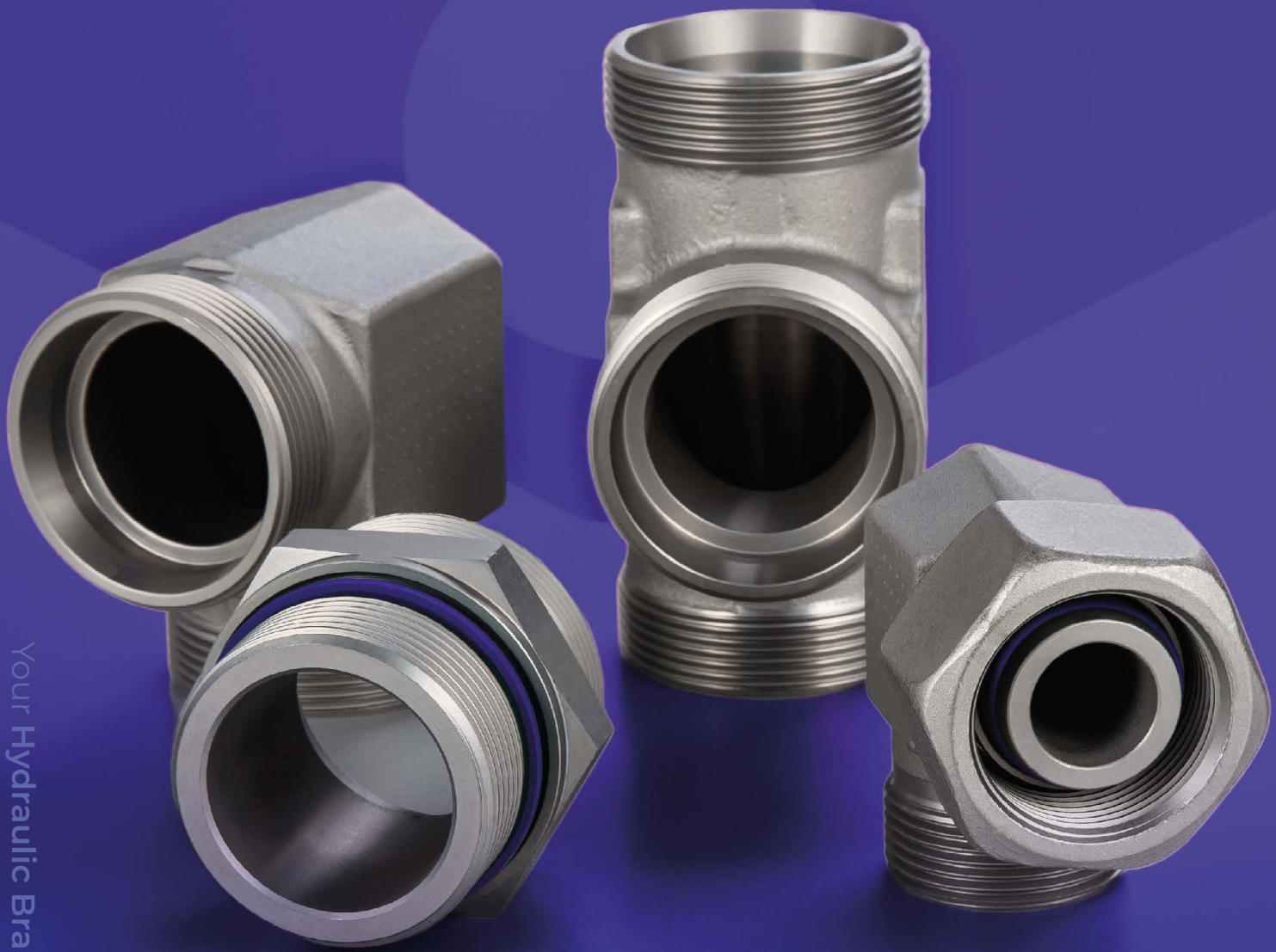
24° TUBE FITTINGS

DIN2353 & ISO 8434-1

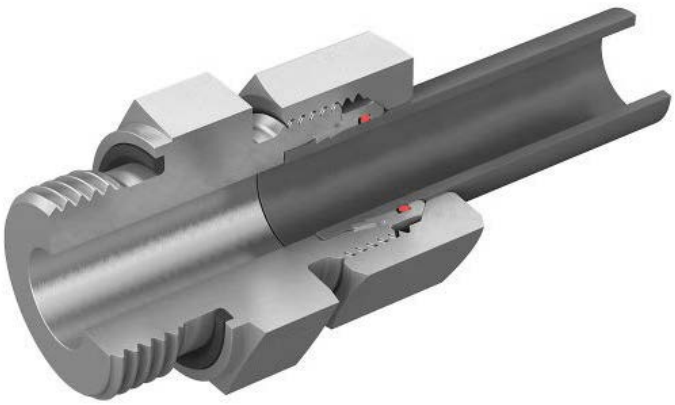


Your Hydraulic Brand

VINCKE

VINCKE 24° TUBE FITTINGS DIN2353 & ISO 8434-1

Introduction



Vincke has many years of experience in the manufacture of precision products which is in conjunction with strigent quality control forme the starting material up to the finished components the quality of Vincke fittings.

Double cutting ring R and DIN fittings assure perfect tightness and easy assembling and disassembling. During the clamping cutting ring driven by fitting 24°-conical shape is distorted and cutting the tube generates two incisions that assure perfect tightness.

Metric O.D. sizes range from 4mm to 42mm in three materials: brass, carbon steel, and stainless steel. Numerous body configurations and threaded connections allow DIN 2353 fittings to meet many connection challenges.

DIN Fitting Applications

DIN connections are used in tube fittings, alternating valves, banjo fittings, and check & non-return valves. Vincie DIN fittings are designated for the use of commercial hydraulic oils.

Features

- Pressure range up to 800 bar at 120 °C
- Constructive design of the cutting geometry.
- Force increase is perceptible.
- Less effort.
- Secure holding-function is guaranteed.
- Materials are SS AISI 316L and Carbon steel.

Fitting materials:

Materials:	Temperature:
Steel	-40°C up to +120°C (DIN 3859)
Stainless Steel	-60°C up to +400°C (DIN 17440)

Pressure Range:

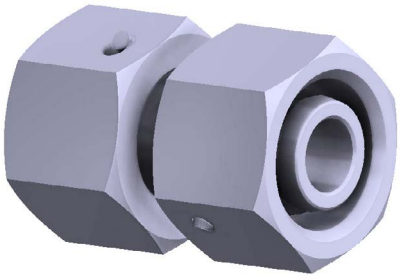
Pressure Designation:	Working pressure:
Medium (L)	Up to 500 bar
High (S)	Up to 800 bar

VINCKE 24° TUBE FITTINGS DIN2353 & ISO 8434-1

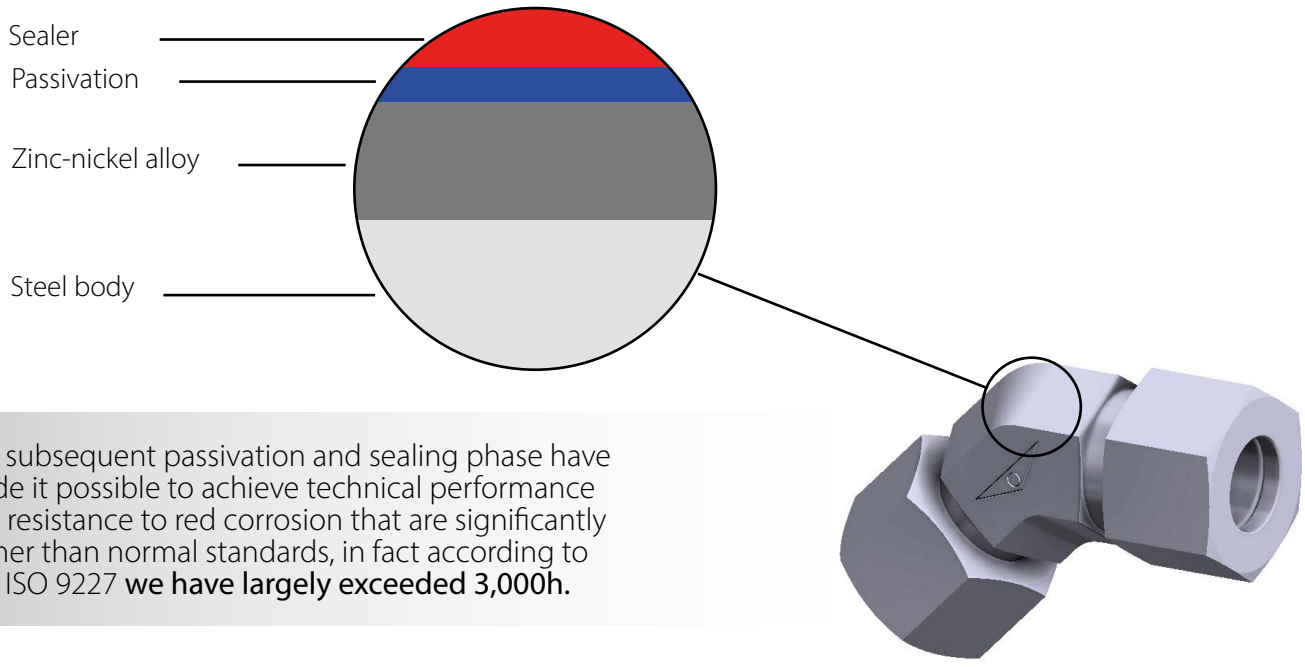
Zn-Ni coat resists 720 hours without white rust, and 1500 hours without red rust (Salt spray test).

Zinc- nickel coating and sealing layer with uniform thickness, stable friction coefficient and wear resistance of the coating.



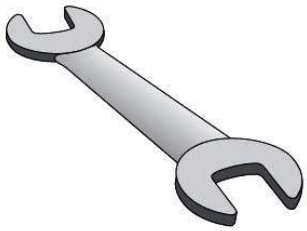


We focus on the applications and product promotion of zinc-nickel alloy coat treatment technology. The high corrosion resistance and application reliability of zinc-nickel surface prodducts better meet the complex technical requirements of customers, and at the same time comply with the environmental protection regulations of the customers market.



The subsequent passivation and sealing phase have made it possible to achieve technical performance and resistance to red corrosion that are significantly higher than normal standards, in fact according to UNI ISO 9227 **we have largely exceeded 3,000h.**

Assembly instructions



Direct assembly

- Simple procedure for single assemblies of small dimensions
- Not economic for series assamblies
- Tubes ⌀ 30, 35, 38 and 42 must be pre-assembled in vice

1



- Threads on stainless steel fittings must be lubricated

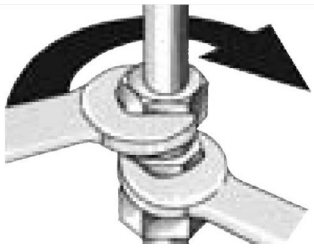
2



- Press tube-end firmly into the assembly cone Push back nut for easy tube insertion

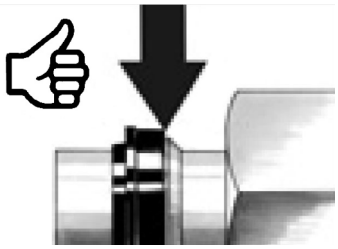


3



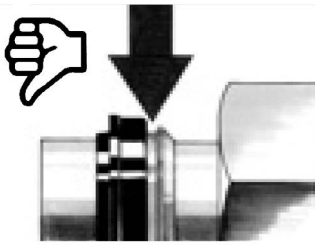
- Tighten until sharp increase of resistance
- Recommended to use spanner extensions for sizes over 20 mm

4



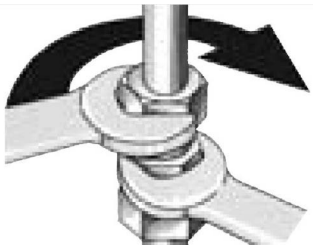
- Gap between sealing ring and retaining ring must be closed A little relaxation is allowed

5



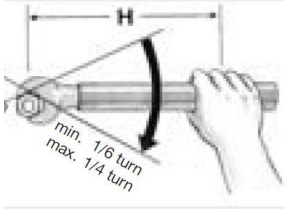
- **Gap not closed**: Check all components including tube

6



- Assemble fitting until wrench-tight

7



- Then tighten fitting firmly
- Recommended to use spanner extension for sizes over 20 mm

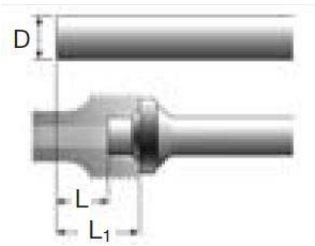
Assembly instructions



Tube preparation

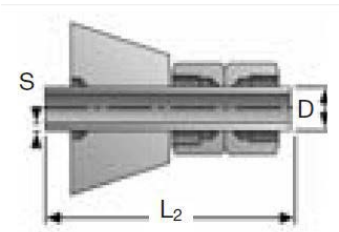
- Cut and deburr thoroughly
- Cut and bend tubes exactly

1



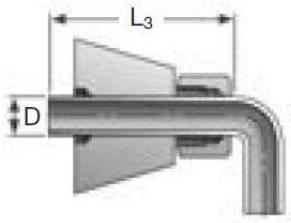
- Take extra lenght into account

2



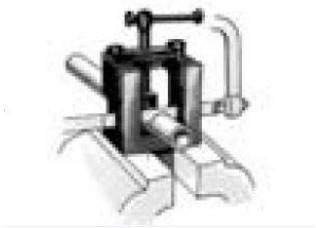
- Minimum lenghts L2 of straight tubes

3



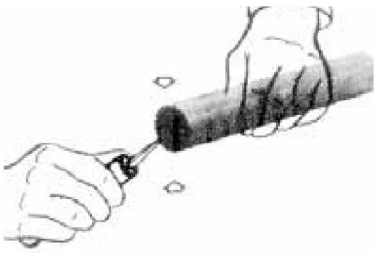
- Minimum lenghts L3 of staight tube-ends bedore bend

4



- Cut tube squarely
- max ±1° deviation
- Do not use pipe cutters

5



- Remove internal and external burrs max. chamfer 0.3mm x 45°

Weld fitting



Weld fitting assembly

- PFZ weld nipple and weld fitting
- Use weldable material
- Depending on application or project specification, special requeriments may apply for: Tube preparation, welding process, operator qualification, inspection of welding connection and surface finish



Tube preparation

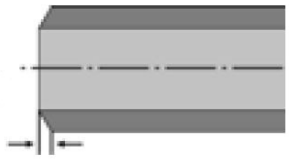
- Cut and burr thoroughly
- Do not assemble under tenison
- Clamp onto rigid fixtures

1



- Cut rube squarely
- max ±1° deviation
- Do not use pipe cutters

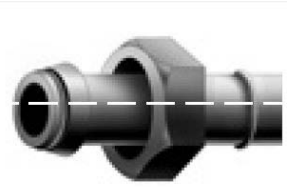
2



- Bevel tube-end similar to weld nipple bavel

Assembly

3



- Slide nut onto tube-end
- Weld fitting onto tube-end
- Fitting and tube mus be aligned
- Remove all elastomeric seals before welding

4



- Clean weld
- Calibrate inner diameter
- Check welding quality
- Surface protection if necessary

5



- Assemvble O-ring
- Lubricate O-ring for easy assembly
- Avoid damage or twisting of O-ring

6



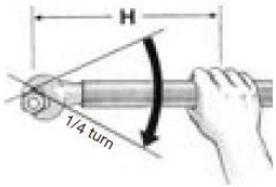
- Threads of stainless steel fittings must be lubricated

7



- Assemble fitting until wrench-tight

8



- Then righten fitting firmly by 1/4 turn (1 1/2 flats)

Port connections



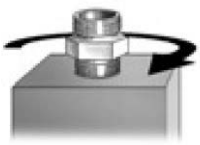
Assembly of metric straight port connections
- Metric Thread
  DIN ISO 6149-23
  ISO9974-2/3
  DIN 3859-T2

1



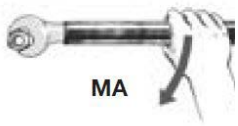
- Threads of stainless steel fittings must be lubricated

