3428PL	1	28	70	52.4	59	26.2	M36x2.0	17	14	**SFS08**	32.5 x 3.55	M10 x 30
WFS3430PS		30					M42x2.0					
WFS3535PL	1 1/4	35	79	58.7	73	30.2	M45x2.0	17	16	**SFS10**	37.5 x 3.55	M10 x 30
WFS3525PS		25					M36x2.0					
WFS3530PS		30					M42x2.0					
WFS3538PS		38					M52x2.0					
WFS3642PL	1 1/2	42	94	69.9	83	35.7	M52x2.0	19	19	**SFS12**	47.5 x 3.55	M12 x 35
WFS3638PS		38					M52x2.0					

Part No.	Nom size	Tube o.d.	PB bar	Ø d1	l 2	l 3	L 2 *	S2	S3
WFS3215PL	1/2	15	315	12	29.0	45.5	45.0	27	27
WFS3216PS		16	350	12	29.5	45.5	48.5	30	27
WFS3318PL	3/4	18	315	15	31.5	52.5	48.5	32	27
WFS3322PL		22	160	19	33.5	54.0	50.5	36	30
WFS3320PS		20	350	16	32.5	54.0	55.0	36	30
WFS3325PS		25	350	17	33.0	57.0	58.0	46	36
WFS3428PL	1	28	160	24	36.5	57.0	54.5	41	36
WFS3430PS		30	350	24	36.5	62.0	64.5	50	46
WFS3535PL	1 1/4	35	160	30	46.5	69.0	69.5	50	46
WFS3525PS		25	280	20	43.0	69.0	68.0	46	46
WFS3530PS		30	280	25	43.5	69.0	71.5	50	46
WFS3538PS		38	280	28	43.0	73.5	74.5	60	55
WFS3642PL	1 1/2	42	160	36	47.0	73.5	70.5	60	55
WFS3638PS		38	210	32	48.0	73.5	79.5	60	55

* Dimensions given are approx figures with tightened nut.

Tube connections as per ISO 8434
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore



High Pressure Series (Code 62)

Part No.	Nom size	Tube o.d.	A	a	B	b	M	S6	i	Split Flange	O - Ring ID x CSD	M1 Hex. bolts (10.9)
WFS6216PS	1/2	16	56	40.5	48	18.2	M24 x 1.5	13	14	**SFH04**	19.0 x 3.55	M8 x 30
WFS6316PS	3/4	16	71	50.8	60	23.8	M24 x 1.5	17	16	**SFH06**	25.0 x 3.55	M10 x 35
WFS6320PS		20					M30 x 2.0					
WFS6325PS		25					M36 x 2.0					
WFS6425PS	1	25	81	57.2	70	27.8	M36 x 2.0	19	21	**SFH08**	32.5 x 3.55	M12 x 45
WFS6430PS		30					M42 x 2.0					
WFS6530PS	1 1/4	30	95	66.6	78	31.8	M42 x 2.0	19	18	**SFH10**	37.5 x 3.55	M12 x 45
WFS6538PS		38					M52 x 2.0					
WFS6638PS	1 1/2	38	113	79.3	95	36.5	M52 x 2.0	24	25	**SFH12**	47.5 x 3.55	M16 x 55

Part No.	Nom size	Tube o.d.	PB bar	Ø d1	l 2	l 3	L 2 *	S2	S3
WFS6216PS	1/2	16	400	12	29.5	50.5	45.5	30	27
WFS6316PS	3/4	16	400	12	36.5	62.0	53.5	30	36
WFS6320PS		20	400	16	35.5	62.0	52.5	36	36
WFS6325PS		25	400	17	36.0	62.0	53.0	46	36
WFS6425PS	1	25	400	20	41.0	78.0	59.0	46	46
WFS6430PS		30	400	24	41.5	78.0	69.5	50	46
WFS6530PS	1 1/4	30	400	25	44.5	85.0	67.5	50	46
WFS6538PS		38	315	30	45.0	89.5	70.0	60	55
WFS6638PS	1 1/2	38	315	30	56.0	95.5	79.5	60	55

* Dimensions given are approx figures with tightened nut.

SAE Flanged connections

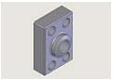
SFS

Buttweld Swivel Flanges (ISO 6162)

SAO/HAO

SAOC/HAOC

Buttweld Solid Flanges (ISO 6162)



SBO/HBO

SBOC/HBOC

Socket Weld Flanges (ISO 6162)

SCO/HCO

Blind Flanges (ISO 6162)

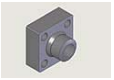
OSB/OHB

Buttweld Swivel Flanges (ISO 6164)

SAI/HAI

SAIC/HAIC

Buttweld Solid Flanges (ISO 6164)



SBI/HBI

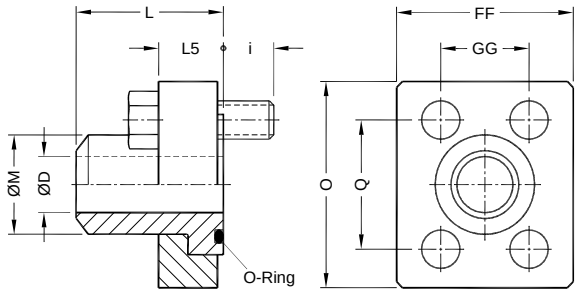
SBIC/HBIC

Blind Flanges (ISO 6164)

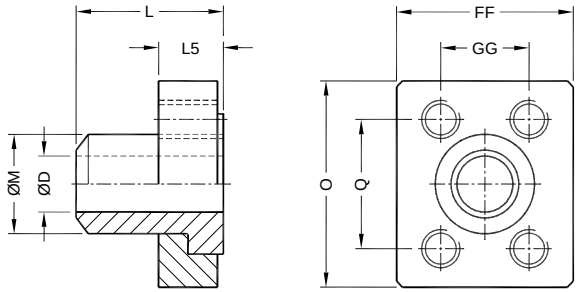
SSB/SHB

Dimensions in mm

Mounting Interface conforms to ISO 6162



Flanges
Model : **SAO**



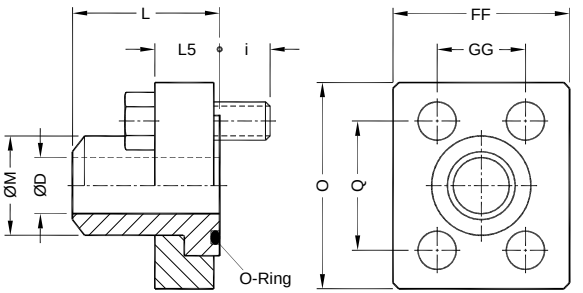
Counter Flanges
Model : **SAOC**

Standard Pressure Series (Code 61)

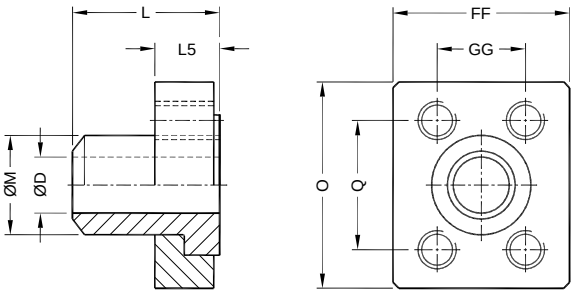
Part No. Flanges	Part No. Counter Flanges	Size	Pipe (Sch)	Pr. (bar)	ØM	ØD	O	Q	FF	GG	L5	i	L	O-Ring (Viton) 90 ±5 Shore	Hex. Bolts (10.9)
SAO-21.3-80	SAOC-21.3-80	1/2"	80	288	21.3	14	54	38.1	46	17.5	13	12	30	19.0 x 3.55	M8 x 25
SAO-21.3-160	SAOC-21.3-160		160	345		12									
SAO-26.6-80	SAOC-26.6-80	3/4"	80	246	26.6	19	65	47.6	52	22.3	15	15	35	25.0 x 3.55	M10 x 30
SAO-26.6-160	SAOC-26.6-160		160	345		15									
SAO-33.4-80	SAOC-33.4-80	1"	80	246	33.4	24	70	52.4	59	26.2	15	15	40	32.5 x 3.55	M10 x 30
SAO-33.4-160	SAOC-33.4-160		160	345		21									
SAO-42.2-80	SAOC-42.2-80	1.1/4"	80	211	42.2	32	79	58.7	73	30.2	15	15	45	37.5 x 3.55	M10 x 30
SAO-42.2-160	SAOC-42.2-160		160	276		30									
SAO-48.3-80	SAOC-48.3-80	1.1/2"	80	197	48.3	38	94	69.9	83	35.7	17	18	50	47.5 x 3.55	M12 x 35
SAO-60.3-80	SAOC-60.3-80	2"	80	176	60.3	49	102	77.8	97	42.9	17	18	60	56.0 x 3.55	M12 x 35
SAO-60.3-160	SAOC-60.3-160		160	207		43									
SAO-73.0-40	SAOC-73.0-40	2.1/2"	40	134	73.0	63	114	88.9	109	50.8	22	18	70	69.0 x 3.55	M12 x 40
SAO-73.0-80	SAOC-73.0-80		80	172		59									
SAO-88.9-40	SAOC-88.9-40	3"	40	113	88.9	78	135	106.4	131	61.9	26	24	80	85.0 x 3.55	M16 x 50
SAO-88.9-80	SAOC-88.9-80		80	138		74									
SAO-101.6-40	SAOC-101.6-40	3.1/2"	40	34	101.6	90	152	120.7	140	69.9	26	24	80	97.5 x 3.55	M16 x 50
SAO-114.3-40	SAOC-114.3-40	4"	40	34	114.3	102	162	130.2	152	77.8	26	24	80	112.0 x 3.55	M16 x 50
SAO-141.3-40	SAOC-141.3-40	5"	40	34	141.3	128	184	152.4	181	92.1	31	24	80	136.0 x 3.55	M16 x 55

Dimensions in mm

Mounting Interface conforms to ISO 6162



Flanges
Model : **HAO**



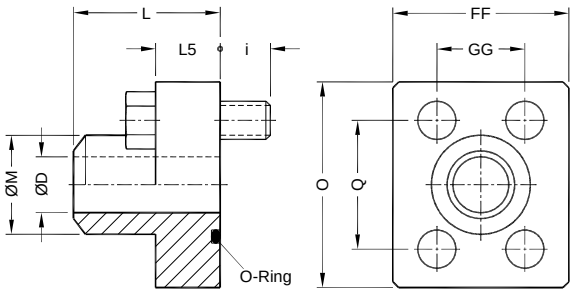
Counter Flanges
Model : **HAOC**

High Pressure Series (Code 62)

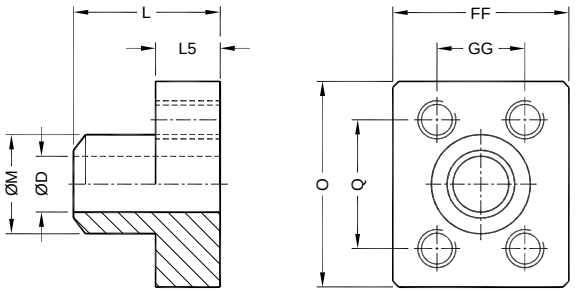
Part No. Flanges	Part No. Counter Flanges	Size	Pipe (Sch)	Pr. (bar)	ØM	ØD	O	Q	FF	GG	L5	i	L	O-Ring (Viton) 90 ±5 Shore	Hex. Bolts (10.9)
HAO-21.3-160	HAOC-21.3-160	1/2"	160	414	21.3	12	56	40.5	48	18.2	18	12	40	19.0 x 3.55	M8 x 30
HAO-26.6-160	HAOC-26.6-160	3/4"	160	414	26.6	16	71	50.8	60	23.8	20	15	45	25.0 x 3.55	M10 x 35
HAO-33.4-160	HAOC-33.4-160	1"	160	401	33.4	21	81	57.2	70	27.8	27	18	50	32.5 x 3.55	M12 x 45
HAO-42.2-160	HAOC-42.2-160	1.1/4"	160	310	42.2	30	95	66.6	78	31.8	27	18	55	37.5 x 3.55	M12 x 45
HAO-42.2-XXS	HAOC-42.2-XXS		XXS	414		23									
HAO-48.3-160	HAOC-48.3-160	1.1/2"	160	317	48.3	34	113	79.3	95	36.5	31	24	60	47.5 x 3.55	M16 x 55
HAO-48.3-XXS	HAOC-48.3-XXS		XXS	414		28									
HAO-60.3-160	HAOC-60.3-160	2"	160	324	60.3	43	133	96.8	114	44.5	40	30	70	56.0 x 3.55	M20 x 70
HAO-60.3-XXS	HAOC-60.3-XXS		XXS	414		38									
HAO-73.0-160	HAOC-73.0-160	2.1/2"	160	296	73.0	54	175	123.8	149	58.7	47	33	90	69.0 x 3.55	M22 x 80
HAO-73.0-XXS	HAOC-73.0-XXS		XXS	414		45									
HAO-88.9-160	HAOC-88.9-160	3"	160	288	88.9	66	216	152.4	178	71.4	65	45	110	85.0 x 3.55	M30 x 110
HAO-88.9-XXS	HAOC-88.9-XXS		XXS	414		58									

Dimensions in mm

Mounting Interface conforms to ISO 6162



Flanges
Model : **SBO**



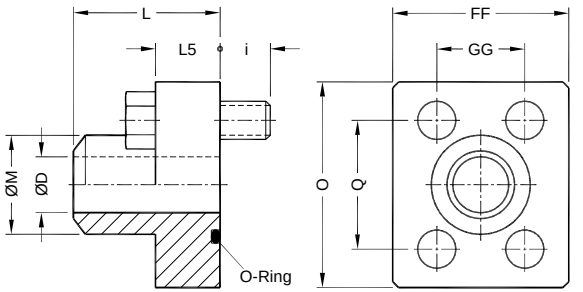
Counter Flanges
Model : **SBOC**

Standard Pressure Series (Code 61)

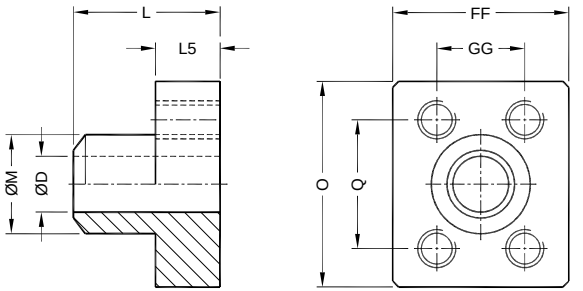
Part No. Flanges	Part No. Counter Flanges	Size	Pipe Sch	Pr (bar)	ØM	ØD	O	Q	FF	GG	L5	i	L	O' Ring (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
SBO-21.3-80	SBOC-21.3-80	1/2"	80	288	21.3	14	54	38.1	38	17.5	13	12	32	19.0 x 3.55	M8 x 25
SBO-21.3-160	SBOC-21.3-160		160	345		12									
SBO-26.6-80	SBOC-26.6-80	3/4"	80	246	26.6	19	65	47.6	45	22.3	15	15	32	25.0 x 3.55	M10x30
SBO-26.6-160	SBOC-26.6-160		160	345		15									
SBO-33.4-80	SBOC-33.4-80	1"	80	246	33.4	24	70	52.4	51	26.2	15	15	32	32.5 x 3.55	M10x30
SBO-33.4-160	SBOC-33.4-160		160	345		21									
SBO-42.2-80	SBOC-42.2-80	11/4"	80	211	42.2	32	79	58.7	64	30.2	15	15	32	37.5 x 3.55	M10x30
SBO-42.2-160	SBOC-42.2-160		160	276		30									
SBO-48.3-80	SBOC-48.3-80	1.1/2"	80	197	48.3	38	94	69.9	70	35.7	17	18	38	47.5 x 3.55	M12x35
SBO-60.3-80	SBOC-60.3-80	2"	80	176	60.3	49	102	77.8	83	42.9	17	18	38	56.0 x 3.55	M12x35
SBO-60.3-160	SBOC-60.3-160		160	207		43									
SBO-73.0-40	SBOC-73.0-40	2 1/2"	40	134	73.0	63	114	88.9	102	50.8	22	18	45	69.0 x 3.55	M12x40
SBO-73.0-80	SBOC-73.0-80		80	172		59									
SBO-88.9-40	SBOC-88.9-40	3"	40	113	88.9	78	135	106.4	114	61.9	26	24	51	85.0 x 3.55	M16x50
SBO-88.9-80	SBOC-88.9-80		80	138		74									
SBO-101.6-40	SBOC-101.6-40	3 1/2"	40	34	101.6	90	152	120.7	127	69.9	26	24	38	97.5 x 3.55	M16x50
SBO-114.3-40	SBOC-114.3-40	4"	40	34	114.3	102	162	130.2	140	77.8	26	24	38	112.0 x 3.55	M16x50
SBO-141.3-40	SBOC-141.3-40	5"	40	34	141.3	128	184	152.4	178	92.1	26	24	51	136.0 x 3.55	M16x50

Dimensions in mm

Mounting Interface conforms to ISO 6162



Flanges
Model : **HBO**



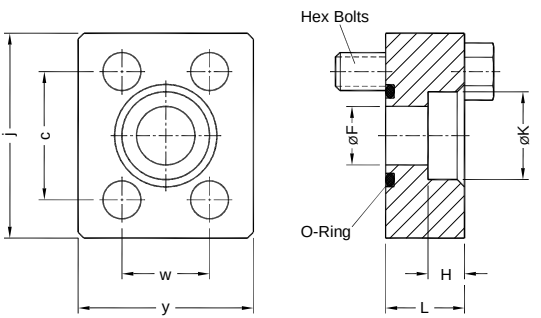
Counter Flanges
Model : **HBOC**

High Pressure Series (Code 62)

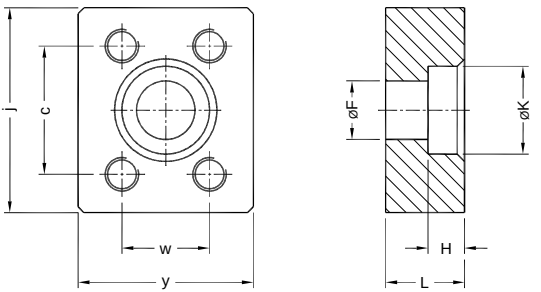
Part No. Flanges	Part No. Counter Flanges	Size	Pipe Sch	Pr (bar)	øM	øD	O	Q	FF	GG	L5	i	L	O' Ring (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
HBO-21.3-160	**HBOC-21.3-160**	1/2"	160	414	21.3	12	56	40.5	45	18.2	18	12	32	19.0 x 3.55	M8 x 30
HBO-26.6-160	**HBOC-26.6-160**	3/4"	160	414	26.6	16	71	50.8	51	23.8	20	15	32	25.0 x 3.55	M10x35
HBO-33.4-160	**HBOC-33.4-160**	1"	160	401	33.4	21	81	57.2	57	27.8	22	18	32	32.5 x 3.55	M12x40
HBO-42.2-160	**HBOC-42.2-160**	1.1/4"	160	310	42.2	30	95	66.6	70	31.8	22	18	32	37.5 x 3.55	M12x40
HBO-42.2-XXS	**HBOC-42.2-XXS**		XXS	414		23									
HBO-48.3-160	**HBOC-48.3-160**	1.1/2"	160	317	48.3	34	113	79.3	83	36.5	21	24	38	47.5 x 3.55	M16x45
HBO-48.3-XXS	**HBOC-48.3-XXS**		XXS	414		28									
HBO-60.3-160	**HBOC-60.3-160**	2"	160	324	60.3	43	133	96.8	102	44.5	30	30	45	56.0 x 3.55	M20x60
HBO-60.3-XXS	**HBOC-60.3-XXS**		XXS	414		38									
HBO-73.0-160	**HBOC-73.0-160**	2 1/2"	160	296	73.0	54	175	123.8	127	58.7	32	33	51	69.0 x 3.55	M22x65
HBO-73.0-XXS	**HBOC-73.0-XXS**		XXS	414	73.0	45	175	123.8	127	58.7	32	33	51	69.0 x 3.55	M22x65
HBO-88.9-160	**HBOC-88.9-160**	3"	160	288	88.9	66	216	152.4	153	71.4	35	45	63	85.0 x 3.55	M30x80
HBO-88.9-XXS	**HBOC-88.9-XXS**		XXS	414		58									

Dimensions in mm

Mounting Interface conforms to ISO 6162



Flanges
Model : **SCO**



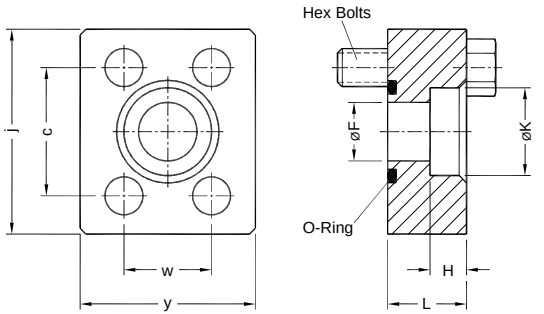
Counter Flanges
Model : **SCOC**

Standard Pressure Series (Code 61)

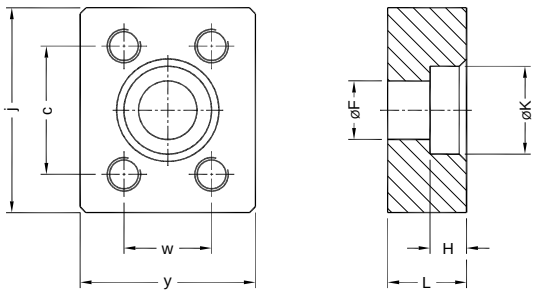
Part No. Flanges	Part No. Counter Flanges	Nom Flange Size	Pr (bar)	y	j	c	w	ØF	H	ØK	L	O' Ring (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
SCO-21.3	**SCOC-21.3**	1/2"	350	46	54	38.1	17.5	13	10	21.8	18	19.0 x 3.55	M8 x 30
SCO-26.6	**SCOC-26.6**	3/4"	350	52	65	47.6	22.3	19	13	27.0	25	25.0 x 3.55	M10 x 40
SCO-33.4	**SCOC-33.4**	1"	350	59	70	52.4	26.2	25	13	33.7	25	32.5 x 3.55	M10 x 40
SCO-42.2	**SCOC-42.2**	1.1/4"	250	73	79	58.7	30.2	32	13	42.6	25	37.5 x 3.55	M10 x 40
SCO-48.3	**SCOC-48.3**	1.1/2"	200	83	94	69.9	35.7	38	13	48.7	32	47.5 x 3.55	M12 x 50
SCO-60.3	**SCOC-60.3**	2"	200	97	102	77.8	42.9	49	16	61.2	37	56.0 x 3.55	M12 x 55
SCO-73.0	**SCOC-73.0**	2 1/2"	160	109	114	88.9	50.8	61	19	73.9	42	69.0 x 3.55	M12 x 60
SCO-88.9	**SCOC-88.9**	3"	100	131	135	106.4	61.9	75	19	89.9	51	85.0 x 3.55	M16 x 75
SCO-101.6	**SCOC-101.6**	3 1/2"	25	140	152	120.7	69.9	86	19	102.7	36	97.5 x 3.55	M16 x 60
SCO-114.3	**SCOC-114.3**	4"	25	152	162	130.2	77.8	99	19	115.5	36	112.0 x 3.55	M16 x 60
SCO-141.3	**SCOC-141.3**	5"	25	181	184	152.4	92.1	127	19	142.8	51	136.0 x 3.55	M16 x 75

Dimensions in mm

Mounting Interface conforms to ISO 6162



Flanges
Model : **HCO**



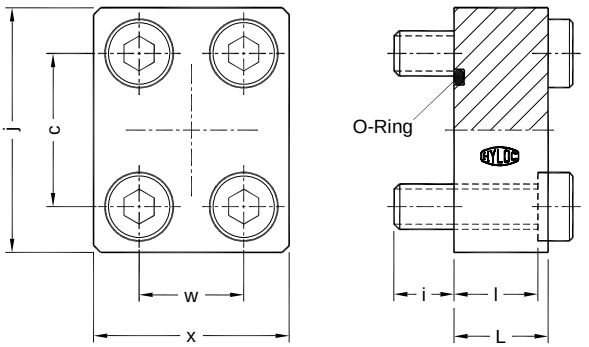
Counter Flanges
Model : **HCOC**

High Pressure Series (Code 62)

Part No. Flanges	Part No. Counter Flanges	Nom Flange Size	Pr (bar)	y	j	c	w	ØF	H	ØK	L	O' Ring (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
HCO-21.3	**HCOC-21.3**	1/2"	400	48	56	40.5	18.2	13	13	21.8	23	19.00 x 3.55	M8 x 35
HCO-26.6	**HCOC-26.6**	3/4"	400	60	71	50.8	23.8	19	13	27.0	25	25.00 x 3.55	M10 x 40
HCO-33.4	**HCOC-33.4**	1"	400	70	81	57.2	27.8	25	13	33.7	27	32.50 x 3.55	M12 x 45
HCO-42.2	**HCOC-42.2**	1.1/4"	400	78	95	66.6	31.8	32	13	42.6	32	37.50 x 3.55	M12 x 50
HCO-48.3	**HCOC-48.3**	1.1/2"	400	95	113	79.3	36.5	38	13	48.7	36	47.50 x 3.55	M16 x 60
HCO-60.3	**HCOC-60.3**	2"	400	114	133	96.8	44.5	50	16	61.2	45	56.00 x 3.55	M20 x 75
HCO-73.0	**HCOC-73.0**	2 1/2"	400	149	175	123.8	58.7	60	16	73.9	52	69.00 x 3.55	M22 x 85
HCO-88.9	**HCOC-88.9**	3"	400	178	216	152.4	71.4	75	16	89.9	65	85.00 x 3.55	M30 x 110

Dimensions in mm

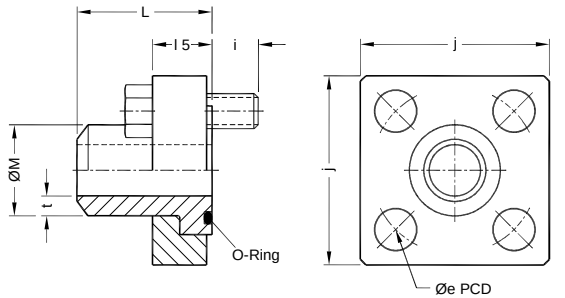
Mounting Interface conforms to ISO 6162
Seal Material : NBR 90 Shore



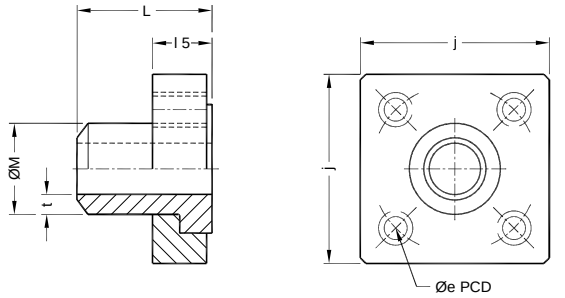
Part No.	Pr. (bar)	Nom size	x	j	c	w	l	i	L	O - Ring ID x CSD	S.H.C Screws (10.9)
Standard pressure series (Code 61)											
OSB-04	350	1/2"	33	54	38.1	17.5	13	12	13	19.0 x 3.55	M8 x 25
OSB-06	350	3/4"	41	65	47.6	22.3	15	15	15	25.0 x 3.55	M10 x 30
OSB-08	350	1"	48	70	52.4	26.2	15	15	17	32.5 x 3.55	M10 x 30
OSB-10	250	1,1/4"	54	79	58.7	30.2	15	15	17	37.5 x 3.55	M10 x 30
OSB-12	200	1,1/2"	64	94	69.9	35.7	17	18	22	47.5 x 3.55	M12 x 35
OSB-16	200	2"	76	102	77.8	42.9	17	18	25	56.0 x 3.55	M12 x 35
OSB-20	160	2,1/2"	89	114	88.9	50.8	22	18	27	69.0 x 3.55	M12 x 40
OSB-24	100	3"	106	135	106.4	61.9	26	24	30	85.0 x 3.55	M16 x 50
OSB-28	25	3,1/2"	119	152	120.7	69.9	26	24	26	97.5 x 3.55	M16 x 50
OSB-32	25	4"	132	162	130.2	77.8	26	24	26	112.0 x 3.55	M16 x 50
OSB-40	25	5"	151	184	152.4	92.1	26	24	32	136.0 x 3.55	M16 x 50
High pressure series (Code 62)											
OHB-04	400	1/2"	38	56	40.5	18.2	18	12	18	19.0 x 3.55	M8 x 30
OHB-06	400	3/4"	48	71	50.8	23.8	20	15	20	25.0 x 3.55	M10 x 35
OHB-08	400	1"	54	81	57.2	27.8	22	18	22	32.5 x 3.55	M12 x 40
OHB-10	400	1,1/4"	60	95	66.6	31.8	22	18	22	37.5 x 3.55	M12 x 40
OHB-12	400	1,1/2"	70	113	79.3	36.5	21	24	30	47.5 x 3.55	M16 x 45
OHB-16	400	2"	86	133	96.8	44.5	30	30	36	56.0 x 3.55	M20 x 60
OHB-20	400	2,1/2"	116	175	123.8	58.7	32	33	50	69.0 x 3.55	M22 x 65
OHB-24	400	3"	132	216	152.4	71.4	35	45	63	85.0 x 3.55	M30 x 80

Dimensions in mm

Mounting Interface conforms to ISO 6164



Flanges
Model : **SAI / HAI**



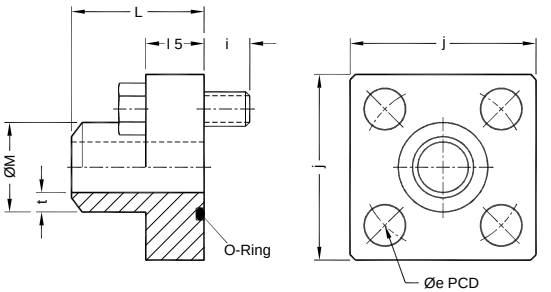
Counter Flanges
Model : **SAIC / HAIC**

*Not included in ISO 6164 std

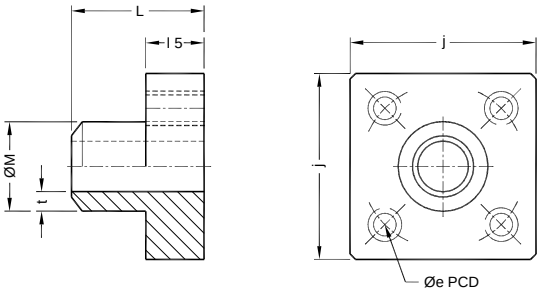
Part No. Flange	Part No. Counter Flange	Nom Flange Size	DN Size	ØM	Pipe Sch	t	Ø e	l 5	j	i	L	O - Ring ID x CSD (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
PN 250 bar													
SAI-21.3-80	**SAIC-21.3-80**	**1/2"**	13	21.3	80	3.70	42	23	45	12	30	19.0 x 3.55	M8x35
SAI-26.6-80	**SAIC-26.6-80**	**3/4"**	19	26.6	80	3.92	50	23	50	12	35	25.0 x 3.55	M8x35
SAI-33.4-80	**SAIC-33.4-80**	**1"**	25	33.4	80	4.54	62	25	65	15	40	32.5 x 3.55	M10x40
SAI-42.2-160	**SAIC-42.2-160**	**1.1/4"**	32	42.2	160	6.35	73	32	75	18	45	37.5 x 3.55	M12x50
SAI-48.3-160	**SAIC-48.3-160**	**1.1/2"**	38	48.3	160	7.13	85	36	90	24	50	47.5 x 3.55	M16x60
SAI-60.3-160	**SAIC-60.3-160**	**2"**	51	60.3	160	8.71	98	41	100	24	60	56.0 x 3.55	M16x65
SAI-73.0-160	**SAIC-73.0-160**	**2 1/2"**	56	73.0	160	9.52	118	50	120	30	70	69.0 x 3.55	M20x80
SAI-88.9-160	**SAIC-88.9-160**	**3"**	63	88.9	160	11.00	145	60	140	30	80	85.0 x 3.55	M20x90
***SAI-114.3-160**	**SAIC-114.3-160**	**4"**	80	114.3	160	13.50	175	75	180	45	135	112 x 3.55	M30x120
PN 400 bar													
HAI-21.3-160	**HAIC-21.3-160**	**1/2"**	13	21.3	160	4.75	42	23	45	12	40	19.0 x 3.55	M8x35
HAI-26.6-160	**HAIC-26.6-160**	**3/4"**	19	26.6	160	5.56	50	23	50	12	45	25.0 x 3.55	M8x35
HAI-33.4-160	**HAIC-33.4-160**	**1"**	25	33.4	160	6.35	62	25	65	15	50	32.5 x 3.55	M10x40
HAI-42.2-XXS	**HAIC-42.2-XXS**	**1.1/4"**	32	42.2	XXS	9.70	73	32	75	18	55	37.5 x 3.55	M12x50
HAI-48.3-XXS	**HAIC-48.3-XXS**	**1.1/2"**	38	48.3	XXS	10.16	85	36	90	24	60	47.5 x 3.55	M16x60
HAI-60.3-XXS	**HAIC-60.3-XXS**	**2"**	51	60.3	XXS	11.07	98	41	100	24	70	56.0 x 5.30	M16x65
HAI-73.0-XXS	**HAIC-73.0-XXS**	**2 1/2"**	56	73.0	XXS	14.02	118	50	120	30	80	69.0 x 5.30	M20x80
HAI-88.9-XXS	**HAIC-88.9-XXS**	**3"**	63	88.9	XXS	15.24	145	54	150	36	105	75.0 x 5.30	M24x90
HAI-101.6-XXS	**HAIC-101.6-XXS**	**3 1/2"**	70	101.6	XXS	16.15	160	64	160	36	105	85.0 x 5.30	M24x100
HAI-114.3-XXS	**HAIC-114.3-XXS**	**4"**	80	114.3	XXS	17.12	175	75	180	45	135	87.5 X 5.30	M30x120