2



- Screw in until handtight

3



- Then tighten according to chart

Product	Tube O.D	Straight male stud fitting with port tapping			Non-return valves	PFZ Banjo fittings
		Thread size T	Form A for sealing washer	Form E with ED sealing	CHV/CHZ Form E with ED sealing	W5
Series		mm	Nm	Nm	Nm	Nm
L	6	M 10x1.0	9	18	18	18
	8	M 12x1.5	20	25	25	45
	10	M 14x1.5	35	45	35	55
	12	M 16x1.5	45	55	50	80
	15	M 18x1.5	55	70	70	100
	18	M 22x1.5	65	125	125	140
	22	M 26x1.5	90	180	145	320
	28	M 33x2.0	150	310	210	360
	35	M 42x2.0	240	450	160	540
	42	M 48x2.0	290	540	540	700
S	6	M 12x1.5	20	40	35	45
	8	M 14x1.5	35	40	45	55
	10	M 16x1.5	45	70	55	80
	12	M 18x1.5	55	90	70	100
	14	M 20x1.5	55	125	100	125
	16	M 22x1.5	65	135	125	135
	20	M 27x2.0	90	180	135	320
	25	M 33x2.0	150	310	210	360
	30	M 42x2.0	240	450	360	540
	38	M 48x2.0	290	540	540	700

Assembly of BSPP straight port connections



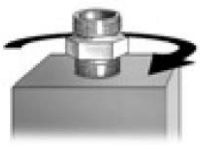
Assembly of metric straight port connections
- BSPP Thread G
  ISO 1179-I
  DIN 3859-T2

1



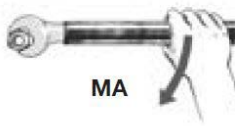
- Threads of stainless steel fittings must be lubricated

2



- Screw in until handtight

3



- Then tighten according to chart

Product	Tube O.D	Straight male stud fitting with port tapping			Non-return valves	PFZ Banjo fittings
		Thread size T	Form A for sealing washer	Form E with ED sealing	CHV/CHZ Form E with ED sealing	W5
Series		Inch	Nm	Nm	Nm	Nm
L	6	G 1/8 A	9	18	18	18
	8	G 1/4 A	35	35	35	45
	10	G 1/4 A	35	35	35	45
	12	G 3/8 A	45	70	50	70
	15	G 1/2 A	65	90	85	120
	18	G 1/2 A	65	90	65	120
	22	G 3/4 A	90	180	140	230
	28	G 1 A	150	310	190	320
	35	G 1 1/4 A	240	450	360	540
	42	G 1 1/2 A	290	540	540	700
S	6	G 1/4 A	35	40	45	45
	8	G 1/4 A	35	40	45	45
	10	G 3/8 A	45	80	60	70
	12	G 3/8 A	45	80	60	70
	14	G 1/2 A	65	115	145	120
	16	G 1/2 A	65	115	100	120
	20	G 3/4 A	90	180	145	230
	25	G 1 A	150	310	260	320
	30	G 1 1/4 A	240	450	360	540
	38	G 1 1/2 A	290	540	540	700

Assembly of tapered thread port connections



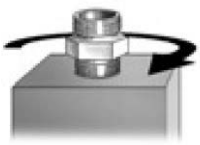
Assembly of tapered thread port connections
- NPT / NPTF thread
  ANSI / ASME B 1.20.1 - 1983

1



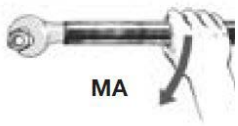
- Threads of stainless steel fittings must be lubricated

2



- Apply teflon tape to the taper stud end and screw in handtight

3

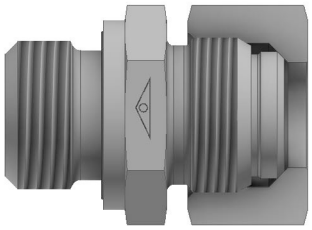


- Then tighten according to chart

Size	Thread T NPT/F	Assembly TFFT Turns
4	1/8-27 NPT/F	2.0 - 3.0
6	1/4-18 NPT/F	2.0 - 3.0
8	3/8-18 NPT/F	2.0 - 3.0
10	1/2-14 NPT/F	2.0 - 3.0
12	3/4-14 NPT/F	2.0 - 3.0
16	1-11.5 NPT/F	1.5 - 2.5
20	1 1/4-11.5 NPT/F	1.5 - 2.5
24	1 1/2-11.5 NPT/F	1.5 - 2.5

VINCKE 24° TUBE FITTINGS DIN2353 & ISO 8434-1

How to Order



PF	Z	NR	G2	L	R	E	10	06

Pipe fitting

Zn-Ni

SS- Stainless Steel

Omit Cr3

Nut ring

Omit body

Type fitting

Serie

L Light

S Heavy

Thread port

R - BSP
RT - BSPT
N - NPT

M - Metric
U - UNF

Male stud sealing

E Sealing ED ISO 1179-2
Omit Sealing washer DIN 3852-2

Tube Ø

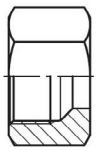
6-8-10-12-14-15-16...

Thread port

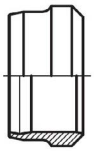
1/4-3/8-1/2...
12X150-14X150...

VISUAL INDEX

Fitting components

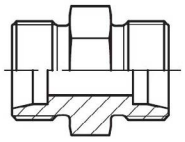


N
p.15

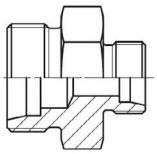


R
p.16

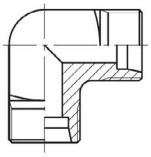
Tube to tube



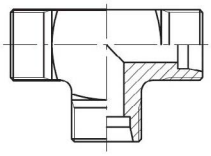
G1
p.17



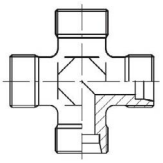
G1R
p.18



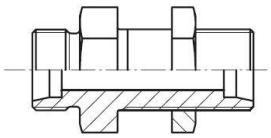
W1
p.20



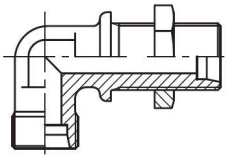
T1
p.21



C1
p.22

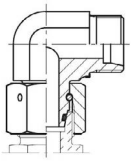


B1
p.23

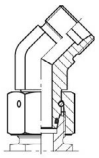


B2
p.24

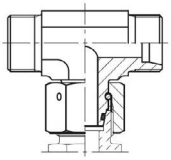
Tube to swivel



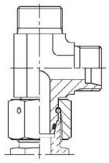
W2
p.25



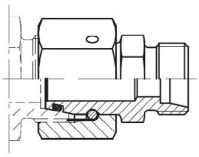
W3
p.26



T2
p.27

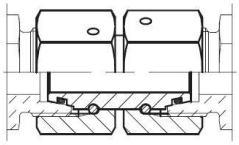


T4
p.28



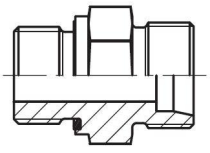
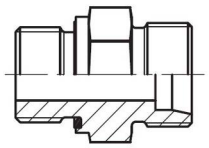
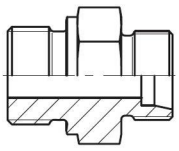
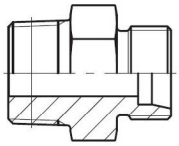
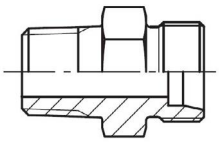
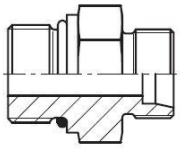
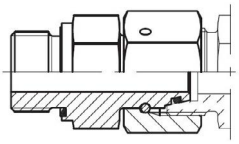
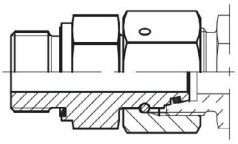
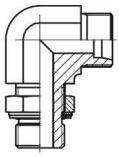
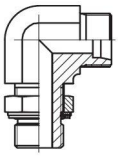
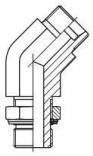
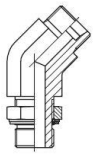
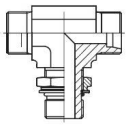
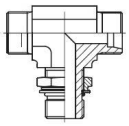
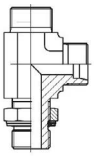
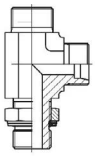
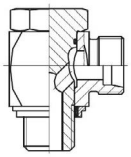
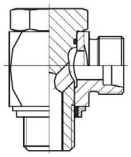
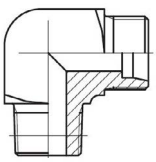
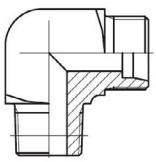
K0
p.29

Swivel to swivel

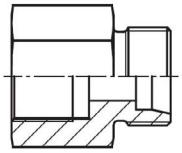
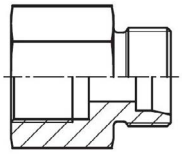
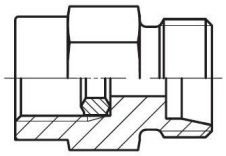
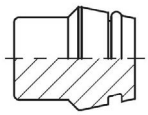
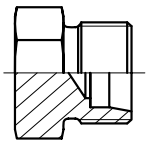
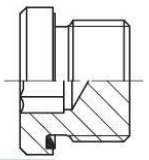
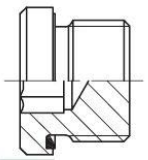
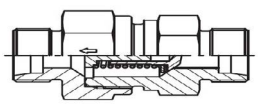
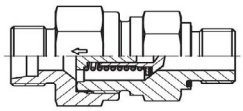
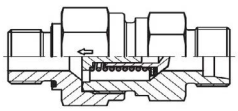
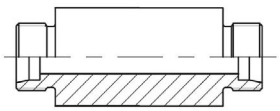
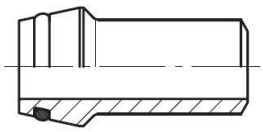
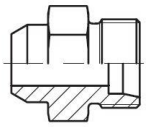


G5
p.31

VISUAL INDEX

Male stud connector	 G2-R-ED p.32	 G2-M-ED p.34	 G2R p.36	 G2-RT p.38
	 G2-NPT p.40	 G2-U p.42	 E6-R-ED p.44	 E6-M-ED p.45
Locknut adjustable	 W6R p.46	 W6M p.47	 W7R p.48	 W7M p.49
	 W8R p.50	 W8M p.51	 W9R p.52	 W9M p.53
Banjo fittings	 W5-R-ED p.54	 W5-M-ED p.55		
Non adjustable	 W4-RT p.56	 W4-NPT p.57		

VISUAL INDEX

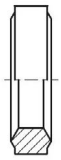
Tube to female	 L1R p.58  L1M p.59
Pressure gauge adapter	 MV-NR p.60
Plugs	 P1 p.61  P3 p.62  VST-R-ED p.63  VST-M-ED p.64
Check valves	 CHD p.65  CHV-R-ED p.66  CHZ-R-ED p.67
Weld fittings	 B3 p.68  WR p.69  WS p.70

VISUAL INDEX

Components



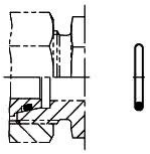
B5
p.71



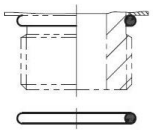
MV
p.72



ED
p.73



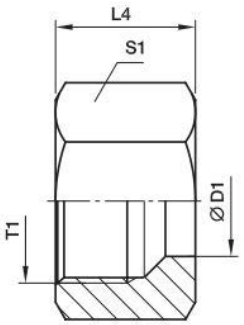
OR
p.74



OR-UNF
p.75

N Nut - Cone end

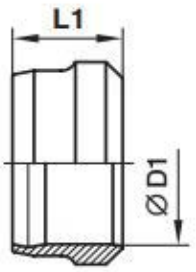




Series	Order code	D1	T1	L4	S1	Weight (g) Complete	PN (bar)	
							Z	SS
L	N-6L	06	M 12x1.5	14.5	14	10	500	315
	N-8L	08	M 14x1.5	14.5	17	15	500	315
	N-10L	10	M 16x1.5	15.5	19	18	500	315
	N-12L	12	M 18x1.5	15.5	22	25	400	315
	N-15L	15	M 22x1.5	17.0	27	42	400	315
	N-18L	18	M 26x1.5	18.0	32	62	400	315
	N-22L	22	M 30x2	20.0	36	82	250	160
	N-28L	28	M 36x2	21.0	41	89	250	160
	N-35L	35	M 45x2	24.0	50	137	250	160
	N-42L	42	M 52x2	24.0	60	216	250	160
S	N-6S	06	M 14x1.5	16.5	17	17	800	630
	N-8S	08	M 16x1.5	16.5	19	20	800	630
	N-10S	10	M 18x1.5	17.5	22	31	800	630
	N-12S	12	M 20x1.5	17.5	24	34	630	630
	N-14S	14	M 22x1.5	20.5	27	53	630	630
	N-16S	16	M 24x1.5	20.5	30	66	630	400
	N-20S	20	M 30x2	24.0	36	102	420	400
	N-25S	25	M 36x2	27.0	46	202	420	400
	N-30S	30	M 42x2	29.0	50	219	420	400
	N-38S	38	M 52x2	32.5	60	339	420	315

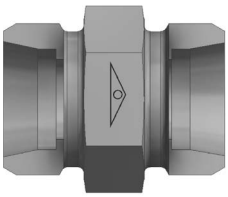
Cutting ring R

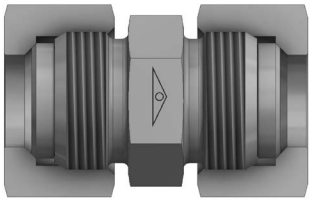


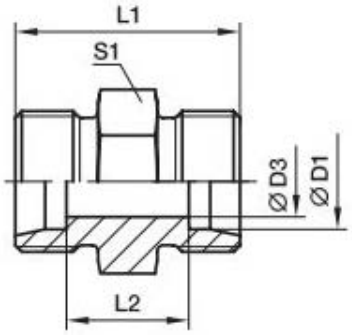


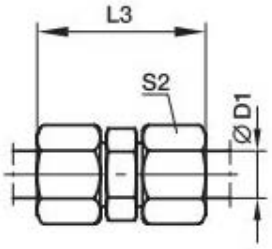
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	R-8LS	08	9.0	2.2	400
	R-10LS	10	10.0	3.1	400
	R-12LS	12	10.0	3.5	400
L	R-15L	15	10.0	4.5	200
	R-18L	18	10.0	5.5	200
	R-22L	22	10.5	7.3	100
	R-28L	28	10.5	9.4	100
	R-35L	35	13.0	20.0	100
	R-42L	42	13.5	23.0	100
S	R-14S	14	10.0	3.9	400
	R-16S	16	10.5	5.6	250
	R-20S	20	12.5	11.4	250
	R-25S	25	12.5	13.3	250
	R-30S	30	13.0	19.3	250
	R-38S	38	13.5	22.5	200

G1 Union



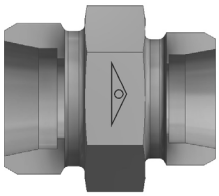


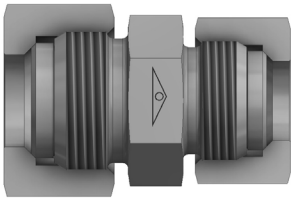


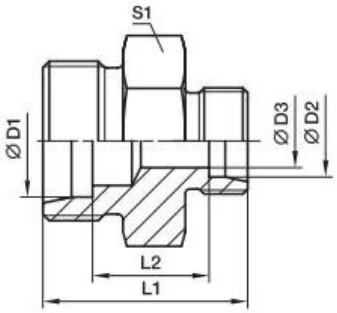


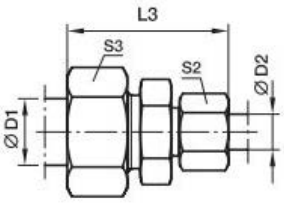
Series	Order code	D1	D3	L1	L2	L3	S1	S2	Weight (g) Complete	PN (bar)	
										Z	SS
LL	G1-4LL	04	3.0	20	12	31	9	10	13	100	100
	G1-6LL	06	4.5	20	9	32	11	12	19	100	100
	G1-8LL	08	6.0	23	12	35	12	14	25	100	100
	G1-10LL	10	8.0	23	12	35	14	17	37	100	100
	G1-12LL	12	10.0	23	11	35	17	19	45	100	100
L	G1-6L	06	4.0	24	10	39	12	14	12	500	315
	G1-8L	08	6.0	25	11	40	14	17	16	500	315
	G1-10L	10	8.0	27	13	42	17	19	23	500	315
	G1-12L	12	10.0	28	14	43	19	22	28	400	315
	G1-15L	15	12.0	30	16	46	24	27	51	400	315
	G1-18L	18	15.0	31	16	48	27	32	69	400	315
	G1-22L	22	19.0	35	20	52	32	36	90	250	160
	G1-28L	28	24.0	36	21	53	41	41	137	250	160
	G1-35L	35	30.0	41	20	63	46	50	214	250	160
	G1-42L	42	36.0	43	21	66	55	60	296	250	160
S	G1-6S	06	4.0	30	16	45	14	17	26	800	630
	G1-8S	08	5.0	32	18	47	17	19	37	800	630
	G1-10S	10	7.0	32	17	49	19	22	44	800	630
	G1-12S	12	8.0	34	19	51	22	24	60	630	630
	G1-14S	14	10.0	38	22	57	14	27	77	630	630
	G1-16S	16	12.0	38	21	57	17	30	90	630	400
	G1-20S	20	16.0	44	23	66	32	36	143	420	400
	G1-25S	25	20.0	50	26	74	41	46	251	420	400
	G1-30S	30	25.0	54	27	80	46	50	330	420	400
	G1-38S	38	32.0	61	29	90	55	60	545	420	315

Straight reducer G1R (L Series)



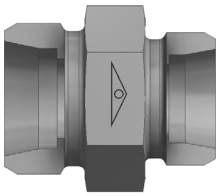


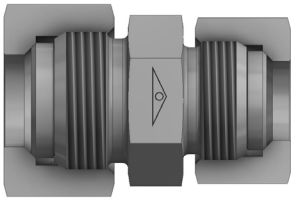


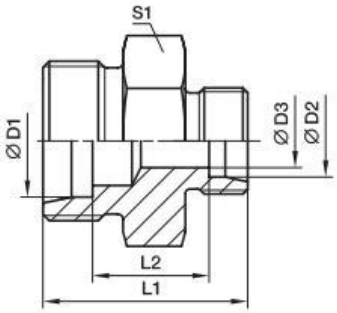


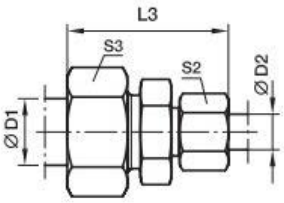
Series	Order code	D1	D2	D3	L1	L2	L3	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	G1R-8/6L	08	06	4.0	25	11.0	40	14	14	17	16	500	315
	G1R-10/6L	10	06	4.0	26	12.0	41	17	14	19	21	500	315
	G1R-10/8L	10	08	6.0	26	12.0	41	17	17	19	21	500	315
	G1R-12/6L	12	06	4.0	27	13.0	42	19	14	22	26	400	315
	G1R-12/8L	12	08	6.0	27	13.0	42	19	17	22	26	400	315
	G1R-12/10L	12	10	8.0	28	14.0	43	19	19	22	29	400	315
	G1R-15/10L	15	10	8.0	29	15.0	45	24	19	27	46	400	315
	G1R-15/12L	15	12	10.0	29	15.0	45	24	22	27	45	400	315
	G1R-18/10L	18	10	8.0	30	15.5	46	27	19	32	65	400	315
	G1R-18/12L	18	12	10.0	30	15.5	46	27	22	32	64	400	315
	G1R-18/15L	18	15	12.0	31	16.5	48	27	27	32	65	400	315
	G1R-22/12L	22	12	10.0	32	17.5	48	31	22	36	80	250	160
	G1R-22/15L	22	15	12.0	33	18.5	50	31	27	36	89	250	160
	G1R-22/18L	22	18	15.0	33	18.0	50	31	32	36	89	250	160
	G1R-28/18L	28	18	15.0	34	19.0	52	41	32	41	142	250	160
	G1R-28/22L	28	22	19.0	36	21.0	54	41	36	41	139	250	160
	G1R-35/22L	35	22	19.0	39	21.0	59	46	36	50	202	250	160
	G1R-35/28L	35	28	24.0	39	21.0	59	46	41	50	206	250	160

Straight reducer G1R (S Series)



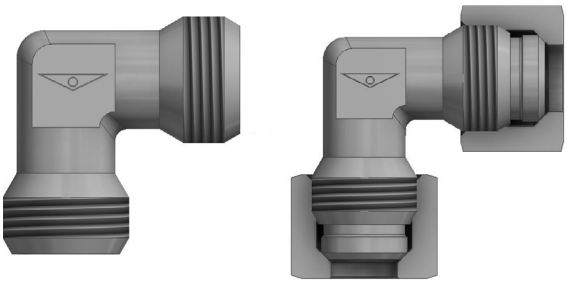


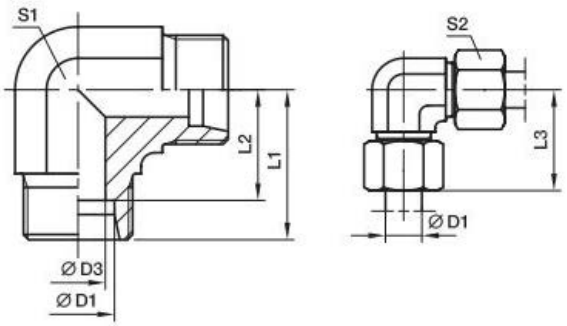




Series	Order code	D1	D2	D3	L1	L2	L3	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
S	G1R-8/6S	08	06	4.0	32	18.0	47	17	17	19	35	800	630
	G1R-10/6S	10	06	4.0	32	17.5	48	19	17	22	41	800	630
	G1R-10/8S	10	08	5.0	32	17.5	48	19	19	22	42	800	630
	G1R-12/6S	12	06	4.0	34	19.5	50	22	17	24	56	630	630
	G1R-12/8S	12	08	5.0	34	19.5	50	22	19	24	57	630	630
	G1R-12/10S	12	10	7.0	34	19.0	51	22	22	24	59	630	630
	G1R-14/10S	14	10	7.0	36	20.5	54	24	22	27	70	630	630
	G1R-14/12S	14	12	8.0	36	20.5	54	24	24	27	72	630	630
	G1R-16/12S	16	12	8.0	36	20.0	54	27	24	30	87	630	400
	G1R-16/14S	16	14	10.0	36	21.5	57	27	27	30	79	630	400
	G1R-20/10S	20	10	7.0	40	22.0	60	32	22	36	129	420	400
	G1R-20/12S	20	12	8.0	40	22.0	60	32	24	36	131	420	400
	G1R-20/14S	20	14	10.0	42	24.0	61.5	32	36	27	132	420	400
	G1R-20/16S	20	16	12.0	42	23.0	63	32	30	36	134	420	400
	G1R-25/16S	25	16	12.0	46	25.5	68	41	30	46	236	420	400
	G1R-25/20S	25	20	16.0	48	25.5	71	41	36	46	235	420	400
	G1R-30/20S	30	20	16.0	50	26.0	74	46	36	50	299	420	400
	G1R-30/25S	30	25	20.0	52	26.5	77	46	46	50	317	420	400
	G1R-38/25S	38	25	20.0	57	30.0	30	55	46	60	480	420	315
	G1R-38/30S	38	30	25.0	59	29.5	87	55	50	60	522	420	315

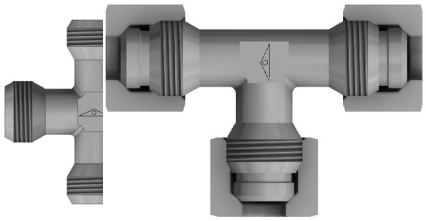
Union W1

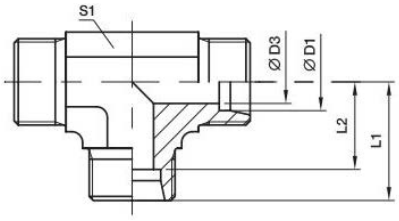


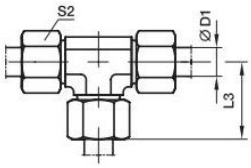


Series	Order code	D1	D3	L1	L2	L3	S1	S2	Weight (g) Complete	PN (bar)	
										Z	SS
LL	W1-4LL	04	3.0	15	11.0	21	9	10	17	100	100
	W1-6LL	06	4.5	15	9.5	21	96	12	21	100	100
	W1-8LL	08	6.0	17	11.5	23	12	14	30	100	100
	W1-10LL	10	8.0	18	12.5	24	12	17	49	100	100
	W1-12LL	12	10.0	19	13.0	25	14	19	58	100	100
L	W1-6L	06	4.0	19	12.0	27	12	14	29	500	315
	W1-8L	08	6.0	21	14.0	29	12	17	43	500	315
	W1-10L	10	8.0	22	15.0	30	14	19	54	500	315
	W1-12L	12	10.0	24	17.0	32	17	22	80	400	315
	W1-15L	15	12.0	28	21.0	36	19	27	81	400	315
	W1-18L	18	15.0	31	23.5	40	24	32	140	400	315
	W1-22L	22	19.0	35	27.5	44	27	36	178	250	160
	W1-28L	28	24.0	38	30.5	47	36	41	340	250	160
	W1-35L	35	30.0	45	34.5	56	41	50	458	250	160
	W1-42L	42	36.0	51	40.0	61	50	60	776	250	160
S	W1-6S	06	4.0	23	16.0	31	12	17	52	800	630
	W1-8S	08	5.0	24	17.0	32	14	19	76	800	630
	W1-10S	10	7.0	25	17.5	34	17	22	97	800	630
	W1-12S	12	8.0	29	21.5	38	17	24	137	630	630
	W1-14S	14	10.0	30	22.0	40	19	27	145	630	630
	W1-16S	16	12.0	33	24.5	43	24	30	162	630	400
	W1-20S	20	16.0	37	26.5	48	27	36	221	420	400
	W1-25S	25	20.0	42	30.0	54	36	46	424	420	400
	W1-30S	30	25.0	49	35.5	62	41	50	603	420	400
	W1-38S	38	32.0	57	41.0	72	50	60	1010	420	315

Union T1



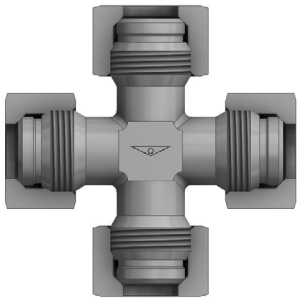


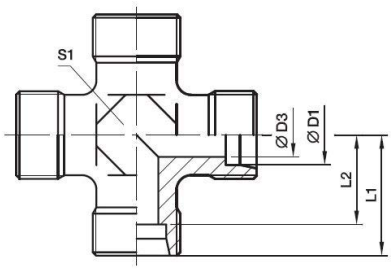


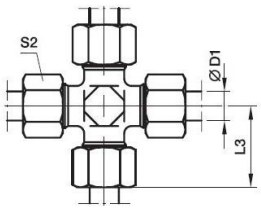
Series	Order code	D1	D3	L1	L2	L3	S1	S2	Weight (g) Complete	PN (bar)	
										Z	SS
LL	T1-4LL	04	3.0	15	11.0	21	9	10	25	100	100
	T1-6LL	06	4.5	15	9.5	21	9	12	30	100	100
	T1-8LL	08	6.0	17	11.5	23	12	14	42	100	100
	T1-10LL	10	8.0	18	12.5	24	12	17	73	100	100
	T1-12LL	12	10.0	21	15.0	27	14	19	78	100	100
L	T1-6L	06	4.0	19	12.0	27	12	14	37	500	315
	T1-8L	08	6.0	21	14.0	29	12	17	53	500	315
	T1-10L	10	8.0	22	15.0	30	14	19	48	500	315
	T1-12L	12	10.0	24	17.0	32	17	22	65	400	315
	T1-15L	15	12.0	28	21.0	36	19	27	106	400	315
	T1-18L	18	15.0	31	23.5	40	24	32	179	400	315
	T1-22L	22	19.0	35	27.5	44	27	36	225	250	160
	T1-28L	28	24.0	38	30.5	47	36	41	396	250	160
	T1-35L	35	30.0	45	34.5	56	41	50	567	250	160
	T1-42L	42	36.0	51	40.0	63	50	60	905	250	160
S	T1-6S	06	4.0	23	16.0	31	12	17	68	800	630
	T1-8S	08	5.0	24	17.0	32	14	19	70	800	630
	T1-10S	10	7.0	25	17.5	34	17	22	91	800	630
	T1-12S	12	8.0	29	21.5	38	17	24	117	630	630
	T1-14S	14	10.0	30	22.0	40	19	27	136	630	630
	T1-16S	16	12.0	33	24.5	43	24	30	202	630	400
	T1-20S	20	16.0	37	26.5	48	27	36	289	420	400
	T1-25S	25	20.0	42	30.0	54	36	46	545	420	400
	T1-30S	30	25.0	49	35.5	62	41	50	758	420	400
	T1-38S	38	32.0	57	41.0	72	50	60	1264	420	315

Union Cross C1



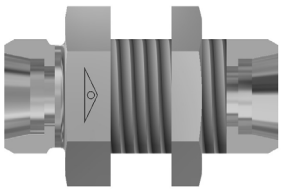


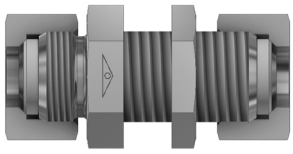


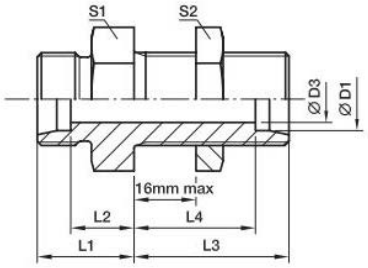


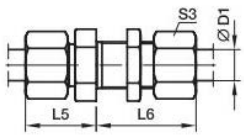
Series	Order code	D1	D3	L1	L2	L3	S1	S2	Weight (g) Complete	PN (bar)	
										Z	SS
L	C1-6L	06	4.0	19	12.0	27	12	14	35	315	315
	C1-8L	08	6.0	21	14.0	29	12	17	40	315	315
	C1-10L	10	8.0	22	15.0	30	14	19	52	315	315
	C1-12L	12	10.0	24	17.0	32	17	22	69	315	315
	C1-15L	15	12.0	28	21.0	36	19	27	130	315	315
	C1-18L	18	15.0	31	23.5	40	24	32	188	315	315
	C1-22L	22	19.0	36	27.5	44	28	36	251	160	160
	C1-28L	28	24.0	38	30.5	47	36	41	293	160	160
	C1-35L	35	30.0	45	34.5	56	41	50	618	160	160
	C1-42L	42	36.0	51	40.0	63	50	60	905	160	160
S	C1-6S	06	4.0	23	16.0	31	12	17	58	630	630
	C1-8S	08	5.0	24	17.0	32	14	19	82	630	630
	C1-10S	10	7.0	25	17.5	34	17	22	97	630	630
	C1-12S	12	8.0	29	21.5	38	17	24	146	630	630
	C1-14S	14	10.0	30	22.0	40	19	27	176	400	400
	C1-16S	16	12.0	33	24.5	43	24	30	220	400	400
	C1-20S	20	16.0	37	26.2	48	27	36	339	315	315
	C1-25S	25	20.0	42	30.0	54	36	46	576	315	315
	C1-30S	30	25.0	49	35.5	62	41	50	843	315	315
	C1-38S	38	32.0	57	41.0	72	50	60	1350	315	315

Bulkhead Union B1







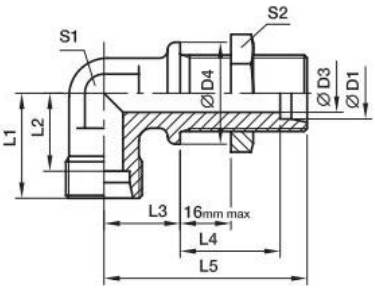


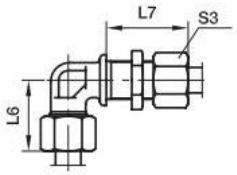
Series	Order code	D1	D3	L1	L2	L3	L4	L5	L6	S1	S2	S3	Weight (g) Complete	PN (bar)	
														Z	SS
L	B1-6L	06	4	14	7.0	34	27.0	22	42	17	17	14	39	500	315
	B1-8L	08	6	15	8.0	34	27.0	23	42	19	19	17	50	500	315
	B1-10L	10	8	17	10.0	35	28.0	25	43	22	22	19	67	500	315
	B1-12L	12	10	17	10.0	36	29.0	25	44	24	24	22	78	400	315
	B1-15L	15	12	19	12.0	38	31.0	27	46	27	30	27	128	400	315
	B1-18L	18	15	21	13.5	40	32.5	30	49	32	36	32	198	400	315
	B1-22L	22	19	24	16.5	42	34.5	33	51	36	41	36	254	250	160
	B1-28L	28	24	26	18.5	43	35.5	35	52	41	46	41	335	250	160
	B1-35L	35	30	29	18.5	47	36.5	40	58	50	55	50	546	250	160
	B1-42L	42	36	30	19.0	47	36.0	42	59	60	65	60	758	250	160
S	B1-6S	06	4	19	12.0	36	29.0	27	44	19	19	17	65	800	630
	B1-8S	08	5	20	13.0	36	29.0	28	44	22	22	19	87	800	630
	B1-10S	10	7	22	14.5	37	29.5	31	46	24	24	22	112	800	630
	B1-12S	12	8	22	14.5	38	30.5	31	47	27	27	24	141	630	630
	B1-14S	14	10	25	17.0	40	32.0	35	50	30	30	27	180	630	630
	B1-16S	16	12	25	16.5	40	31.5	35	50	32	32	30	201	630	400
	B1-20S	20	16	28	17.5	44	33.5	39	55	41	41	36	462	420	400
	B1-25S	25	20	32	20.0	47	35.0	44	59	46	46	46	492	420	400
	B1-30S	30	25	35	21.5	51	37.5	48	64	50	50	50	631	420	400
	B1-38S	38	32	38	22.0	53	37.0	53	68	60	65	60	1083	420	315