Dimensions in mm

Mounting Interface conforms to ISO 6164



Flanges
Model : **SBI / HBI**



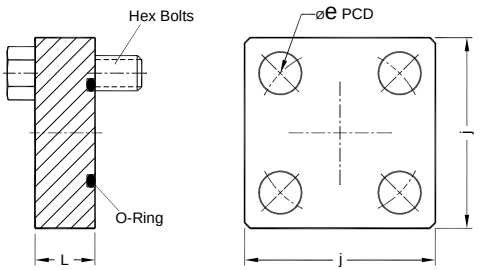
Counter Flanges
Model : **SBIC / HBIC**

∗Not included in ISO 6164 std

Part No. Flange	Part No. Counter Flange	Nom Flange Size	DN Size	ØM	Pipe Sch	t	Ø e	l 5	j	i	L	O - Ring ID x CSD (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
PN 250 bar													
SBI-21.3-80	**SBIC-21.3-80**	**1/2"**	13	21.3	80	3.70	42	23	45	12	30	19.0 x 3.55	M8x35
SBI-26.6-80	**SBIC-26.6-80**	**3/4"**	19	26.6	80	3.92	50	23	50	12	35	25.0 x 3.55	M8x35
SBI-33.4-80	**SBIC-33.4-80**	**1"**	25	33.4	80	4.54	62	25	65	15	40	32.5 x 3.55	M10x40
SBI-42.2-160	**SBIC-42.2-160**	**1.1/4"**	32	42.2	160	6.35	73	32	75	18	45	37.5 x 3.55	M12x50
SBI-48.3-160	**SBIC-48.3-160**	**1.1/2"**	38	48.3	160	7.13	85	36	90	24	50	47.5 x 3.55	M16x60
SBI-60.3-160	**SBIC-60.3-160**	**2"**	51	60.3	160	8.71	98	41	100	24	60	56.0 x 3.55	M16x65
SBI-73.0-160	**SBIC-73.0-160**	**2 1/2"**	56	73.0	160	9.52	118	50	120	30	70	69.0 x 3.55	M20x80
SBI-88.9-160	**SBIC-88.9-160**	**3"**	63	88.9	160	11.00	145	60	140	30	80	85.0 x 3.55	M20x90
∗**SBI-114.3-160**	**SBIC-114.3-160**	**4"**	80	114.3	160	13.50	175	75	180	45	135	112 x 3.55	M30x120
PN 400 bar													
HBI-21.3-160	**HBIC-21.3-160**	**1/2"**	13	21.3	160	4.75	42	23	45	12	40	19.0 x 3.55	M8x35
HBI-26.6-160	**HBIC-26.6-160**	**3/4"**	19	26.6	160	5.56	50	23	50	12	45	25.0 x 3.55	M8x35
HBI-33.4-160	**HBIC-33.4-160**	**1"**	25	33.4	160	6.35	62	25	65	15	50	32.5 x 3.55	M10x40
HBI-42.2-XXS	**HBIC-42.2-XXS**	**1.1/4"**	32	42.2	XXS	9.70	73	32	75	18	55	37.5 x 3.55	M12x50
HBI-48.3-XXS	**HBIC-48.3-XXS**	**1.1/2"**	38	48.3	XXS	10.16	85	36	90	24	60	47.5 x 3.55	M16x60
HBI-60.3-XXS	**HBIC-60.3-XXS**	**2"**	51	60.3	XXS	11.07	98	41	100	24	70	56.0 x 5.30	M16x65
HBI-73.0-XXS	**HBIC-73.0-XXS**	**2 1/2"**	56	73.0	XXS	14.02	118	50	120	30	80	69.0 x 5.30	M20x80
HBI-88.9-XXS	**HBIC-88.9-XXS**	**3"**	63	88.9	XXS	15.24	145	54	150	36	105	75.0 x 5.30	M24x90
HBI-101.6-XXS	**HBIC-101.6-XXS**	**3 1/2"**	70	101.6	XXS	16.15	160	64	160	36	105	85.0 x 5.30	M24x100
HBI-114.3-XXS	**HBIC-114.3-XXS**	**4"**	80	114.3	XXS	17.12	175	75	180	45	135	87.5 x 5.30	M30x120

Dimensions in mm

Mounting Interface conforms to ISO 6164



Part No. Flange	Nom Flange Size	DN Size	Ø e	j	L	O - Ring ID x CSD (Viton) 90 ± 5 Shore	Hex. bolts (10.9)
PN 250 bar							
SSB - 04	**1/2"**	13	42	45	23	19.0 x 3.55	M8x35
SSB - 06	**3/4"**	19	50	50	23	25.0 x 3.55	M8x35
SSB - 08	**1"**	25	62	65	25	32.5 x 3.55	M10x40
SSB - 10	**1.1/4"**	32	73	75	32	37.5 x 3.55	M12x50
SSB - 12	**1.1/2"**	38	85	90	36	47.5 x 3.55	M16x60
SSB - 16	**2"**	51	98	100	41	56.0 x 3.55	M16x65
SSB - 20	**2 1/2"**	56	118	120	50	69.0 x 3.55	M20x80
SSB - 24	**3"**	63	145	140	60	85.0 x 3.55	M20x90
PN 400 bar							
SHB - 04	**1/2"**	13	42	45	23	19.0 x 3.55	M8x35
SHB - 06	**3/4"**	19	50	50	23	25.0 x 3.55	M8x35
SHB - 08	**1"**	25	62	65	25	32.5 x 3.55	M10x40
SHB - 10	**1.1/4"**	32	73	75	32	37.5 x 3.55	M12x50
SHB - 12	**1.1/2"**	38	85	90	36	47.5 x 3.55	M16x60
SHB - 16	**2"**	51	98	100	41	56.0 x 5.30	M16x65
SHB - 20	**2 1/2"**	56	118	120	50	69.0 x 5.30	M20x80
SHB - 24	**3"**	63	145	150	54	75.0 x 5.30	M24x90
SHB - 28	**3 1/2"**	70	160	160	64	85.0 x 5.30	M24x100
SHB - 32	**4"**	80	175	180	75	87.5 x 5.30	M30x120

Visual Index

Valves

Cartridge, Shut off V alve

KHSL

Screw-in Cartridge, Shut off V alve

KHSLB

Shut off V alve, Inline and Right angle

SLG

SLWG

SL *

SLW *

Shut off V alve, Inline flange mounting

S25 * 10

S * L* 10

S * L* 10

Shut off V alve, Sub-plate mounting

MHSL

MSSL06-2.0

SS25S10

S * S 10

Cartridge, Needle V alve

KHNL

Needle V alve, Inline and Right angle

NLG

NLWG

NL *

NLW *

Needle V alve, Sub-plate mounting

MHNL

Check V alve, Screw in Cartridge

KSC

KSD

Check V alves,

RHD

RHZ

RHV

RHF

Visual Index

Valves

Adjustable Throttle and Throttle Check Valves


TCTG/TTG


TCG


TCMS


TCMH

Gauge Isolators


1GIM


1GIP


1GI


GMB


GIM


GIB


GIMH

Quick Disconnect Coupling


QDC

Accumulator Safety Block


ASB

Shut off Valve - Cartridge, Model : KHSL

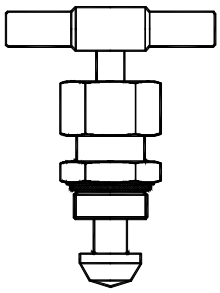
Ref. No : H04085, Release Mar 2018 (Dimensions in mm)

the right connection
the right environment

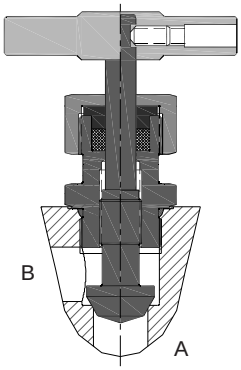
Description

Cartridge type Shut of valves model KHSL are rising spindle, seat type valves with metal seat for leak-free closure between it's port `A' & `B'.

The mounting cavity confirms to Factory standard.

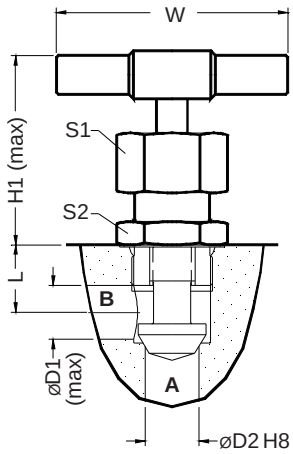


Section



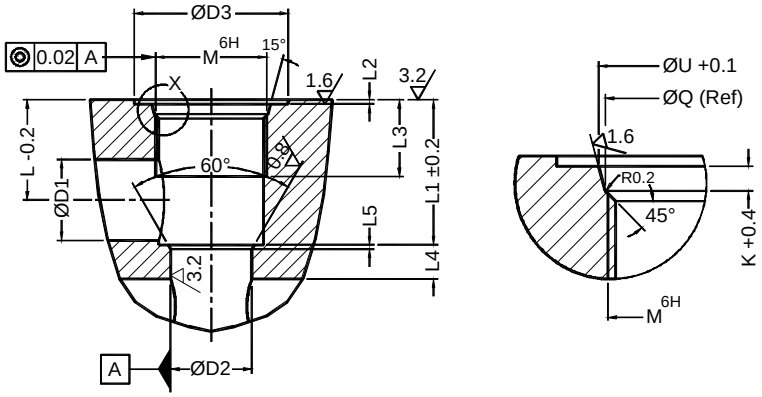
Hydraulic Symbol

Unit Dimensions



Model Code	Size	L	H1	W	ØD1	ØD2	S1	S2
KHSL08-2.0	8	18	67.5	64	11	8	27	27
KHSL11-2.0	11	18	67.5	64	11	11	27	27
KHSL19-2.0	19	23	88.5	84	19	19	32	32
KHSL28-2.0	28	33	115.0	120	28	28	50	50

Cavity machining details



Model Code	ØD1	ØD2	ØD3	L	L1	ØU	ØQ	L2	L3	L4	L5	K	M
KHSL08-2.0	10	8	31.0	18	24	21.8	20.5	0.2	16	3	0.5	2.4	M20x1.5
KHSL11-2.0	10	11	31.0	18	24	21.8	20.5	0.2	16	3	0.5	2.4	M20x1.5
KHSL19-2.0	19	19	36.0	23	33	27.8	26.5	0.2	18	5	1.0	2.4	M26x1.5
KHSL28-2.0	28	28	54.5	35	51	44.4	42.7	1.0	24	7	1.5	3.1	M42x2.0

Shut off Valve - Cartridge, Model : KHSL

Ref. No : H04085, Release Mar 2018 (Dimensions in mm)

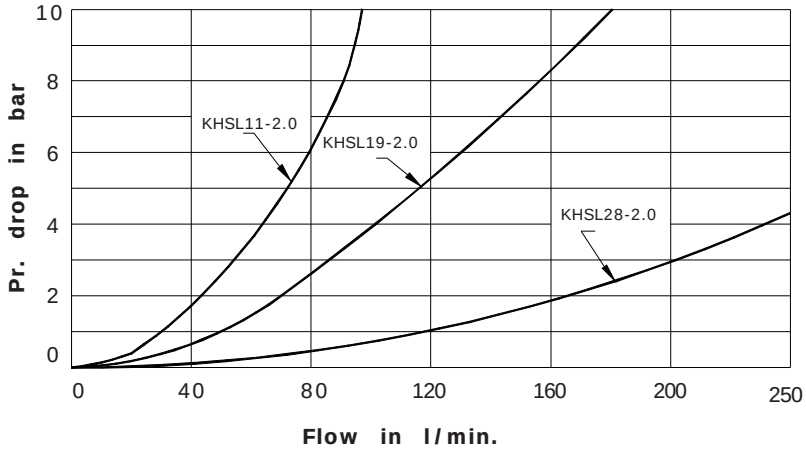
the right connection
the right environment

Technical Specifications

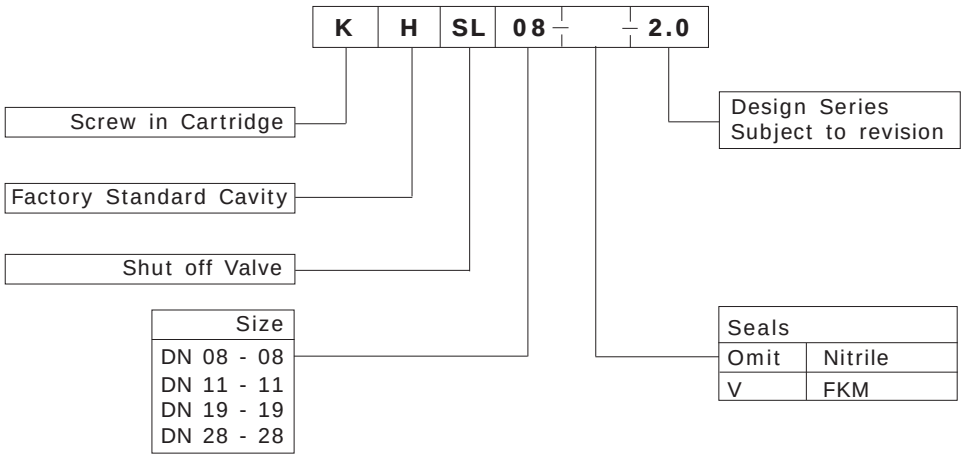
Construction	Seat type valve.
Mounting	Insert in cavity conforming to factory standard.
Mounting position	Optional.
Flow direction	From port `A' to port `B'.
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +70 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

Performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.



Ordering Code



Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-KHSL08-2.0**

Shut off Valve - Cartridge, Model : KHSLB

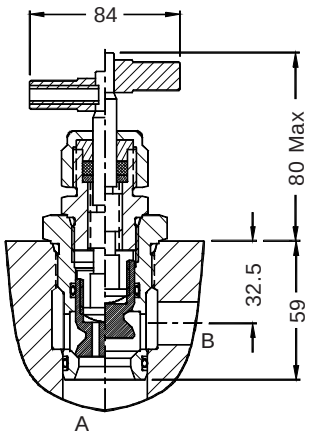
Ref. No : H03320, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Description

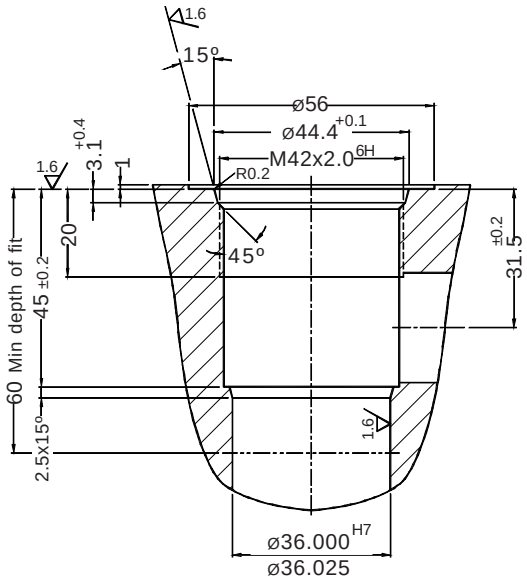
Shut off valve Cartridge model **KHSLB25-2.0** are seat type.
Balanced sealed poppet construction to reduce operating forces.

Unit Dimensions



Hydraulic Symbol

Cavity Details



Technical Specifications

Construction	Seat type valve.
Mounting	Insert in cavity conforming to factory standard.
Mounting position	Optional.
Flow direction	From port `A' to port `B'.
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +70 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

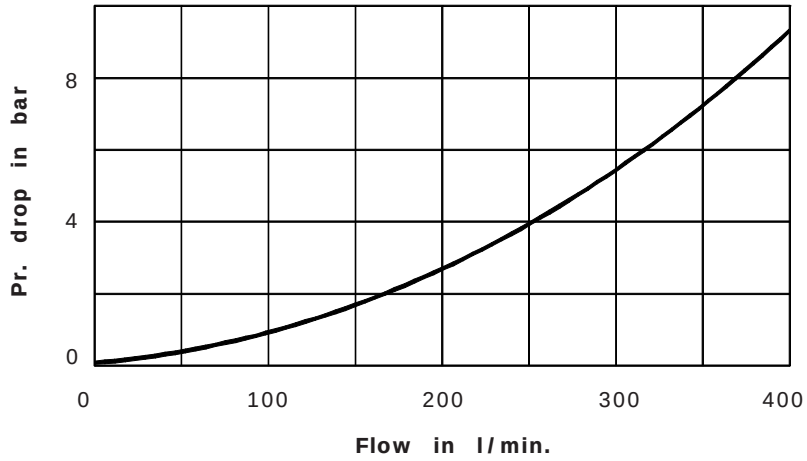
Shut off Valve - Cartridge, Model : KHSLB

Ref. No : H03320, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.



Ordering Code

K	H	SLB	25 –	– 2.0

- K: Screw in Cartridge
- H: Factory Standard Cavity
- SLB: Shut off Valve, Balanced Piston construction
- 25: Size — DN 25 -25
- 2.0: Design Series Subject to revision
- Seals: Omit — Nitrile; V — FKM

Shut off Valve - Inline and Right angle, Model : SLG, SLWG

Ref. No : H04343, Release March 2018 (Dimensions in mm)

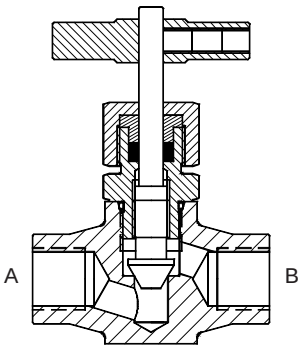
the right connection
the right environment

Description

Shut off valve model SLG, SLWG are two way, seat type valves.

These are used for isolating the oil flow in the direction as indicated by an arrow mark shown on the valve body.

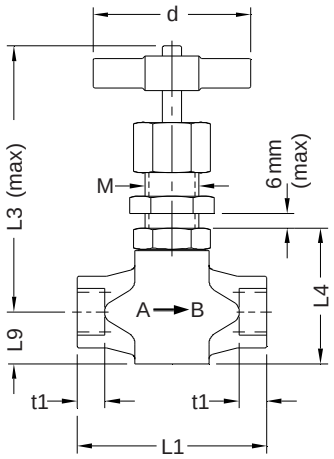
Section



Hydraulic Symbol

Unit Dimensions

In - line and Right angle bodies (With BSP ports)



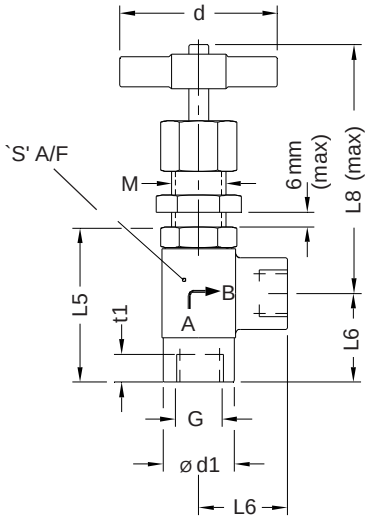


Table 1

Model Code In-line	Model Code Right angle	G	L1	L3	L4	L5	L6	L8	L9	d	t1	S	M
SLG02-2.0	**SLWG02-2.0**	G 1/4	70	110.5	54.5	56.5	30	103.5	21.0	64	14	30	M22x1.5
SLG03-2.0	**SLWG03-2.0**	G 3/8	70	110.5	54.5	56.5	30	103.5	21.0	64	14	30	M22x1.5
SLG04-2.0	**SLWG04-2.0**	G 1/2	77	110.5	54.5	62.5	36	103.5	21.0	64	17	30	M22x1.5
SLG06-2.0	**SLWG06-2.0**	G 3/4	93	122.0	71.0	77.0	45	110.0	27.0	84	17	36	M26x1.5
SLG08-2.0	**SLWG08-2.0**	G1	93	122.0	72.0	77.0	45	110.0	27.0	84	18	46	M26x1.5
SLG10-2.0	**SLWG10-2.0**	G1.1/4	162	162.0	105.0	113.0	65	143.0	51.5	120	22	60	M42x2.0
SLG12-2.0	**SLWG12-2.0**	G1.1/2	162	162.0	105.0	113.0	65	143.0	51.5	120	24	60	M42x2.0

Shut off Valve - Inline and Right angle, Model : SLG, SLWG

Ref. No : H04343, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Unit Dimensions

In - line and Right angle bodies (With Tube ends)

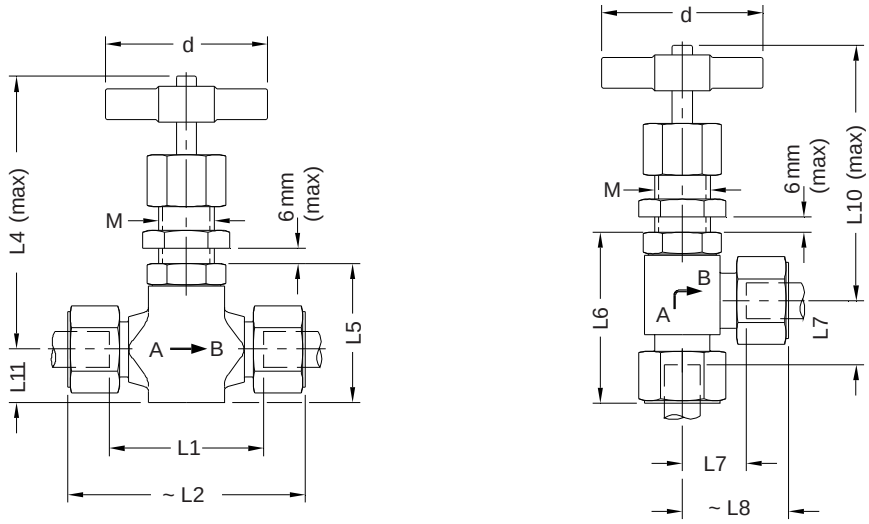


Table 2

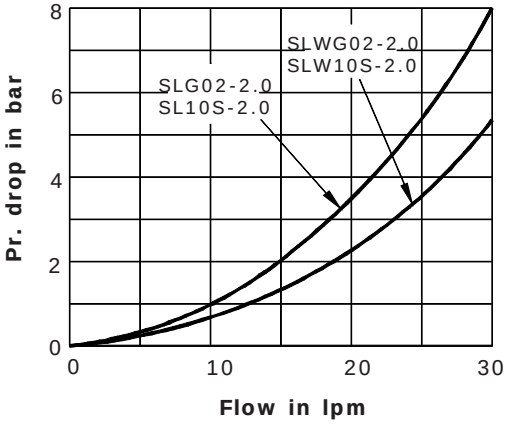
Model Code In-line	Model Code Right angle	Tube OD	L1	L2	L4	L5	L6	L7	L8	L10	L11	d	S1	S2	M
SL10S-2.0	**SLW10S-2.0**	10	55	88.0	110.5	54.5	65.5	22.0	39.0	103.5	21	64	22	30	M22x1.5
SL12S-2.0	**SLW12S-2.0**	12	55	88.0	110.5	54.5	65.5	22.0	39.0	103.5	21	64	24	30	M22x1.5
SL16S-2.0	**SLW16S-2.0**	16	60	97.0	110.5	54.5	67.5	22.0	41.0	103.5	21	64	30	30	M22x1.5
SL20S-2.0	**SLW20S-2.0**	20	72	115.0	122.0	71.5	77	28.0	68.0	110	28	84	36	41	M26x1.5
SL25S-2.0	**SLW25S-2.0**	25	69	117.0	122.0	71.5	82.5	28.0	73.5	110	28	84	46	41	M26x1.5
SL30S-2.0	**SLW30S-2.0**	30	135	188.0	162.0	118.0	111	40.0	63.0	143	52	120	50	60	M42x2.0
SL38S-2.0	**SLW38S-2.0**	38	130	192.0	162.0	118.0	115	40.0	67.0	143	52	120	60	60	M42x2.0

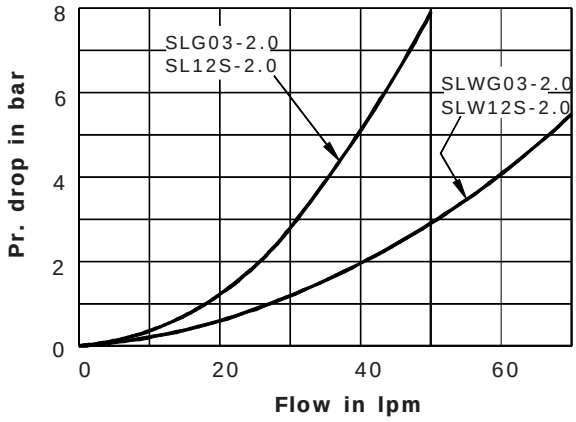
Technical Specifications

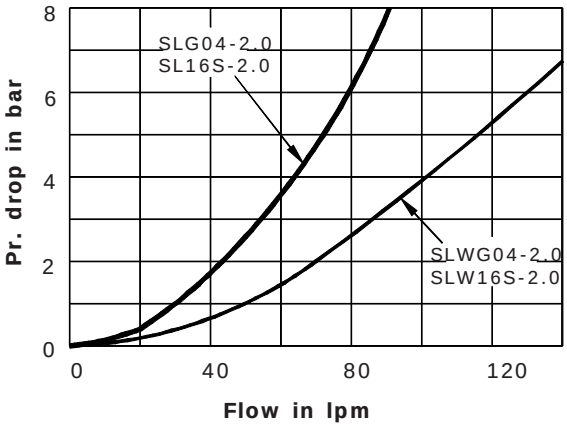
Construction	Seat type valve.
Mounting style	In-line or Right angle body, line mounted.
Mounting position	Optional.
Flow direction	As indicated by an arrow on valve body.
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +80 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

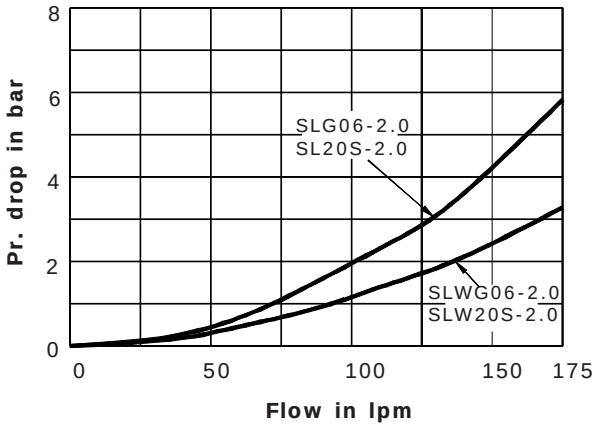
Performance Curves

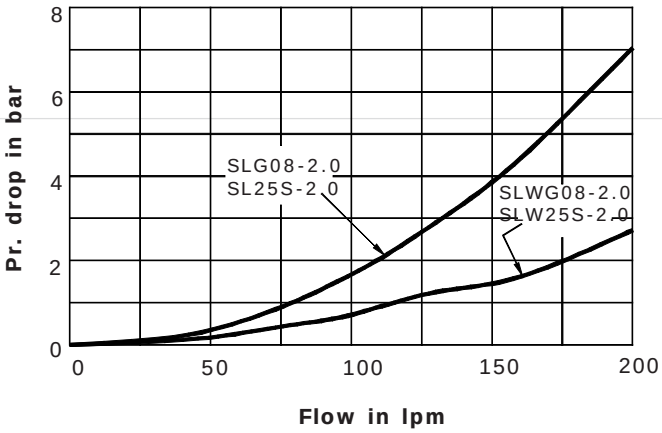
Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.

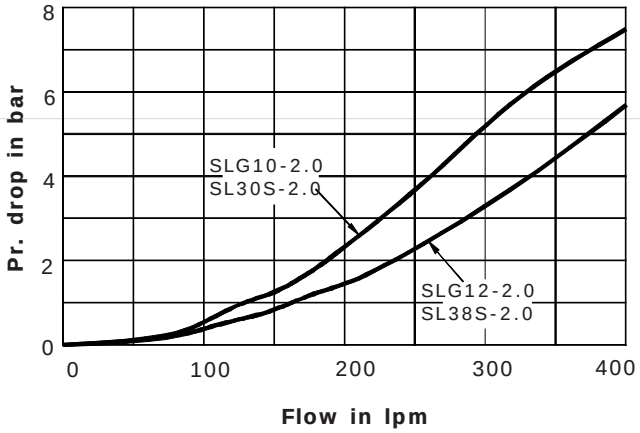










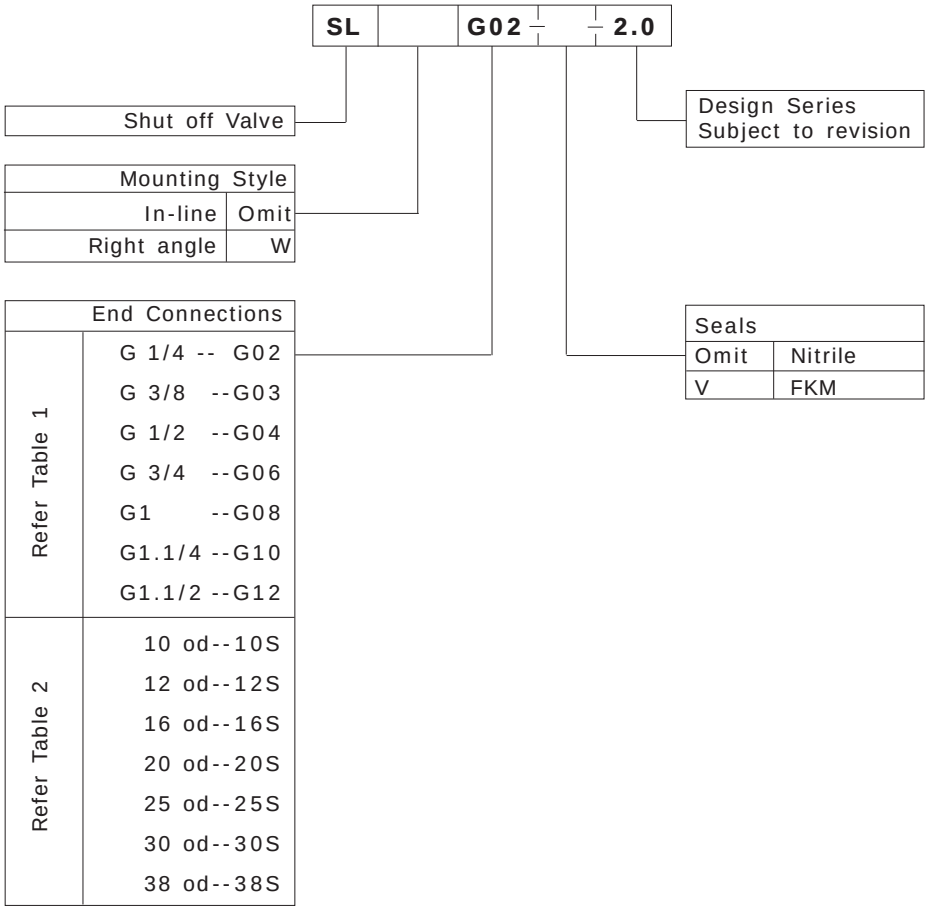


Shut off Valve - Inline and Right angle, Model : SLG, SLWG

Ref. No : H04343, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Ordering Code



Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-SLG04-2.0**

Shut off Valve, In-line flange mounting, Model : SLBF-J-25-2.0

Ref. No : H03322, Release March 2018 (Dimensions in mm)

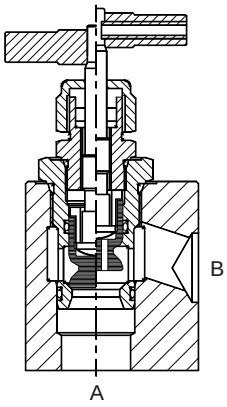
the right connection
the right environment

Description

These are seat type, rising spindle valves with balanced sealed poppet construction for easy closure or opening of the valve.

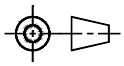
Inlet and outlet ports are provided with provision for mounting of flanges as per ISO 6162 bolt pattern.

Section



Hydraulic Symbol

Unit Dimensions



In-line flange mounting Valves - **SLBF**

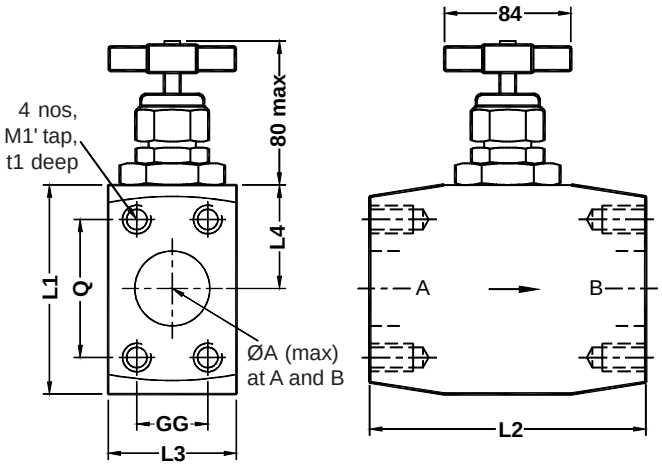


Table 1

Model Code	ØA	L1	L2	L3	L4
SLBF-J08L25-2.0	25	105	150	60	52.0
SLBF-J10L25-2.0	32	100	130	65	52.5
SLBF-J12L25-2.0	38	105	140	65	52.5

Model Code	Q	GG	M1	t1
SLBF-J08L25-2.0	52.4	26.2	M10 x 1.50	17
SLBF-J10L25-2.0	58.7	30.2	M10 x 1.50	17
SLBF-J12L25-2.0	69.9	35.7	M12 x 1.75	20

Right angle flange mounting Valves - **SLBWF**

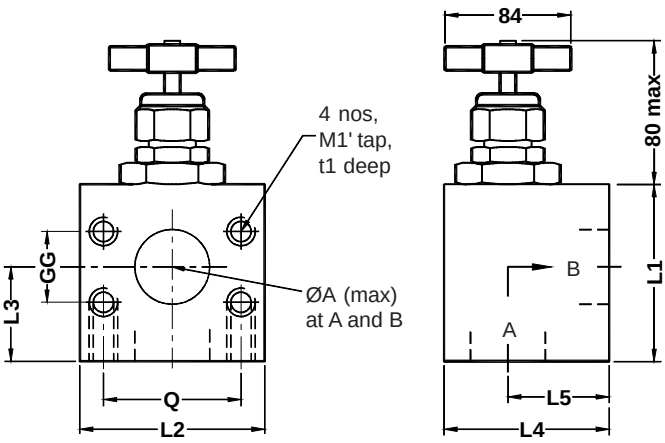


Table 2

Model Code	ØA	L1	L2	L3	L4	L5
SLBWF-J10L25-2.0	32	87.5	80	47.5	80	47.5
SLBWF-J12L25-2.0	38	93.5	94	51.5	84	51.5

Model Code	Q	GG	M1	t1
SLBWF-J10L25-2.0	58.7	30.2	M10 x 1.50	17
SLBWF-J12L25-2.0	69.9	35.7	M12 x 1.75	20

Shut off Valve, In-line flange mounting, Model : SLBF-J-25-2.0

Ref. No : H03322, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction . . . . . Sealed balanced poppet, seat type.

Mounting type . . . . . In line or right angle flange mounting, interface conforms to ISO 6162 bolt pattern.
(ISO 6164 bolt pattern flanges are also available on request)

Mounting position . . . . . Optional

Flow direction . . . . . From port `A' to port `B'.

Operating pressure . . . . . For, Size 1 1/4" - 276 bar
Size 1 1/2" - 200 bar

Hydraulic medium . . . . . Mineral oil.

Viscosity range . . . . . 10 cSt to 380 cSt.

Fluid temperature range . . . . . -20 °C to +70 °C.

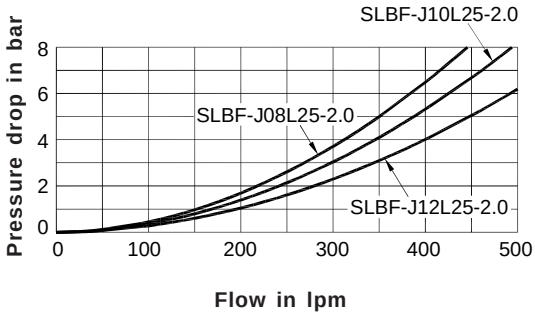
Fluid cleanliness requirement . . . . . As per ISO 19/16 or better.