Elrow Bulkhead Union B2



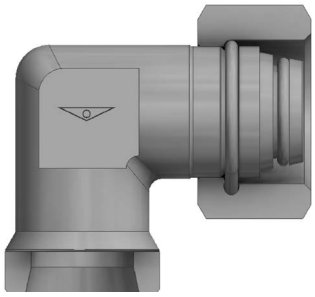


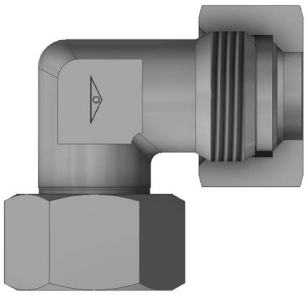


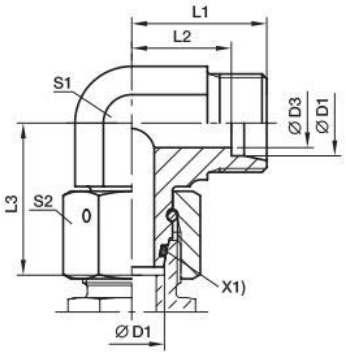


Series	Order code	D1	D3	D4	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	Weight (g) Complete	PN (bar)	
																Z	SS
L	B2-6L	06	4	17	19	12.0	14	27.0	48	27	42	12	17	14	51	315	315
	B2-8L	08	6	19	21	14.0	17	27.0	51	29	42	12	19	17	61	315	315
	B2-10L	10	8	22	22	15.0	18	28.0	53	30	43	14	22	19	78	315	315
	B2-12L	12	10	24	24	17.0	20	29.0	56	32	44	17	24	22	85	315	315
	B2-15L	15	12	27	28	21.0	23	31.0	61	36	46	19	30	27	150	315	315
	B2-18L	18	15	32	31	23.5	24	32.5	64	40	49	24	36	32	238	315	315
	B2-22L	22	19	36	35	27.5	30	34.5	72	44	51	27	41	36	327	160	160
	B2-28L	28	24	42	38	30.5	34	35.5	77	47	52	36	46	41	482	160	160
	B2-35L	35	30	50	45	34.5	39	36.5	86	56	58	41	55	50	729	160	160
	B2-42L	42	36	60	51	40.0	43	36.0	90	63	59	50	65	60	1091	160	160
S	B2-6S	06	4	19	23	16.0	17	29.0	53	31	44	12	19	17	72	630	630
	B2-8S	08	5	22	24	17.0	18	29.0	54	32	44	14	22	19	99	630	630
	B2-10S	10	7	24	25	17.5	20	29.5	57	34	46	17	24	22	128	630	630
	B2-12S	12	8	27	29	21.5	21	30.5	59	38	47	17	27	24	168	630	630
	B2-14S	14	10	27	30	22.0	23	32.0	63	40	50	19	30	27	194	630	630
	B2-16S	16	12	30	33	24.5	24	31.5	64	43	50	24	32	30	249	400	400
	B2-20S	20	16	36	37	26.5	30	33.5	74	48	55	27	41	36	390	400	400
	B2-25S	15	20	42	42	30.0	34	35.0	81	54	59	36	46	46	618	400	400
	B2-30S	30	25	50	49	35.5	39	37.5	90	62	64	41	50	50	889	400	400
	B2-38S	38	32	60	57	41.0	43	37.0	96	72	68	50	65	60	1337	315	315

Swivel nut elbow W2

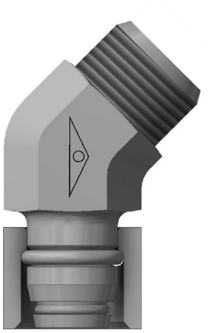




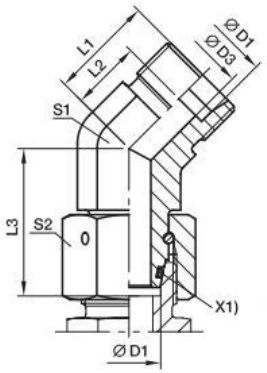


Series	Order code	D1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	W2-6L	06	4	19	12.0	26.0	27	12	14	34	500	315
	W2-8L	08	6	21	14.0	27.5	29	12	17	43	500	315
	W2-10L	10	8	22	15.0	29.0	30	14	19	58	500	315
	W2-12L	12	10	24	17.0	29.5	32	17	22	81	400	315
	W2-15L	15	12	28	21.0	32.5	36	19	27	128	400	315
	W2-18L	18	15	31	23.5	35.5	40	24	32	197	400	315
	W2-22L	22	19	35	27.5	38.5	44	27	36	158	250	160
	W2-28L	28	24	38	30.5	41.5	47	36	41	370	250	160
	W2-35L	35	30	45	34.5	51.0	56	41	50	593	250	160
	W2-42L	42	36	51	40.0	56.0	63	50	60	993	250	160
S	W2-6S	06	4	23	16.0	27.0	31	12	17	48	800	630
	W2-8S	08	5	24	17.0	27.5	32	14	19	65	800	630
	W2-10S	10	7	25	17.5	30.0	34	17	22	92	800	630
	W2-12S	12	8	29	21.5	31.0	38	17	24	107	630	630
	W2-14S	14	10	30	22.0	35.0	40	19	27	146	630	630
	W2-16S	16	12	33	24.5	36.5	43	24	30	212	630	400
	W2-20S	20	16	37	26.5	44.5	48	27	36	309	420	400
	W2-25S	25	20	42	30.0	50.0	54	36	46	547	420	400
	W2-30S	30	25	49	35.5	55.0	62	41	50	744	420	400
	W2-38S	38	32	57	41.0	63.0	72	50	60	1222	420	315

Swivel nut 45 elbow W3

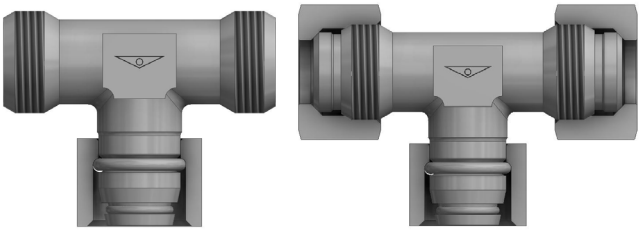


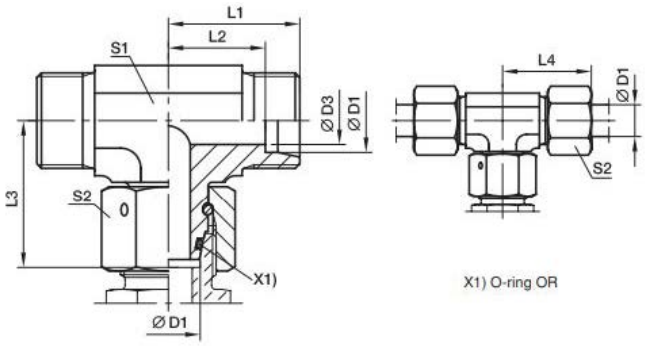




Series	Order code	D1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	W3-6L	06	4	16.0	9.0	26.0	24	14	14	37	315	315
	W3-8L	08	6	19.0	12.0	27.5	27	14	17	49	315	315
	W3-10L	10	8	19.0	12.0	29.0	27	19	19	77	315	315
	W3-12L	12	10	21.0	14.0	29.5	29	19	22	86	315	315
	W3-15L	15	12	24.0	17.0	32.5	32	22	27	144	315	315
	W3-18L	18	15	24.0	16.5	35.5	33	27	32	210	315	315
	W3-22L	22	19	26.0	18.5	38.5	35	30	36	270	160	160
	W3-28L	28	24	30.5	23.0	41.5	40	36	41	385	160	160
	W3-35L	35	30	37.0	26.5	51.0	48	50	50	805	160	160
	W3-42L	42	36	37.0	26.5	56.0	49	50	60	887	160	160
S	W3-6S	06	4	16.0	9.0	27.0	24	14	17	50	630	630
	W3-8S	08	5	19.0	12.0	27.5	27	19	19	80	630	630
	W3-10S	10	7	21.0	13.5	30.0	30	19	22	95	630	630
	W3-12S	12	8	24.0	16.5	31.0	33	22	24	137	630	630
	W3-16S	16	12	24.0	15.5	36.5	34	27	30	217	400	400
	W3-20S	20	16	26.5	16.0	44.5	38	30	36	313	400	400
	W3-25S	25	20	30.5	18.5	50.0	43	36	46	529	400	400
	W3-30S	30	25	37.0	23.5	55.0	50	50	50	940	400	400
	W3-38S	38	32	37.0	21.0	63.0	52	50	60	1055	315	315

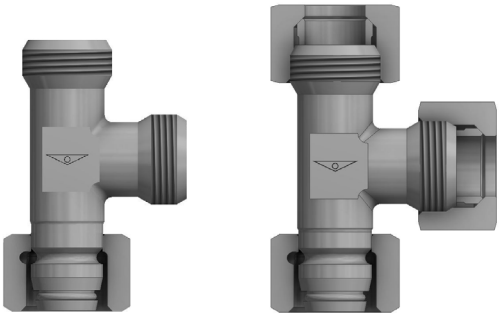
Swivel nut branch tee T2

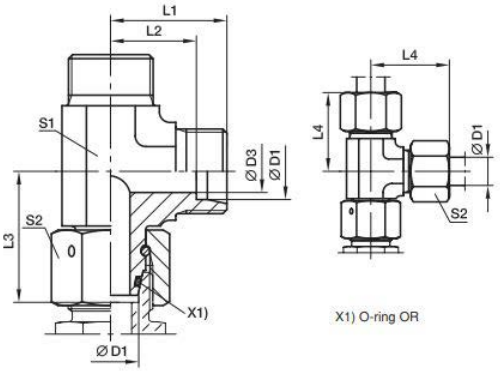




Series	Order code	D1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	T2-6L	06	4	19	12.0	26.0	27	12	14	42	500	315
	T2-8L	08	6	21	14.0	27.5	29	12	17	53	500	315
	T2-10L	10	8	22	15.0	29.0	30	14	19	71	500	315
	T2-12L	12	10	24	17.0	29.5	32	17	22	97	400	315
	T2-15L	15	12	28	21.0	32.5	36	19	27	159	400	315
	T2-18L	18	15	31	23.5	35.5	40	24	32	239	400	315
	T2-22L	55	19	35	27.5	38.5	44	27	36	308	250	160
	T2-28L	28	24	38	30.5	41.5	47	36	41	449	250	160
	T2-35L	35	30	45	34.5	51.0	56	41	50	679	250	160
	T2-42L	42	36	51	40.0	56.0	63	50	60	1131	250	160
S	T2-6S	06	4	23	16.0	27.0	31	12	17	63	800	630
	T2-8S	08	5	24	17.0	27.5	32	14	19	79	800	630
	T2-10S	10	6	25	17.5	30.0	34	17	22	113	800	630
	T2-12S	12	8	29	21.5	31.0	38	17	24	136	630	630
	T2-14S	14	9	30	22.0	35.0	40	19	27	173	630	630
	T2-16S	16	12	33	24.5	36.5	43	24	30	239	630	400
	T2-20S	20	16	37	26.5	44.5	48	27	36	388	420	400
	T2-25S	25	20	42	30.0	50.0	54	36	46	652	420	400
	T2-30S	30	25	49	35.5	55.0	62	41	50	905	420	400
	T2-38S	38	32	57	41.0	63.0	72	50	60	1462	420	315

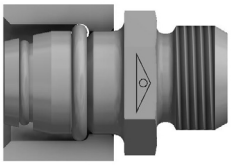
Swivel nut run tee T4



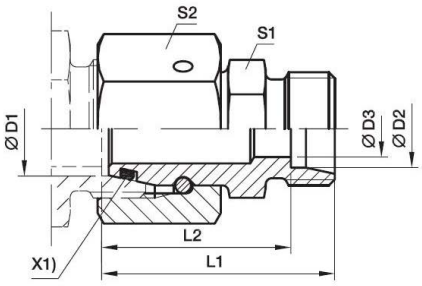


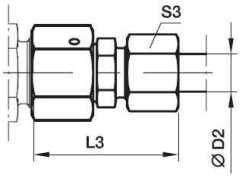
Series	Order code	D1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	T4-6L	06	4	19	12.0	26.0	27	12	14	44	500	315
	T4-8L	08	6	21	14.0	27.5	29	12	17	53	500	315
	T4-10L	10	8	22	15.0	29.0	30	14	19	68	500	315
	T4-12L	12	10	24	17.0	29.5	32	17	22	95	400	315
	T4-15L	15	12	28	21.0	32.5	36	19	27	151	400	315
	T4-18L	18	15	31	23.5	35.5	40	24	32	233	400	315
	T4-22L	22	19	35	27.5	38.5	44	27	36	309	250	160
	T4-28L	28	24	38	30.5	41.5	47	36	41	436	250	160
	T4-35L	35	30	45	34.5	51.0	56	41	50	666	250	160
	T4-42L	42	36	51	40.0	56.0	63	50	60	1163	250	160
S	T4-6S	06	4	23	16.0	27.0	31	12	17	65	800	630
	T4-8S	08	5	24	17.0	27.5	32	14	19	84	800	630
	T4-10S	10	6	25	17.5	30.0	34	17	22	118	800	630
	T4-12S	12	8	29	21.5	31.0	38	17	24	136	630	630
	T4-14S	14	9	30	22.0	35.0	40	19	27	173	630	630
	T4-16S	16	12	33	24.5	36.5	43	24	30	260	630	400
	T4-20S	20	16	37	26.5	44.5	48	27	36	375	420	400
	T4-25S	25	20	42	30.0	50.0	54	36	46	655	420	400
	T4-30S	30	25	49	35.5	55.0	62	41	50	906	420	400
	T4-38S	38	32	57	41.0	63.0	72	50	60	1472	420	315

Red tube end reducer K0 (L Series)



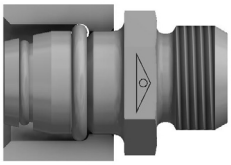




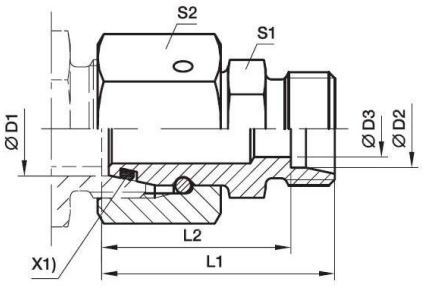


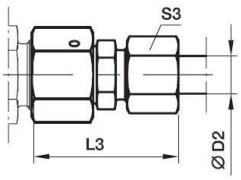
Series	Order code	D1	D2	D3	L1	L2	L3	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	K0-8/6L	08	06	4.0	30.5	23.5	38.0	12	17	4	29	500	315
	K0-10/6L	10	06	4.0	32.0	25.0	40.0	14	19	14	36	500	315
	K0-10/8L	10	08	6.0	32.0	25.0	40.0	14	19	17	38	500	315
	K0-12/6L	12	06	4.0	32.0	25.0	40.0	17	22	14	49	400	315
	K0-12/8L	12	08	6.0	32.0	25.0	40.0	17	22	17	49	400	315
	K0-12/10L	12	10	8.0	33.0	26.0	41.0	17	22	19	51	400	315
	K0-15/6L	15	06	4.0	35.5	28.5	43.0	19	27	14	81	400	315
	K0-15/8L	15	08	6.0	35.5	28.5	43.0	19	27	17	85	400	315
	K0-15/10L	15	10	8.0	36.5	29.5	44.0	19	27	19	83	400	315
	K0-15/12L	15	12	10.0	36.5	29.5	44.0	19	27	22	83	400	315
	K0-18/6L	18	06	4.0	35.0	28.0	43.0	24	32	14	109	400	315
	K0-18/8L	18	08	6.0	35.0	28.0	43.0	24	32	17	111	400	315
	K0-18/10L	18	10	8.0	36.0	29.0	44.0	24	32	19	110	400	315
	K0-18/12L	18	12	10.0	36.0	29.0	44.0	24	32	22	110	400	315
	K0-18/15L	18	15	12.0	37.0	30.0	45.0	24	32	27	115	400	315
	K0-22/10L	22	10	8.0	40.0	33.0	48.0	27	36	19	159	250	160
	K0-22/12L	22	12	10.0	40.0	33.0	48.0	27	36	22	157	250	160
	K0-22/15L	22	15	12.0	41.0	34.0	49.0	27	36	27	164	250	160
	K0-22/18L	22	18	15.0	41.0	33.5	50.0	27	36	32	167	250	160
	K0-28/15L	28	15	12.0	43.0	36.0	51.0	32	41	27	218	250	160
	K0-28/18L	28	18	15.0	43.0	35.5	52.0	32	41	32	220	250	160
	K0-28/22L	28	22	19.0	45.0	37.5	54.0	32	41	36	222	250	160
	K0-35/18L	35	18	15.0	46.0	38.5	55.0	41	50	32	328	250	160
	K0-35/22L	35	22	19.0	48.0	40.5	57.0	41	50	36	331	250	160
	K0-35/28L	35	28	24.0	48.0	40.5	57.0	41	50	41	327	250	160
	K0-42/22L	42	22	19.0	51.5	44.0	60.0	50	60	36	543	250	160
	K0-42/28L	42	28	24.0	51.5	44.0	61.0	50	60	41	539	250	160
	K0-42/35L	42	35	30.0	53.5	43.0	65.0	50	60	50	541	250	160