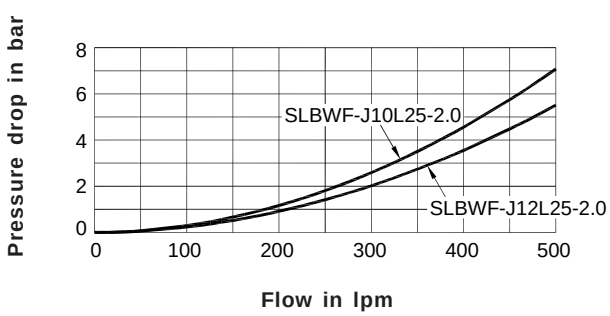
Mass . . . . . .Refer table below

Model Code	SLBF-J08L25-2.0	SLBF-J10L25-2.0	SLBF-J12L25-2.0	SLBWF-J10L25-2.0	SLBWF-J12L25-2.0
Mass in Kg	6.0	6.6	7.5	4.4	5.8

Maximum flow handling capacity . . . . . Refer graphs below.

Expected Performance Curves





Ordering Code

SLB	W	F	J	08	L	25	– 2.0

- **SLB** — Shut off Valve, Screw in cartridge (Balanced Piston)
- **W** — Mounting Style: Straight - **Omit**; Right Angle - **W**
- **F** — End Connection details: Flanged - **F**
- **J** — Mounting Flange Standard: ISO 6162 - **J**
- **08** — Flange Size: 1.0" - **08**; 1.1/4" - **10**; 1.1/2" - **12**
- **L** — Pressure series: **L** - Std Pressure; **S** - High Pressure
- **25** — Size (Valve): **25** - NG 25
- **Omit** — Seals: Omit Nitrile; V FKM
- **2.0** — Design Series Subject to revision

Shut off Valve, In-line flange mounting, Model : SLBF-J-✱-2.0

Ref. No : H04238, Release March 2018 (Dimensions in mm)

HYLOC
the right connection
the right environment

Description

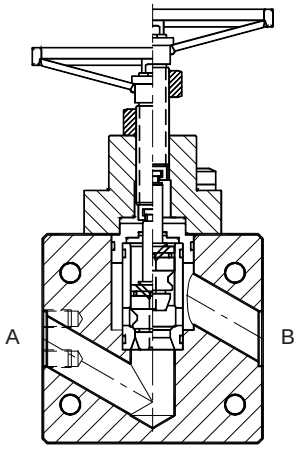
Seat type valve with replacable cartridge.
Balanced poppet construction to reduce operating forces.

Can also be used for throttling the flow.

Provision for locking the spindle in any set position.
(for throttling purpose).

Inlet and outlet ports are provided with provision for mounting of flanges as per ISO 6162 bolt pattern.

Section



Hydraulic Symbol

Unit Dimensions

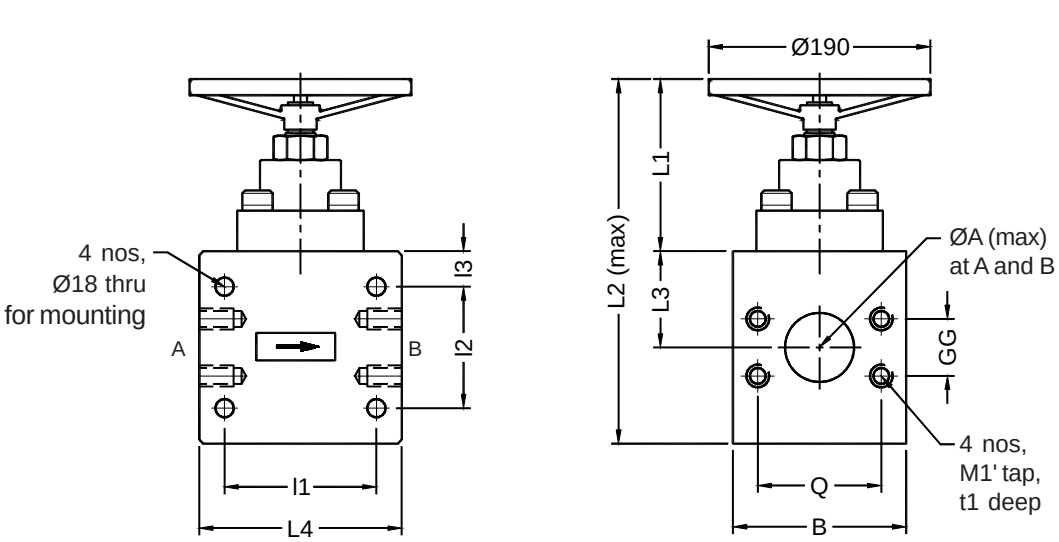


Table 1

Model Code	Flange Size	Pr (bar)	ØA	B	L1	L2	L3	L4	l 1	l 2	l 3	Q	GG	M1	t1
SLBF-J12S40-2.0	1.5" Code 62	410	38	135	183	408	95	200	160	120	35	79.3	36.5	M16x2.0	26
SLBF-J16S40-2.0	2.0" Code 62	410	50									96.8	44.5	M20x2.5	33
SLBF-J16L50-2.0	2.0" Code 61	200	50	145	188	448	115	250	190	160	30	77.8	42.9	M12x1.75	20
SLBF-J20L50-2.0	2.5" Code 61	200	60									88.9	50.8	M12x1.75	20
SLBF-J16S50-2.0	2.0" Code 62	410	50									96.8	44.5	M20x2.5	33

Shut off Valve, In-line flange mounting, Model : SLBF-J-⁎-2.0

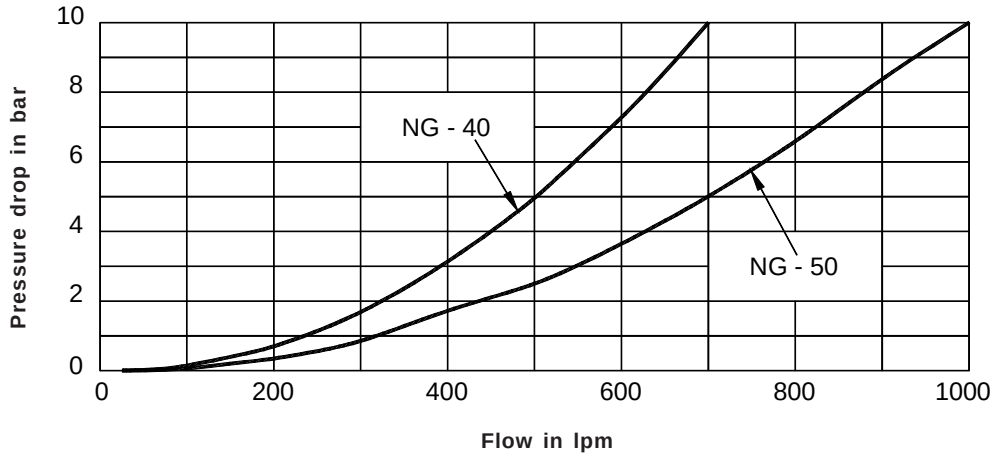
Ref. No : H04238, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction	Seat type valve with seals on poppet. Partially balanced.
Mounting type	In line flange mounting, interface conforms to ISO 6162 bolt pattern. (ISO 6164 bolt pattern flanges are also available on request)
Mounting position	Optional
Flow direction	From port `A' to port `B'.
Operating pressure	Refer Table 1
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 ºC to +70 ºC.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

Expected Performance Curves



Ordering Code

SLB	F	J	12	L	40	–	2.0

- **SLB** — Shut off Valve, Slip in cartridge (Balanced Piston)
- **F** — End Connection details: Flanged - **F**
- **J** — Mounting Flange Standard: ISO 6162 - **J**
- **12** — Flange Size: 1.1/2" - **12**; 2.0" - **16**; 2.1/2" - **20**
- **L** — Pressure series: **L** - Std Pressure; **S** - High Pressure
- **40** — Size (Valve): **40** - NG 40; **50** - NG 50
- (blank) — Seals: Omit Nitrile; V FKM
- **2.0** — Design Series Subject to revision

Shut off Valve, In-line flange mounting, Model : SLBF-A/D-⁎-2.0

Ref. No : H04181, Release March 2018 (Dimensions in mm)

HYLOC
the right connection
the right environment

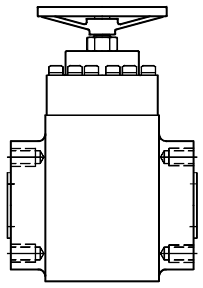
Description

Seat type valve with replacable cartridge.
Balanced poppet construction to reduce operating forces.

Can also be used for throttling the flow.

Provision for locking the spindle in any set position.
(for throttling purpose).

Inlet and outlet ports are provided with provision for mounting of flanges as per ANSI B16.5 and DIN 2628 (250 bar) flanges.



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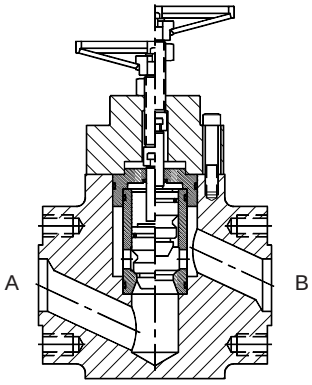


Hydraulic Symbol

Unit Dimensions

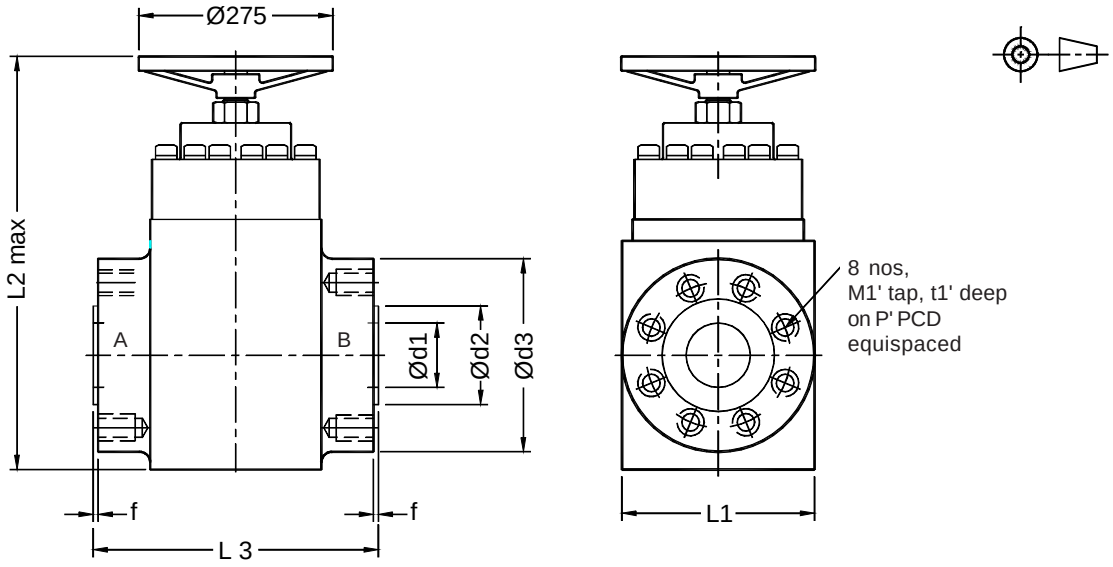


Table 1

Model Code	Flange Standard	Flange Size	Pr (bar)	Ød1	Ød2	Ød3	M1	t1	ØP	f	L1	L2	L3
SLBF-A63-2.0	ANSI B16.5	DN65	250	72	160	245	M27x3.0	41	190.5	7	245	547	350
SLBF-D63-2.0	DIN 2628	NB 65		60	122		M24x3.0	36	180.0	3			
SLBF-A80-2.0	ANSI B16.5	DN 80		90	180	270	M30x3.5	45	203.0	7	270	638	400
SLBF-D80-2.0	DIN 2628	NB 80		78	138		M27x3.0	41	200.0	3			
SLBF-A100-2.0	ANSI B16.5	DN 100		110	195	310	M33x3.5	50	241.5	7	310	785	520
SLBF-D100-2.0	DIN 2628	NB 100		98	162		M30x3.5	45	235.0	3			

Shut off Valve, In-line flange mounting, Model : SLBF-A/D-⁎-2.0

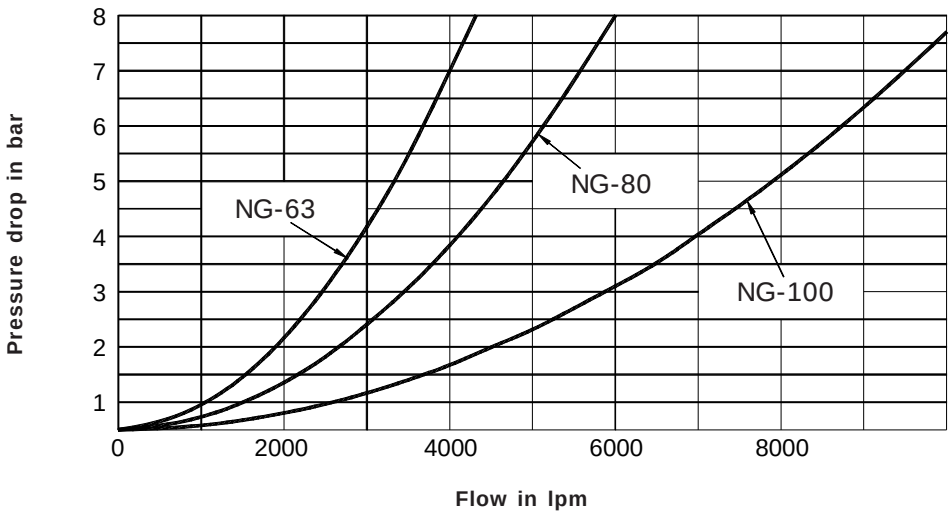
Ref. No : H04181, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction	Seat type valve with seals on poppet. Partially balanced.
Mounting type	In line flange mounting as per ANSI B16.5 and DIN 2628
Mounting position	Optional
Flow direction	From port `A' to port `B'.
Operating pressure	250 bar
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 ºC to +70 ºC.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

Expected Performance Curves



Ordering Code

SLB	F	A	63	-2.0

- SLB: Shut off Valve, Slip in cartridge (Balanced Piston)
- F: End Connection details — Flanged - **F**
- A: Mounting Flange Standard — ANSI B16.5 - **A**; DIN 2628 - **D**
- 63: Valve Size — NG 63- **63**; NG 80 - **80**; NG 100 - **100**
- -2.0: Design Series Subject to revision
- Seals — Omit: Nitrile; V: FKM

Shut off Valve, Sub-plate mounting, Model : MHSL

Ref. No : H04087, Release March 2018 (Dimensions in mm)

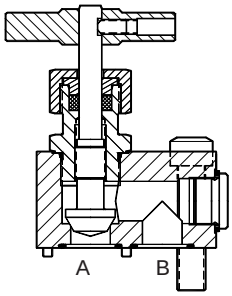
HYLOC
the right connection
the right environment

Description

Shut off valves model MHSL are rising spindle,seat type valves with metal seat for leak-free closure between it's port `A' & `B'.

The mounting interface conforms to Factory standard. Bi-directional flow is possible in this model.

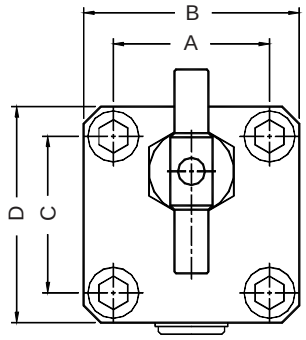
Section

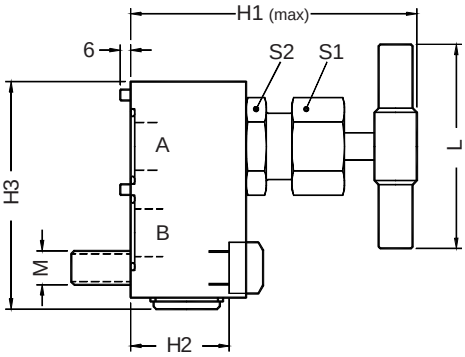


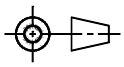
Hydraulic Symbol

Unit Dimensions

Valve







Model Code	A	B	C	D	H1	H2	H3	L	S1	S2	Valve fixing screws	
											M	Tightening Torque
MHSL11-2.0	47.8	65	60.5	78	106	35	79	64	27	27	M10x50L	16Nm
MHSL19-2.0	65.0	97	81.0	113	135	26	118	84	32	32	M16x50L	117Nm
MHSL28-2.0	92.0	127	92.0	127	186	60	131	120	50	50	M20x90L	238Nm

Technical Specifications

Construction . . . . . Seat type.

Mounting type . . . . . Sub-plate mounting type.

Interface . . . . . Factory standard.

Flow direction . . . . . From port `A' to port `B'.

Operating pressure . . . . . 350 bar.

Hydraulic medium . . . . . Mineral oil.

Viscosity range . . . . . 10 cSt to 380 cSt.

Fluid temperature range . . . . . -20 °C to +70 °C

Fluid cleanliness requirement . . . . . As per ISO 19/16 or better.

Mass . . . . . **MHSL11-2.0** - 1.5 kg.

MHSL19-2.0 - 3.6 kg.

MHSL28-2.0 - 8.5 kg.

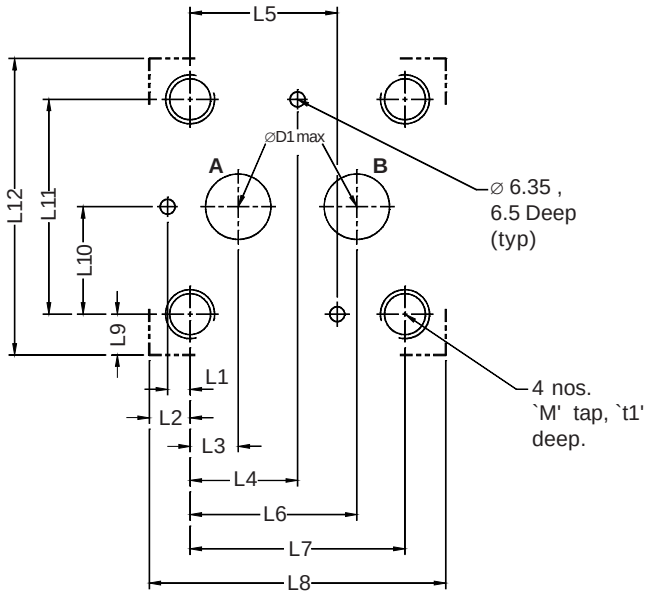
Maximum flow handling capacity . . . . . Refer graph.

Shut off Valve, Sub-plate mounting, Model : MHSL

Ref. No : H04087, Release March 2018 (Dimensions in mm)

the right connection
the right environment

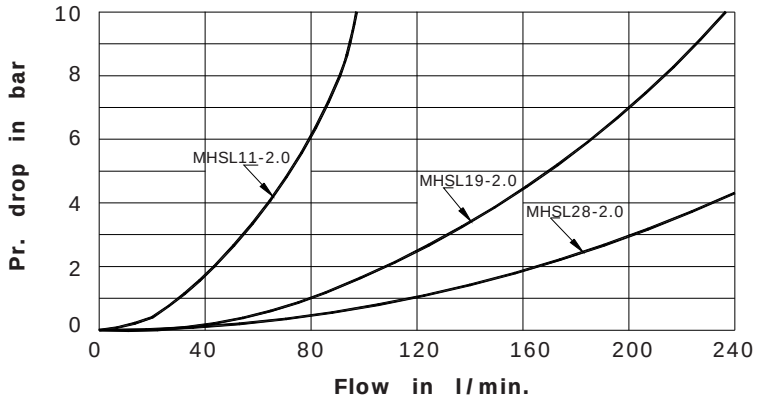
Interface - Factory standard



Model Code	ØD1	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	M	t1
MHSL11-2.0	11.0	--	8.6	12.7	30.3	47.8	47.8	60.5	78	8.6	23.9	47.8	65	M10	15
MHSL19-2.0	19.0	8.70	16.0	22.2	40.5	--	68.3	81.0	113	16.0	32.5	65.0	97	M16	24
MHSL28-2.0	28.0	9.65	17.5	20.6	46.0	--	71.4	92.0	127	17.5	46.0	92.0	127	M20	30

Performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.



Ordering Code

M	H	SL	11 –	–	2.0

- M — Manifold mounting
- H — Factory Standard Interface
- SL — Shut off Valve
- 11 — Size: DN 11 - 11; DN 19 - 19; DN 28 - 28
- Seals: Omit — Nitrile; V — FKM
- 2.0 — Design Series Subject to revision

Note : Add prefix 316 to the existing part code for SS 316 valves.
e.g. **316-MHSL11-2.0**

Shut off Valve - Sub-plate mounting, Model : MSSL06-2.0

Ref. No : H02651, Release March 2018 (Dimensions in mm)

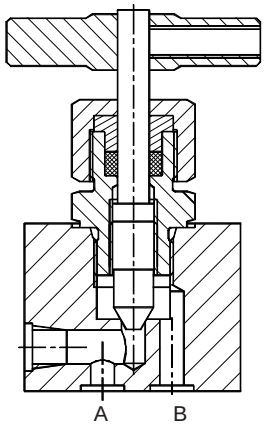
the right connection
the right environment

Description

Shut off valves model MSSL06-2.0 are rising spindle,seat type valves with metal to metal seat for leak-free closure between it's port `A' and port `B'.

The mounting interface confirms to ISO 5781 - AB - 03 - 4 - B.

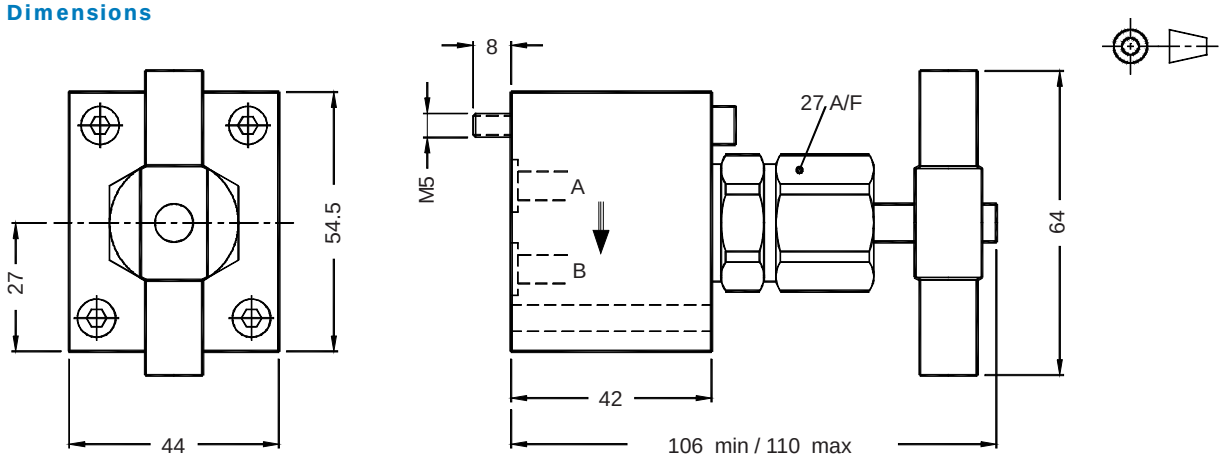
Section



Hydraulic Symbol

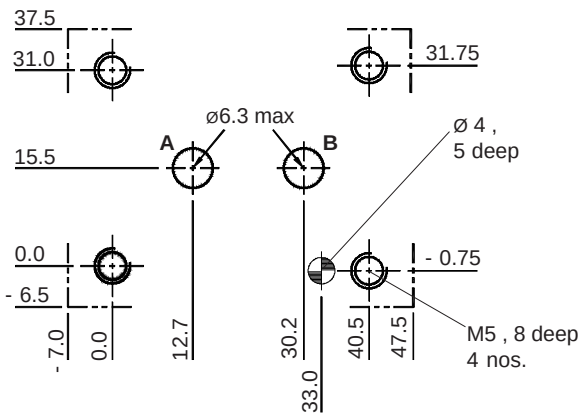
Unit Dimensions

Valve



Note : Valve fixing screws : M5 x 50 L, (10.9) 4 nos.
Tightening torque : 9 Nm

Interface - as per ISO 5781 - AB - 03 - 4 - B standard



Mounting Surface roughness : 0.8 µm
Mounting Surface flatness : 0.01 µm/100 mm

Shut off Valve - Sub-plate mounting, Model : MSSL06-2.0

Ref. No : H02651, Release March 2018 (Dimensions in mm)

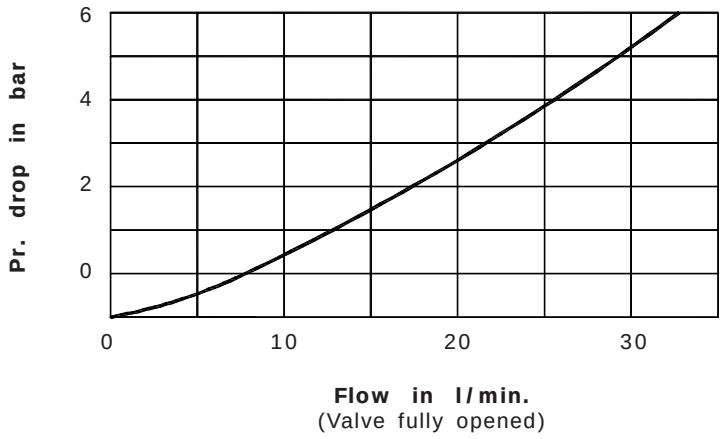
the right connection
the right environment

Technical Specifications

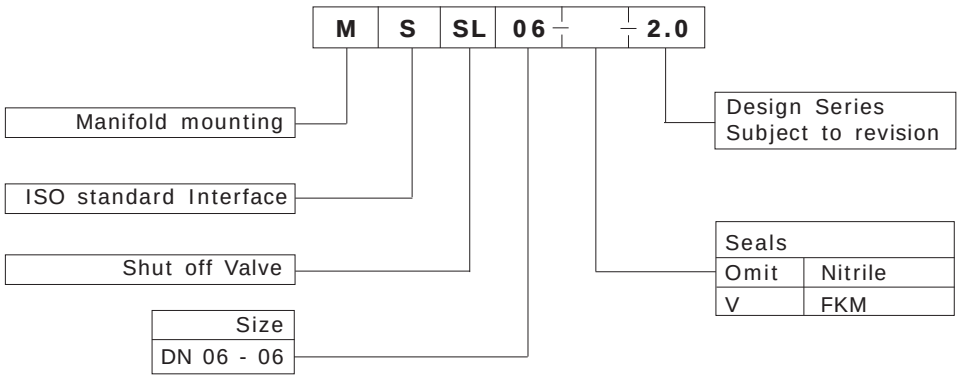
Construction	Seat type.
Mounting type	Sub-plate mounting type.
Interface	ISO 5781 - AB - 03 - 4 - B.
Mounting position	Optional
Flow direction	From port `A' to port `B'.
Operating pressure	315 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +80 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Mass	0.9 kg.
Maximum flow handling capacity	Refer graph.

Performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.



Ordering Code



Shut off Valve (Screw-in Cartridge), Sub-plate mounting, Model : MHSLB25-2.0

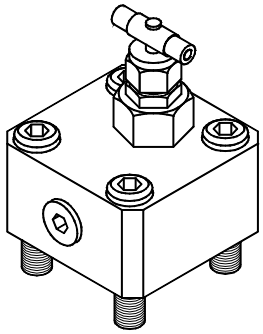
Ref. No : H03656, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Description

Shut off valves model MHSLB25-2.0 are seat type valves with replacable cartridge. Balanced sealed poppet construction to reduce operating forces.

Sub - plate mounting construction (Factory standard Interface.)



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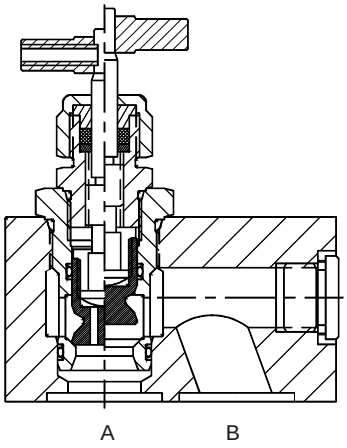
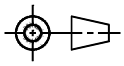
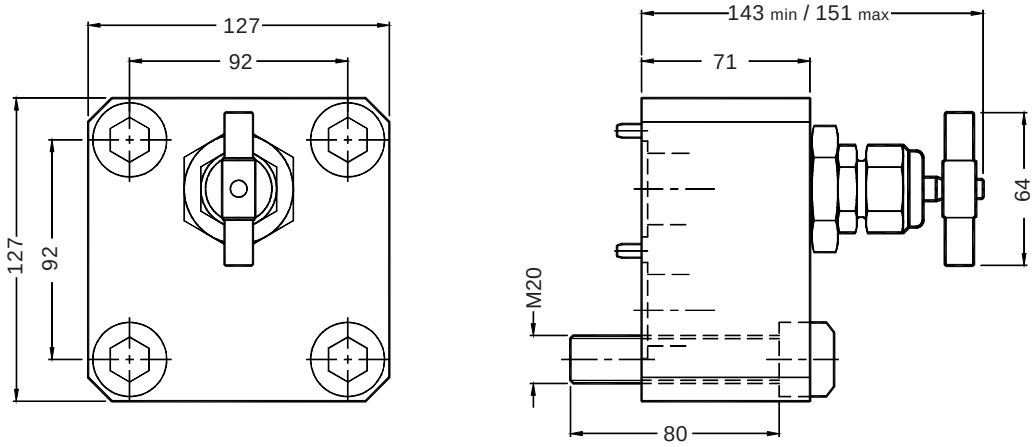


Hydraulic Symbol

Unit Dimensions





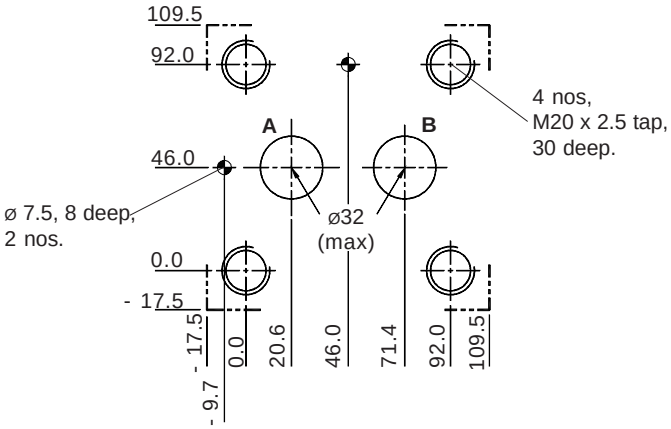
Note : Valve fixing screws : M20 x 2.5 x 80 L, (10.9) 4 nos.
Tightening torque : 312 Nm

Shut off Valve (Screw-in Cartridge), Sub-plate mounting, Model : MHSLB25-2.0

Ref. No : H03656, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Interface - Factory standard



Mounting surface roughness - 0.8 µm

Mounting surface flatness - 0.01µm / 100mm

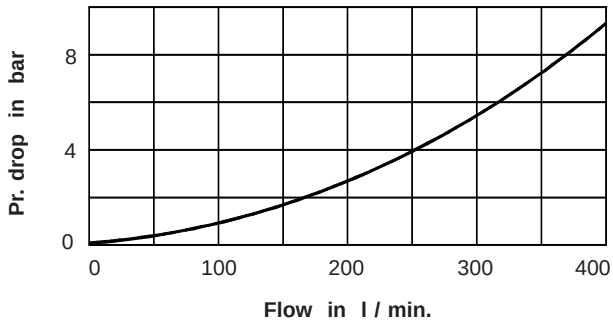
Technical Specifications

Construction	Seat type screw in cartidge
Mounting type	Sub-plate mounting type.
Interface	Factory standard.
Mounting position	Optional
Flow direction	From port `A' to port `B'.
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +80 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

Oil used : ISO VG 68,

Viscosity : 68 cSt @ 40 °C

Test conducted at : 50 °C.



Ordering Code

M	H	SLB	25 –	– 2.0

- Sub-plate mounting
- Factory Standard Interface
- Shut off Valve, Screw in cartridge (Balanced Piston)
- Size: NG 25 - **25**
- Seals: Omit – Nitrile; V – FKM
- Design Series Subject to revision

Shut off Valve, Sub-plate mounting, Model : MHSLB

Ref. No : H04058, Release March 2018 (Dimensions in mm)

HYLOC
the right connection
the right environment

Description

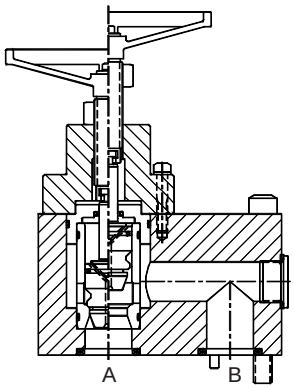
Seat type valve with replacable cartridge.
Balanced poppet construction to reduce operating forces.

Can also be used for throttling the flow.

Provision for locking the spindle in any set position
(for throttling purpose).

Sub - plate mounting construction (Factory standard).

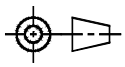
Section

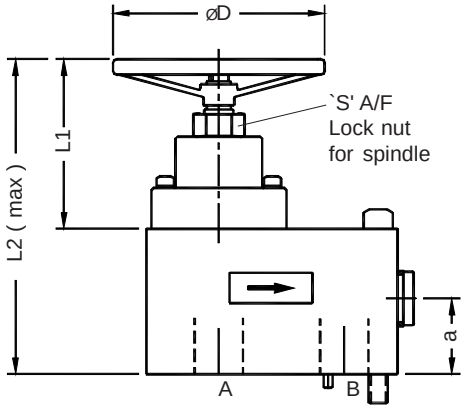


Hydraulic Symbol

Unit Dimensions

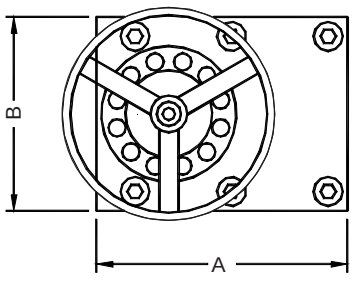
Valve





Model Code	Size	A	B	L1	L2	ØD	a	S
MHSLB40-2.0	**40**	173	180	183	344	190	62	46
MHSLB50-2.0	**50**	260	200	188	378	190	78	46
MHSLB63-2.0	**63**	275	240	219	449	275	160	55
MHSLB80-2.0	**80**	355	305	228	523	275	164	55

Model Code	Valve Fixing Screws (Grade)	Tightening Torque
MHSLB40-2.0	M16x2.0x150 Long, 6 nos (10.9)	240 Nm
MHSLB50-2.0	M20x2.5x180 Long, 6 nos (12.9)	488 Nm
MHSLB63-2.0	M20x2.5x190 Long, 8 nos (12.9)	650 Nm
MHSLB80-2.0	M24x3.0x200 Long, 8 nos (12.9)	1100 Nm



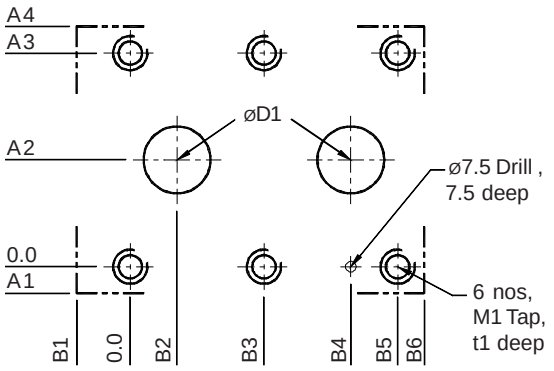
Shut off Valve, Sub-plate mounting, Model : MHSLB

Ref. No : H04058, Release March 2018 (Dimensions in mm)

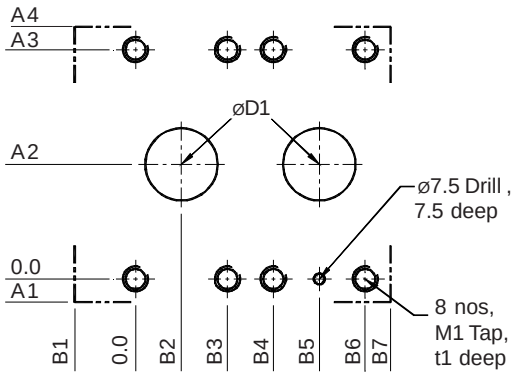
the right connection
the right environment

Interface - Factory standard

NG 40 and NG 50



NG 63 and NG 80

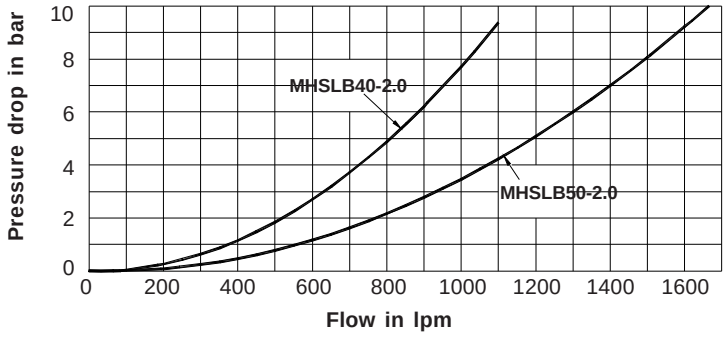


Model Code	ØD1	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6	B7	M1	t1
MHSLB40-2.0	40	15.0	75	150	165	43	20	55	90	110	130	--	M16x2.0	24
MHSLB50-2.0	50	20.0	80	160	180	40	35	100	165	200	220	--	M20x2.5	30
MHSLB63-2.0	63	20.0	100	200	220	53	40	80	120	160	200	222	M20x2.5	30
MHSLB80-2.0	76	22.5	130	260	282.5	67	55	110	155	210	265	288	M24x3.0	37

Technical Specifications

Construction · · · · · · · · · · · · · · · Seat type valve with seals on poppet. Partially balanced.
Mounting type · · · · · · · · · · · · · · · Sub-plate mounting construction conforming to factory standard.
Mounting position · · · · · · · · · · · · · Optional
Flow direction · · · · · · · · · · · · · · · From port `A' to port `B'.
Operating pressure · · · · · · · · · · · · · 400 bar.
Hydraulic medium · · · · · · · · · · · · · · Mineral oil.
Viscosity range · · · · · · · · · · · · · · · 10 cSt to 380 cSt.
Fluid temperature range · · · · · · · · · · · -20 °C to +70 °C.
Fluid cleanliness requirement · · · · · · · · As per ISO 19/16 or better.
Maximum flow handling capacity · · · · · · · Refer graph.

Expected performance
With oil viscosity of 68 cSt



Ordering Code

M	H	SLB	40 –	– 2.0

Manifold mounting

Factory Standard Interface

Shut off Valve, Balanced Piston

Size
NG 40 - **40**
NG 50 - **50**
NG 63 - **63**
NG 80 - **80**

Design Series
Subject to revision

Seals	
Omit	Nitrile
V	FKM

Needle Valve - Cartridge, Model : KHNL

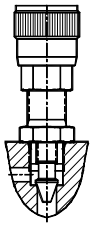
Ref. No : H03082, Release March 2018 (Dimensions in mm)

the right connection
the right environment

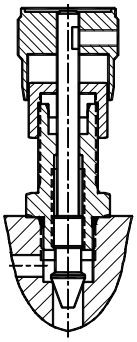
Description

Cartridge type Needle valves model KHNL are rising spindle, seat type valves with metal seat for leak-free closure between it's port `A' & `B'.

The mounting cavity confirms to Factory standard.



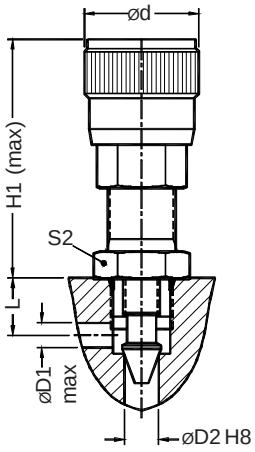
Section



Hydraulic Symbol

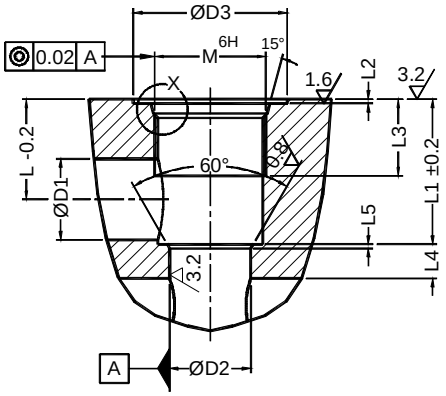
Unit Dimensions

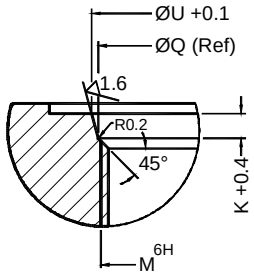
Valve



Model Code	Size	L	H1	ØD1	ØD2	Ød	S2
KHNL08-2.0	**8**	18	85.5	11	8	37	27
KHNL11-2.0	**11**	18	85.5	11	11	37	27
KHNL14-2.0	**14**	23	87.0	19	14	48	32
KHNL19-2.0	**19**	23	87.0	19	19	48	32
KHNL28-2.0	**28**	33	108.5	28	28	68	50

Cavity machining details





Model Code	ØD1	ØD2	ØD3	L	L1	ØU	ØQ	L2	L3	L4	L5	K	M
KHNL08-2.0	10	8	31.0	18	24	21.8	20.5	0.2	16	3	0.5	2.4	M20x1.5
KHNL11-2.0	10	11	31.0	18	24	21.8	20.5	0.2	16	3	0.5	2.4	M20x1.5
KHNL14-2.0	19	14	36.0	23	33	27.8	26.5	0.2	18	5	1.0	2.4	M26x1.5
KHNL19-2.0	19	19	36.0	23	33	27.8	26.5	0.2	18	5	1.0	2.4	M26x1.5
KHNL28-2.0	28	28	54.5	33	51	44.4	42.7	1.0	24	7	1.5	3.1	M42x2.0

Needle Valve - Cartridge, Model : KHNL

Ref. No : H03082, Release March 2018 (Dimensions in mm)

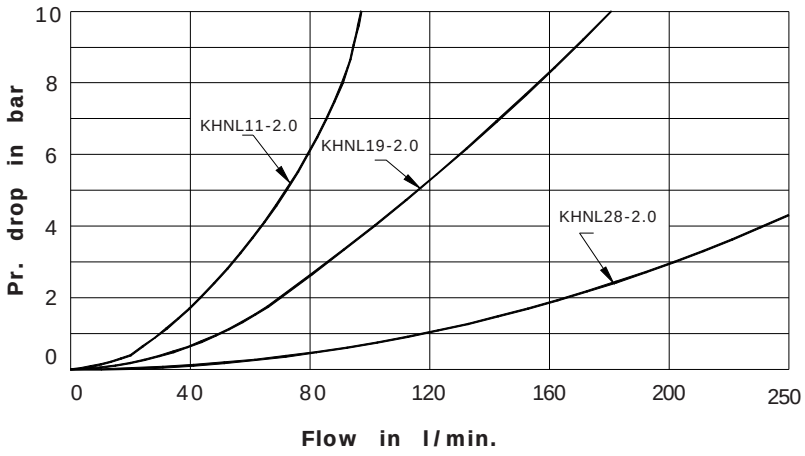
the right connection
the right environment

Technical Specifications

Construction	Seat type valve.
Mounting	Insert in cavity conforming to factory standard.
Mounting position	Optional.
Flow direction	From port `A' to port `B'.
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +70 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

Expected performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.



Ordering Code

K	H	NL	08	–	–	2.0

- K — Screw in Cartridge
- H — Factory Standard Cavity
- NL — Needle Valve
- 08 — Size: DN 08 - 08, DN 11 - 11, DN 14 - 14, DN 19 - 19, DN 28 - 28
- 2.0 — Design Series, Subject to revision
- Seals: Omit — Nitrile; V — FKM

Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-KHNL08-2.0**

Needle Valve - Inline and Right angle

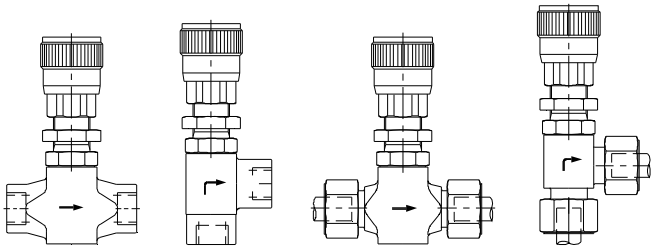
Ref. No : H02310, Release Mar 2018 (Dimensions in mm)

the right connection
the right environment

Description

Needle valve model NL, NLW are two way, seat type valves.

These are used for isolating the oil flow in the direction as indicated by an arrow mark shown on the valve body.



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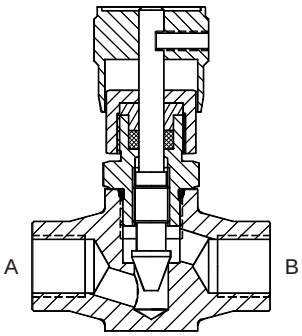
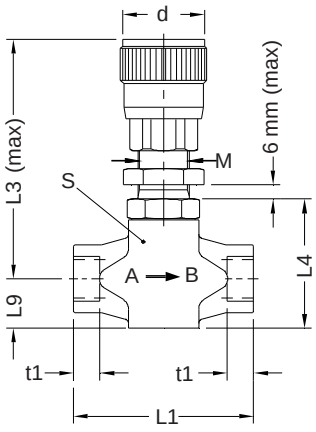


Hydraulic Symbol

Unit Dimensions

In - line and Right angle bodies (With BSP ports)



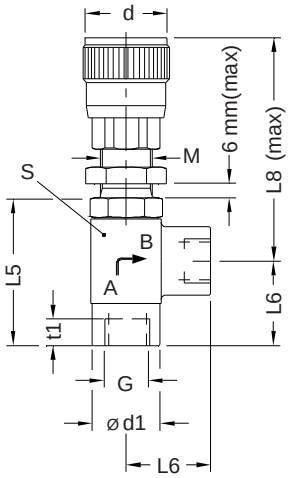


Table 1

Model Code In-line	Model Code Right angle	G	L1	L3	L4	L5	L6	L8	L9	d	t1	S	M
NLG02-2.0	NLWG02-2.0	G 1/4	70	110.5	54.5	56.5	30	103.5	21.0	37	14	30	M22x1.5
NLG03-2.0	NLWG03-2.0	G 3/8	70	110.5	54.5	56.5	30	103.5	21.0	37	14	30	M22x1.5
NLG04-2.0	NLWG04-2.0	G 1/2	77	110.5	54.5	62.5	36	103.5	21.0	37	17	30	M22x1.5
NLG06-2.0	NLWG06-2.0	G 3/4	93	122.0	71.0	77.0	45	110.0	27.0	48	17	36	M26x1.5
NLG08-2.0	NLWG08-2.0	G1	93	122.0	72.0	77.0	45	110.0	27.0	48	18	46	M26x1.5
NLG10-2.0	NLWG10-2.0	G1.1/4	162	162.0	105.0	113.0	65	143.0	51.5	68	22	60	M42x2.0
NLG12-2.0	NLWG12-2.0	G1.1/2	162	162.0	105.0	113.0	65	143.0	51.5	68	24	60	M42x2.0

Unit Dimensions

In - line and Right angle bodies (With Tube ends)

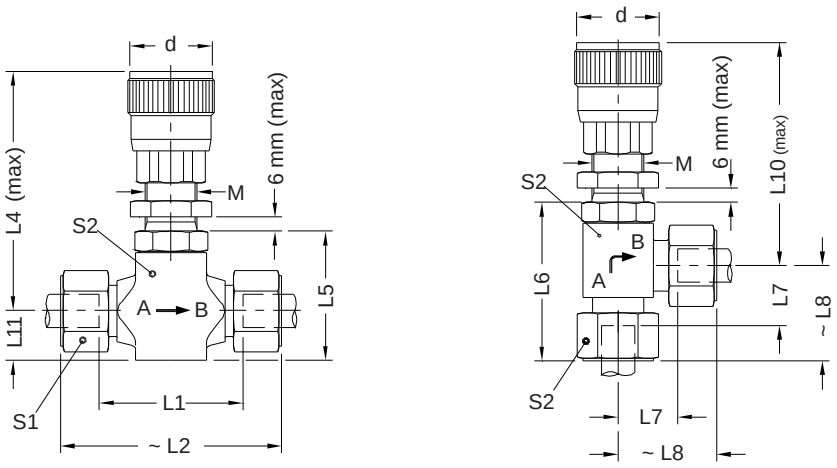


Table 2

Model Code In-line	Model Code Right angle	Tube OD	L1	L2	L4	L5	L6	L7	L8	L10	L11	d	S1	S2	M
NL10S-2.0	**NLW10S-2.0**	10	55	88.0	110.5	54.5	65.5	22.0	39.0	103.5	21	37	22	30	M22x1.5
NL12S-2.0	**NLW12S-2.0**	12	55	88.0	110.5	54.5	65.5	22.0	39.0	103.5	21	37	24	30	M22x1.5
NL16S-2.0	**NLW16S-2.0**	16	60	97.0	110.5	54.5	67.5	22.0	41.0	103.5	21	37	30	30	M22x1.5
NL20S-2.0	**NLW20S-2.0**	20	72	115.0	122.0	71.5	77.0	28.0	68.0	110.0	28	48	36	41	M26x1.5
NL25S-2.0	**NLW25S-2.0**	25	69	117.0	122.0	71.5	82.5	28.0	73.5	110.0	28	48	46	41	M26x1.5
NL30S-2.0	**NLW30S-2.0**	30	135	188.0	162.0	118.0	111.0	40.0	63.0	143.0	52	68	50	60	M42x2.0
NL38S-2.0	**NLW38S-2.0**	38	130	192.0	162.0	118.0	115.0	40.0	67.0	143.0	52	68	60	60	M42x2.0

Technical Specifications

Construction . . . . . Seat type valve.

Mounting style . . . . . In-line or Right angle body, line mounted.

Mounting position . . . . . Optional.

Flow direction . . . . . As indicated by an arrow on valve body.

Operating pressure . . . . . 350 bar.

Hydraulic medium . . . . . Mineral oil.

Viscosity range . . . . . 10 cSt to 380 cSt.

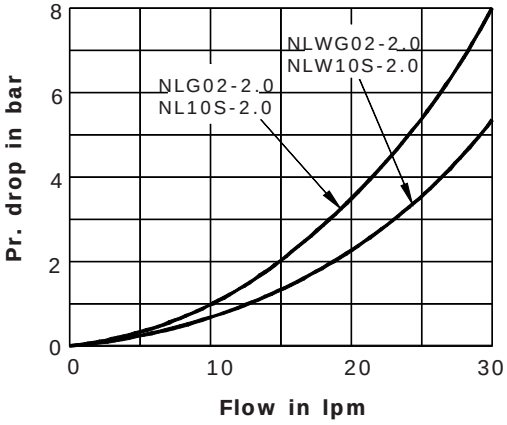
Fluid temperature range . . . . . -20 °C to +80 °C.

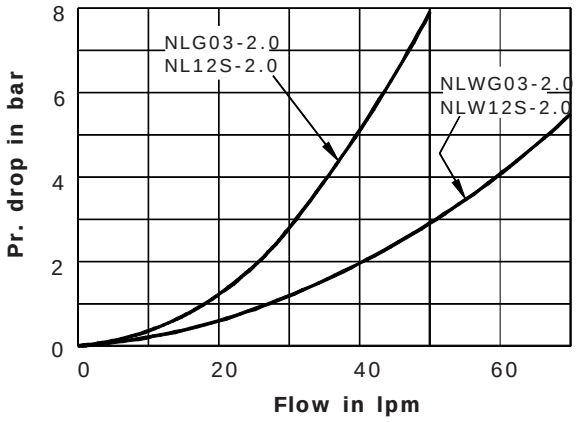
Fluid cleanliness requirement . . . . . As per ISO 19/16 or better.

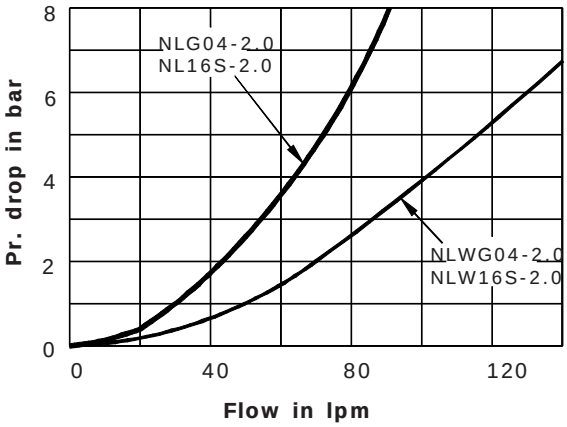
Maximum flow handling capacity . . . . . Refer graph.

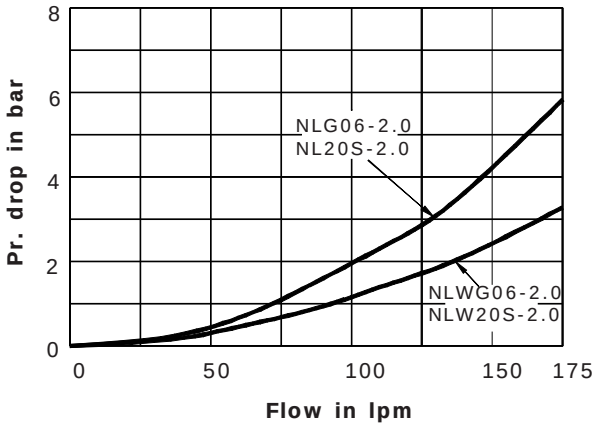
Performance Curves

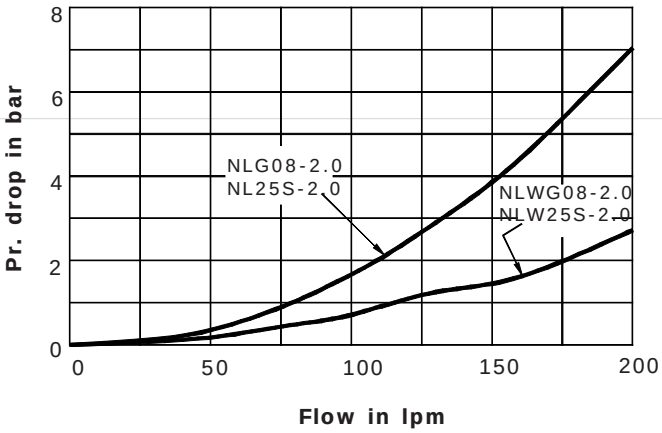
Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.

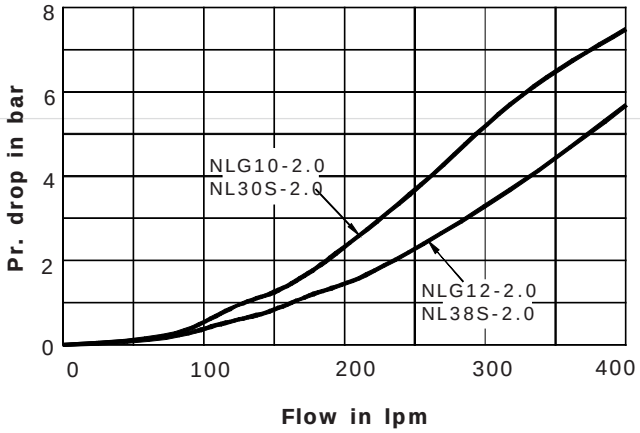




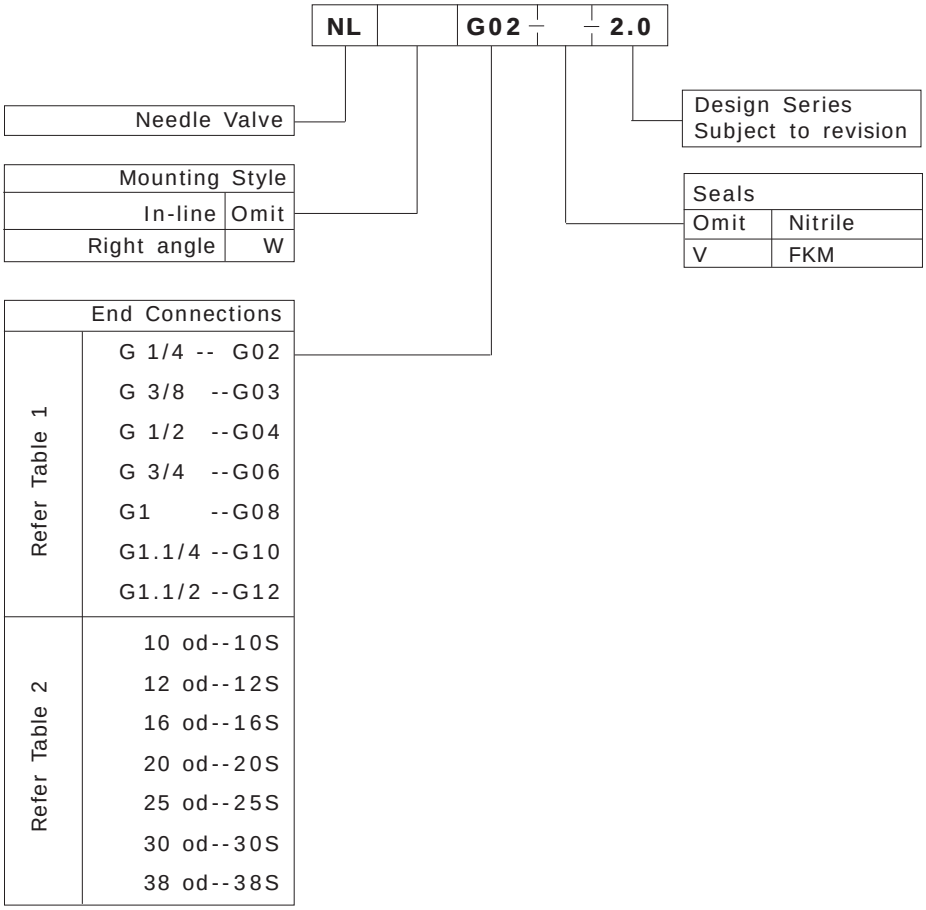








Ordering Code



Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-NLG04-2.0**

Needle Valve - Sub-plate mounting, Model : MHNL

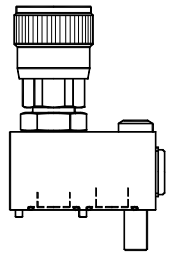
Ref. No : H02758, Release March 2018 (Dimensions in mm)

HYLOC
the right connection
the right environment

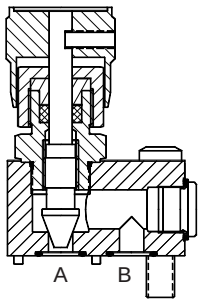
Description

Needle valves model MHNL are rising spindle, seat type valves with taper needle construction.

The mounting interface conforms to Factory standard.



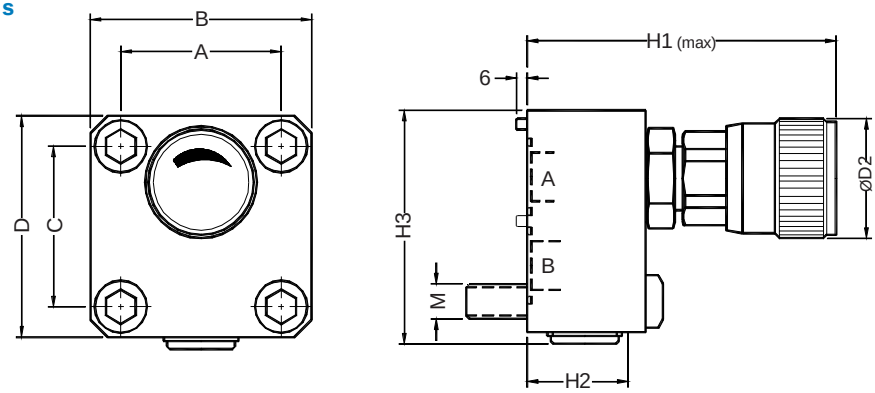
Section



Hydraulic Symbol

Unit Dimensions

Valve



Model Code	A	B	C	D	H1	H2	H3	ØD2	Valve fixing screws (10.9)	
									M	Tightening Torque
MHNL11-2.0	47.8	65	60.5	78	116.0	33.0	79	37	M10x50L	16Nm
MHNL19-2.0	65.0	97	81.0	113	140.0	22.2	118	48	M16x50L	117Nm
MHNL28-2.0	92.0	127	92.0	127	156.5	58.0	131	68	M20x90L	238Nm

Unit Dimensions

Construction . . . . . Seat type.

Mounting type . . . . . Sub-plate mounting type.

Interface . . . . . Factory standard.

Flow direction . . . . . From port `A' to port `B'.

Operating pressure . . . . . 350 bar.

Hydraulic medium . . . . . Mineral oil.

Viscosity range . . . . . 10 cSt to 380 cSt.

Fluid temperature range . . . . . -20 ºC to +70 ºC

Fluid cleanliness requirement . . . . . As per ISO 19/16 or better.

Mass . . . . . **MHNL11-2.0** - 1.5 kg.
MHNL19-2.0 - 3.6 kg.
MHNL28-2.0 - 8.5 kg.

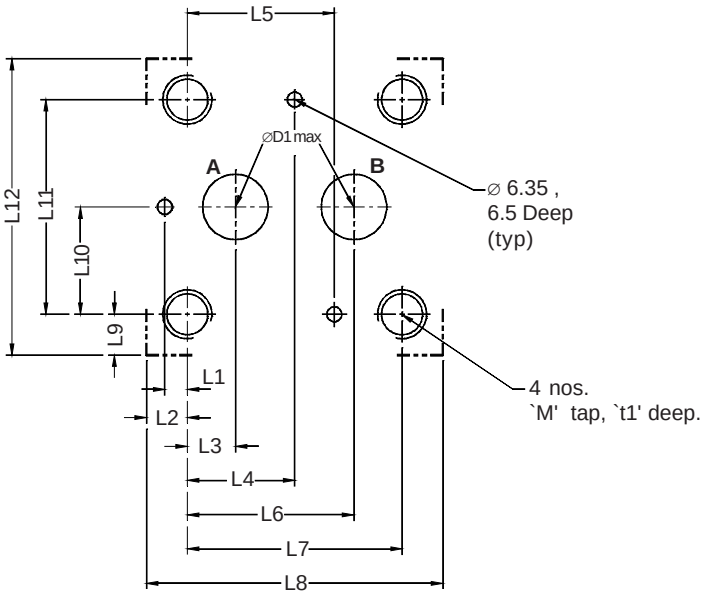
Maximum flow handling capacity . . . . . Refer graph.

Needle Valve - Sub-plate mounting, Model : MHNL

Ref. No : H02758, Release March 2018 (Dimensions in mm)

the right connection
the right environment

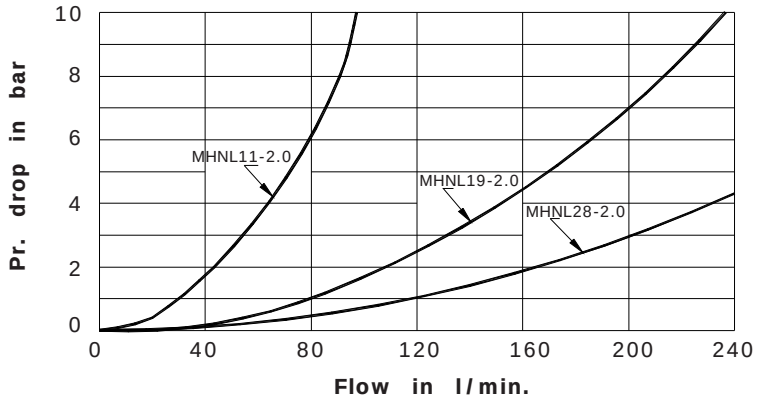
Interface - Factory standard



Model Code	ØD1	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	M	t1
MHNL11-2.0	11.0	--	8.6	12.7	30.3	47.8	47.8	60.5	78	8.6	23.9	47.8	65	M10	15
MHNL19-2.0	19.0	8.70	16.0	22.2	40.5	--	68.3	81.0	113	16.0	32.5	65.0	97	M16	24
MHNL28-2.0	28.0	9.65	17.5	20.6	46.0	--	71.4	92.0	127	17.5	46.0	92.0	127	M20	30

Performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Test conducted at : 50 °C.



Ordering Code

M	H	NL	11	–	–	2.0

- M — Manifold mounting
- H — Factory Standard Interface
- NL — Needle Valve
- 11 — Size: DN 11 - 11; DN 19 - 19; DN 28 - 28
- Seals: Omit — Nitrile; V — FKM
- 2.0 — Design Series, Subject to revision

Note : Add prefix 316 to the existing part code for SS 316 valves.
e.g. **316-MHNL11-2.0**

Check Valve - Screw in Cartridge (ISO 7789-1998)

Ref. No : H06925, Release March 2018 (Dimensions in mm)

HYLOC
the right connection
the right environment

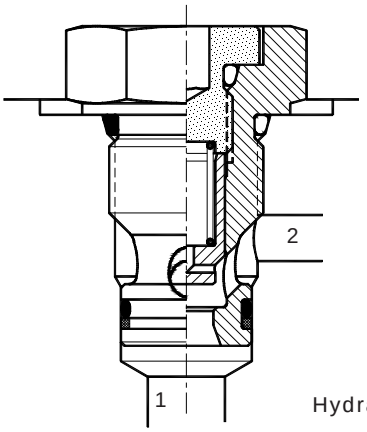
Description

KSC check valves are two port screw-in cartridge valves that are designed to fit in a cavity confirming to ISO 7789 : 1998 (E).

These are seat type valves, available in four different sizes and with five different cracking pressures in each size.

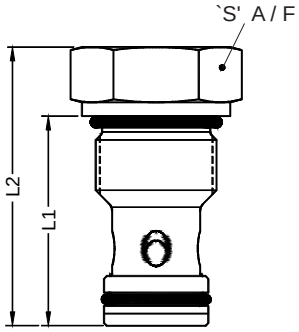
Check valves allow free flow in one direction while providing leak-free closure in reverse direction

Section



Hydraulic Symbol

Unit Dimensions



Size	Threads	Torque
20-01-0-98	M20	140 Nm
22-01-0-98	M22	150 Nm
33-01-0-98	M33	350 Nm
42-01-0-98	M42	500 Nm

Size	L1	L2	S
20-01-0-98	30.0	41.5	27
22-01-0-98	38.0	52.5	27
33-01-0-98	49.5	81.5	41
42-01-0-98	55.0	91.0	50

Technical Specifications

Construction . . . . . Poppet seat type.

Mounting style . . . . . Screw-in cavity as per ISO : 7789 : 1998 (E)

Mounting position . . . . . Optional

Flow direction . . . . . Free flow from 1 to 2

Operating pressure . . . . . 350 bar

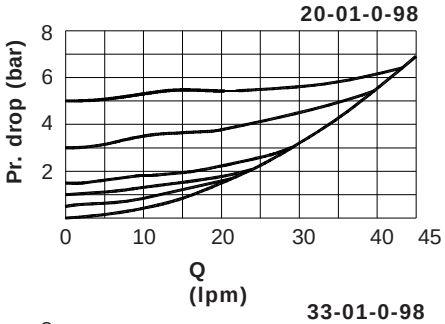
Hydraulic medium . . . . . Mineral Oil.

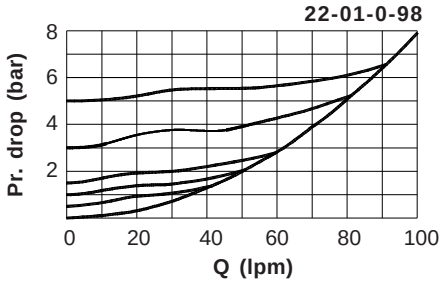
Viscosity range . . . . . 10 cSt to 380 cSt.

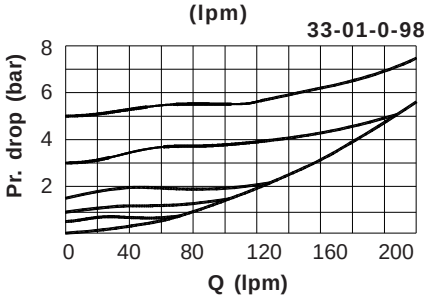
Fluid temperature range . . . . . -20 ºC to +80 ºC

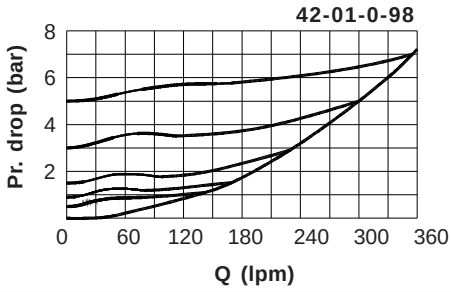
Fluid Cleanliness requirement . . . . . As per ISO 19/16 or better. (NAS 10)

Nom. flow handling capacity . . . . . Refer graphs









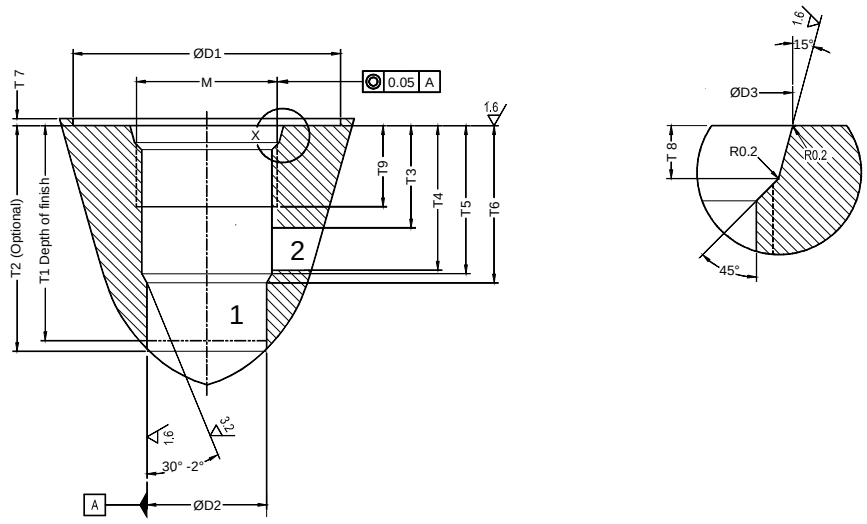
Performance curves
Testing as per
ISO 6403 : 1998 (E)
Oil used : ISO VG 46,
Viscosity - 46 cSt @ 40 ºC
Direction of flow : **1 to 2**

Check Valve - Screw in Cartridge (ISO 7789-1998)

Ref. No : H06925, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Cavity Details



Codification	20-01-0-98	22-01-0-98	33-01-0-98	42-01-0-98
M	M20x1.5	M22x1.5	M33x2.0	M42x2.0
D1 min	38.0	42.0	58.0	74.0
D2 H8	17.0	19.0	29.0	38.0
D3 +0.1	21.8	23.8	35.4	44.4
T1 min	30.5	38.5	50.0	56.0
T2 +1	32.0	40.0	52.0	58.0
T3 min	14.5	17.0	22.0	23.0
T4 max	20.5	27.5	38.5	43.5
T5 +0.4 (ref)	21.0	28.0	39.0	44.0
T6 +0.4	22.3	29.3	40.7	45.7
T7 max	2.0	2.0	2.5	2.5
T8 +0.4	2.4	2.4	3.1	3.1
T9 min	14.5	15.5	19.0	19.5

Ordering Code

KS | C | 10 – A | X | V – 1.X

Screw in cartridge

Check Valve - **C**

Valve Size
20-01-0-98 - **06**
22-01-0-98 - **10**
33-01-0-98 - **16**
42-01-0-98 - **20**

Spring Cracking
0.5 bar - **A**
1.0 bar - **B**
1.5 bar - **C**
3.0 bar - **D**
5.0 bar - **E**
No Spring - **X**

Design Series
Subject to revision

1.0 to 1.9
Externally
interchangable

Seals	
V	Viton
N	Nitrile

X - Non Adjustable

Reverse Check Valve - Screw in Cartridge (ISO 7789-1998)

Ref. No : H06965, Release March 2018 (Dimensions in mm)

the right connection
the right environment

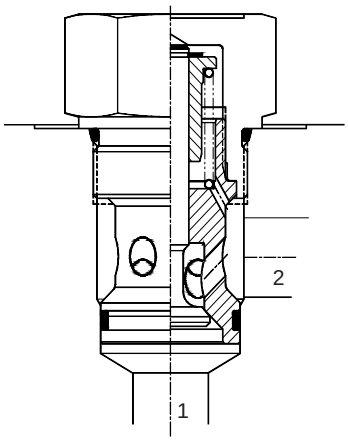
Description

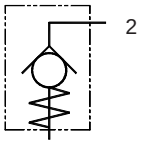
KSD check valves are two port screw-in cartridge valves that are designed to fit in a cavity confirming to I SO 7789 : 1998 (E).