Red tube end reducer K0 (S Series)



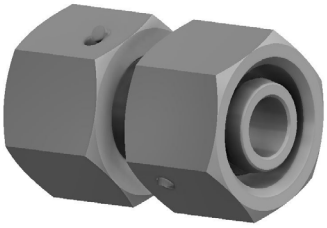


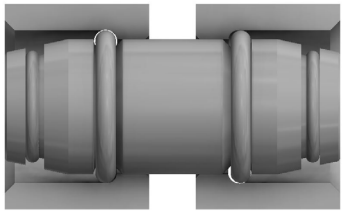


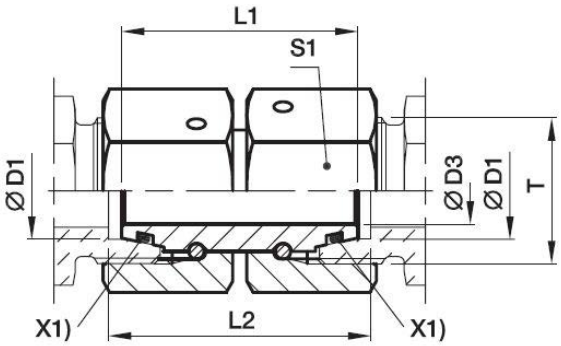


Serie	Order code	D1	D2	D3	L1	L2	L3	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
S	K0-8/6S	08	06	4	34.0	27.0	42	14	19	17	42	800	630
	K0-10/6S	10	06	4	34.5	27.5	42	17	22	17	55	800	630
	K0-10/8S	10	08	5	34.5	27.5	42	17	22	19	58	800	630
	K0-12/6S	12	06	4	36.0	29.0	44	17	24	17	66	630	630
	K0-12/8S	12	08	5	36.0	29.0	44	17	24	19	68	630	630
	K0-12/10S	12	10	7	37.0	29.5	46	19	24	22	75	630	630
	K0-14/10S	14	10	7	38.5	31.0	47	19	27	22	91	630	630
	K0-14/12S	14	12	8	38.5	31.0	47	22	27	24	100	630	630
	K0-16/6S	16	06	4	39.0	32.0	47	22	30	17	112	630	400
	K0-16/8S	16	08	5	39.0	32.0	47	22	30	19	114	630	400
	K0-16/10S	16	10	7	39.0	31.5	48	22	30	22	115	630	400
	K0-16/12S	16	12	8	39.0	31.5	48	22	30	24	118	630	400
	K0-16/14S	16	14	10	41.0	33.0	51	24	30	27	128	630	400
	K0-20/8S	20	08	5	43.0	36.0	51	27	36	19	174	420	400
	K0-20/10S	20	10	7	43.0	35.5	52	27	36	22	174	420	400
	K0-20/12S	20	12	8	43.0	35.5	52	27	36	24	177	420	400
	K0-20/14S	20	14	10	45.0	37.0	55	27	36	27	182	420	400
	K0-20/16S	20	16	12	45.0	36.5	55	27	36	30	182	420	400
	K0-25/10S	25	10	7	45.5	38.0	54	32	46	22	296	420	400
	K0-25/12S	25	12	8	45.5	38.0	54	32	46	24	299	420	400
	K0-25/14S	25	14	10	47.5	39.5	57	32	46	27	303	420	400
	K0-25/16S	25	16	12	47.5	39.0	57	32	46	30	304	420	400
	K0-25/20S	25	20	16	49.5	39.0	61	32	46	36	315	420	400
	K0-30/16S	30	16	12	53.0	44.5	63	41	50	30	412	420	400
	K0-30/20S	30	20	16	55.0	44.5	66	41	50	36	421	420	400
	K0-30/25S	30	25	20	57.0	45.0	69	41	50	46	439	420	400
	K0-38/16S	38	16	12	56.5	48.0	66	50	60	30	580	420	315
	K0-38/20S	38	20	16	58.5	48.0	70	50	60	36	601	420	315
	K0-38/25S	38	25	20	60.5	48.5	73	50	60	46	615	420	315

Swivel union G5

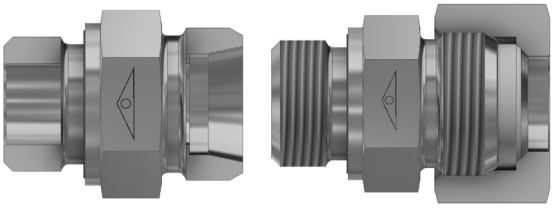


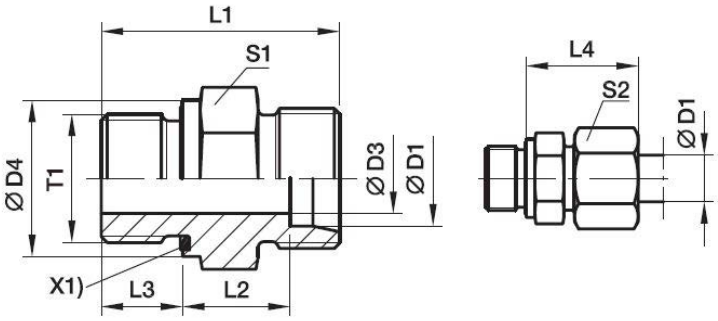




Series	Order code	D1	T	D3	L1	L2	S1	Weight (g) Complete	PN (bar)	
									Z	SS
L	G5-6L	06	M 14x1.5	2.5	32	33	14	28	500	315
	G5-8L	08	M 14x1.5	4.0	32	33	17	41	500	315
	G5-10L	10	M 16x1.5	6.0	33	34	19	53	500	315
	G5-12L	12	M 18x1.5	8.0	33	34	22	71	400	315
	G5-15L	15	M 22x1.5	10.0	38	39	27	129	400	315
	G5-18L	18	M 26x1.5	13.0	36	38	32	165	400	315
	G5-22L	22	M 30x2	17.0	42	44	36	243	250	160
	G5-28L	28	M 36x2	22.0	46	48	41	319	250	160
	G5-35L	35	M 45x2	28.0	48	52	50	449	250	160
	G5-42L	42	M 52x2	34.0	52	57	60	737	250	160
S	G5-6S	06	M 14x1.5	2.5	32	33	17	41	800	630
	G5-8S	08	M 16x1.5	4.0	33	34	19	54	800	630
	G5-10S	10	M 18x1.5	6.0	33	35	22	74	800	630
	G5-12S	12	M 20x1.5	8.0	36	38	24	95	630	630
	G5-14S	14	M 22x1.5	9.0	39	41	27	131	630	630
	G5-16S	16	M 24x1.5	11.0	39	42	30	172	630	400
	G5-20S	20	M 30x2	14.0	44	48	36	261	420	400
	G5-25S	25	M 36x2	18.0	46	53	46	477	420	400
	G5-30S	30	M 42x2	23.0	52	62	50	605	420	400
	G5-38S	38	M 52x2	30.0	52	67	60	826	420	315

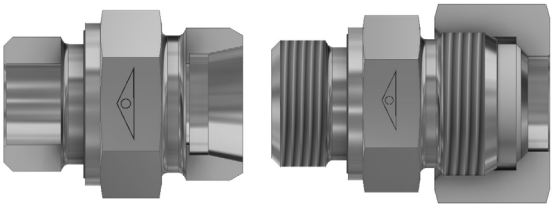
Male stud connector G2-R-ED (L Series)

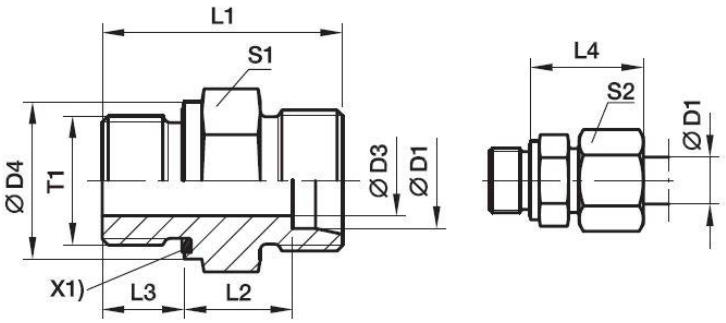




Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
L	G2-6LR 1/8 ED	06	G 1/8 A	4	14	23.5	8.5	8.0	23	14	14	13	500	315
	G2-6LR 1/4 ED	06	G 1/4 A	4	19	29.0	10.0	12.0	25	19	14	28	500	315
	G2-6LR 3/8 ED	06	G 3/8 A	4	22	30.5	11.5	12.0	26	22	14	35	500	315
	G2-8LR 1/4 ED	08	G 1/4 A	6	19	29.0	10.0	12.0	25	19	17	27	500	315
	G2-8LR 1/8 ED	08	G 1/8 A	4	14	24.5	9.5	8.0	24	14	17	16	500	315
	G2-8LR 3/8 ED	08	G 3/8 A	6	22	30.5	11.5	12.0	26	22	17	45	420	315
	G2-8LR 1/2 ED	08	G 1/2 A	6	27	33.0	12.0	14.0	27	27	17	74	400	315
	G2-10LR 1/4 ED	10	G 1/4 A	6	19	30.0	11.0	12.0	26	19	19	29	500	315
	G2-10LR 3/8 ED	10	G 3/8 A	8	22	31.5	12.5	12.0	27	22	19	43	420	315
	G2-10LR 1/2 ED	10	G 1/2 A	8	27	34.0	13.0	14.0	28	27	19	71	400	315
	G2-12LR 1/4 ED	12	G 1/4 A	6	19	31.0	12.0	12.0	27	19	22	31	400	315
	G2-12LR 3/8 ED	12	G 3/8 A	9	22	31.5	12.5	12.0	27	22	22	41	420	315
	G2-12LR 1/2 ED	12	G 1/2 A	10	27	34.0	13.0	14.0	28	27	22	67	400	315
	G2-15LR 3/8 ED	15	G 3/8 A	9	22	32.0	13.5	12.0	29	24	27	54	400	315
	G2-15LR 1/2 ED	15	G 1/2 A	11	27	35.0	14.0	14.0	29	27	27	72	400	315
	G2-15LR 3/4 ED	15	G 3/4 A	12	32	38.0	15.0	16.0	30	32	27	116	250	160
	G2-18LR 1/2 ED	18	G 1/2 A	14	27	36.0	14.5	14.0	31	27	32	71	400	315
	G2-18LR 3/4 ED	18	G 3/4 A	15	32	38.0	14.5	16.0	31	32	32	110	250	160
	G2-22LR 1/2 ED	22	G 1/2 A	14	27	38.0	16.5	14.0	33	32	36	91	250	160
	G2-22LR 3/4 ED	22	G 3/4 A	18	32	40.0	16.5	16.0	33	32	36	102	250	160
	G2-28LR 3/4 ED	28	G 3/4 A	18	32	41.0	17.5	16.0	34	41	41	159	250	160
	G2-28LR 1 ED	28	G 1 A	23	40	43.0	17.5	18.0	34	41	41	170	250	160
	G2-35LR 1 ED	35	G 1 A	23	40	46.0	17.5	18.0	39	46	50	226	250	160
	G2-35LR 11/4 ED	35	G 1 1/4 A	30	50	48.0	17.5	20.0	39	50	50	272	250	260
	G2-42LR 11/2 ED	42	G 1 1/2 A	36	55	52.0	19.0	22.0	42	55	60	343	250	160

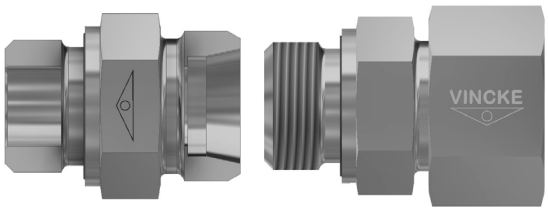
Male stud connector G2-R-ED (S Series)

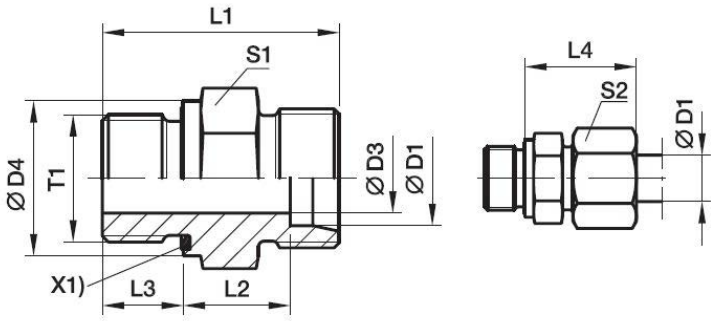




Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
S	G2-6SR 1/4 ED	06	G 1/4 A	4	19	32.0	13.0	12	28	19	17	35	800	630
	G2-8SR 1/4 ED	08	G 1/4 A	5	19	34.0	15.0	12	30	19	19	41	800	630
	G2-8SR 3/8 ED	08	G 3/8 A	5	22	34.5	15.5	12	30	22	19	57	800	630
	G2-8SR 1/2 ED	08	G 1/2 A	5	27	39.0	18.0	14	33	27	19	89	630	400
	G2-10SR 3/8 ED	10	G 3/8 A	7	22	34.5	15.0	12	31	22	22	55	800	630
	G2-12SR 3/8 ED	12	G 3/8 A	8	22	36.5	17.0	12	33	22	24	62	630	630
	G2-12SR 1/2 ED	12	G 1/2 A	8	27	39.0	17.5	14	34	27	24	99	630	630
	G2-14SR 1/2 ED	14	G 1/2 A	10	27	41.0	19.0	14	37	27	27	96	630	630
	G2-16SR 1/2 ED	16	G 1/2 A	12	27	41.0	18.5	14	37	27	30	91	630	400
	G2-16SR 3/8 ED	16	G 3/8 A	8	22	38.5	18.0	12	36	27	30	83	630	400
	G2-16SR 3/4 ED	16	G 3/4 A	12	32	45.0	20.5	16	39	32	30	152	420	400
	G2-20SR 3/8 ED	20	G 3/8 A	16	32	47.0	20.5	16	42	32	36	149	420	400
	G2-20SR 1/2 ED	20	G 1/2 A	12	27	45.0	20.5	14	42	32	36	142	420	400
	G2-20SR 1 ED	20	G 1 A	16	40	51.0	22.5	18	44	41	36	265	420	400
	G2-25SR 1 ED	25	G 1 A	20	40	53.0	23.0	18	47	41	46	266	420	400
	G2-25SR 3/4 ED	25	G 3/4 A	16	32	51.0	230	16	47	41	46	255	420	400
	G2-30SR 1/4 ED	30	G 1/4 A	25	50	54.0	23.5	20	50	50	50	418	420	400
	G2-30SR 1 ED	30	G 1 A	20	40	55.0	23.5	18	50	46	50	344	420	400
	G2-38SR 1/2 ED	38	G 1/2 A	32	55	64.0	26.0	22	57	55	60	563	420	315

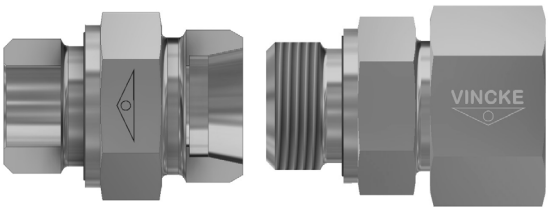
Male stud connector G2-M-ED (L Series)