These are seat type valves, available in four different sizes and with five different cracking pressures in each size.

Reverse check valves allow free flow in one direction while providing leak-free closure in reverse direction.

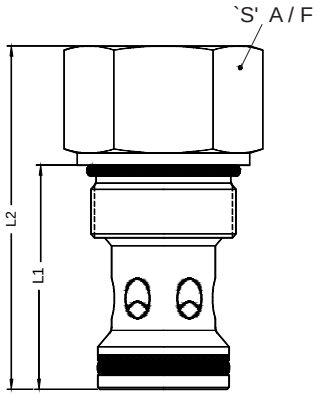
Section





Hydraulic Symbol

Unit Dimensions

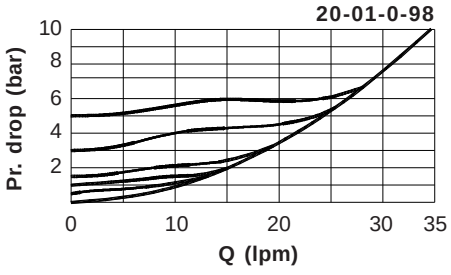


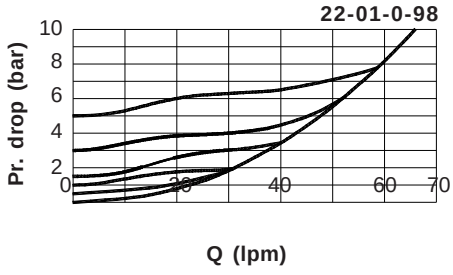
Size	Threads	Torque
20-01-0-98	M20	140 Nm
22-01-0-98	M22	150 Nm
33-01-0-98	M33	350 Nm
42-01-0-98	M42	500 Nm

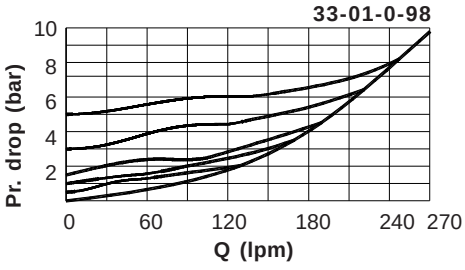
Size	L1	L2	S
20-01-0-98	30.0	42.0	27
22-01-0-98	38.0	50.5	27
33-01-0-98	49.5	74.5	41
42-01-0-98	55.5	85.0	50

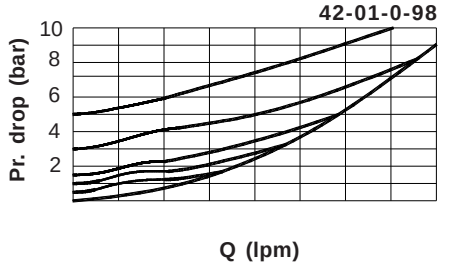
Technical Specifications

Construction	Seat type.
Mounting style	Screw-in cavity as per ISO : 7789 : 1998 (E)
Mounting position	Optional
Flow direction	Free flow from 2 to 1
Operating pressure	350 bar
Hydraulic medium	Mineral Oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 ºC to +80 ºC
Fluid Cleanliness requirement	As per ISO 19/16 or better. (NAS 10)
Nom. flow handling capacity	Refer graphs









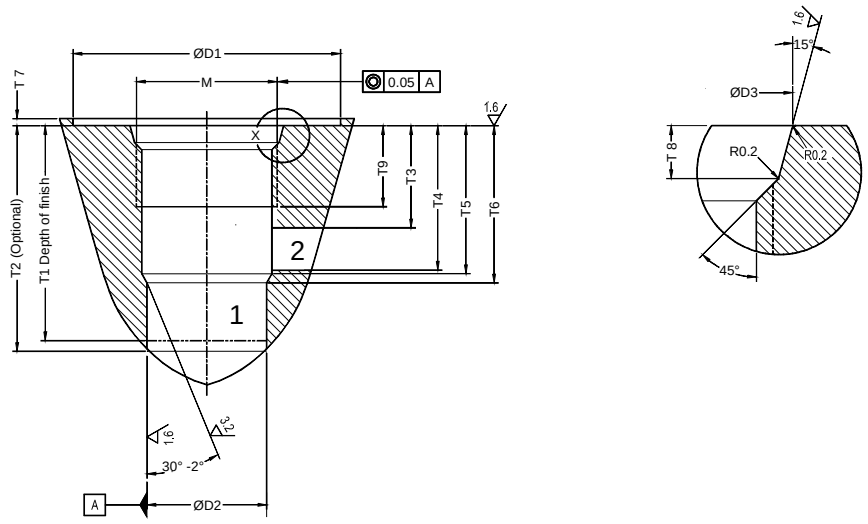
Performance curves
Testing as per
ISO 6403 : 1998 (E)
Oil used : ISO VG 46,
Viscosity - 46 cSt @ 40 ºC
Direction of flow : **2 to 1**

Reverse Check Valve - Screw in Cartridge (ISO 7789-1998)

Ref. No : H06965, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Cavity Details



Codification	20-01-0-98	22-01-0-98	33-01-0-98	42-01-0-98
M	M20x1.5	M22x1.5	M33x2.0	M42x2.0
D1 min	38.0	42.0	58.0	74.0
D2 H8	17.0	19.0	29.0	38.0
D3 +0.1	21.8	23.8	35.4	44.4
T1 min	30.5	38.5	50.0	56.0
T2 +1	32.0	40.0	52.0	58.0
T3 min	14.5	17.0	22.0	23.0
T4 max	20.5	27.5	38.5	43.5
T5 +0.4 (ref)	21.0	28.0	39.0	44.0
T6 +0.4	22.3	29.3	40.7	45.7
T7 max	2.0	2.0	2.5	2.5
T8 +0.4	2.4	2.4	3.1	3.1
T9 min	14.5	15.5	19.0	19.5

Ordering Code

KS | D | 10 – A | X | V – 1.X

- **KS** — Screw in cartridge
- **D** — Reverse Check Valve - **D**
- **10** — Valve Size
  - 20-01-0-98 - **06**
  - 22-01-0-98 - **10**
  - 33-01-0-98 - **16**
  - 42-01-0-98 - **20**
- **A** — Spring Cracking
  - 0.5 bar - **A**
  - 1.0 bar - **B**
  - 1.5 bar - **C**
  - 3.0 bar - **D**
  - 5.0 bar - **E**
  - No Spring - **X**
- **X** — **X** - Non Adjustable
- **V** — Seals
  - **V** Viton
  - **N** Nitrile
- **1.X** — Design Series Subject to revision
  - 1.0 to 1.9 Externally interchangable

Check Valve, Model : RHD / RHZ / RHV / RHF

Ref. No : H04068 Release Mar 2018 (Dimensions in mm)

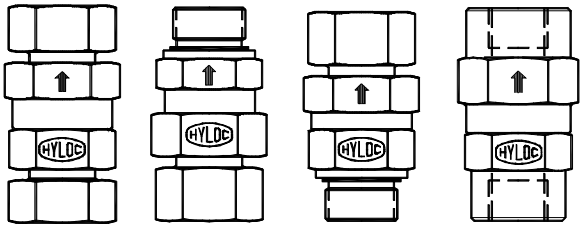
the right connection
the right environment

Description

Poppet type valves.
Allows free flow from port A to B and offer leakage free closure in opposite direction.

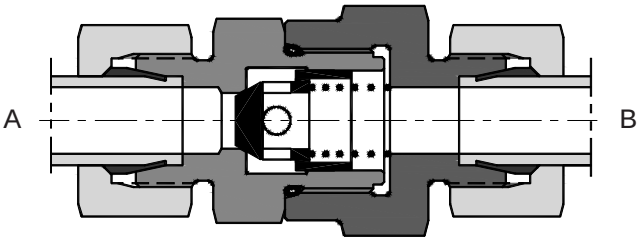
Four basic models : RHD, RHZ, RHV and RHF
Seven standard sizes : NG 06, NG 08, NG 10, NG 15, NG 20, NG 25, NG 30

Four cracking pressure : 0.5, 1.5, 3 and 5 bar.



RHD RHZ RHV RHF

Section



Hydraulic Symbol

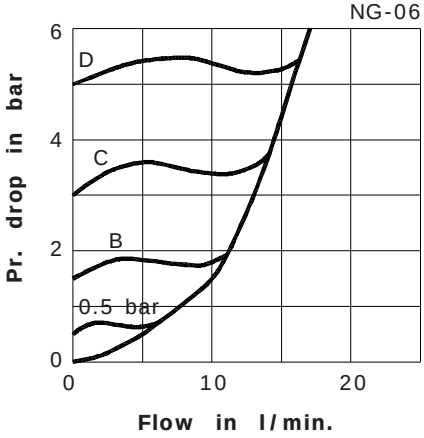
Technical Specifications

Construction	Poppet type
Mounting style	In line
Mounting position	Optional
Cracking pressure available	0.5, 1.5, 3, and 5 bar
Code for cracking pressure options	Omit, B, C, and D respectively.
Flow direction	From port `A' to port `B'.
Operating pressure	315 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +70 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Maximum flow handling capacity	Refer graph.

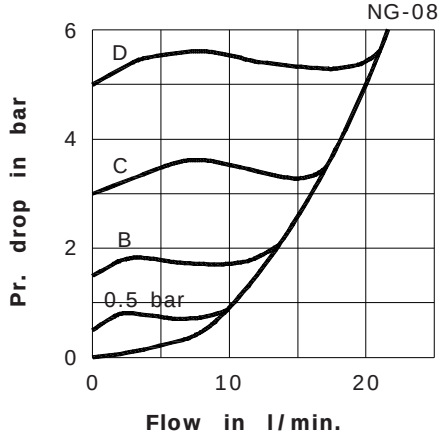
Expected performance Curves

Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C

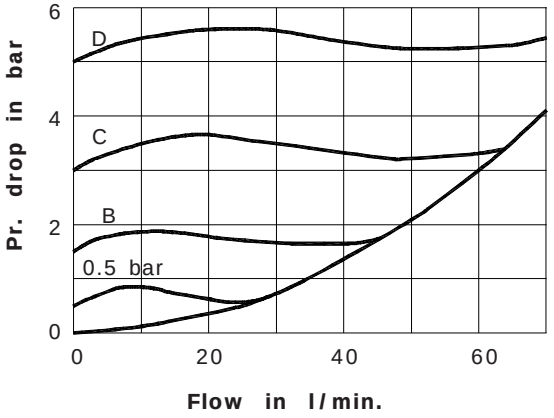
NG-06



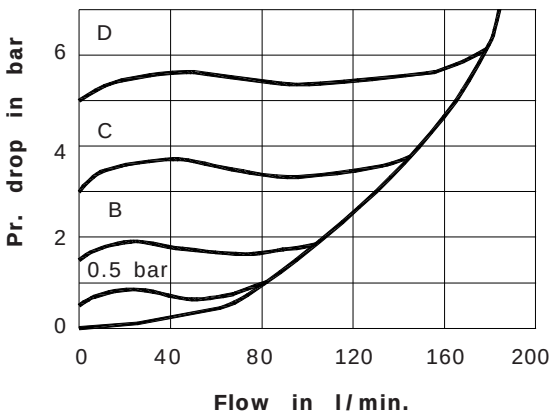
NG-08



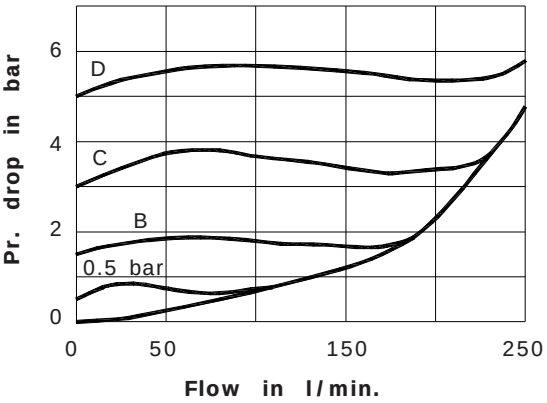
NG-10



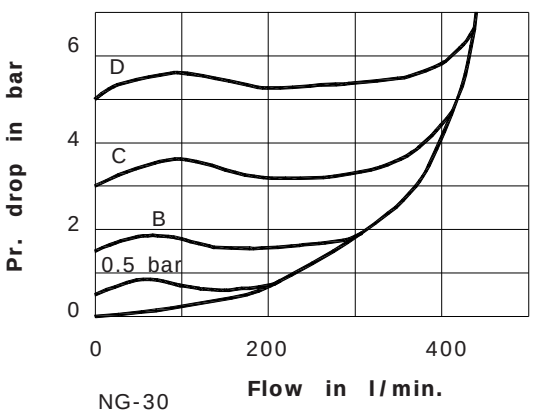
NG-15



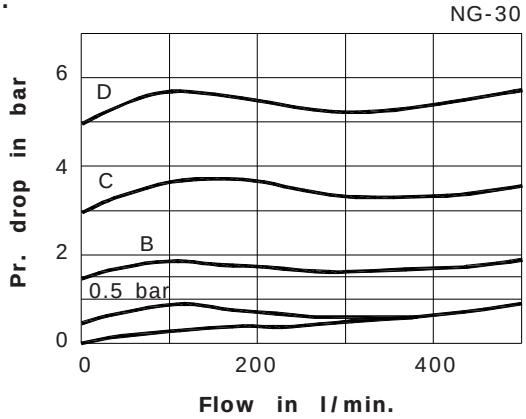
NG-20



NG-25



NG-30



RHD

Tube connection as per ISO 8434 at both ends

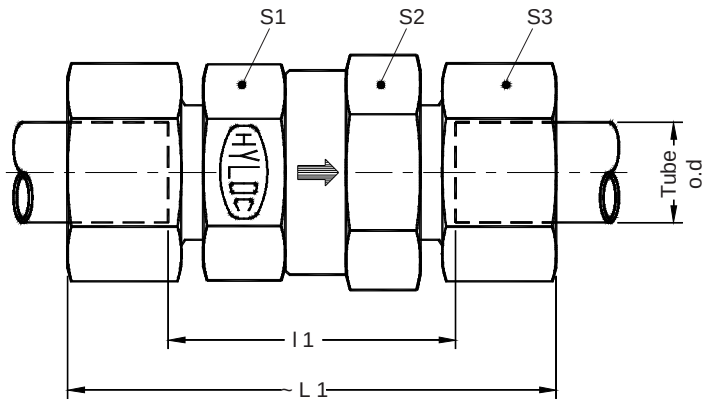


Table 1

Ordering Code	Size	Tube od	S1	S2	S3	L1	l1
RHD06PL-2.0	NG-06	6 - L	22	24	14	65.5	35.5
RHD08PL-2.0		8 - L			17	65.5	35.5
RHD06PS-2.0		6 - S			17	69.5	39.5
RHD08PS-2.0		8 - S			19	69.5	39.5
RHD10PL-2.0	NG-08	10 - L	32	36	19	76.0	46.0
RHD10PS-2.0		10 - S			22	80.0	47.0
RHD12PS-2.0		12 - S			24	80.0	47.0
RHD12PL-2.0	NG-10	12 - L	32	36	22	77.5	47.5
RHD15PL-2.0		15 - L			27	79.5	49.5
RHD16PS-2.0		16 - S			30	87.5	50.5
RHD18PL-2.0	NG-15	18 - L	41	46	32	87.5	54.5
RHD20PS-2.0		20 - S			36	99.5	56.5
RHD22PL-2.0	NG-20	22 - L	50	55	36	103	70.0
RHD25PS-2.0		25 - S			46	117	69.0
RHD28PL-2.0	NG-25	28 - L	55	60	41	112	79.0
RHD30PS-2.0		30 - S			50	132	79.0
RHD35PL-2.0	NG-30	35 - L	65	70	50	130	87.0
RHD42PL-2.0		42 - L			60	132	86.0
RHD38PS-2.0		38 - S			60	150	88.0

RHZ

Tube connections (ISO 8434) at inlet
BSP Male stud end (with ED seal) at outlet

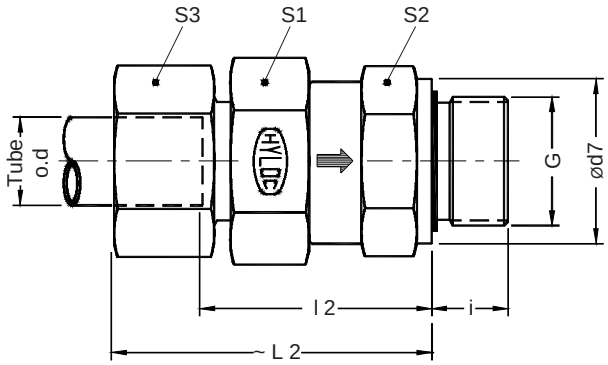


Table 2

Part Number	Size	Tube od	S1	S2	S3	L2	l2	i	G	Ød7
RHZ06PLGE-2.0	NG-06	6 - L	22	24	14	49.0	34.0	8.0	G 1/8	14
RHZ08PLGE-2.0		8 - L			17	49.5	34.5	12.0	G 1/4	19
RHZ06PSGE-2.0		6 - S			17	51.5	36.5	12.0	G 1/4	19
RHZ08PSGE-2.0		8 - S			19	51.5	36.5	12.0	G 1/4	19
RHZ10PLGE-2.0	NG-08	10 - L	32	36	19	59.0	44.0	12.0	G 1/4	19
RHZ10PSGE-2.0		10 - S			22	61.5	45.0	12.0	G 3/8	22
RHZ12PSGE-2.0		12 - S			24	61.5	45.0	12.0	G 3/8	22
RHZ12PLGE-2.0	NG-10	12 - L	32	36	22	61.0	46.0	12.0	G 3/8	22
RHZ15PLGE-2.0		15 - L			27	62.5	47.5	14.0	G 1/2	27
RHZ16PSGE-2.0		16 - S			30	66.5	48.0	14.0	G 1/2	27
RHZ18PLGE-2.0	NG-15	18 - L	41	46	32	69.5	53.0	14.0	G 1/2	27
RHZ20PSGE-2.0		20 - S			36	75.5	54.0	16.0	G 3/4	32
RHZ22PLGE-2.0	NG-20	22 - L	50	55	36	83.0	66.5	16.0	G 3/4	32
RHZ25PSGE-2.0		25 - S			46	90.0	66.0	18.0	G1	40
RHZ28PLGE-2.0	NG-25	28 - L	55	60	41	92.0	75.5	18.0	G1	40
RHZ30PSGE-2.0		30 - S			50	102.0	75.5	20.0	G1.1/4	50
RHZ35PLGE-2.0	NG-30	35 - L	65	70	50	106.0	84.5	20.0	G1.1/4	50
RHZ42PLGE-2.0		42 - L			60	107.0	84.0	22.0	G1.1/2	55
RHZ38PSGE-2.0		38 - S			60	116.0	85.0	22.0	G1.1/2	55

RHV

BSP Male stud end (with ED seal) at inlet
Tube connections (ISO 8434) at outlet

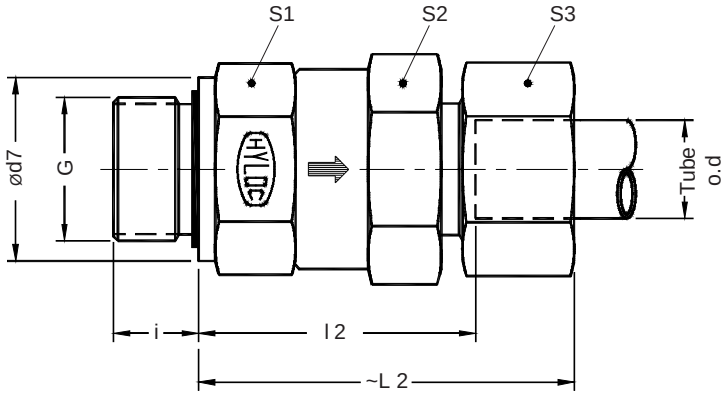


Table 3

Part Number	Size	Tube od	S1	S2	S3	L2	l2	i	G	Ød7
RHV06PLGE-2.0	NG-06	6 - L	22	24	14	49.0	34.0	8	G 1/8	14
RHV08PLGE-2.0		8 - L			17	49.5	34.5	12	G 1/4	19
RHV06PSGE-2.0		6 - S			17	51.5	36.5	12	G 1/4	19
RHV08PSGE-2.0		8 - S			19	51.5	36.5	12	G 1/4	19
RHV10PLGE-2.0	NG-08	10 - L	32	36	19	59.0	44.0	12	G 1/4	19
RHV10PSGE-2.0		10 - S			22	61.5	45.0	12	G 3/8	22
RHV12PSGE-2.0		12 - S			24	61.5	45.0	12	G 3/8	22
RHV12PLGE-2.0	NG-10	12 - L	32	36	22	61.0	46.0	12	G 3/8	22
RHV15PLGE-2.0		15 - L			27	62.5	47.5	14	G 1/2	27
RHV16PSGE-2.0		16 - S			30	66.5	48.0	14	G 1/2	27
RHV18PLGE-2.0	NG-15	18 - L	41	46	32	69.5	53.0	14	G 1/2	27
RHV20PSGE-2.0		20 - S			36	75.5	54.0	16	G 3/4	32
RHV22PLGE-2.0	NG-20	22 - L	50	55	36	83.0	66.5	16	G 3/4	32
RHV25PSGE-2.0		25 - S			46	90.0	66.0	18	G1	40
RHV28PLGE-2.0	NG-25	28 - L	55	60	41	92.0	75.5	18	G1	40
RHV30PSGE-2.0		30 - S			50	102.0	75.5	20	G1.1/4	50
RHV35PLGE-2.0	NG-30	35 - L	65	70	50	106.0	84.5	20	G1.1/4	50
RHV42PLGE-2.0		42 - L			60	107.0	84.0	22	G1.1/2	55
RHV38PSGE-2.0		38 - S			60	116.0	85.0	22	G1.1/2	55

RHF

BSP Ports at inlet and at outlet

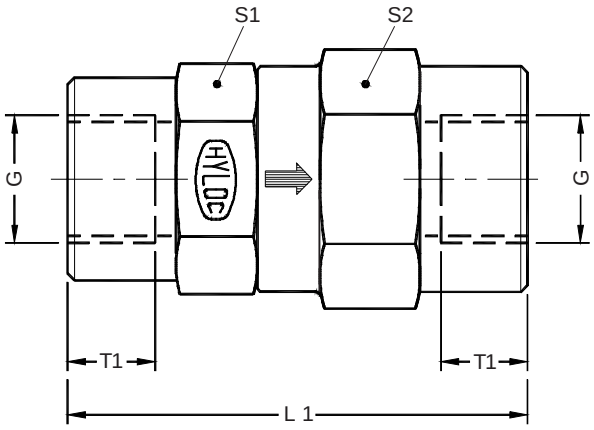


Table 4

Ordering Code	G	S1	S2	T1	L1
RHFG02-2.0	G 1/4	22	24	12	58
RHFG03-2.0	G 3/8	32	36	12	58
RHFG04-2.0	G 1/2	32	36	14	72
RHFG06-2.0	G 3/4	41	46	16	85
RHFG08-2.0	G1	50	55	18	98
RHFG10-2.0	G1.1/4	55	60	20	120
RHFG12-2.0	G1.1/2	65	70	22	132

Ordering Code

RHZ | 16 | P | S | G | E – – – 2.0

Type of Check Valve
- **RHD**
- **RHZ**
- **RHV**
- **RHF**

Tube Size
(for RHD/RHZ/RHV)
Refer Table 1 to Table 3

Port Size (for RHF)
Refer Table 4

End connection type
(For RHD/RHZ/RHV)
With Ferrule - P

Pressure Series
(Refer Table 1 to Table 3)
Low Pressure - **L**
High Pressure - **S**

Design Series
Subject to revision

Seal Material

Omit	Nitrile 90°
V	Viton 90°

Cracking Pressure

Omit	0.5 bar
B	1.5 bar
C	3.0 bar
D	5.0 bar

Type of Sealing
(For RHZ/RHV)
E - Elastomeric Seal

End Connection
(For RHZ/RHV)
(Refer Table 2 and Table 3)

Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-RHD16PS-2.0**

Adjustable Throttle and Throttle Check Valves, Model : TT / TCT

Ref. No : H03364 Release March 2018 (Dimensions in mm)

the right connection
the right environment

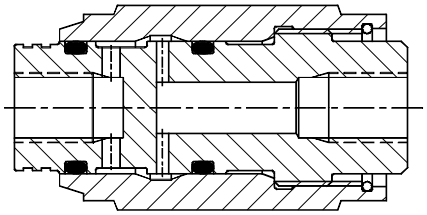
Description

Non pressure and viscosity compensated valves.

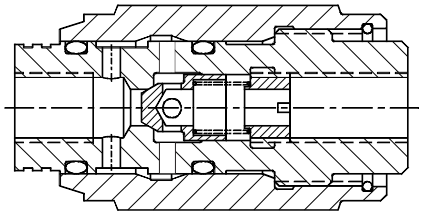
Model TT Throttle valves allow adjustable throttled flow in both the directions.

Model TCT Throttle check valve gives adjustable flow in one direction and allows free flow in opposite direction.

Section

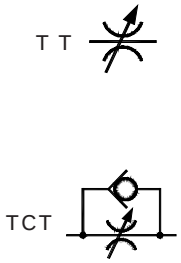


TT

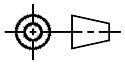


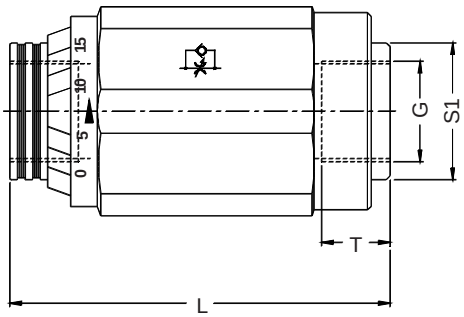
TCT

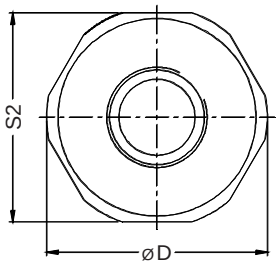
Hydraulic Symbol



Unit Dimensions







Ordering Code		G	T	S1	S2	L	ØD
TCTG02-2.0	TTG02-2.0	G 1/4	12	19	32	65	34
TCTG03-2.0	TTG03-2.0	G 3/8	13	26	36	65	38
TCTG04-2.0	TTG04-2.0	G 1/2	14	27	46	80	49
TCTG06-2.0	TTG06-2.0	G 3/4	18	37	55	100	58
TCTG08-2.0	TTG08-2.0	G1	18	41	70	110	74
TCTG10-2.0	TTG10-2.0	G1.1/4	22	58	85	130	87
TCTG12-2.0	TTG12-2.0	G1.1/2	22	60	90	150	94

Adjustable Throttle and Throttle Check Valves, Model : TT / TCT

Ref. No : H03364 Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction	Inline threaded body with rotating sleeve for flow adjustment. Non pressure and viscosity compensated.	
Mounting style	Inline, threaded body	
Mounting position	Optional	
Flow direction	For model **TCT** : Free flow in one direction. Adjustable throttled flow in opposite direction as indicated on the valve body. For model **TT** : Adjustable throttled flow in both the directions	
Operating pressure	315 bar.	
Hydraulic medium	Mineral oil.	
Viscosity range	10 cSt to 380 cSt.	
Fluid temperature range	-20 °C to +70 °C	
Maximum flow handling capacity	TCTG02/TTG02	25 l/min
	TCTG03/TTG03	
	TCTG04/TTG04	50 l/min
	TCTG06/TTG06	
	TCTG08/TTG08	200 l/min
	TCTG10/TTG10	
	TCTG12/TTG12	400 l/min

Ordering Code

TCT | **G02** | – | – | **2.0**

Type of Check Valve	
Adjustable Throttle Valve	**TT**
Adjustable Throttle/Check	**TCT**

End Connection	
G 1/4	G02
G 3/8	G03
G 1/2	G04
G 3/4	G06
G1	G08
G1.1/4	G10
G1.1/2	G12

Design Series
Subject to revision

Seal Material	
Omit	Nitrile 90°
V	Viton 90°
X	Without seal

Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-TCTG02-2.0**

Throttle / Check Valves, Model : TG / TCG

Ref. No : H04737 Release March 2018 (Dimensions in mm)

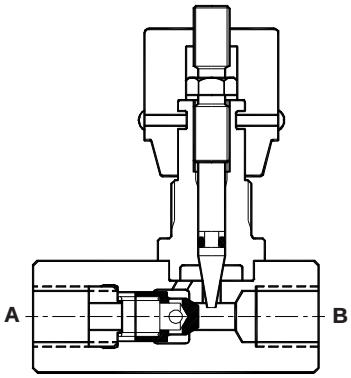
the right connection
the right environment

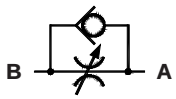
Description

The Valve allows accurate adjustment of flow by throttling action. The throttling can be varied by rotation of the Hand knob.

The valve is also equipped with a built - in check valve for free reverse flow.

Section

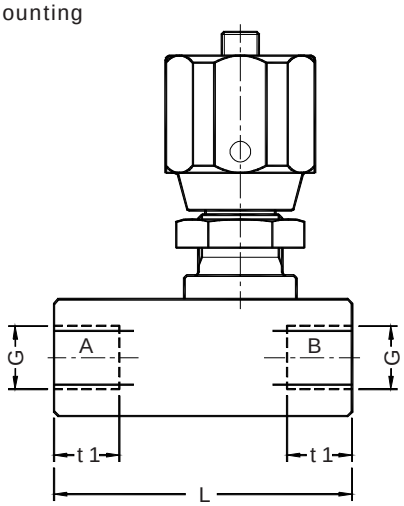




Hydraulic Symbol

Unit Dimensions

In-line port (G) mounting



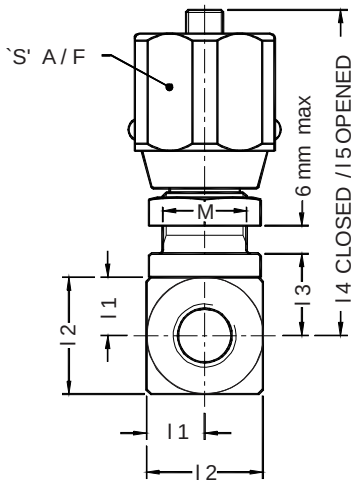


Table 1

Ordering Code	Size	G	l1	l2	l3	l4	l5	M	t1	S	L
TCG02-2.0	NG-06	G 1/4	12.5	25	17.5	69.5	76.5	M18x1.5	12	30	64
TCG03-2.0	NG-08	G 3/8	15.0	30	20.0	72.0	79.0	M18x1.5	13	30	70
TCG04-2.0	NG-10	G 1/2	17.5	35	23.5	89.0	99.0	M22x1.5	14	41	80
TCG06-2.0	NG-15	G 3/4	22.5	45	28.5	94.0	104.0	M22x1.5	17	41	95
TCG08-2.0	NG-20	G1	25.0	50	35.0	128.0	145.0	M36x2.0	18	50	125
TCG10-2.0	NG-25	G1.1/4	30.0	60	40.0	133.0	150.0	M36x2.0	21	50	142
TCG12-2.0	NG-30	G1.1/2	35.0	70	45.0	138.0	155.0	M36x2.0	22	50	150

In-line Tube

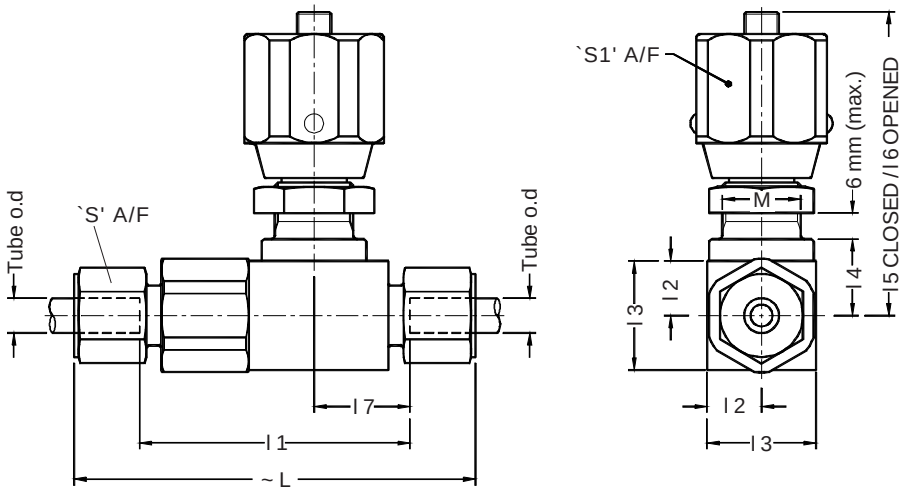


Table 2

Ordering Code	Tube OD	Size	l1	l2	l3	l4	l5	l6	l7	M	S	S1	L
TC06PL-2.0	6-L	NG-06	57.0	12.5	25.0	17.5	69.5	76.5	20.0	M18x1.5	14	30	87.0
TC08PL-2.0	8-L		57.0						20.0		17		87.0
TC06PS-2.0	6-S		61.0						22.0		17		91.0
TC08PS-2.0	8-S		61.0						22.0		19		91.0
TC10PL-2.0	10-L	NG-08	63.0	15.0	30.0	20.0	72.0	79.0	21.0	M18x1.5	19	30	93.0
TC10PS-2.0	10-S		64.0						21.5		22		97.0
TC12PS-2.0	12-S		64.0						21.5		24		97.0
TC12PL-2.0	12-L	NG-10	70.0	17.5	35.0	23.5	89.0	99.0	22.0	M22x1.5	22	41	100.0
TC15PL-2.0	15-L		72.0						23.0		27		102.0
TC14PS-2.0	14-S		74.0						24.0		27		110.0
TC16PS-2.0	16-S		73.0						23.5		30		110.0
TC18PL-2.0	18-L	NG-15	80.5	22.5	45.0	28.5	94.0	104.0	24.5	M22x1.5	32	41	113.5
TC20PS-2.0	20-S		82.5						25.5		36		125.5
TC22PL-2.0	22-L	NG-20	109.0	25.0	50.0	35.0	128.0	145.0	36.5	M36x2.0	36	50	142.0
TC25PS-2.0	25-S		108.0						36.0		46		156.0
TC28PL-2.0	28-L	NG-25	120.0	30.0	60.0	40.0	133.0	150.0	39.5	M36x2.0	41	50	153.0
TC30PS-2.0	30-S		120.0						39.5		50		173.0
TC35PL-2.0	35-L	NG-30	130.0	35.0	70.0	45.0	138.0	155.0	40.5	M36x2.0	50	50	173.0
TC42PL-2.0	42-L		129.0						40.0		60		175.0
TC38PS-2.0	38-S		131.0						41.0		60		193.0

Ordering Code

Construction . . . . . Conical throttling spool with rotation of hand knob for flow adjustment. Poppet valve for free reverse flow.

Mounting style . . . . . In-line port or tube mounting.

Mounting position . . . . . Optional

Flow direction . . . . . Adjustable throttled flow from A to B, free flow from B to A as indicated on valve body.

Operating pressure . . . . . 315 bar

Hydraulic medium . . . . . Mineral Oil.

Viscosity range . . . . . 10 cSt to 380 cSt.

Fluid temperature range . . . . . -20 ºC to +80 ºC

Fluid Cleanliness requirement . . . . . As per ISO 19/16 or better.

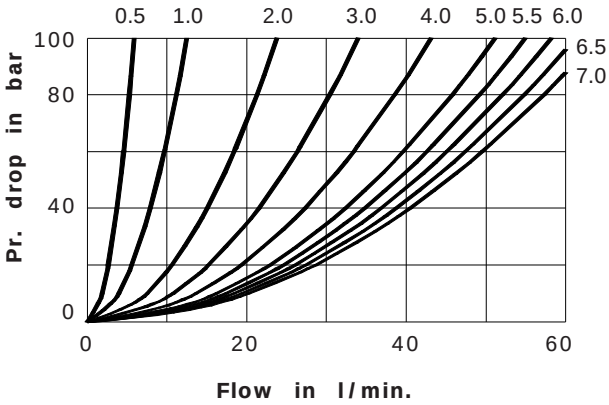
Nom. flow handling capacity . . . . . Refer graphs

Expected performance Curves

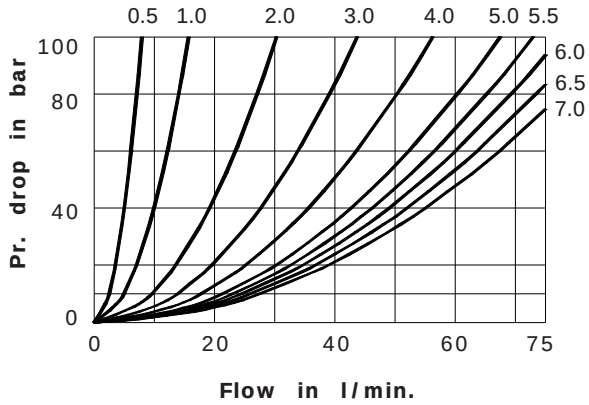
Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Direction of flow : A to B

Graphs below shows
Throttle position (No.of turns) from closed position

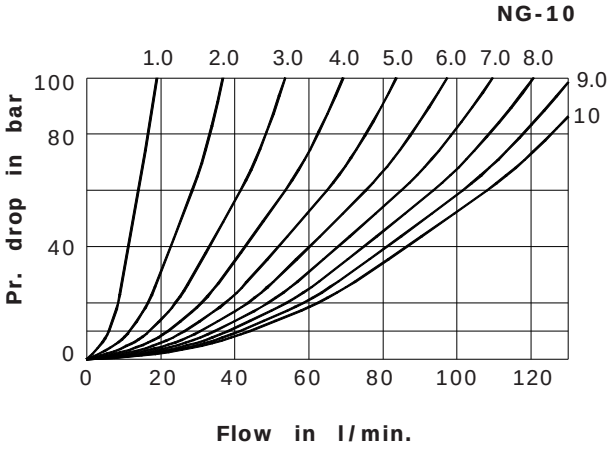
NG-06



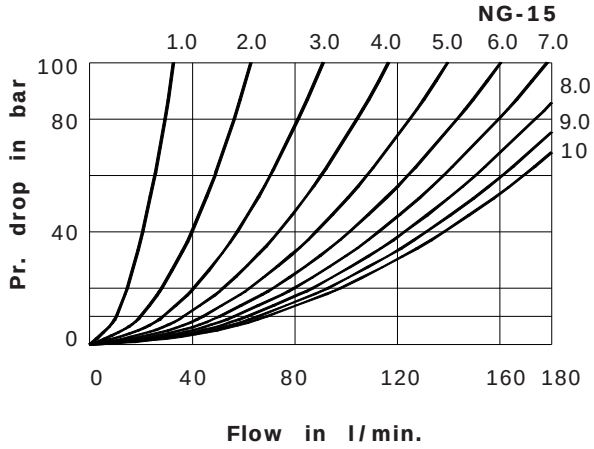
NG-08



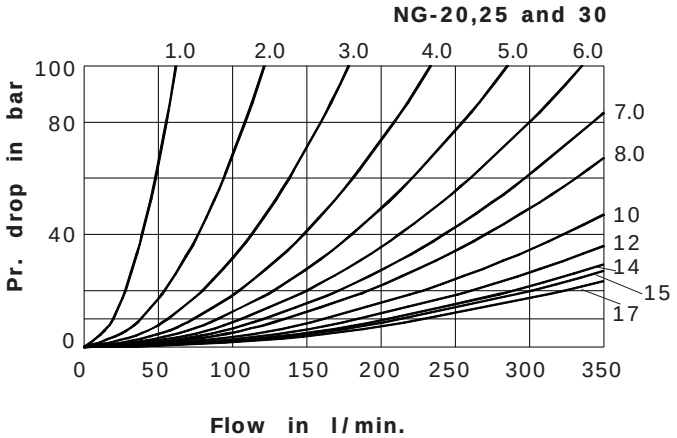
NG-10



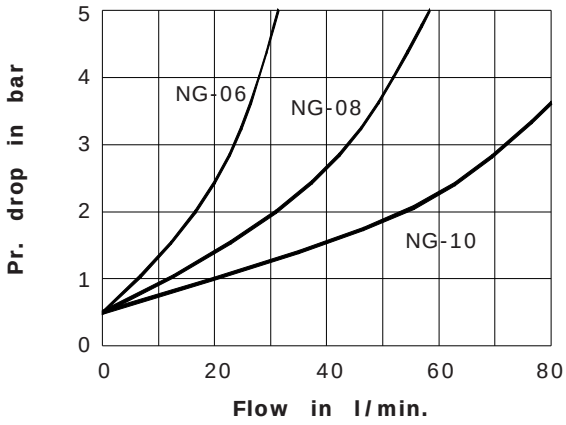
NG-15

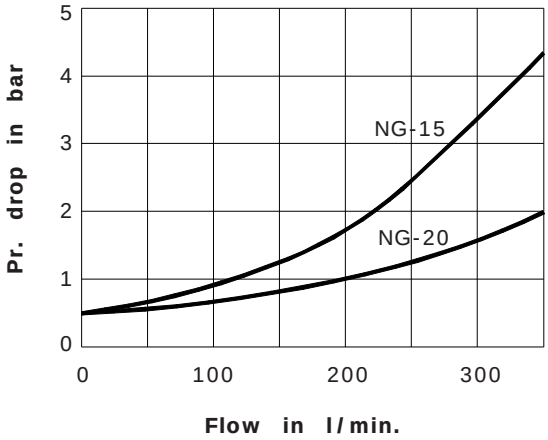


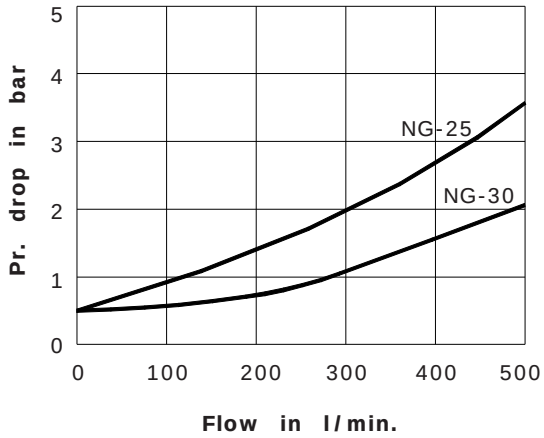
NG-20,25 and 30



Direction of free flow from B' to A'







Ordering Code

TC	G02		–	–	2.0

Throttle/Check Valve

For Valves with BSP ports	G 1/4	G02
	G 3/8	G03
	G 1/2	G04
	G 3/4	G06
	G1	G08
	G1.1/4	G10
	G1.1/2	G12
For Valves with Tube ends	For Tube Size Refer Table 2	

End connection type
(for valves with Tube end only)

With Ferrule - **P**

Design Series
Subject to revision

Seal Material	
Omit	Nitrile 90°
V	Viton 90°
X	Without seal

Pressure Series
(for valves with Tube end only)

L - Low Pressure
S - High Pressure

Throttle / Check Valves, Sub-plate mounting, Model : TCMS

Ref. No : H06105 Release March 2018 (Dimensions in mm)

the right connection
the right environment

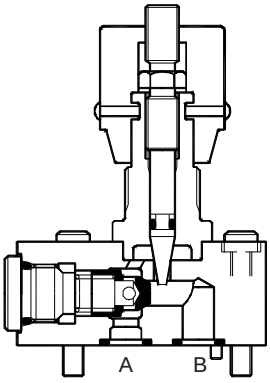
Description

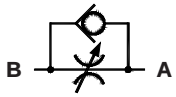
The Valve allows accurate adjustment of flow by throttling action. The throttling can be varied by rotation of the Hand knob.

The valve is also equipped with a built - in check valve for free reverse flow.

The mounting Interface conforms to ISO 5781-1987 standard.

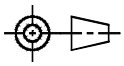
Section

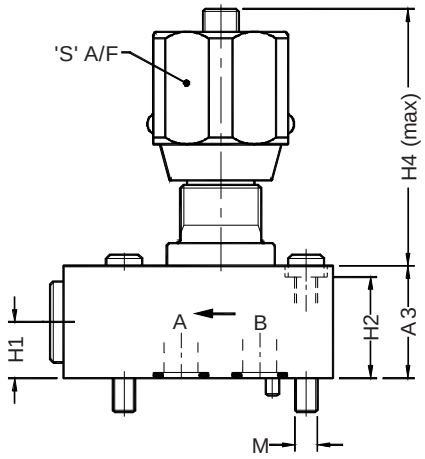




Hydraulic Symbol

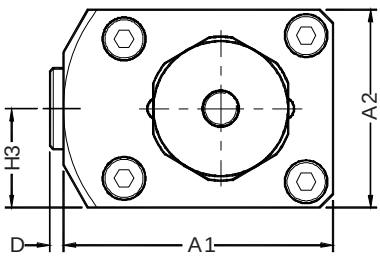
Unit Dimensions





Ordering Code	A1	A2	A3	H1	H2	H3	H4 (max)	D	S
TCMS06-2.0	60	44	25	12.5	22.5	22.0	64.0	3	30
TCMS10-2.0	81	88	40	22.5	40.0	44.0	81.5	3	41
TCMS20-2.0	106	100	50	25.0	45.0	50.0	120.0	4	50
TCMS30-2.0	135	117	70	35.0	65.0	58.5	120.0	4	50

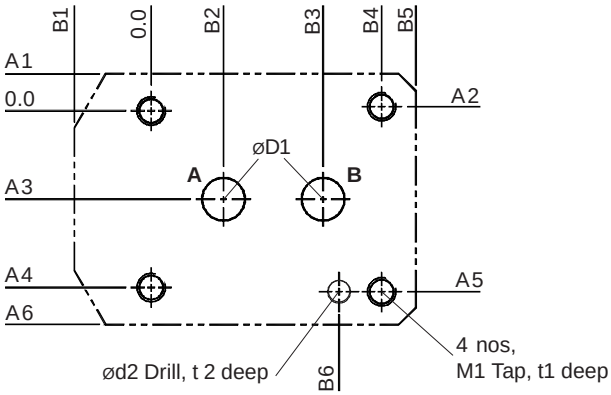
Ordering Code	Valve fixing Screws	Grade
TCMS06-2.0	M5x0.8x30 Long, 4 nos	10.9
TCMS10-2.0	M10x1.5x55 Long, 4 nos	10.9
TCMS20-2.0	M10x1.5x60 Long, 4 nos	10.9
TCMS30-2.0	M10x1.5x80 Long, 6 nos	10.9



Throttle / Check Valves, Sub-plate mounting, Model : TCMS

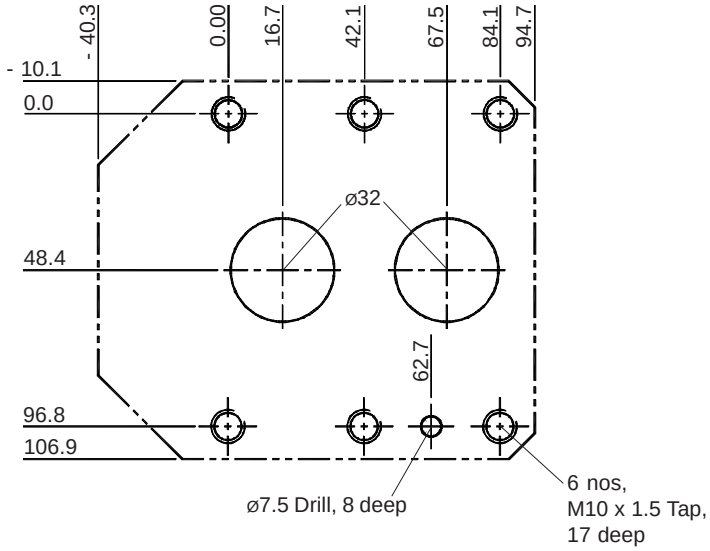
the right connection
the right environment

Interface Details for NG - 06, NG - 10 and NG - 20
as per ISO 5781-1987



Ordering Code	ØD1	A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	M1	t1	Ød2	t2
TCMS06-2.0	7.5	-6.50	-0.75	15.5	31.0	31.75	37.5	-13.5	12.7	30.2	40.5	46.5	33.0	M5 x 0.8	9	4.0	5
TCMS10-2.0	14.0	-10.65	0.00	33.3	66.7	66.7	77.35	-27.5	7.1	35.7	42.9	53.5	31.8	M10 x 1.5	17	7.5	8
TCMS20-2.0	22.0	-10.30	0.00	39.7	79.4	79.4	89.7	-34.5	11.1	49.2	60.3	71.5	44.5	M10 x 1.5	17	7.5	8

Interface Details for NG - 30



Ordering Code

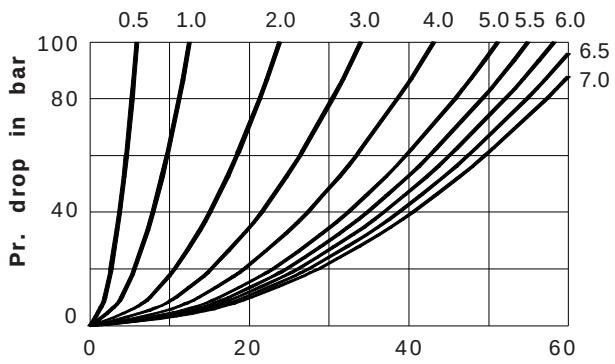
Construction	Conical throttling spool with rotation of hand knob for flow adjustment. Poppet valve for free reverse flow.
Mounting style	Sub-plate mounting
Mounting Interface	As per ISO 5781-1987
Mounting position	Optional
Flow direction	Adjustable throttled flow from A to B, free flow from B to A as indicated on valve body.
Operating pressure	315 bar
Hydraulic medium	Mineral Oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 ºC to +80 ºC
Fluid Cleanliness requirement	As per ISO 19/16 or better.
Nom. flow handling capacity	Refer graphs

Expected performance Curves

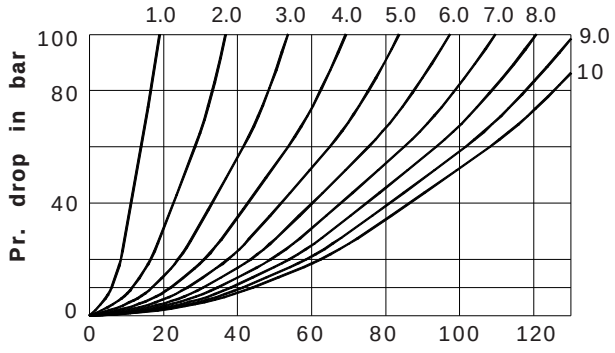
Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Direction of flow : A to B

Graphs below shows
Throttle position (No.of turns) from closed position

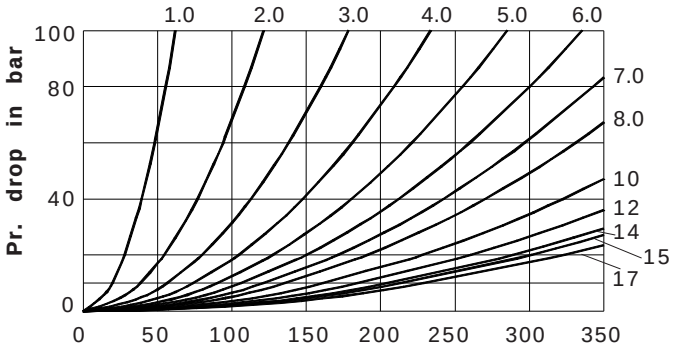
NG-06



NG-10



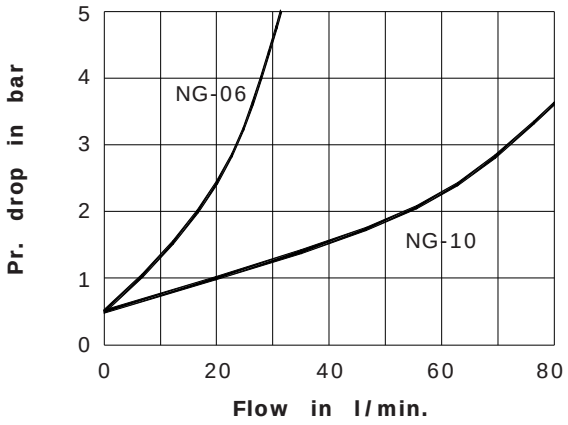
NG-20 and NG-30

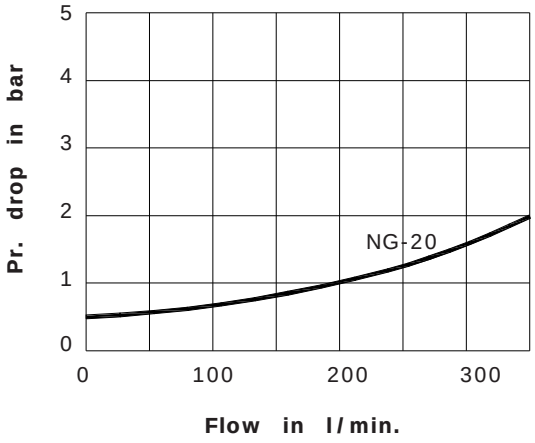


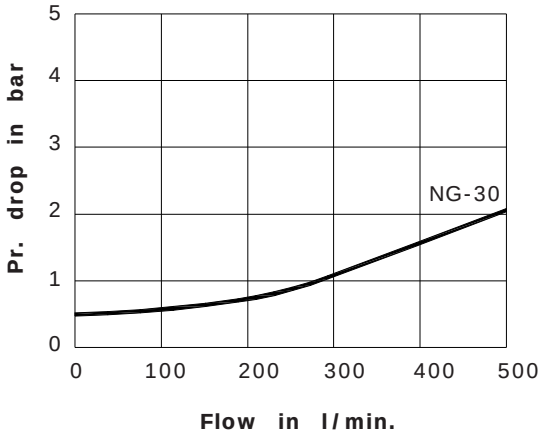
Throttle / Check Valves, Sub-plate mounting, Model : TCMS

the right connection
the right environment

Direction of free flow from B' to A'







Ordering Code

TC	MS	06	–	–	2.0

- TC: Throttle/Check Valve
- MS: Sub-plate mounting with ISO Standard Interface
- 06: Size
  - NG 06 - 06
  - NG 10 - 10
  - NG 20 - 20
  - NG 30 - 30
- Seals
  - Omit: Nitrile
  - V: FKM
- 2.0: Design Series Subject to revision

Throttle / Check Valves, Sub-plate mounting, Model : TCMH

Ref. No : H06106 Release March 2018 (Dimensions in mm)

the right connection
the right environment

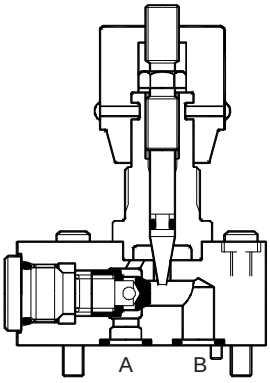
Description

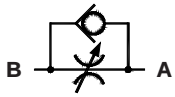
The Valve allows accurate adjustment of flow by throttling action. The throttling can be varied by rotation of the Hand knob.

The valve is also equipped with a built - in check valve for free reverse flow.

The mounting Interface conforms to Flutec standard.

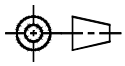
Section



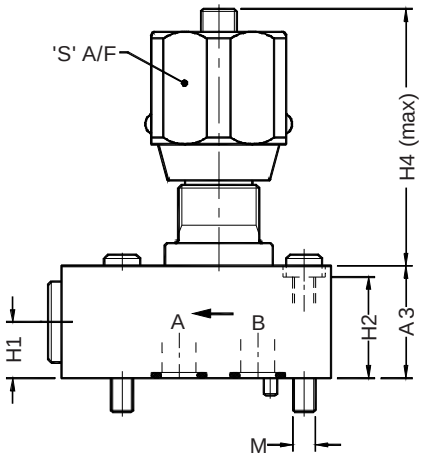


Hydraulic Symbol

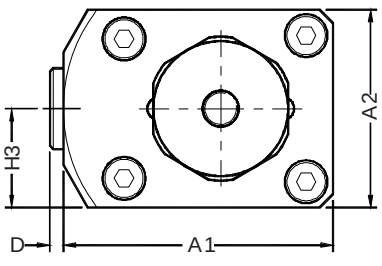
Unit Dimensions



Ordering Code	A1	A2	A3	H1	H2	H3	H4 (max)	D	S
TCMH06-2.0	62	46.0	25	12.5	21	23.0	64.0	3	30
TCMH08-2.0	64	51.0	30	15.0	21	25.5	64.0	3	30
TCMH10-2.0	78	57.5	40	22.5	36	28.7	81.5	3	41
TCMH15-2.0	112	70.0	45	22.5	43	35.0	81.5	3	41
TCMH20-2.0	132	76.5	50	25.0	48	38.2	120.0	4	50
TCMH25-2.0	162	100.0	65	35.0	55	50.0	120.0	4	50
TCMH30-2.0	190	115.0	70	35.0	62	57.5	120.0	4	50



Ordering Code	Valve fixing Screws	Grade
TCMH06-2.0	M6 x 1.0 x 30 Long, 4 nos	10.9
TCMH08-2.0	M6 x 1.0 x 30 Long, 4 nos	10.9
TCMH10-2.0	M6 x 1.0 x 45 Long, 4 nos	10.9
TCMH15-2.0	M8 x 1.25 x 55 Long, 6 nos	10.9
TCMH20-2.0	M8 x 1.25 x 60 Long, 6 nos	10.9
TCMH25-2.0	M10 x 1.5 x 70 Long, 6 nos	10.9
TCMH30-2.0	M12 x 1.75 x 80 Long, 6 nos.	10.9

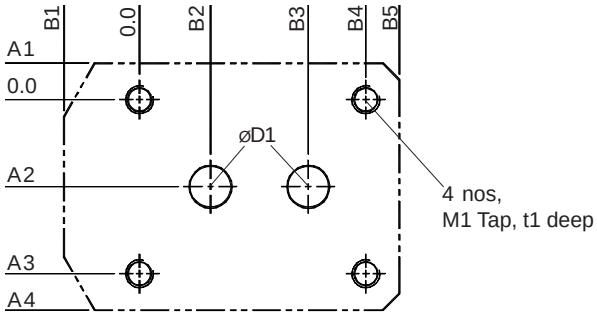


Throttle / Check Valves, Sub-plate mounting, Model : TCMH

Ref. No : H06106 Release March 2018 (Dimensions in mm)

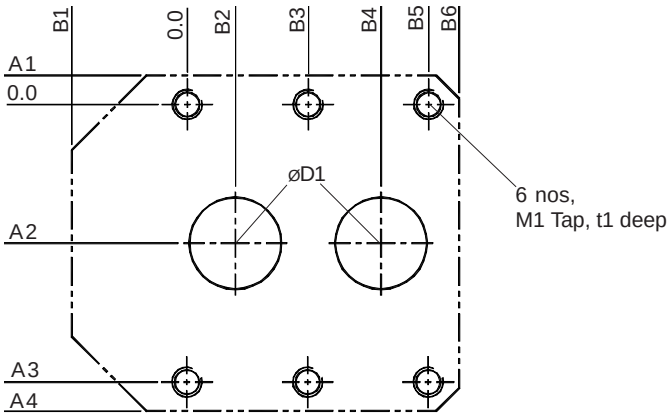
the right connection
the right environment

Interface Details for NG - 06, NG - 08 and NG - 10 as per Flutec standard.



Ordering Code	ØD1	A1	A2	A3	A4	B1	B2	B3	B4	B5	M1	t1
TCMH06-2.0	7	-6.25	16.75	33.5	39.75	-21.0	5	30.5	35.0	41	M6x1.0	10
TCMH08-2.0	10	-6.50	19.00	38.0	44.50	-23.0	4	29.5	33.5	41	M6x1.0	10
TCMH10-2.0	13	-6.50	22.20	44.5	51.00	-31.0	4	34.0	38.0	47	M6x1.0	10

Interface Details for NG - 15, 20, 25 and NG - 30 as per Flutec standard.



Ordering Code	ØD1	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6	M1	t1
TCMH15-2.0	17.0	-8.00	27.0	54.0	62.0	-36.0	10.6	38.0	64.6	76.0	84.5	M8x1.25	14
TCMH20-2.0	22.0	-8.25	30.0	60.0	68.2	-26.5	19.0	47.5	76.0	95.0	105.5	M8x1.25	14
TCMH25-2.0	28.5	-12.0	38.0	76.0	88.0	-33.0	19.9	60.0	99.4	120.0	129.0	M10x1.50	17
TCMH30-2.0	35.0	-11.5	46.0	92.0	103.5	-33.5	24.2	71.5	119.2	143.0	156.5	M12x1.75	20

Ordering Code

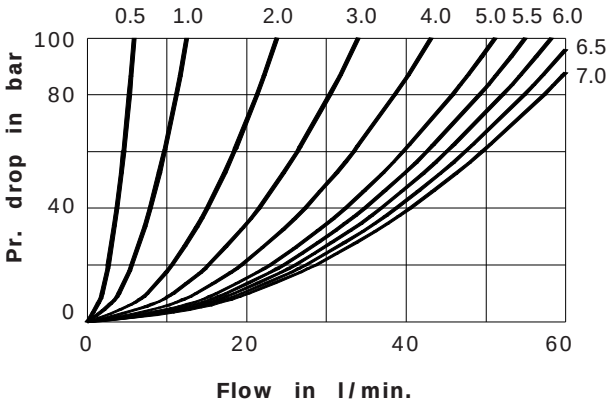
Construction	Conical throttling spool with rotation of hand knob for flow adjustment. Poppet valve for free reverse flow.
Mounting style	Sub-plate mounting
Mounting Interface	As per Flutec standard
Mounting position	Optional
Flow direction	Adjustable throttled flow from A to B, free flow from B to A as indicated on valve body.
Operating pressure	315 bar
Hydraulic medium	Mineral Oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 ºC to +80 ºC
Fluid Cleanliness requirement	As per ISO 19/16 or better.
Nom. flow handling capacity	Refer graphs

Expected performance Curves

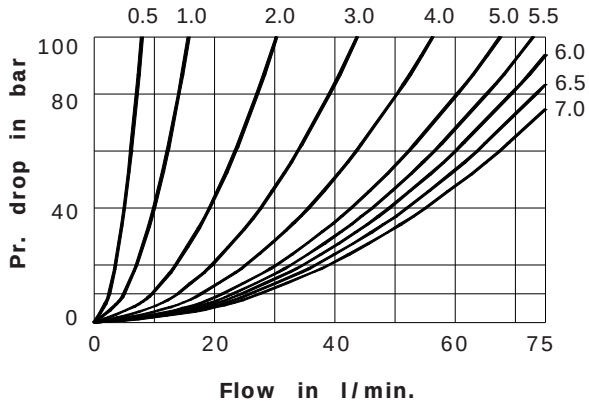
Oil used : ISO VG 68,
Viscosity : 68 cSt @ 40 °C
Direction of flow : A to B

Graphs below shows
Throttle position (No.of turns) from closed position

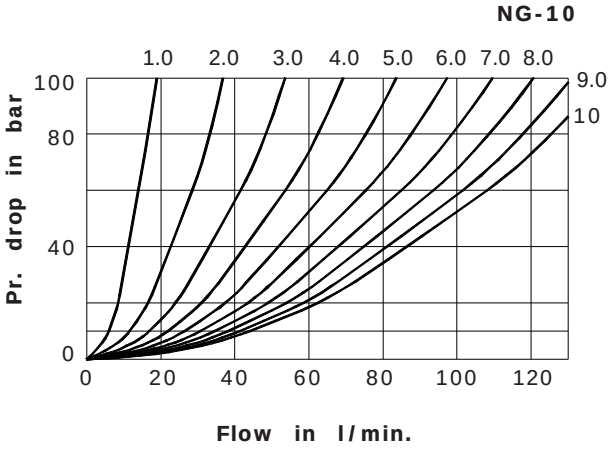
NG-06



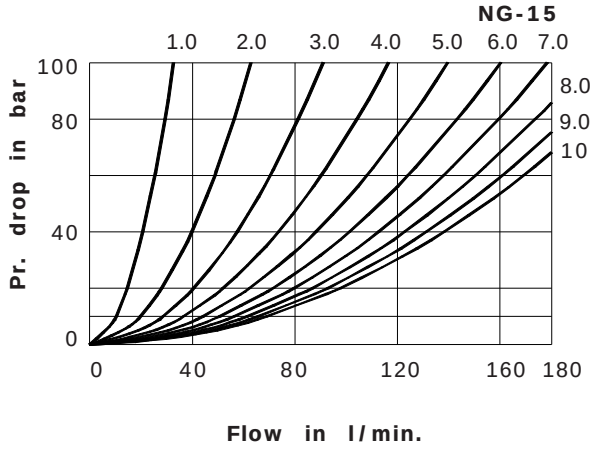
NG-08



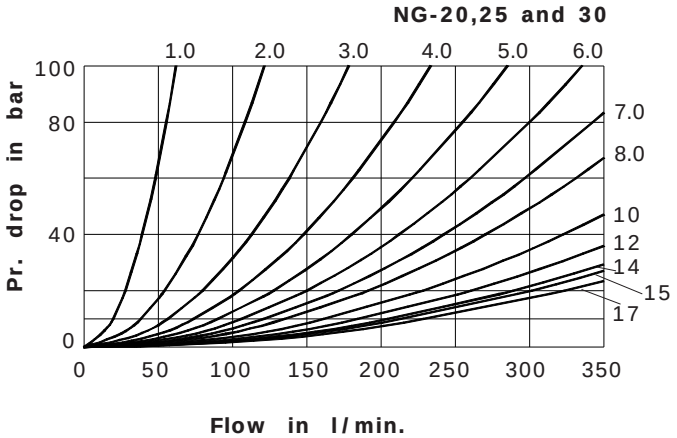
NG-10



NG-15



NG-20,25 and 30

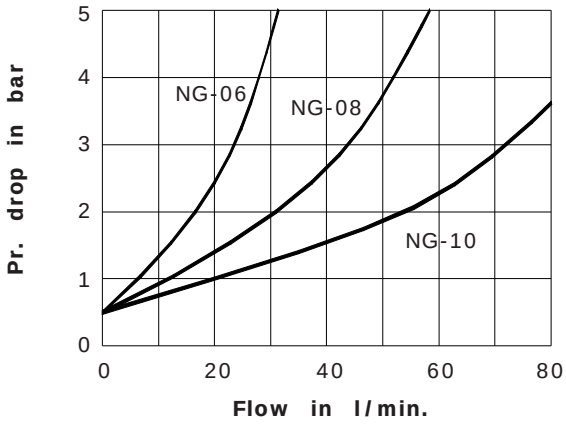


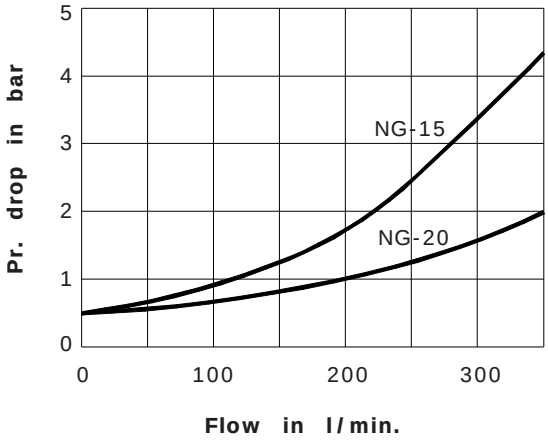
Throttle / Check Valves, Sub-plate mounting, Model : TCMH

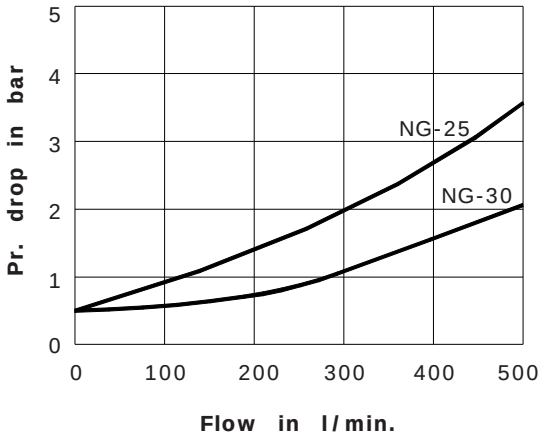
Ref. No : H06106 Release March 2018 (Dimensions in mm)

the right connection
the right environment

Direction of free flow from B' to A'







Ordering Code

TC	MH	06	–	–	2.0

- TC: Throttle/Check Valve
- MH: Sub-plate mounting with Flutec std Interface
- 06: Size
  - NG 06 - 06
  - NG 08 - 08
  - NG 10 - 10
  - NG 15 - 15
  - NG 20 - 20
  - NG 25 - 25
  - NG 30 - 30
- Seals
  - Omit: Nitrile
  - V: FKM
- 2.0: Design Series Subject to revision

Pressure Gauge Isolator Valve, Model : 1GI

Ref. No : H03154 Release March 2018 (Dimensions in mm)

the right connection
the right environment

Description

Seat type valve.