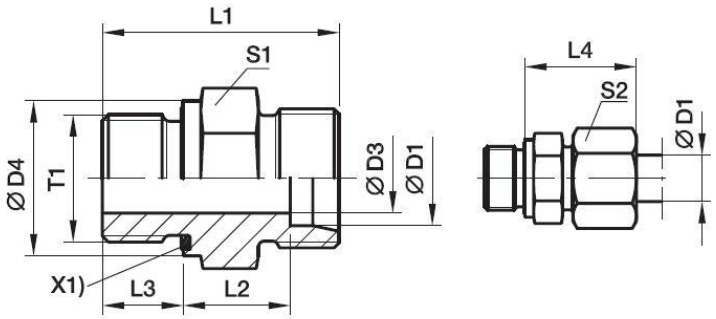




Series	Order code	D1	T1	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
L	G2-6LM10X1.0	06	M 10x1.0	4	14	23.5	8.5	8	23	14	14	13	500	315
	G2-8LM12X1.5	08	M 12x1.5	6	17	29.0	10.0	12	25	17	17	22	500	315
	G2-8LM14X1.5	08	M 14x1.5	7	19	29.0	10.0	12	25	19	17	29	500	315
	G2-8LM16X1.5	08	M 16x1.5	8	21	30.5	11.5	12	26	22	17	42	500	315
	G2-10LM14X1.5	10	M 14x1.5	7	19	30.0	11.0	12	26	19	19	29	400	315
	G2-10LM16X1.5	10	M 16x1.5	8	22	31.5	12.5	12	24	22	19	40	400	315
	G2-10LM18X1.5	10	M 18x1.5	8	24	31.5	12.5	12	27	24	19	50	400	315
	G2-10LM22X1.5	10	M 22x1.5	8	27	35.0	14.0	14	29	27	19	80	400	315
	G2-12LM14X1.5	12	M 14x1.5	7	19	30.0	11.0	12	26	19	22	30	400	315
	G2-12LM16X1.5	12	M 16x1.5	9	22	31.5	12.5	12	27	22	22	40	400	315
	G2-12LM18X1.5	12	M 18x1.5	10	24	31.5	12.5	12	27	24	22	47	400	315
	G2-12LM22X1.5	12	M 22x1.5	10	27	35.0	14.0	14	29	27	22	75	400	315
	G2-15LM16X1.5	15	M 16x1.5	9	22	32.0	13.0	12	28	24	27	64	400	315
	G2-15LM18X1.5	15	M 18x1.5	11	24	32.5	13.5	12	29	24	27	51	400	315
	G2-15LM22X1.5	15	M 22x1.5	12	27	36.0	15.0	14	30	27	27	77	400	315
	G2-18LM18X1.5	18	M 18x1.5	11	24	33.5	14.0	12	30	27	32	68	400	315
	G2-18LM22X1.5	18	M 22x1.5	14	27	36.0	14.5	14	31	27	32	74	400	315
	G2-22LM26X1.5	22	M 26x1.5	14	32	38.0	16.5	14	33	32	36	97	250	160
	G2-28LM33X2	28	M 33x2	23	40	43.0	17.5	18	34	41	41	168	250	160
	G2-35LM42X2	35	M 42x2	30	50	48.0	17.5	20	39	50	50	281	250	160
	G2-42LM48X2	42	M 48x2	36	55	52.0	19.0	22	42	55	60	356	250	160

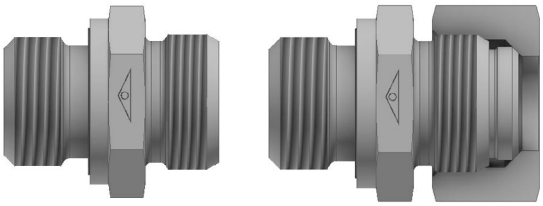
Male stud connector G2-M-ED (S Series)

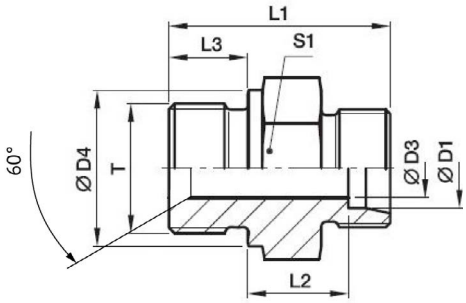


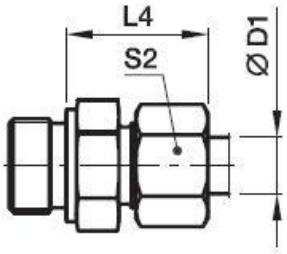


Series	Order code	D1	T1	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
S	G2-6SM12X1.5	06	M 12x1.5	4	17	32.0	13.0	12	28	17	17	30	800	630
	G2- 8SM14X1.5	08	M 14x1.5	5	19	34.0	15.0	12	30	19	19	42	800	630
	G2-10SM16X1.5	10	M 16x1.5	7	22	34.5	15.0	12	31	22	22	54	800	630
	G2-12SM18X1.5	12	M 18x1.5	8	24	36.5	17.0	12	33	24	24	71	630	630
	G2-12SM22X1.5	12	M 22x1.5	8	27	39.0	17.5	14	34	27	24	102	630	400
	G2-14SM20X1.5	14	M 20x1.5	10	26	41.0	19.0	14	37	27	27	98	630	630
	G2-16SM22X1.5	16	M 22x1.5	12	27	41.0	18.5	14	37	27	30	95	630	400
	G2-20SM27X2	20	M 27x2	16	32	47.0	20.5	16	42	32	36	150	420	400
	G2-25SM27X2	25	M 27x2	16	32	51.0	23.0	16	47	41	46	247	420	420
	G2-25SM33X2	25	M 33x2	20	40	53.0	23.0	18	47	41	46	264	420	400
	G2-30SM42X2	30	M 42x2	25	50	57.0	23.5	20	50	50	50	422	420	400
	G2-38SM48X2	38	M 48x2	32	55	64.0	26.0	22	57	55	60	569	420	315

Male stud connector G2-R (L Series)

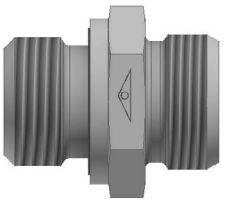


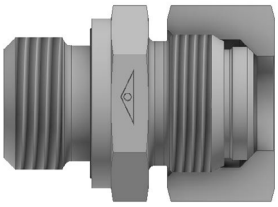


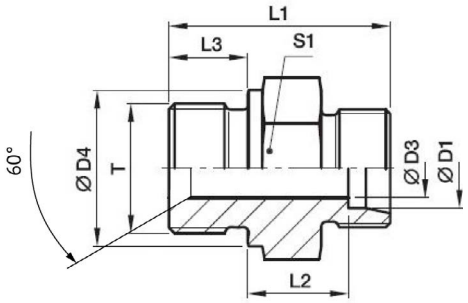


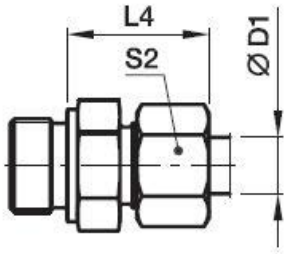
Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
L	G2-6LR1/8	06	G 1/8 A	4	14	23.5	8.5	8	23.0	14	14	14	315	315
	G2-6LR1/4	06	G 1/4 A	4	18	29.0	10.0	12	25.0	19	14	60	315	315
	G2-8LR1/4	08	G 1/4 A	6	18	29.0	10.0	12	25.0	19	17	26	315	315
	G2-8-LR1/8	08	G 1/8 A	4	14	23.5	8.5	8	23.0	14	17	16	315	315
	G2-8LR3/8	08	G 3/8 A	6	22	30.5	11.5	12	26.0	22	17	44	315	315
	G2-8LR1/2	08	G 1/2 A	6	26	33.0	12.0	14	27.0	27	17	74	315	315
	G2-10LR1/4	10	G 1/4 A	6	18	30.0	11.0	12	26.0	19	19	31	315	315
	G2-10LR3/8	10	G 3/8 A	8	22	31.5	12.5	12	27.0	22	19	44	315	315
	G2-10LR1/2	10	G 1/2 A	8	26	34.0	13.0	14	28.0	27	19	72	315	315
	G2-12LR1/4	12	G 1/4A	9	22	31.5	12.5	12	27.0	22	22	43	315	315
	G2-12LR3/8	12	G 3/8 A	6	18	31.0	12.0	12	27.0	19	22	32	315	315
	G2-12LR1/2	12	G 1/2 A	10	26	34.0	13.0	14	28.0	27	22	67	315	315
	G2-15LR3/8	15	G 3/8 A	11	26	35.0	14.0	14	29.0	27	27	72	250	250
	G2-15LR1/2	15	G 1/2A	9	22	32.5	13.5	12	29.0	24	27	56	250	250
	G2-18LR3/8	18	G 3/8 A	14	26	36.0	14.5	14	31.0	27	32	72	250	250
	G2-18LR1/2	18	G 1/2 A	9	22	33.5	14.0	12	29.5	27	32	69	250	250
	G2-22LR1/2	22	G 1/2 A	18	32	40.0	16.5	16	33.0	32	36	103	160	160
	G2-22LR3/4	22	G 3/4 A	14	26	38.0	16.5	14	33.0	32	36	91	160	160
	G2-22LR1	22	G 1 A	19	39	43.0	17.5	18	33.5	41	36	184	160	160
	G2-28LR3/4	28	G 3/4 A	23	39	43.0	17.5	18	34.0	41	41	168	160	160
	G2-28LR1	28	G 1 A	18	32	41.0	17.5	16	34.0	41	41	156	160	16
	G2-35LR11/4	35	G 1 1/4 A	30	49	48.0	17.5	20	39.0	50	50	276	160	160
	G2-35LR11/2	35	G 1 1/2 A	30	55	52.0	19.5	22	41.0	55	50	355	160	160
	G2-42LR11/2	42	G 1 1/2 A	36	55	52.0	19.0	22	42.0	55	60	349	160	160

Male stud connector G2-R (S Series)



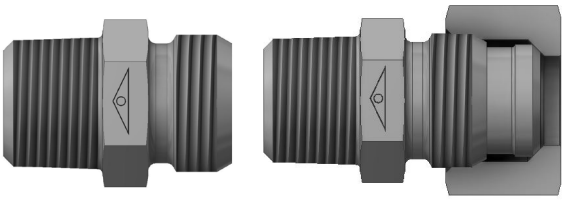


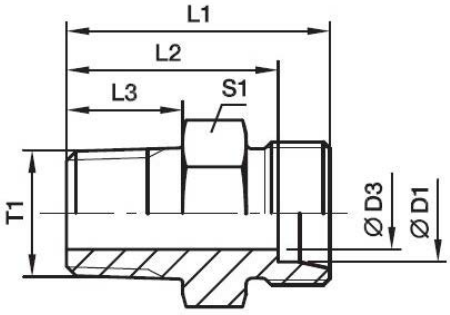


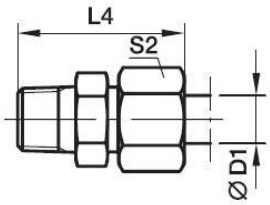


Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
S	G2-6SR 1/4	06	G 1/4 A	4	18	32.0	13.0	12	28	19	17	35	400	400
	G2-6SR 3/8	06	G 3/8 A	4	22	34.5	15.5	12	30	22	17	57	400	400
	G2-8SR 1/4	08	G 1/4 A	5	18	34.0	15.0	12	30	19	19	41	400	400
	G2-8SR 3/8	08	G 3/8 A	5	22	34.5	15.5	12	30	22	19	59	400	400
	G2-10SR 3/8	10	G 3/8 A	7	22	34.5	15.0	12	31	22	22	56	400	400
	G2-10SR 1/4	10	G 1/4 A	5	18	34.5	14.5	12	31	19	22	43	400	400
	G2-12SR 3/8	12	G 3/8 A	8	22	36.5	17.0	12	33	22	24	62	400	400
	G2-12SR 1/4	12	G1/4 A	5	18	36.0	16.5	12	33	22	24	57	400	400
	G2-12SR 1/2	12	G 1/2A	8	26	39.0	17.5	14	34	27	24	57	400	400
	G2-14SR 1/2	14	G 1/2 A	10	26	41.0	19.0	14	37	27	27	96	400	400
	G2-14SR 3/8	14	G 3/8 A	8	22	38.5	18.5	12	36	24	27	74	400	400
	G2-16SR 1/2	16	G 1/2 A	12	26	41.0	18.5	14	37	27	30	92	400	400
	G2-16SR 3/8	16	G 3/8A	8	22	38.5	18.0	12	36	27	30	83	400	400
	G2-20SR 3/4	20	G 3/4 A	16	32	47.0	20.5	16	42	32	36	151	400	400
	G2-20SR 1/2	20	G 1/2 A	12	26	45.0	20.5	14	42	32	36	142	400	400
	G2-25SR 1	25	G 1 A	20	39	53.0	23.0	18	47	41	46	267	250	250
	G2-25SR 3/4	25	G 3/4 A	16	32	51.0	23.0	16	47	41	46	245	250	250
	G2-30SR 1	30	G 1 A	25	32	53.0	23.5	20	50	50	50	390	160	160
	G2-30SR 1 1/4	30	G 1 1/4 A	25	49	57.0	23.5	20	50	50	50	422	160	160
	G2-30SR 1	30	G 1 A	20	39	55.0	23.5	18	50	46	50	337	160	160
	G2-38SR 1 1/2	38	G 1 1/2 A	32	55	64.0	26.0	22	57	55	60	560	160	160
	G2-38SR 1 1/4	38	G 1 1/4 A	25	49	62.0	26.0	20	57	55	60	578	160	160

Male stud connector G2-RT (L Series)

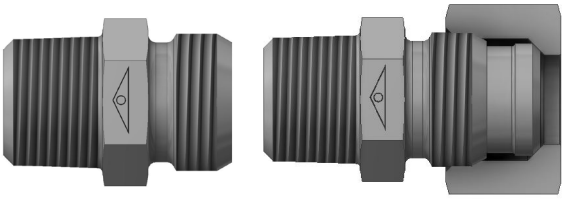


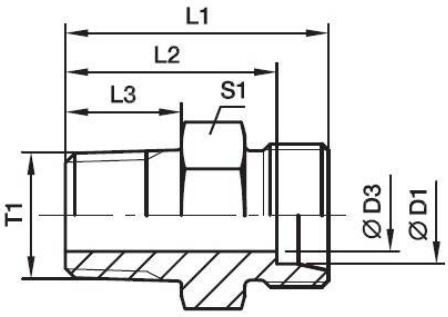


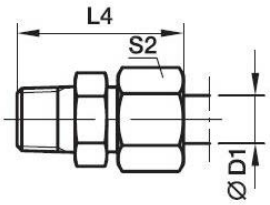


Series	Order code	D1	T1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
LL	G2-4LLRT	04	R 1/8 tap.	3.0	20	16.0	8	26	11	10	12	100	100
	G2-6LLRT	06	R 1/8 tap.	4.5	20	14.5	8	26	11	12	14	100	100
	G2-8LLRT	08	R 1/8 tap.	6.0	22	16.5	8	28	12	14	16	100	100
	G2-8LLRT 1/4	08	R 1/8 tap.	6.0	26	20.5	12	32	14	14	24	100	100
	G2-10LLRT	10	R 1/8 tap.	8.0	26	20.5	12	32	14	17	28	100	-
	G2-12LLRT	12	R 1/4 tap.	8.0	26	20.0	12	32	17	19	33	100	-
	G2-12LLRT 3/8	12	R 3/8 tap.	10.0	26	20.0	12	32	17	19	36	100	-
L	G2-6LRT	06	R1/8 tap.	4.0	22	15.0	8	30	12	14	11	315	315
	G2-6LRT 1/4	06	R1/4 tap.	4.0	27	20.0	12	35	17	14	24	315	315
	G2-8LRT 1/8	08	R1/8 tap.	4.0	23	16.0	8	31	17	17	15	315	315
	G2-8LRT	08	R1/4 tap.	6.0	27	20.0	12	35	17	17	22	315	315
	G2-8LRT 3/8	08	R3/8 tap.	9.0	29	22.0	13	39	19	17	34	315	315
	G2-8LRT 1/2	08	R1/2 tap.	7.0	28	21.0	12	36	17	19	24	315	315
	G2-10LRT	10	R1/4 tap.	7.0	28	21.0	12	36	17	19	24	315	315
	G2-10LRT 3/8	10	R3/8 tap.	7.0	30	23.0	13	40	19	19	36	315	315
	G2-10LRT 1/2	10	R1/2 tap.	7.0	33	26.0	16	43	22	19	58	315	315
	G2-12LRT 1/4	12	R1/4 tap.	7.0	29	22.0	12	37	19	22	53	315	315
	G2-12LRT	12	R3/8 tap.	9.0	29	22.0	12	37	19	22	53	315	315
	G2-12LRT 1/2	12	R1/2 tap.	10.0	31	24.0	14	39	24	22	53	315	315
	G2-15LRT 3/8	15	R3/8 tap.	9.0	30	23.0	12	38	24	27	49	315	315
	G2-15LRT	15	R1/2 tap.	11.0	32	25.0	14	40	24	27	59	315	315
	G2-18LRT	18	R1/2 tap.	14.0	33	25.5	14	42	27	32	64	315	315
	G2-22LRT	22	R3/4 tap.	17.0	37	29.5	16	46	32	36	99	160	160
	G2-28LRT	28	R1 tap.	23.0	40	32.5	18	49	41	41	154	160	160
	G2-35LRT	35	R1 1/4 tap.	30.0	45	34.5	20	56	46	50	238	160	160
	G2-42LRT	42	R1 1/2 tap.	36.0	49	38.0	22	61	55	60	335	160	160

Male stud connector G2-RT (S series)

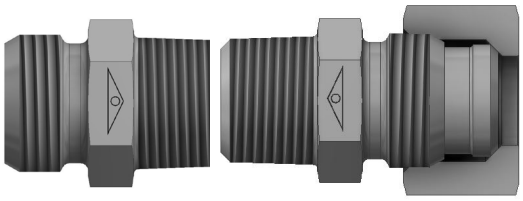


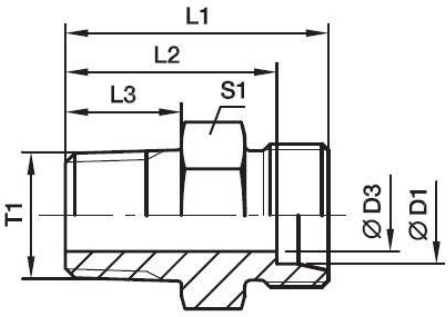


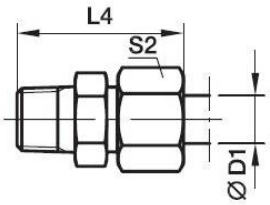


Series	Order code	D1	T	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
S	G2-6SRT	06	R 1/4 tap.	4	32	25.0	13	31	17	17	32	630	630
	G2-8SRT	08	R 1/4 tap.	5	33	26.0	13	33	17	19	36	630	630
	G2-10SRT 1/4	10	R 1/4 tap.	5	33	25.5	13	44	19	22	41	630	630
	G2-10SRT	10	R 3/8 tap.	7	33	25.5	13	44	19	22	46	630	630
	G2-12SRT 1/4	12	R 1/4 tap.	5	35	27.5	13	46	22	24	56	630	630
	G2-12SRT	12	R 3/8 tap.	8	35	27.5	13	46	22	24	58	630	630
	G2-12SRT 1/2	12	R 1/2 tap.	8	38	30.5	16	49	22	24	75	630	630
	G2-14SRT 3/8	14	R 3/8 tap.	8	37	29.0	13	50	24	27	70	630	630
	G2-14SRT	14	R 1/2 tap.	10	40	32.0	16	53	24	27	82	630	630
	G2-16SRT 3/8	16	R 3/8 tap.	8	39	30.5	13	50	27	30	87	400	400
	G2-16SRT	16	R 1/2 tap.	12	42	33.5	16	53	27	30	96	400	400
	G2-20SRT	20	R 3/4 tap.	16	46	35.5	18	60	32	36	145	400	400
	G2-25SRT	25	R 1 tap.	20	50	38	20	67	41	46	240	400	400
	G2-30SRT 1	30	R 1 tap.	20	53	39.5	20	70	46	50	313	400	400
	G2-30SRT	30	R 1 1/4 tap.	25	54	43.0	21	71	46	50	356	400	400
	G2-38SRT	38	R 1 1/2 tap.	55	59	44.0	21	48	55	60	515	315	315

Male stud connector G2-NPT (L Series)

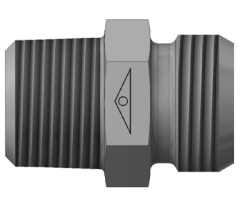


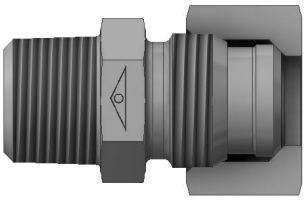


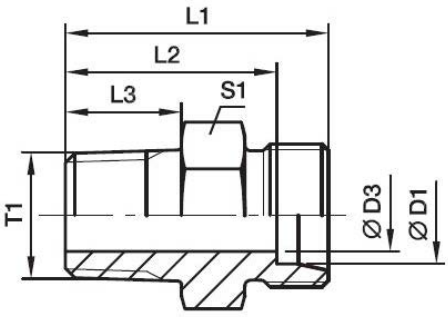


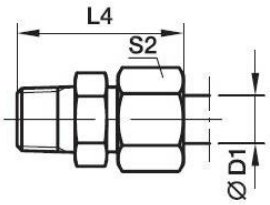
Series	Order code	D1	T1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
L	NPT G2-6LN	06	1/8-27 NPT	4.0	24.0	17.0	10.0	32	12	14	12	315	315
	NPT G2-6LN 1/4	06	1/4-18 NPT	4.0	30.0	23.0	14.5	38	17	14	27	315	315
	NPT G2-8LN 1/8	08	1/8-27 NPT	4.0	25.0	18.0	10.0	33	14	17	16	315	315
	NPT G2-8LN	08	1/4-18 NPT	6.0	30.0	23.0	14.5	38	17	17	25	315	315
	NPT G2-8LN 1/2	08	1/2-14 NPT	6.0	36.0	29.0	19.5	44	22	17	54	315	315
	NPT G2-10LN	10	1/4-18 NPT	7.0	31.0	24.0	14.5	39	17	19	25	315	315
	NPT G2-10LN 3/8	10	3/8-18 NPT	7.0	32.0	15.0	14.5	40	19	19	40	315	315
	NPT G2-10LN 1/2	10	1/2-14 NPT	8.0	37.0	30.0	19.5	45	22	19	54	315	315
	NPT G2-12LN 1/4	12	1/4-18 NPT	7.0	32.0	25.0	14.5	40	19	22	31	315	315
	NPT G2-12LN	12	3/8-18 NPT	8.0	32.0	25.0	14.5	40	19	22	37	315	315
	NPT G2-12LN 1/2	12	1/2-14 NPT	10.0	37.0	30.0	19.5	45	22	22	62	315	315
	NPT G2-15LN 3/8	15	3/8-18NPT	8.0	33.0	26.0	14.5	41	24	27	53	315	315
	NPT G2-15LN	15	1/2-14 NPT	12.0	38.0	31.0	19.5	46	24	27	63	315	315
	NPT G2-18LN	18	1/2-14 NPT	12.0	39.0	31.5	19.5	48	27	32	79	315	315
	NPT G2-22LN	22	3/4-14 NPT	16.0	41.0	33.5	19.5	50	32	36	108	160	160
	NPT G2-28LN	28	1-11.5 NPT	21.0	47.0	39.5	24.5	56	41	41	197	160	160
	NPT G2-35LN	35	1 1/4-11.5 NPT	28.0	51.0	40.5	25.0	62	46	50	285	160	160
	NPT G2-42LN	42	1 1/2-11.5 NPT	36.0	53.0	42.0	26.0	65	55	60	377	160	160

Male stud connector G2-NPT (S Series)



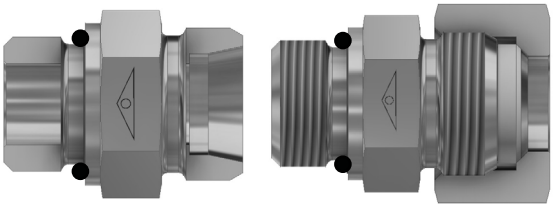


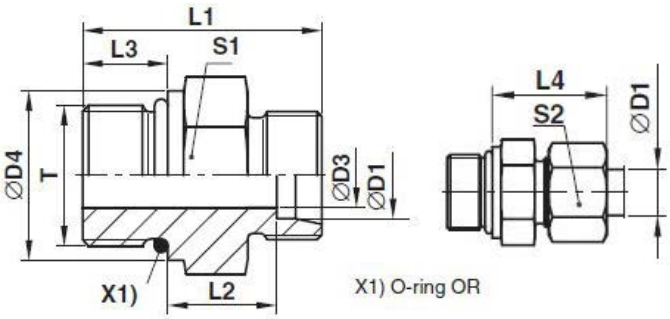




Series	Order code	D1	T1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
S	NPT G2-6SN	06	1/4-18 NPT	4	35	28.0	14.5	43	17	17	37	630	630
	NPT G2-8SN	08	1/4-18 NPT	5	35	28.0	14.5	43	17	19	38	630	630
	NPT G2-10SN 1/4	10	1/4-18 NPT	5	35	27.5	14.5	44	19	22	45	630	630
	NPT G2-10SN	10	3/8-18 NPT	7	35	27.5	14.5	44	19	22	49	630	630
	NPT G2-12SN 1/4	12	1/4-18 NPT	5	37	29.5	14.5	46	22	24	57	630	630
	NPT G2-12SN	12	3/8-18 NPT	8	37	29.5	14.5	46	22	24	62	630	630
	NPT G2-12SN 1/2	12	1/2-14 NPT	8	42	34.5	19.5	51	22	24	83	630	630
	NPT G2-14SN	14	1/2-14 NPT	10	44	36.0	19.5	54	24	27	89	630	630
	NPT G2-16SN 3/8	16	3/8-18 NPT	8	39	30.5	14.5	49	27	30	84	400	400
	NPT G2-16SN	16	1/2-14 NPT	12	48	39.5	19.5	58	32	30	97	400	400
	NPT G2-20SN 1/2	20	1/2-14 NPT	12	48	37.5	19.5	59	32	36	144	400	400
	NPT G2-20SN	20	3/4-14 NPT	16	48	37.5	19.5	59	32	36	149	400	400
	NPT G2-25SN 3/4	25	3/4-14 NPT	16	52	40.0	19.5	64	41	46	240	400	400
	NPT G2-25SN	25	1-11.5 NPT	20	57	45.0	24.5	69	41	46	278	400	400
	NPT G2-30SN 1	30	1-11.5 NPT	20	59	45.5	24.5	72	46	50	343	400	400
	NPT G2-30SN	30	1 1/4-11.5 NPT	25	60	46.5	25.0	73	46	50	397	400	400
	NPT G2-38SN	38	1 1/2-11.5 NPT	32	65	49.0	26.0	80	55	60	571	315	315

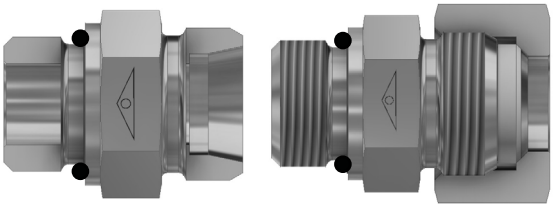
Male stud connector G2-U (L Series)

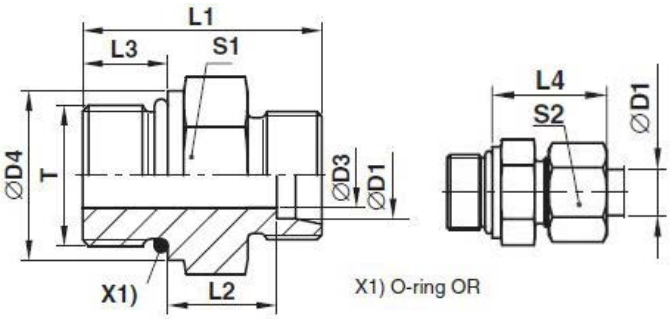




Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
L	G2-8L7/16U	08	7/16-20	5.0	-	26	10.0	9.0	25	17	17	21	315	315
	G2-10L7/16U	10	7/16-20	5.0	-	27	11.0	9.0	26	17	19	23	315	315
	G2-12L9/16U	12	9/16-18	7.0	-	28	11.0	10.0	26	19	22	32	315	315
	G2-12L3/4U	12	3/4-16	10.0	-	31	13.0	11.0	28	24	22	52	315	315
	G2-12L7/8U	12	7/8-14	10.0	-	34	14.3	12.7	29	27	22	77	315	315
	G2-15L3/4U	15	3/4-16	11.0	-	32	14.0	11.0	29	24	27	57	315	315
	G2-15L7/8U	15	7/8-14	12.0	-	35	15.3	12.7	30	27	27	81	315	315
	G2-18L3/4U	18	3/4-16	11.0	23.9	33	14.5	11.0	31	27	32	68	315	315
	G2-18L7/8U	18	7/8-14	14.0	-	35	14.8	12.7	31	27	32	72	315	315
	G2-22L7/8U	22	7/8-14	14.0	26.9	37	16.8	12.7	33	32	36	94	160	160
	G2-22L11/6U	22	1 1/16-12	18.0	-	39	16.5	15.0	33	32	36	103	160	160
	G2-22L15/16U	22	1 5/16-12	19.0	-	40	17.5	15.0	34	41	36	163	160	160
	G2-28L11/16U	28	1 1/16-12	18.0	33.3	40	17.5	15.0	34	41	41	152	160	160
	G2-28L15/16U	28	1 5/16-12	23.0	-	40	17.5	15.0	34	41	41	163	160	160
	G2-35L15/16U	35	1 5/16-12	23.0	39.6	43	17.5	15.0	39	46	46	222	160	160
	G2-35L15/8U	35	1 5/8-12	29.0	-	43	17.5	15.0	39	50	50	257	160	160
	G2-42L15/8U	42	1 5/8-12	29.0	47.7	45	19.0	15.0	42	55	60	339	160	160

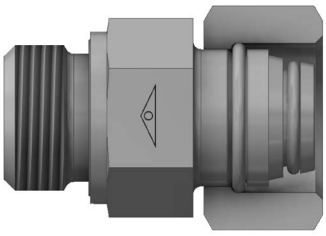
Male stud connector G2-U (S Series)

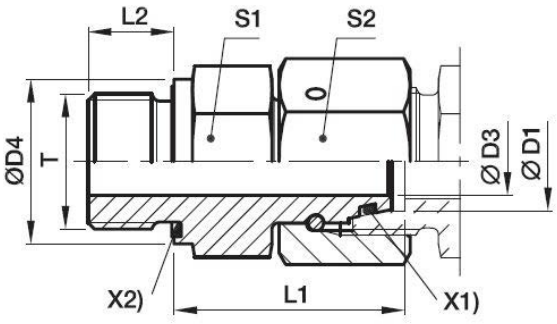




Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
													Z	SS
S	G2-8S7/16U	08	7/16-20	4.0	-	31	13.0	11.0	30	17	19	33	630	630
	G2-10S9/16U	10	9/16-18	6.0	-	32	12.5	12.0	31	19	22	42	630	630
	G2-12S9/16U	12	9/16-18	6.0	19.0	32	12.5	12.0	31	22	24	50	630	630
	G2-12S3/4U	12	3/4-16	8.0	-	36	14.5	14.0	34	24	24	73	630	630
	G2-16S3/4U	16	3/4-16	10.0	-	35	12.5	14.0	34	24	30	90	400	400
	G2-16S7/8U	16	7/8-14	12.0	-	40	15.5	16.0	37	27	30	95	400	400
	G2-20S3/4U	20	3/4-16	10.0	23.9	42	17.5	14.0	42	32	36	131	400	400
	G2-20S7/8U	20	7/8-14	12.0	26.9	44	17.5	16.0	42	32	36	141	400	400
	G2-20S11/16U	20	1 1/16-12	16.0	-	46	17.0	18.5	42	32	36	163	400	400
	G2-25S11/16U	25	1 1/16-12	16.0	33.3	50	19.5	18.5	47	36	46	206	400	400
	G2-25S15/16U	25	1 5/16-12	20.0	-	50	19.5	18.5	47	41	46	258	400	400
	G2-30S15/16U	30	1 5/16-12	20.0	39.6	52	20.0	18.5	50	46	50	327	400	400
	G2-30S15/8U	30	1 5/8-12	24.0	-	52	20.0	18.5	50	50	50	422	400	400
	G2-38S15/8U	38	1 5/8-12	24.0	47.7	57	22.5	18.5	57	55	60	554	315	315