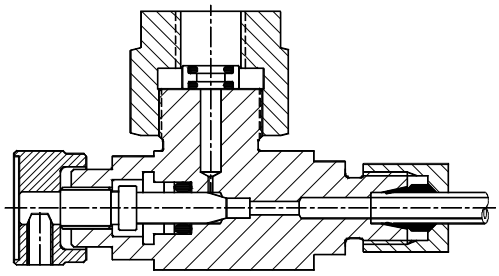
Swivelling gauge connection for easy gauge positioning.

Compact assembly.

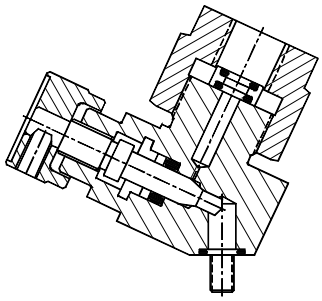
Eliminates gauge supporting bracket.

Angular gauge face plane in Sub-plate mounting construction facilitating easy gauge reading.

Section



Panel Mounting

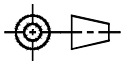


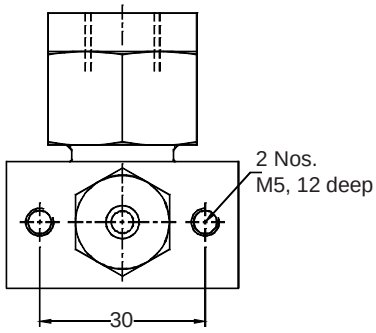
Sub-plate Mounting

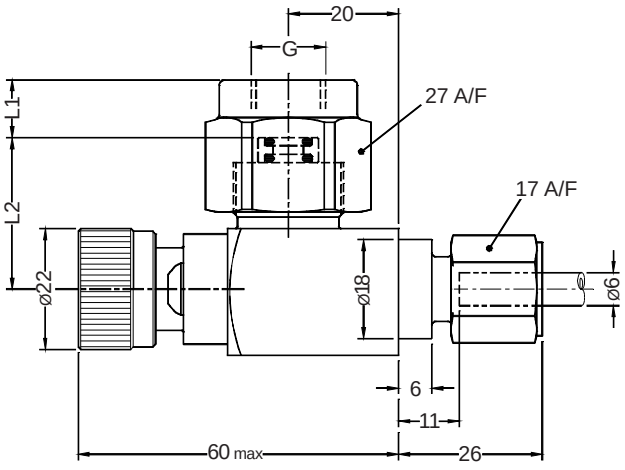
Hydraulic Symbol

Unit Dimensions

Panel Mounting Valve







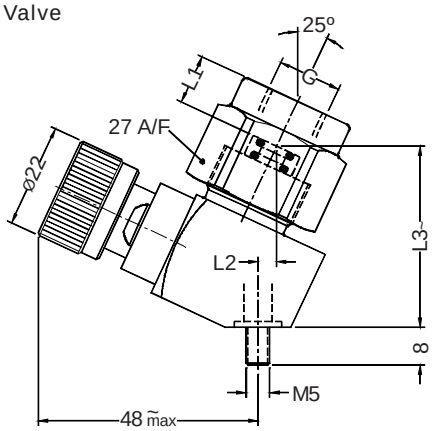
G	G 1/4	G 3/8	G 1/2
L1	10.5	10.5	12.5
L2	27.5	28.0	28.0

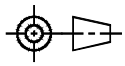
Pressure Gauge Isolator Valve, Model : 1GI

Ref. No : H03154 Release March 2018 (Dimensions in mm)

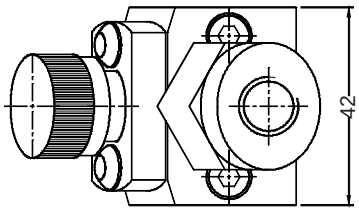
the right connection
the right environment

Sub-plate Mounting Valve

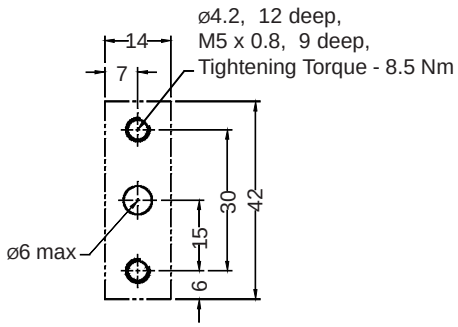




G	G 1/4	G 3/8	G 1/2
L1	10.5	10.5	12.5
L2	4.0	4.0	4.0
L3	38.5	39.0	39.0



Valve Interface



Technical Specifications

Construction	Seat type.
Mounting	Sub-plate mounting interface/Panel mounting (Threaded body)
Interface standard	Factory standard.
Mounting position	Optional
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +70 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.
Mass	0.3 Kg.

Ordering Code

1GI	M	G02	–	2.0

Gauge Isolator Valve
(With Hand knob)

Sub-plate mounting	M
Panel Mount (Threaded)	P

Gauge Port	
G 1/4	G02
G 3/8	G03
G 1/2	G04

Design Series
Subject to revision

Seals	
Omit	Nitrile
V	FKM

Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-1GIMG02-2.0**

Pressure Gauge Isolator Valve, Panel Mounting, Model : 1GIP

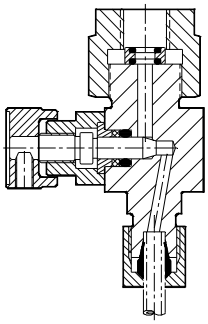
Ref. No : H05427, Release March 2018 (Dimensions in mm)

the right connection
the right environment

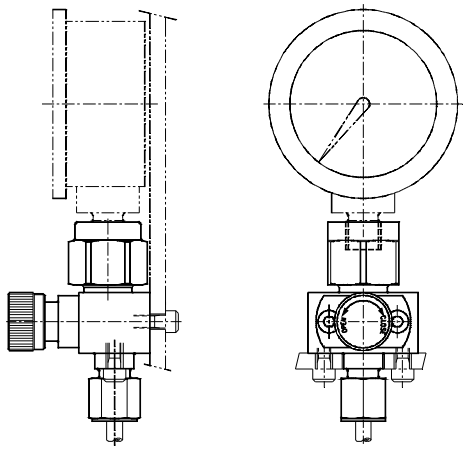
Description

Seat type Valve for isolating pressure gauges in the systems.
Leakage free construction. No return line needed.
Compact Assembly.
Valve can be mounted on vertical as well as on the horizontal panel face.

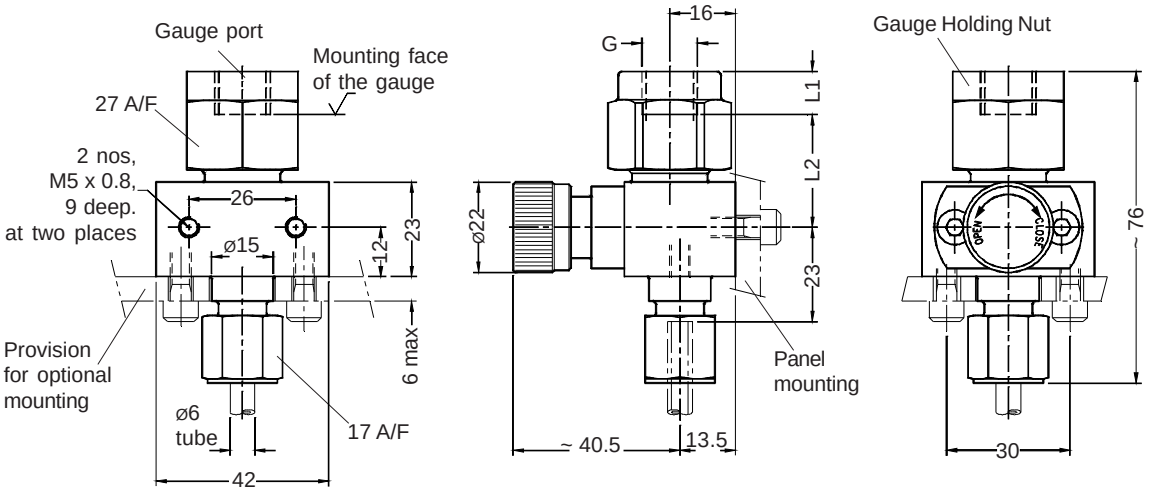
Section



Hydraulic Symbol



Unit Dimensions



G	G 1/4	G 3/8	G 1/2
L1	10.5	10.0	12.0
L2	27.5	28.5	28.5

Technical Specifications

Construction	Seat type.
Mounting	Panel mounting.
Mounting position	Optional.
Operating pressure	350 bar.
Hydraulic medium	Mineral Oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 ºC to +70 ºC.
Fluid cleanliness	As per ISO 19/16. requirement

Instructions for Gauge Assembly

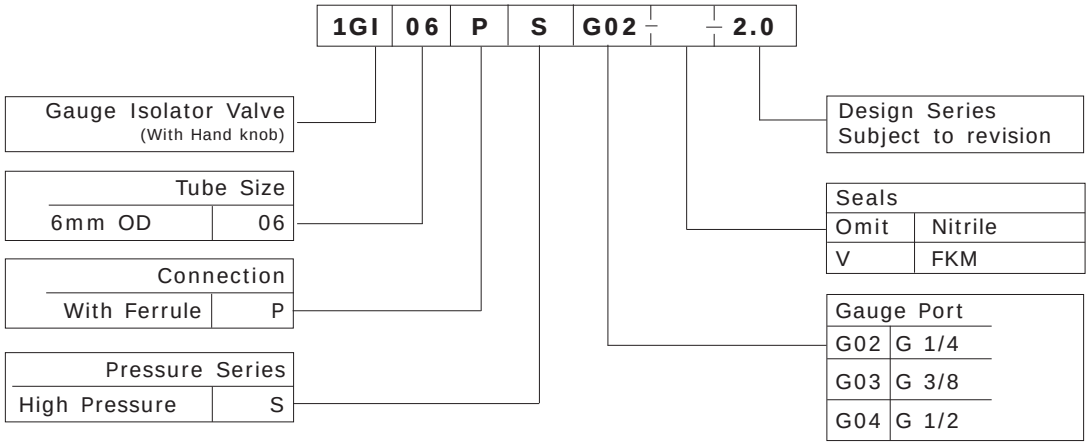
* Screw in the Gauge Holding Nut onto the valve till its bottom face of it touches the face of the valve body.
* Insert the sealing ring from the top of the nut.
* Screw in the gauge into the Gauge Holding Nut till its sealing face touches the sealing ring.
* Loosen the gauge (if required) by rotating it in anti-clockwise direction till the face of the gauge points towards desired position.
* Mount the Gauge Isolating Valve on to the panel.
* Rotate the Gauge Holding Nut by means of a spanner in anti- clockwise direction to tighten the gauge onto the sealing ring. While rotating the nut, hold the gauge to its proper orientation.

Pressure Gauge Isolator Valve, Panel Mounting, Model : 1GIP

Ref. No : H05427, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Ordering Code



Note : Add prefix 316 to the existing part code for SS 316 valves. e.g. **316-1GI06PSG02-2.0**

Pressure Gauge Mounting Block
GMB

Ref. No. H14287
Release: Jan 2019

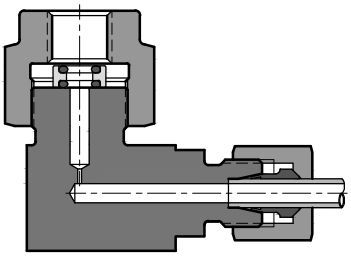
Description

Gauge mounting blocks GMB are meant for applications where a pressure gauge is permanently connected to a pressure line (no isolator valve in between) and needs to be mounted on a hydraulic manifold or a control panel.

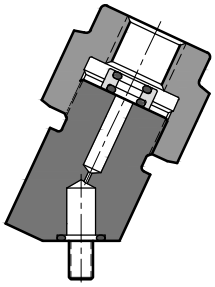
The mounting blocks offer following advantages,

- Simple machining of the interface /panel
- Quick assembly,
- Ease of axial orientation of the Pressure gauge face for proper alignment.
- Compact and elegant assembly,
- Easy readability of the gauge.

Section



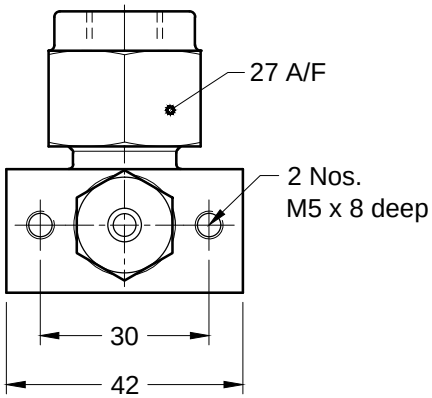
Panel Mounting, Model: GMB-P

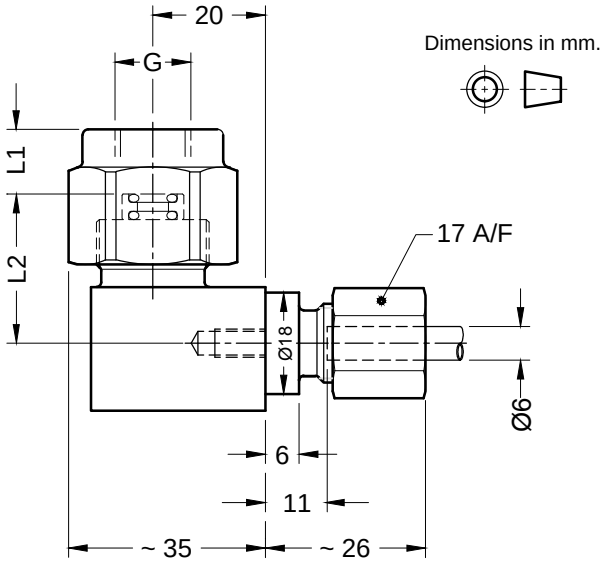


Subplate Mounting, Model: GMB-M

Unit Dimensions

Gauge mounting Block, Panel Mounting
Model: GMB-P

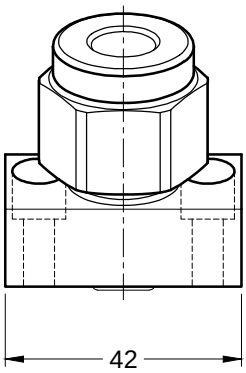


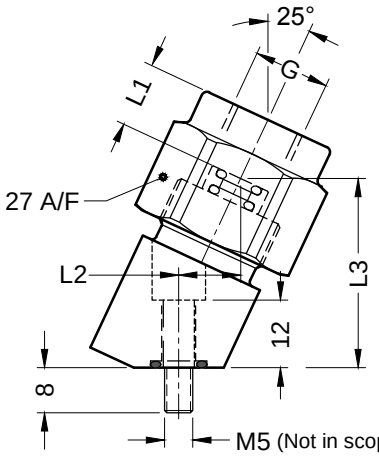


G	G 1/4	G 3/8	G 1/2
L1	11.5	11.5	12.5
L2	27.5	28.5	28.5

Unit Dimensions

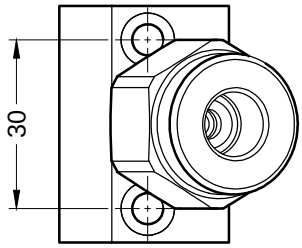
Gauge mounting Block,Subplate Mounting
Model: GMB-M



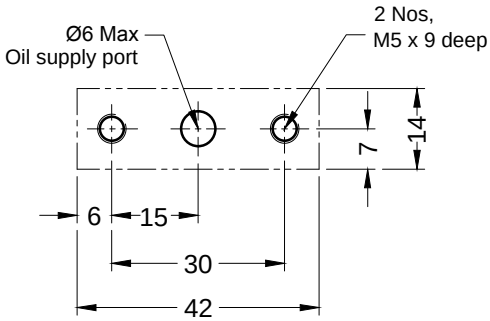


Tightening torque
8.5 Nm

G	G 1/4	G 3/8	G 1/2
L1	11.5	11.5	12.5
L2	11.0	11.5	11.5
L3	33.5	33.5	34.5



Mounting Interface



Technical Specifications

Mounting	Sub-plate mounted or Panel mounted
Interface standard	Factory standard.
Mounting position	Optional
Operating pressure	350 bar.
Hydraulic medium	Mineral oil.
Fluid temperature range	-20 °C to +70 °C.

Ordering Code

GMB	M	G02		2.0

Gauge Mounting Block

Sub plate mounting	**M**
Panel mounting	**P**

Gauge Port	
G 1/4	**G02**
G 3/8	**G03**
G 1/2	**G04**

Design Series
Subject to revision

Seals	
Omit	Nitrile
V	FKM (Viton)

Gauge Isolator Valve (PUSH TO READ), Model : GI

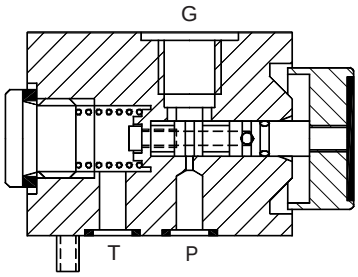
Ref. No : H03542, Release March 2018 (Dimensions in mm)

the right connection
the right environment

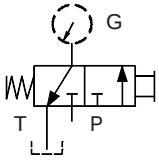
Description

The pressure gauge isolator valve model GI is meant for checking the system pressure to which it is connected.
The valve is a spool type, spring off-set, manually operated device.
In normal condition the valve blocks the pressure port and keeps the pressure gauge connected to the drain. Thus isolating the gauge from system pressure surges and eliminating continuous pressure strain on the gauge.
By pushing the actuator knob of the valve, system pressure can be read on the gauge.
The valve is available either for mounting on a sub-plate or with threaded ports.
The pressure gauge can either be directly mounted on the valve or can be connected remotely.

Section

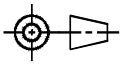


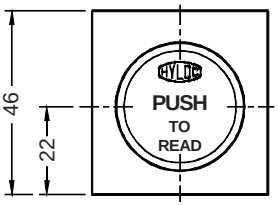
Hydraulic Symbol

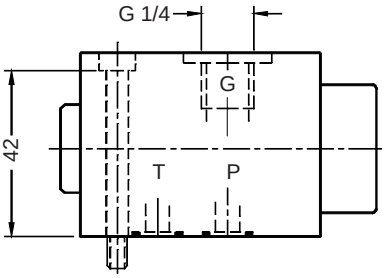


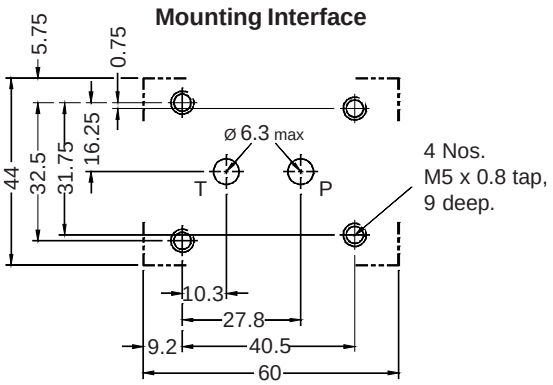
Unit Dimensions

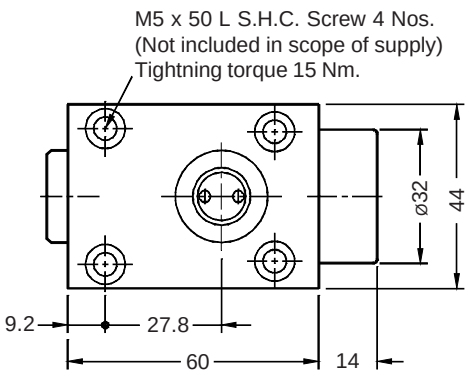
Model GIM - Sub-plate mounting Valve









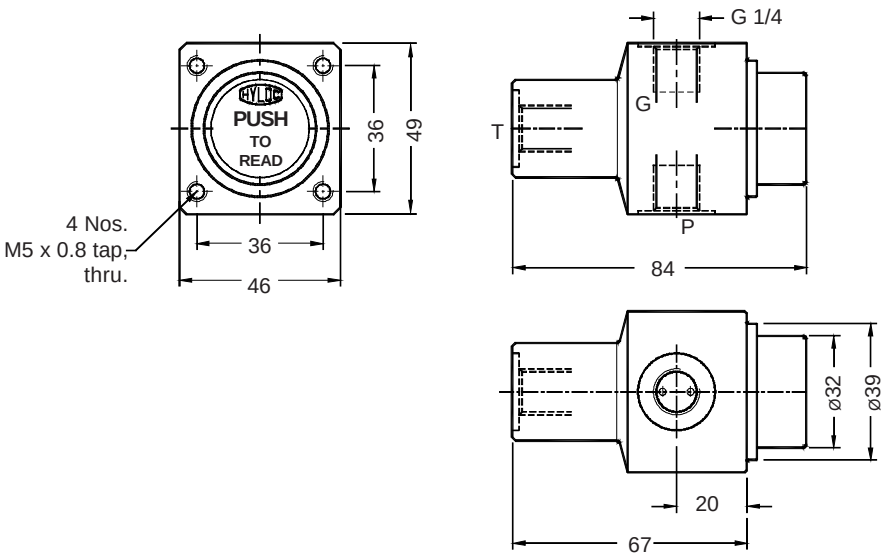


Gauge Isolator Valve (PUSH TO READ), Model : GI

Ref. No : H03542, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Model GIP - Valve with threaded ports



Technical Specifications

Construction	Spool type, manually operated, spring off-set.
Mounting	Sub-plate mounting, conforming to IS 10187 ISO 4401 - AB - 03 - 4 - A DIN 24340 (Only `A' and `B' ports used.)
Mounting position	Optional
Flow direction	As indicated by the hydraulic symbol.
Operating pressure	210 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-10 °C to +80 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.

Ordering Code

GI	M	G02	–	–	2.1

Gauge Isolator Valve (PUSH TO READ)

Sub-plate mounting	M
With threaded ports	P

G 1/4 Gauge Port size

Design Series
Subject to revision

Installation dimensions remain same

Seals	
Omit	Nitrile
V	FKM

Note : To mount Pressure gauges having G 3/8 or G 1/2 end connection, use of Gauge mounting Adaptor is recommended. Consult marketing@hyloc.co.in

Gauge Isolator Valve (PUSH TO READ), Model : GIB

Ref. No : H04695, Release March 2018 (Dimensions in mm)

the right connection
the right environment

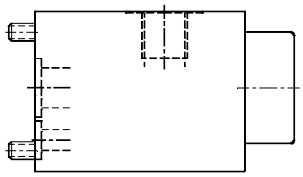
Description

The Pressure gauge Isolator valve, model **GIB** is meant for checking the system pressure to which it is connected.

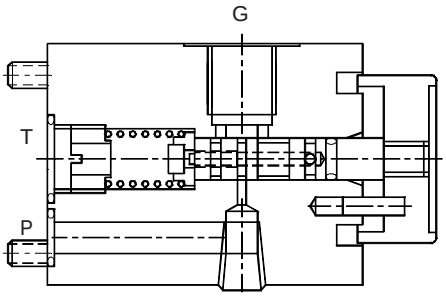
The valve is a spool type, spring off-set, manually operated device. In normal condition the valve blocks the pressure port and keeps the pressure gauge connected to the drain. Thus isolating the gauge from system pressure surges and eliminating continuous pressure strain on the gauge.

By pushing the actuator knob of the valve, system pressure can be read on the gauge.

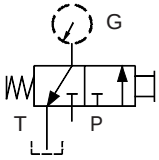
This is back face mounting valve, with factory standard Interface.



Section

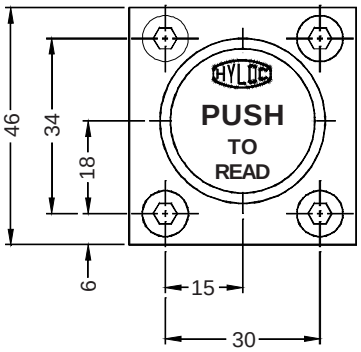


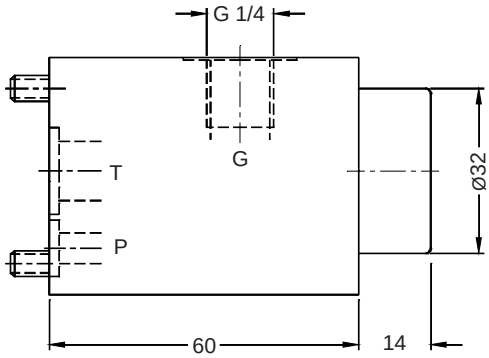
Hydraulic Symbol



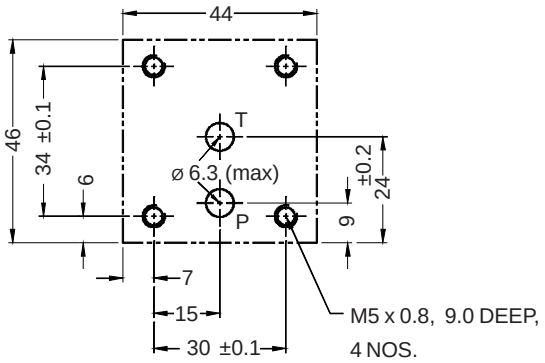
Unit Dimensions

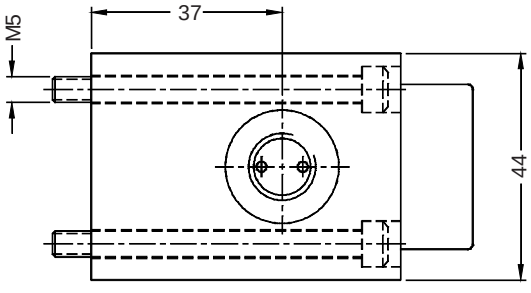
Sub-plate mounting Valve (Back face mounting)





Mounting Interface (Factory standard)





Note : Use S.H.C. Screws - M5 x 60 long - 4 nos. (Not Included in scope of supply)
Tightening Torque 15 N-m.

Gauge Isolator Valve (PUSH TO READ), Model : GIB

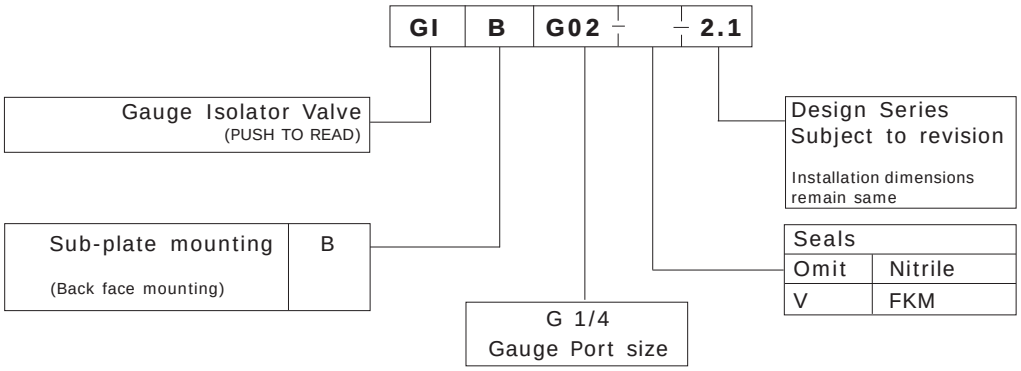
Ref. No : H04695, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction	Spool type, manually operated, spring off-set.
Mounting	Back face mounting. Factory standard interface.
Mounting position	Optional
Flow direction	As indicated by the hydraulic symbol.
Operating pressure	210 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-10 °C to +80 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.

Ordering Code



Note : To mount Pressure gauges having G 3/8 or G 1/2 end connection, use of Gauge mounting Adaptor is recommended. Consult marketing@hyloc.co.in

Gauge Isolator Valve (PUSH TO READ), Model : GIMH

Ref. No : H04706, Release March 2018 (Dimensions in mm)

the right connection
the right environment

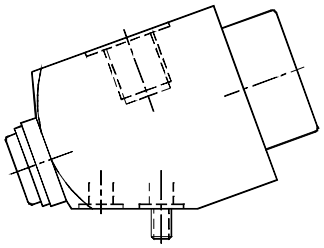
Description

The Pressure gauge Isolator valve, model **GIMH** is meant for checking the system pressure to which it is connected.

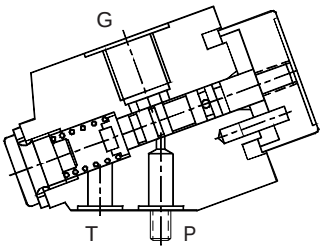
The valve is a spool type, spring off-set, manually operated device.
In normal condition the valve blocks the pressure port and keeps the pressure gauge connected to the drain. Thus isolating the gauge from system pressure surges and eliminating continuous pressure strain on the gauge.

By pushing the actuator knob of the valve, system pressure can be read on the gauge.

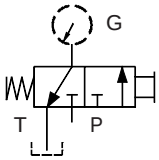
Angular gauge face plane in Sub-plate mounting construction (factory std Interface) facilitating easy gauge reading.



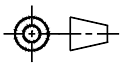
Section



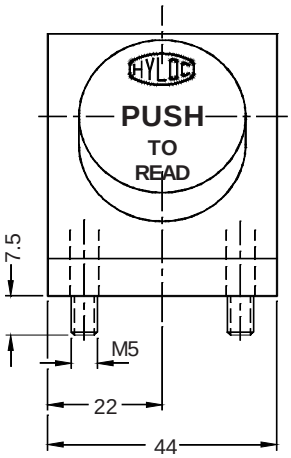
Hydraulic Symbol

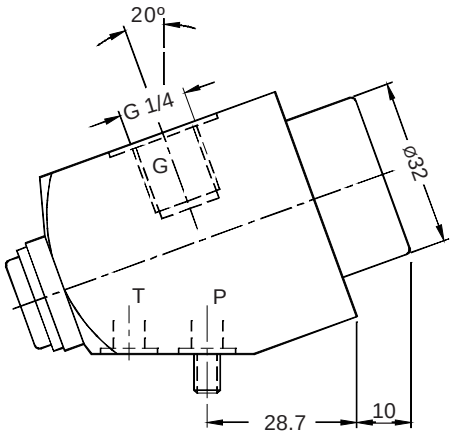


Unit Dimensions

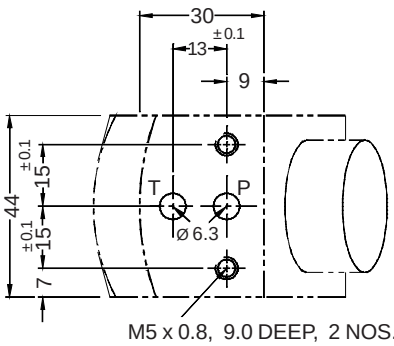


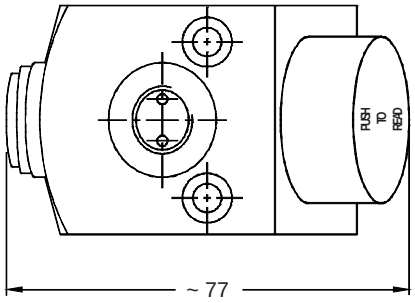
Sub-plate mounting Valve





Interface (Factory standard)





Note : Use S.H.C. Screws - M5 x 40 long - 2 nos.
(Not Included in scope of supply)
Tightening Torque - 8.5 Nm.

Gauge Isolator Valve (PUSH TO READ), Model : GIMH

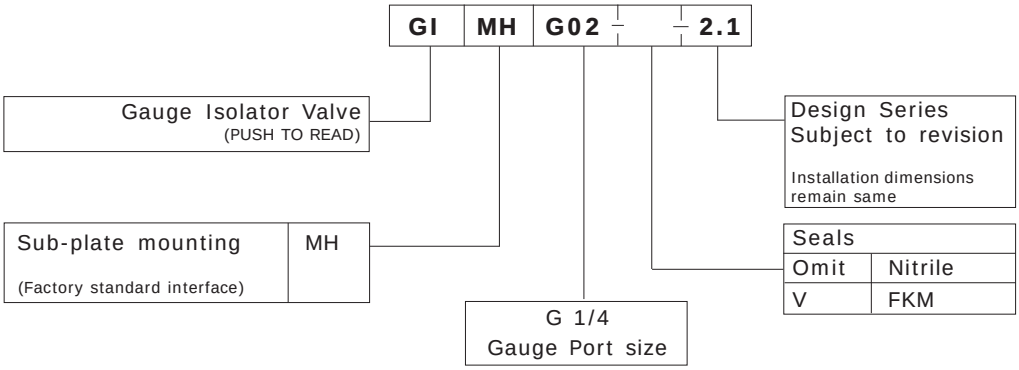
Ref. No : H04706, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction	Spool type, manually operated, spring off-set.
Mounting	Sub-plate mounting mounting. Factory standard interface.
Mounting position	Optional
Flow direction	As indicated by the hydraulic symbol.
Operating pressure	210 bar.
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-10 °C to +80 °C.
Fluid cleanliness requirement	As per ISO 19/16 or better.

Ordering Code



Note : To mount Pressure gauges having G 3/8 or G 1/2 end connection, use of Gauge mounting Adaptor is recommended. Consult marketing@hyloc.co.in

Quick Disconnect Coupling, Model : QDC

Ref. No : H03297, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Description

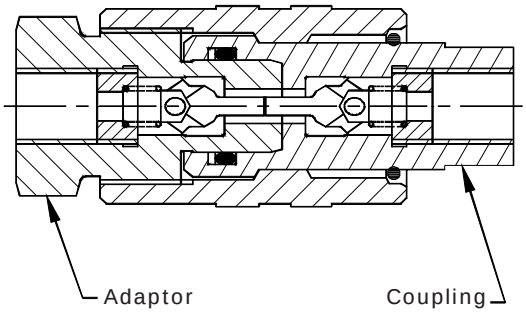
Quick disconnect couplings are designed for applications where fast connection and disconnection of hydraulic lines is a need of the system.

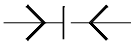
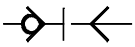
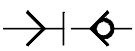
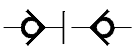
These coupling when connected offer unrestricted flow passage.

They are designed for reliable and safe operations by avoiding premature flow before the coupling is fully closed.

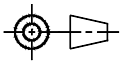
Section

(Self sealing Coupling, Self sealing Adaptor, Illustrated)



Hydraulic Symbol	Coupling Type	
	Through type Adaptor Through type Coupling	AT CT
	Self sealing Adaptor Through type Coupling	AS CT
	Through type Adaptor Self sealing Coupling	AT CS
	Self sealing Adaptor Self sealing Coupling	AS CS

Unit Dimensions



End connections (Female)

BSP - **G**
Metric - **M**

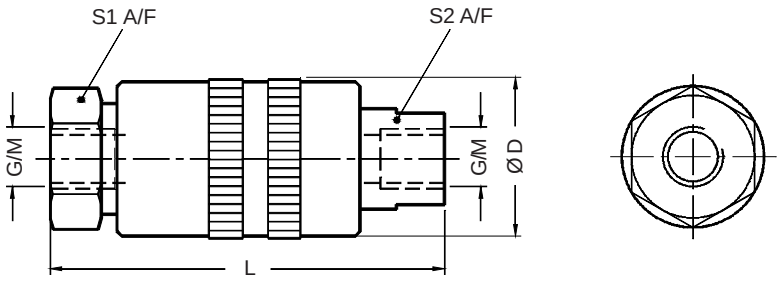


Table 1

Pressure (bar)	G	M	S1	S2	ØD	L
800	G 1/4	M14x1.5	27	19	35	86
800	G 3/8	M18x1.5	32	22	37	88
600	G 1/2	M22x1.5	41	30	46	116
500	G 3/4	M26x1.5	50	36	56	130
400	G1	M33x2.0	55	41	62	150

Quick Disconnect Coupling, Model : QDC

Ref. No : H03297, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction	Poppet type.
Operating pressure	Refer table no.1
Hydraulic medium	Mineral oil.
Viscosity range	10 cSt to 380 cSt.
Fluid temperature range	-20 °C to +80 °C.
Fluid cleanliness	As per ISO code 19/16 or better
Maximum flow handling capacity	M14 x 1.5 G 1/4
	M18 x 1.5 G 3/8 - 30 lpm
	M22 x 1.5 G 1/2
	M26 x 1.5 G 3/4
	M33 x 2.0 G 1

Caution : Pressure on the hydraulic lines must be relieved before they are connected / disconnected.

Ordering Code

QDC	G02	AS	CS	–	V	–	2.0

Quick Disconnect Coupling

End Connections	
G 1/4	G02
G 3/8	G03
G 1/2	G04
G 3/4	G06
G1	G08
M14x1.5	M14
M18x1.5	M18
M22x1.5	M22
M26x1.5	M26
M33x2.0	M33

Design Series
Subject to revision

Seal material	
Omit	Nitrile
V	FKM
X	Without O-Ring

Coupling Type	
Omit	For Adaptor Only
CS	Self sealing
CT	Through type

Adaptor Type	
Omit	For Coupling Only
AS	Self sealing
AT	Through type

Note : Add prefix 316 to the existing part code for SS 316 Quick disconnect couplings.

e.g. **316-QDCG02ASCS-2.0**

Accumulator Safety Block, Model : ASB

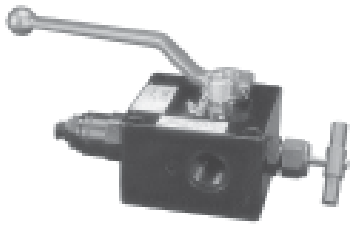
Ref. No : H05648, Release March 2018 (Dimensions in mm)

the right connection
the right environment

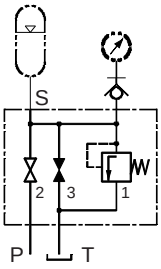
Description

The block is intended for protection, isolation and depressurization of a hydraulic accumulators.

Compact, block - shaped unit with adjustable Relief valve.

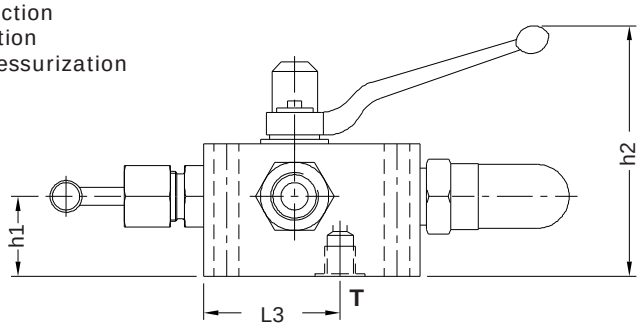


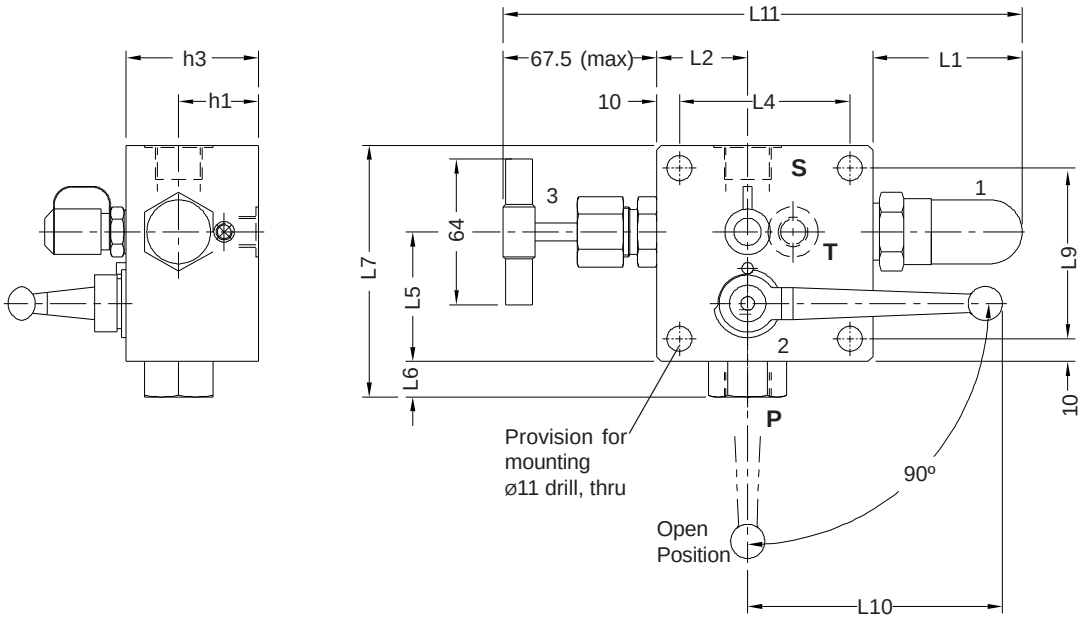
Unit Dimensions



1. Pr. Relief Valve - For protection
2. Ball Valve - For Isolation
3. Shut off Valve - For depressurization

Hydraulic Symbol





Ordering Code	L1	L2	L3	L4	L5	L6	L7	L9	L10	L11	h1	h2	h3	S	P	T
ASB10	65	40	60	75	57	15.5	110.5	75	112	227.5	35	110	58	G 1/2, 15 deep	G 1/2, 15 deep	G 1/4, 13 deep
ASB20	80	41	69	90	67	16.5	121.5	85	187	295.5	39	128	70	G 3/4, 17 deep	G 3/4, 17 deep	G 3/8, 13 deep
ASB32	80	41	69	90	67	38.0	158.0	100	187	295.5	39	128	70	G1.1/4, 21 deep	G1.1/4, 21 deep	G 3/8 13 deep

Accumulator Safety Block, Model : ASB

Ref. No : H05648, Release March 2018 (Dimensions in mm)

the right connection
the right environment

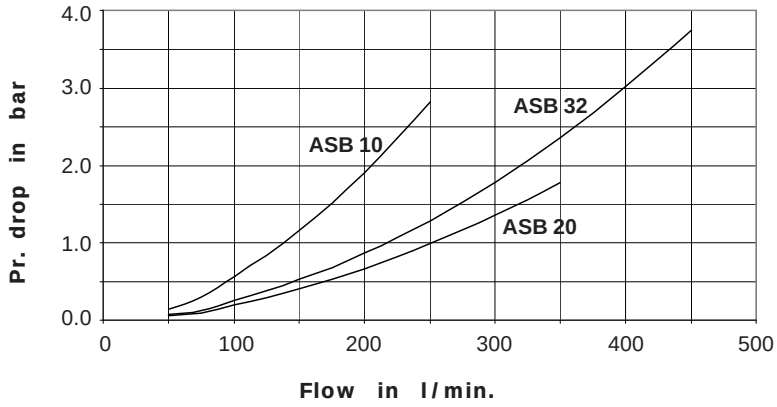
Technical Specifications

Construction	1. Relief Valve -	Poppet type. (Metal to metal sealing)
	2. Ball Valve -	Ball and synthetic seat type.
	3. Shut off Valve -	Seat type. (Metal to metal sealing)
Mounting style	Threaded ports.	
Interface	Factory standard.	
Mounting position	Optional	
Flow direction	Port 'P' to 'S' and Port 'S' to 'P'	
Operating pressure	Port `P' and port `S' - 350 bar.	
	Port `T' — — — —- 16 bar	
Pressure setting ranges	0 to 25, 50, 100, 200 and 350 bar	
Hydraulic medium	Mineral oil.	
Viscosity range	10 cSt to 380 cSt.	
Fluid temperature range	-20 °C to +70 °C	
Fluid cleanliness requirement	As per ISO 19/16 or better.	
Mass	**ASB 10**	4.5 Kg.
	ASB 20	7.0 Kg.
	ASB 32	8.0 Kg.
Flow handling capacity	Refer graph	

Expected performance curves

Oil used : ISO VG 68,

Viscosity : 68 cSt @ 40 °C



Ordering Code

ASB	10	200	–	–	2.0

Accumulator Safety Block

Size
DN 10 - 10
DN 20 - 20
DN 32 - 32

Seals	
Omit	Nitrile
V	FKM

Pressure Setting (bar)
25
50
100
200
350

Design Series
Subject to revision

Diagnostic Coupling	Test point Connector
	
MMC	MMC - VK

Diagnostic Coupling, Model : MMC

Ref. No : H04312, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Description

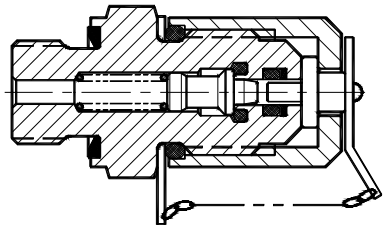
Diagnostic Couplings are intended to provide facility to access system pressure for the purpose of pressure measurement.

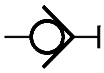
For transmitting pressure through these couplings to the measuring devices, no special tools are needed. These couplings can be connected by hand even at rated pressure.

These couplings are equipped with protective caps to avoid ingress of foreign particles, when the couplings are not in use. This is also a Safety device against vibration.

These couplings also can be used for purging air from the system. Working Pressure 630 bar (9000 PSI) according to ISO 15171-2

Section

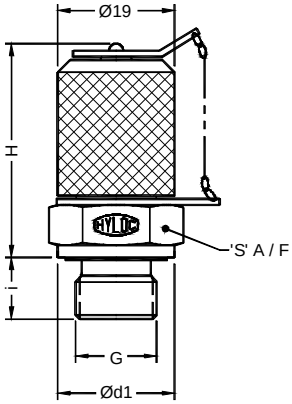




Hydraulic Symbol

Unit Dimensions

For **M16 x 2.0 (1620), M16 x 1.5 (1615)**
and for special thread at Hose end. (**1215**)



Stud end threads	Sealing details	Working Pressure	Ød1	i	For 1615 and 1620 H	For 1615 and 1620 S	For 1215 H	For 1215 S
ISO 228 - G 1/8	Elastomeric seal (DIN 3852)	400 bar	14	8	38	17	38	14
ISO 228 - G 1/4		630 bar	19	10	35	19	29	19
ISO 228 - G 3/8		630 bar	22	10	35	22	29	22
M8 x 1.0	O-Ring (ISO 6149)	250 bar	12	8.5	40	17	38	14
M10 x 1.0	Elastomeric seal (DIN 3852)	630 bar	14	8.5 * 9.5	40	17	38	14
M12 x 1.5	O-Ring (ISO 6149)		17	10.0 *11.0	35	17	29	17
M14 x 1.5			19	10.0 *11.5	35	19	29	19
M16 x 1.5			22	10.0 *12.5	35	22	29	22
7/16"-20 UNF	O-Ring (SAE J514)	630 bar	14.1	9.0	35	17	30	17
9/16"-18 UNF			17.3	10.0	35	19	29	19
1/8 NPTF	Self sealing threads	400 bar	--	9.7	35	17	30	14
1/4 NPTF			--	14.2	35	17	29	14
ISO 7/1 - R 1/8	Sealing by suitable jointing solutions	400 bar	--	7.5	35	17	32	14
ISO 7/1 - R 1/4		630 bar	--	11.0	35	17	29	14

* Marked dimensions are for stud ends with O' Ring sealing

Diagnostic Coupling, Model : MMC

Ref. No : H04312, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction . . . . . Spring loaded poppet type, opens on assembly by hose.

Materials Body . . . . . Carbon steel. stainless steel on request.

Cap . . . . . Carbon steel or Plastic.

Hydraulic medium . . . . . Mineral oil.

Sealings . . . . . Nitrile (standard) and Viton on request.

Temperature range

With metal cap (Standard) . . . . . Sealing by Nitrile : -30 ºC to +120 ºC

Viton : -20 ºC to +200 ºC

with Plastic cap (Optional) . . . . . Sealing by Nitrile : -30 ºC to +100 ºC

Viton : -20 ºC to +100 ºC

Ordering Code

MMC	1620	G02	E – P	V – 20

MMC — Diagnostic Coupling

V – 20 — Design Series Subject to revision

Micro bore flex hose thread size	
M16 x 2.0	1620
M16 x 1.5	1615
Special threads 12 x 1.5	1215

Seal Material	
Omit	Nitrile
V	Viton

Protective Cap	
Omit	Metal Cap
P	Plastic Cap

Stud end sealing	
E	Elastomeric seal
O	O' Ring

Stud ends	Code
ISO 228 - G 1/8	G01
ISO 228 - G 1/4	G02
ISO 228 - G 3/8	G03
M8 x 1.0	M8
M10 x 1.0	M10
M12 x 1.5	M12
M14 x 1.5	M14
M16 x 1.5	M16
7/16"-20 UNF	S04
9/16"-18 UNF	S06
1/8" NPTF	N01
1/4" NPTF	N02
ISO 7/1 - R1/8	R01
ISO 7/1 - R1/4	R02

Note : Add prefix 316 to the existing part code for SS 316 Diagnostic coupling.
e.g. **316-MMC1620G02E-20**

Diagnostic connector, Model : MMC-VK

Ref. No : H11212, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Description

Diagnostic connectors, hoses, are intended to provide facility to access system pressure for the purpose of pressure measurement.

For transmitting pressure through these couplings to the measuring devices, no special tools are needed. These couplings can be connected by hand even at rated pressure.

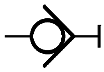
These couplings are equipped with protective caps to avoid ingress of foreign particles, when the couplings are not in use. This is also a Safety device against vibration.

These connectors are equipped with swivel nut and O-Ring, which can be directly connected to any fitting with tube end (DIN 2353)

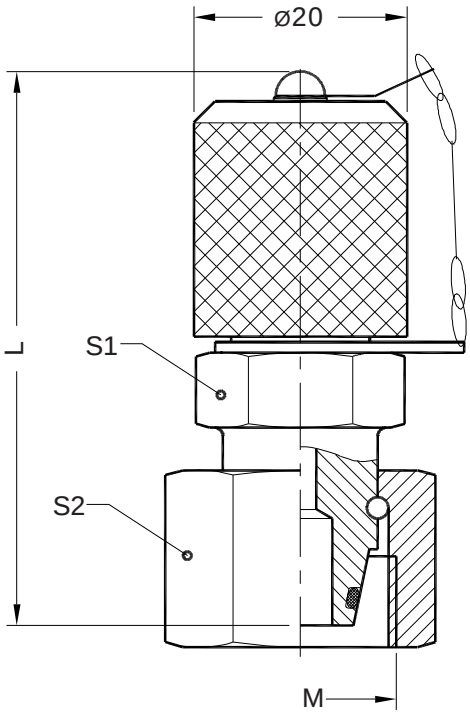
These couplings also can be used for purging air from the system. Working Pressure 630 bar (9000 PSI) according to ISO 15171-2

Unit Dimensions

For **M16 x 2.0 (1620), M16 x 1.5 (1615)**



Hydraulic Symbol



Tube od	Pr. (bar)	M	L	S1	S2
6	315 bar	M12 x 1.5	52.0	17	14
8		M14 x 1.5	52.0	17	17
10		M16 x 1.5	52.0	17	19
12		M18 x 1.5	52.0	17	22
15		M22 x 1.5	52.0	19	27
18	160 bar	M26 x 1.5	52.0	22	32
22		M30 x 2.0	60.0	27	36
6	630 bar	M14 x 1.5	52.0	17	17
8		M16 x 1.5	52.0	17	19
10		M18 x 1.5	52.0	17	22
12		M20 x 1.5	52.0	17	24
16	400 bar	M24 x 1.5	52.0	22	30
20		M30 x 2.0	63.0	27	36

Diagnostic connector, Model : MMC - VK

Ref. No : H11212, Release March 2018 (Dimensions in mm)

the right connection
the right environment

Technical Specifications

Construction . . . . . Spring loaded poppet type, opens on assembly by hose.

Materials Body . . . . . Carbon steel. stainless steel on request.

Cap . . . . . Carbon steel or Plastic.

Hydraulic medium . . . . . Mineral oil.

Sealings . . . . . Nitrile (standard) and Viton on request.

Temperature range

With metal cap (Standard) . . . . . Sealing by Nitrile : -30 ºC to +120 ºC

Viton : -20 ºC to +200 ºC

with Plastic cap (Optional) . . . . . Sealing by Nitrile : -30 ºC to +100 ºC

Viton : -20 ºC to +100 ºC

Ordering Code

MMC	1620	VK	06L	P – V –	20

Diagnostic Coupling

Design Series
Subject to revision

Micro bore flex hose thread size	
M16 x 2.0	1620
M16 x 1.5	1615
Special threads 12 x 1.5	1215

Seal Material	
Omit	Nitrile
V	Viton

Diagnostic Connector	VK

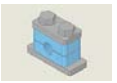
Protective Cap	
Omit	Metal Cap
P	Plastic Cap

Tube end	Size
6 OD (LP Series)	06L
8 OD (LP Series)	08L
10 OD (LP Series)	10L
12 OD (LP Series)	12L
15 OD (LP Series)	15L
18 OD (LP Series)	18L
22 OD (LP Series)	22L
06 OD (HP Series)	06S
08 OD (HP Series)	08S
10 OD (HP Series)	10S
12 OD (HP Series)	12S
16 OD (HP Series)	16S
20 OD (HP Series)	20S

Note : Add prefix 316 to the existing part code for SS 316 Diagnostic connectors.
e.g. **316-MMC1620VK06L-20**

Clamps

Tube Clamps



7TR/AM/PCSH

STC

Tube and Pipe Clamps

Ref. No : H04732A, Release Jan 2006 (Dimensions in mm)

the right connection

Description

Tube & pipe clamps are used in installations to pro vide rigid support to the pipes both in lateral & longitudinal directions releiving stresses caused by unequal movements in the pipe line.

The use of clamps will also prevent the transmission of vibrations from the pipe to the frame & vice versa. Loosening of joints , welds & leakage in the system can be avoided by the rigidity provided by the clamps.

These are av ailable in Metric Series from T ube o.d. of 6 mm to 38 mm.

Unit Dimensions

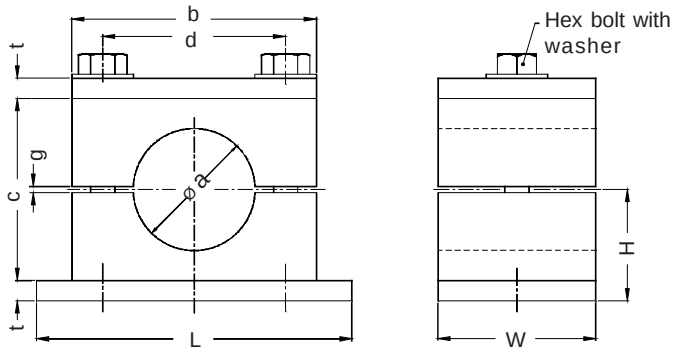


Table 1

Group No	Tube Size		L	c	t	g	b	d	W	H
	Øa	Code								
HA	06	006	73	32	8	1	55	33	30	24
	08	008								
	10	010								
	12	012								
	14	014								
	15	015								
	16	016								
	18	018								
HB	20	020	85	48	8	1	70	45	30	32
	22	022								
	25	025								
	28	028								
	30	030								
HC	30	030	100	60	8	1	85	60	30	38
	35	035								
	38	038								
HD	38	038	140	90	10	2	115	90	45	55
	42	042								

Ordering Code

7TR/AM/PCS	HA	016	PP

Heavy duty
Single clamp series

Group
(Refer. Table No. 1)

HA
HB
HC
HD

Tube Size
(Refer. Table No. 1)

Clamp Material	
PP	Polypropylene
PY	Polyamide
AL	Aluminium

Description

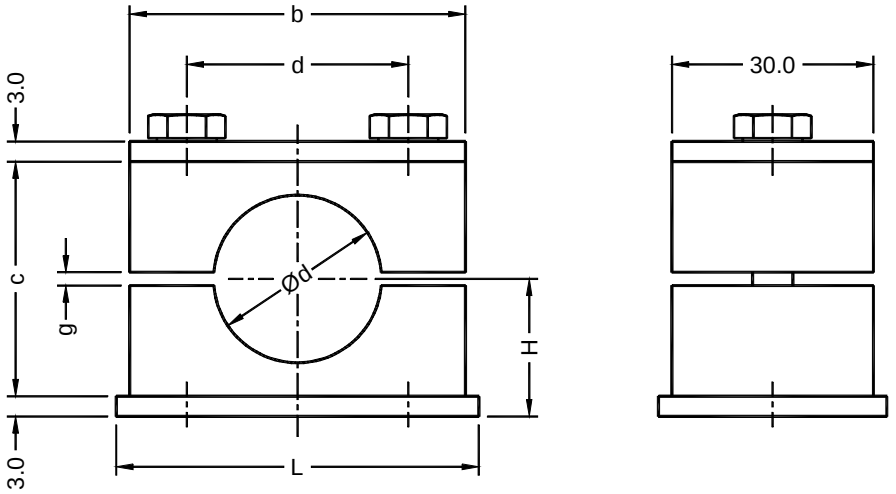
Tube & pipe clamps are used in installations to provide rigid support to the pipes both in lateral & longitudinal directions releiving stresses caused by unequal movements in the pipe line.

The use of clamps will also prevent the transmission of vibrations from the pipe to the frame & vice versa. Loosening of joints , welds & leakage in the system can be avoided by the rigidity provided by the clamps.

These are available in Metric Series from Tube o.d. of 6 mm to 42 mm.

Unit Dimensions

Dimensions in mm



Group No.	Tube Size (Ød)	L	c	g	b	d	H	Bolt Size
1a	6 8 10	36	27	0.6	37	20	15	M6 x 30
	12							
2	14 15	42	33	0.6	42	26	18	M6 x 35
	16 18							
3	20	50	35	0.6	50	33	19	M6 x 40
	22 25							

hyloc hydrotechnic pvt. ltd
C-26, Industrial Estate, Udyambag,
BELGAUM, 590 008. (INDIA)

Phone : 91- 831- 441448, 441034
Fax : 91- 831- 441379, 441610
http : // www.hylochydrotechnic.com
E-mail : hyloc@sancharnet.in

Ordering Code

STC	M 12	P

Standard Series
Tube Clamps

Material
P - Polypropylene

Tubes		
O.D.		Code
06	**-**	**M 06**
08	**-**	**M 08**
10	**-**	**M 10**
12	**-**	**M 12**
14	**-**	**M 14**
15	**-**	**M 15**
16	**-**	**M 16**
18	**-**	**M 18**
20	**-**	**M 20**
22	**-**	**M 22**
25	**-**	**M 25**

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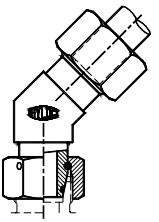
New Releases

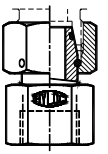
July 2009 ------- Adjustable Locknut Elbow for BSPP stud ends : WEE-G

July 2009 -------90º Swivel Nut Elbow for 37º flared T ube ends : EW -TRX

Feb. 2010 -------45º Swivel Elbow Couplings with O Ring : EV



May 2016 -------Female Standpipes with O ring : EGE - GF

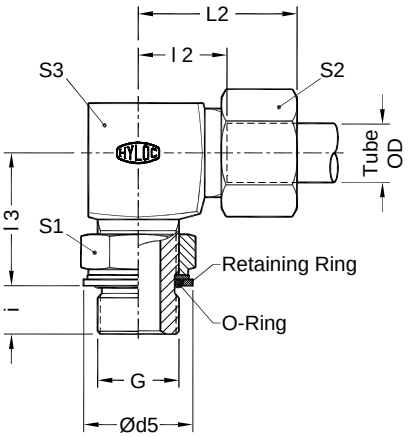


HYLOC®
the right connection

Adjustable Locknut Elbow — WEE - G

Dimensions in mm — DIN Fittings

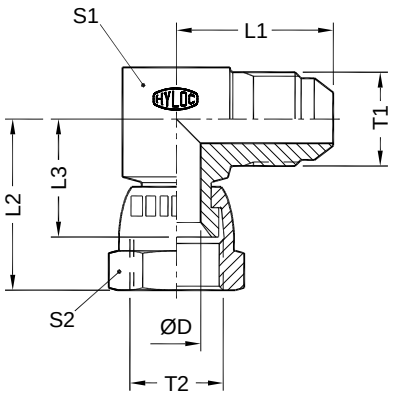
Metric Tube end as per ISO 8434
Male Stud - Adjustable BSPP (G) threads
with O-Ring and Retaining ring
as per ISO 1179-3



Part No.	Series	Tube od	BSPP thread G	ød5	i	l 2	* L2	l 3	S1	S2	S3
WEE06PLG	**Light L**	6	G 1/8 A	15.0	7.0	14.0	29	19	14	14	12
WEE08PLG	200 bar	8	G 1/4 A	19.5	9.0	16.0	31	23	19	17	14
WEE10PLG		10	G 1/4 A	19.5	9.0	17.0	33	25	19	19	17
WEE12PLG		12	G 3/8 A	23.5	9.0	19.0	34	28	22	22	19
WEE15PLG		15	G 1/2 A	28.5	13.0	21.0	37	30	27	27	22
WEE18PLG		18	G 1/2 A	28.5	13.0	23.5	41	36	27	32	27
WEE22PLG		22	G 3/4 A	34.5	13.0	27.5	45	36	36	36	30
WEE28PLG		28	G1 A	43.5	15.0	30.5	49	44	41	41	36
WEE35PLG	160 bar	35	G1.1/4 A	52.5	15.0	37.5	60	50	50	50	46
WEE42PLG		42	G1.1/2 A	60.0	15.0	38.0	61	52	55	60	55
WEE06PSG	**Heavy S**	6	G 1/4 A	19.5	9.0	15.0	30	23	19	17	14
WEE08PSG	200 bar	8	G 1/4 A	19.5	9.0	17.0	32	27	19	19	17
WEE10PSG		10	G 3/8 A	23.5	9.0	17.5	35	29	22	22	19
WEE12PSG		12	G 3/8 A	23.5	9.0	21.5	38	29	22	24	22
WEE16PSG		16	G 1/2 A	28.5	13.0	25.5	45	36	27	30	24
WEE20PSG		20	G 3/4 A	34.5	13.0	27.5	50	39	36	36	30
WEE25PSG		25	G1 A	43.5	15.0	30.0	55	44	41	46	36
WEE30PSG	160 bar	30	G1.1/4 A	52.5	15.0	35.5	64	49	50	50	46
WEE38PSG		38	G1.1/2 A	60.0	15.0	34.0	66	55	55	60	55

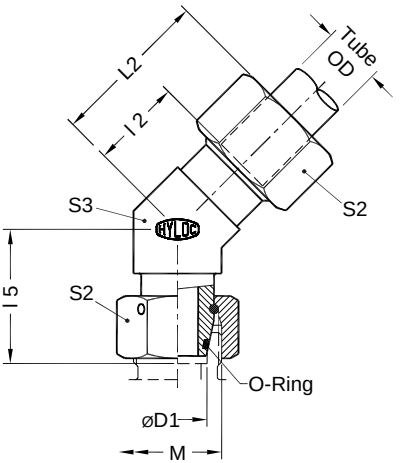
* Dimensions given are approx figures with tightened nut.

37° Flared Tube end as per ISO 8434-2 / SAE J514
37° Flare Female swivel end as per SAE 070221 (J514)



Part No.	Pressure (bar)	Tube od	T1	T2	ØD	L1	L2	L3	S1	S2
EW06TRX	310	6	7/16"-20 UNF	7/16"-20 UNF	4.4	22.6	25.4	16.7	12	17
EW08TRX	275	8	1/2"-20 UNF	1/2"-20 UNF	6.0	24.1	26.9	17.4	14	17
EW10TRX	275	10	9/16"-18 UNF	9/16"-18 UNF	7.5	26.9	31.8	22.3	19	19
EW12TRX	275	12	3/4"-16 UNF	3/4"-16 UNF	9.9	31.8	35.1	24.4	22	24
EW16TRX	210	16	7/8"-14 UNF	7/8"-14 UNF	12.3	36.8	41.1	28.4	24	27
EW20TRX	210	20	1.1/16"-12 UN	1.1/16"-12 UN	15.5	42.2	44.4	30.1	30	32
EW22TRX	170	22	1.3/16"-12 UN	1.3/16"-12 UN	18.0	45.7	45.2	30.5	32	36
EW25TRX	170	25	1.5/16"-12 UN	1.5/16"-12 UN	21.5	46.0	50.8	35.7	36	41
EW30TRX	140	30	1.5/8"-12 UN	1.5/8"-12 UN	27.5	52.3	58.7	42.8	46	50
EW38TRX	105	38	1.7/8"-12 UN	1.7/8"-12 UN	33.5	59.2	65.8	47.2	50	60

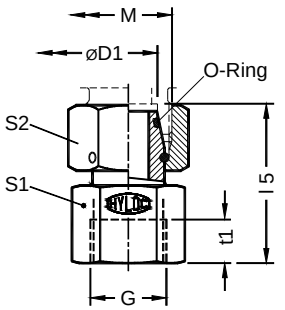
Metric Tube end as per ISO 8434-1



Part No.	Series	Tube od (ØD1)	M	l2	l5	* L2	S2	S3	O-Ring ID x CSD
EV06PL	**Light L**	6	M12 x 1.5	9.0	26.0	24.5	14	12	4.0 x 1.5
EV08PL	315 bar	8	M14 x 1.5	12.0	27.5	27.0	17	14	6.0 x 1.5
EV10PL		10	M16 x 1.5	12.0	29.0	27.5	19	17	7.5 x 1.5
EV12PL		12	M18 x 1.5	14.0	29.5	29.0	22	19	9.0 x 1.5
EV15PL		15	M22 x 1.5	17.0	32.5	33.0	27	22	12.0 x 2.0
EV18PL		18	M26 x 1.5	16.5	35.5	33.5	32	27	15.0 x 2.0
EV22PL	160 bar	22	M30 x 2.0	18.5	38.5	35.5	36	30	20.0 x 2.0
EV28PL		28	M36 x 2.0	23.0	41.5	41.0	41	36	26.0 x 2.0
EV35PL		35	M45 x 2.0	26.5	51.0	49.5	50	46	32.0 x 2.5
EV42PL		42	M52 x 2.0	26.0	56.0	49.5	60	55	38.0 x 2.5
EV06PS	**Heavy S**	6	M14 x 1.5	9.0	27.0	24.5	17	14	4.0 x 1.5
EV08PS	630 bar	8	M16 x 1.5	12.0	27.5	27.0	19	17	6.0 x 1.5
EV10PS		10	M18 x 1.5	13.5	30.0	30.5	22	19	7.5 x 1.5
EV12PS		12	M20 x 1.5	16.5	31.0	33.0	24	22	9.0 x 1.5
EV16PS	400 bar	16	M24 x 1.5	15.5	36.5	34.5	30	24	12.0 x 2.0
EV20PS		20	M30 x 2.0	16.0	44.5	38.5	36	30	16.3 x 2.4
EV25PS		25	M36 x 2.0	18.5	50.0	43.5	46	36	20.3 x 2.4
EV30PS		30	M42 x 2.0	23.5	55.0	51.5	50	46	25.3 x 2.4
EV38PS	315 bar	38	M52 x 2.0	21.0	63.0	52.5	60	55	33.3 x 2.4

* Dimensions given are approx figures with tightened nut.

Metric standpipe with Swivel coupling Nut
Female BSPP (G) threads as per DIN 3852-2



Part No.	Series	Tube od øD1	G Female BSP thread	M	l 5	t1	S1	S2	O - Ring ID x CSD
EGE06LGF	**Light L**	6	G 1/8	M12 x 1.5	32.0	8	14	14	4.0 x 1.5
EGE08LGF	315 bar	8	G 1/4	M14 x 1.5	37.0	12	19	17	6.0 x 1.5
EGE10LGF		10	G 1/4	M16 x 1.5	36.5	12	19	19	7.5 x 1.5
EGE12LGF		12	G 3/8	M18 x 1.5	38.5	12	24	22	9.0 x 1.5
EGE15LGF		15	G 1/2	M22 x 1.5	41.5	14	27	27	12.0 x 2.0
EGE18LGF		18	G 1/2	M26 x 1.5	42.0	14	27	32	15.0 x 2.0
EGE22LGF	160 bar	22	G 3/4	M30 x 2.0	48.5	16	36	36	20.0 x 2.0
EGE28LGF		28	G 1	M36 x 2.0	53.0	18	41	41	26.0 x 2.0
EGE35LGF		35	G1 1/4	M45 x 2.0	61.0	20	55	50	32.0 x 2.5
EGE42LGF		42	G1 1/2	M52 x 2.0	63.5	22	60	60	38.0 x 2.5
EGE06SGF	**Heavy S**	6	G 1/4	M14 x 1.5	38.0	12	19	17	4.0 x 1.5
EGE08SGF	630 bar	8	G 1/4	M16 x 1.5	38.0	12	19	19	6.0 x 1.5
EGE10SGF		10	G 3/8	M18 x 1.5	40.0	12	24	22	7.5 x 1.5
EGE12SGF		12	G 3/8	M20 x 1.5	40.0	12	24	24	9.0 x 1.5
EGE16SGF	400 bar	16	G 1/2	M24 x 1.5	45.5	14	30	30	12.0 x 2.0
EGE20SGF		20	G 3/4	M30 x 2.0	52.5	16	36	36	16.3 x 2.4
EGE25SGF		25	G 1	M36 x 2.0	58.5	18	41	46	20.3 x 2.4
EGE30SGF		30	G1 1/4	M42 x 2.0	65.5	20	55	50	25.3 x 2.4
EGE38SGF	315 bar	38	G1 1/2	M52 x 2.0	69.5	22	60	60	33.3 x 2.4

Offices and Stockiests

For updated product information, contact information and local distributors and representatives, please visit www.hyloc.co.in