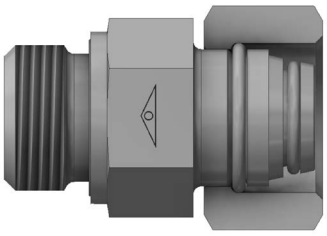
Swivel connector E6-R-ED

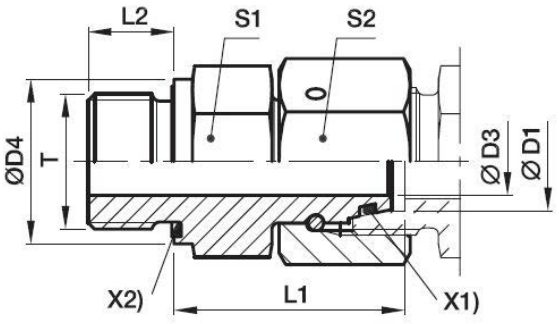




Series	Order code	D1	T	D3	D4	L1	L2	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	E6-6LR	06	G 1/8 A	2.5	14	24.5	8	14	14	27	500	315
	E6-8LR	08	G 1/4 A	4.0	19	29.5	12	19	17	28	500	315
	E6-8LR	08	G 3/8 A	5.0	22	29.5	12	22	17	45	500	315
	E6-10LR	10	G 1/4 A	6.0	19	27.5	12	19	19	54	500	315
	E6-10LR	10	G 3/8 A	6.0	22	19.0	12	22	19	70	400	315
	E6-12LR	12	G 3/8 A	8.0	22	34.0	12	22	22	95	400	315
	E6-12LR	12	G 1/4 A	6.0	19	27.5	12	19	22	65	400	315
	E6-12LR	12	G 1/2 A	8.0	27	29.5	14	27	22	114	400	315
	E6-15LR	15	G 1/2 A	10.0	27	32.0	14	27	27	137	400	315
	E6-18LR	18	G 1/2 A	13.0	27	31.5	14	27	32	143	400	315
	E6-22LR	22	G 3/4 A	17.0	32	32.5	16	32	36	200	250	160
	E6-28LR	28	G 1 A	22.0	40	35.0	18	41	41	289	250	160
	E6-35LR	35	G 1 1/4 A	28.0	50	42.5	20	50	50	500	250	160
	E6-42LR	42	G 1 1/2 A	34.0	55	46.5	22	55	60	718	250	160
S	E6-6SR	06	G 1/4 A	2.5	19	27.0	12	19	17	53	800	630
	E6-8SR	08	G 1/4 A	4.0	19	29.5	12	19	19	64	800	630
	E6-8SR	08	G 3/8 A	6.0	22	29.5	12	22	22	75	800	630
	E6-10SR	10	G 1/4 A	4.0	19	32.0	12	19	22	75	800	630
	E6-10SR	10	G 3/8 A	6.0	22	32.0	12	22	22	93	800	630
	E6-12SR	12	G 3/8 A	8.0	22	34.0	12	22	24	100	630	630
	E6-12SR	12	G 1/2 A	8.0	27	35.0	14	27	24	140	630	630
	E6-14SR	14	G 1/2 A	9.0	27	36.5	14	27	27	157	630	630
	E6-16SR	16	G 1/2 A	11.0	27	37.0	14	27	30	170	630	400
	E6-20SR	20	G 3/4 A	14.0	32	43.0	16	32	36	273	420	400
	E6-25SR	25	G 1 A	18.0	40	48.0	18	41	46	493	420	400
	E6-30SR	30	G 1 1/4 A	23.0	50	51.0	20	50	50	691	420	
	E6-38SR	38	G 1 1/2 A	30.0	55	60.0	22	55	60	934	420	315

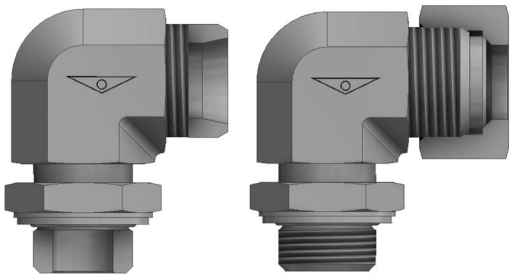
Swivel connector E6-M-ED

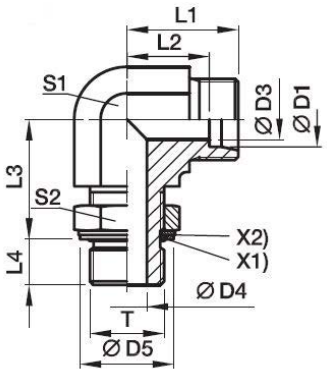


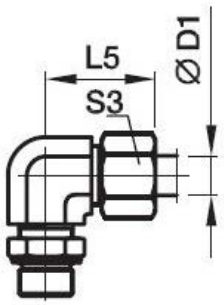


Series	Order code	D1	T	D3	D4	L1	L2	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	E6-6LM	06	M 10x1.0	2.5	14	24.5	8	14	14	27	500	315
	E6-8LM	08	M 12x1.5	4.0	17	26.5	12	17	17	45	500	315
	E6-10LM	10	M 14x1.5	6.0	19	27.5	12	19	19	57	500	315
	E6-12LM	12	M 16x1.5	8.0	22	30.5	12	22	22	82	400	315
	E6-15LM	15	M 18x1.5	10.0	24	31.5	12	24	27	113	400	315
	E6-18LM	18	M 22x1.5	13.0	27	31.5	14	27	32	148	400	315
	E6-22LM	22	M 26x1.5	17.0	32	32.5	16	32	36	203	250	160
	E6-28LM	28	M 33x1.5	22.0	40	35.0	18	41	41	189	250	160
	E6-35LM	35	M 42x2.0	28.0	50	42.5	20	50	50	511	250	160
	E6-42LM	42	M 48x2.0	34.0	55	46.5	22	55	60	711	250	160
S	E6-6SM	06	M 12x1.5	2.5	17	27.0	12	17	17	47	800	630
	E6-8SM	08	M 14x1.5	4.0	19	29.5	12	19	19	65	800	630
	E6-10SM	10	M 16x1.5	6.0	22	32.0	12	22	22	91	800	630
	E6-12SM	12	M 18x1.5	8.0	24	34.0	12	24	24	112	630	630
	E6-14SM	14	M 20x1.5	9.0	26	36.5	14	27	27	153	630	630
	E6-16SM	16	M 22x1.5	11.0	27	37.0	14	27	30	174	630	400
	E6-20SM	20	M 27x2.0	14.0	32	43.0	16	32	36	274	420	400
	E6-25SM	25	M 33x2.0	18.0	40	48.0	18	41	46	497	420	400
	E6-30SM	30	M 42x2.0	23.0	50	51.0	20	50	50	691	420	400
	E6-38SM	38	M 48x2.0	30.0	55	60.0	22	55	60	957	420	315

Adjustable locknut elbow W6-R

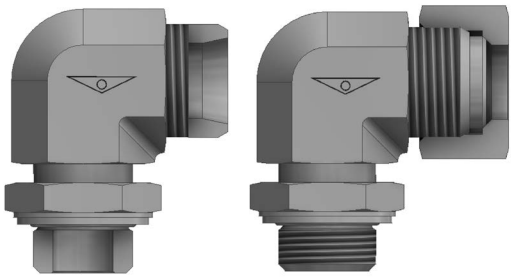


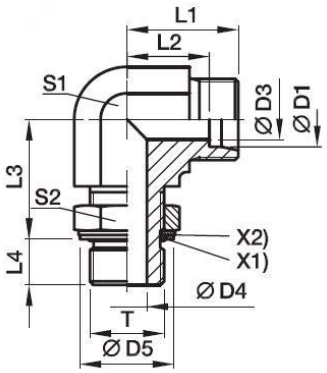


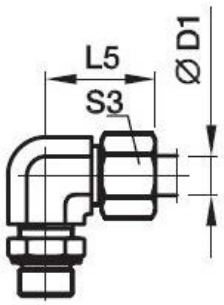


Series	Order code	D1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	S3	Weight (g) Complete	PN (bar)	
																Z	SS
L	W6-6LR 1/8	06	G 1/8 A	4.0	4.5	15	21	14.0	19	7.0	29	14	14	14	40	315	315
	W6-8LR 1/4	08	G 1/4 A	6.0	7.5	20	23	16.0	23	9.0	31	14	19	17	59	315	315
	W6-10LR 1/4	10	G 1/4 A	8.0	7.5	20	24	17.0	25	9.0	32	19	19	19	82	315	315
	W6-10LR 3/8	10	G 3/8 A	8.0	10.0	23	24	17.0	28	9.0	32	19	22	19	90	315	315
	W6-12LR 3/8	12	G 3/8 A	10.0	10.0	23	26	19.0	28	9.0	34	19	22	22	96	250	250
	W6-12LR 1/2	12	G 1/2 A	10.0	12.5	28	26	19.0	30	13.0	34	19	27	22	110	250	250
	W6-15LR 1/2	15	G 1/2 A	12.0	12.5	28	28	21.0	30	13.0	36	22	27	27	149	250	250
	W6-18LR 1/2	18	G 1/2 A	15.0	12.5	28	31	24.0	36	13.0	40	27	27	32	221	250	250
	W6-22LR 3/4	22	G 3/4 A	19.0	15.5	33	35	28.0	36	13.0	44	30	36	36	310	160	160
	W6-28LR 1	28	G 1 A	24.0	21.5	41	38	32.0	44	15.0	47	36	41	41	455	160	160
	W6-35LR 1 1/4	35	G 1 1/4 A	30.0	27.5	51	48	38.0	50	15.0	59	50	50	50	1043	160	160
	W6-42LR 1 1/2	42	G 1 1/2 A	36.0	33.0	56	49	38.0	52	15.0	61	50	55	60	994	160	160
S	W6-6SR 1/4	06	G 1/4 A	4.0	7.5	20	22	15.0	23	9.0	30	14	19	17	56	315	315
	W6-8SR 1/4	08	G 1/4 A	5.0	7.5	20	24	17.0	27	9.0	32	19	19	19	88	315	315
	W6-10SR 3/8	10	G 3/8 A	7.0	10.0	23	25	18.0	29	9.0	34	19	22	22	98	250	250
	W6-12SR 3/8	12	G 3/8 A	8.0	10.0	23	29	22.0	29	9.0	38	22	22	24	128	250	250
	W6-16SR 1/2	16	G 1/2 A	12.0	12.5	28	33	25.0	36	13.0	43	27	27	30	234	250	250
	W6-20SR 3/4	20	G 3/4 A	16.0	15.5	33	38	28.0	39	12.0	49	30	36	36	344	250	250
	W6-25SR 1	25	G 1 A	20.0	21.5	41	42	30.0	44	14.0	54	36	41	46	533	250	250
	W6-30SR 1 1/4	30	G 1 1/4 A	25.0	27.5	51	49	36.0	49	15.0	62	50	50	50	1085	160	160
	W6-38SR 1 1/2	38	G 1 1/2 A	32.0	33.0	56	50	34.0	55	15.0	65	50	55	60	1116	160	160

Adjustable locknut elbow W6-M

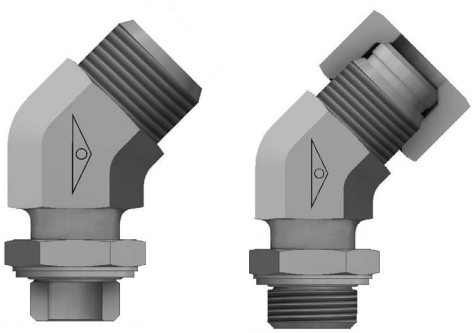


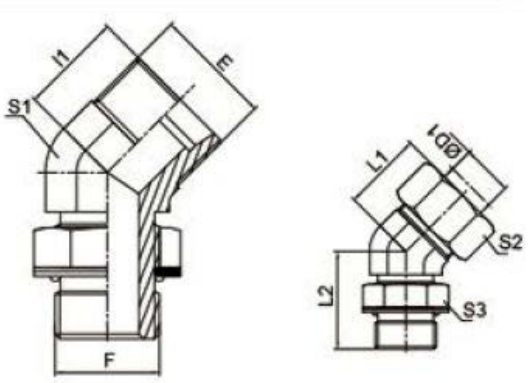




Series	Order code	D1	E	F	I1	L1	L2	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W6-6LM	06	M 12x1.5	M 10x1	13	28	26.5	11	14	14	40	315	315
	W6-8LM	08	M 14x1.5	M 12x1.5	15.5	30.5	32	14	17	17	59	315	315
	W6-10LM	10	M 16x1.5	M 14x1.5	17.5	32.5	34	16	19	19	82	315	315
	W6-12LM	12	M 18x1.5	M 16x1.5	19	34	36	19	22	22	96	315	315
	W6-15LM	15	M 22x1.5	M 18x1.5	22	37	39.5	22	27	24	149	315	315
	W6-18LM	18	M 26x1.5	M 22x1.5	25.5	42	43.5	27	32	27	221	315	315
	W6-22LM	22	M 30x2	M 27x2	29.3	45.8	50	30	36	32	310	160	160
	W6-28LM	28	M 36x2	M 33x2	33.3	49.8	54	36	41	41	455	160	160
S	W6-6SM	06	M 14x1.5	M 12x1.5	17.5	32.5	32	14	17	17	56	630	630
	W6-8SM	08	M 16x1.5	M 14x1.5	18.7	33.7	34	16	19	19	88	630	630
	W6-10SM	10	M 18x1.5	M 16x1.5	19.5	36	36	19	22	22	98	630	630
	W6-12SM	12	M 20x1.5	M 18x1.5	19.5	36	37	18	24	2	128	630	630
	W6-14SM	14	M 22x1.5	M 20x1.5	23	41	40	22	27	27	234	630	630
	W6-16SM	16	M 24x1.5	M 22x1.5	24	42	37.5	24	30	27	344	630	630
	W6-20SM	20	M 27x2	M 27x2	28.3	49.8	50	30	36	32	533	400	400
	W6-25SM	25	M 33x2	M 33x2	32.8	56.8	54	36	46	41	1085	400	400
	W6-30SM	30	M 42x2	M 42x2	36.2	62.7	57.2	41	50	50	1116	400	400

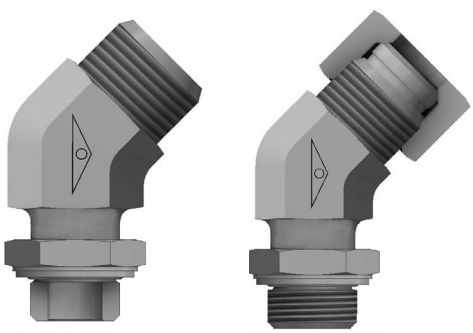
Adjustable locknut elbow W7-R

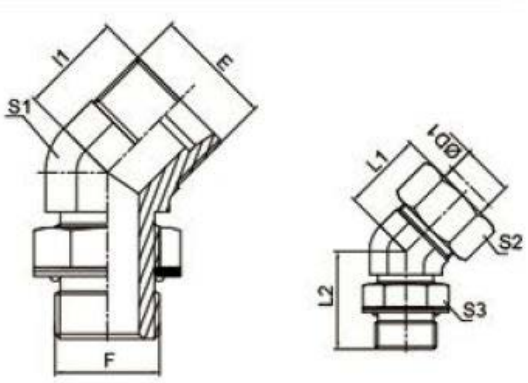




Series	Order code	D1	E	F	I1	L1	L2	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W7-6LR	06	M 12x1.5	G1/8x28	10	25	24	11	14	14	37	315	315
	W7-8LR	08	M 14x1.5	G1/4x19	11	26	27	14	17	19	49	315	315
	W7-10LR1/4	10	M 16x1.5	G1/4x19	12.3	27.3	27	16	19	19	67	315	315
	W7-10LR3/8	10	M 16x1.5	G3/8x19	12.3	27.6	30	16	19	22	67	315	315
	W7-12LR	12	M 18x1.5	G3/8x19	13	28	31	19	22	22	86	315	315
	W7-15LR	15	M 22x1.5	G1/2x14	15	30	36	22	27	27	139	315	315
	W7-18LR1/2	18	M 26x1.5	G1/2x14	16.5	33	17.5	27	32	27	162	315	315
	W7-18LR3/4	18	M 16x1.5	G3/4x14	16.5	33	42	27	32	32	162	315	315
	W7-22LR	22	M 30x2	G3/4x25	19.7	36.2	42.5	30	36	32	289	160	160
	W7-28LR	28	M 36x2	G1x11	21.5	38	44.5	36	41	41	457	160	160
	W7-35LR	35	M 45x2	G1 1/4x11	25.5	47	50.5	48	50	50	669	160	160
S	W7-6SR	06	M 14x1.5	G1/4x19	13	28	27	14	17	19	53	630	630
	W7-8SR	08	M 16x1.5	G1/4x19	13.3	28.3	27	16	19	19	82	630	630
	W7-10SR	10	M 18x1.5	G3/8x19	13.5	30	31	19	22	22	95	630	630
	W7-12SR	12	M 20x1.5	G3/8x19	13.5	30	31	19	24	22	123	630	630
	W7-14SR	14	M 22x1.5	G1/2x14	16.3	34.3	36	22	27	27	154	630	630
	W7-16SR	16	M 24x1.5	G1/2x14	16.2	34.7	36.5	24	30	27	179	400	400
	W7-20SR	20	M 30x2	G1/2x14	18.7	40.2	42.5	30	36	32	304	400	400
	W7-25SR	25	M 36x2	G1x11	21	45	44.5	36	46	41	537	400	400
	W7-30SR	30	M 42x2	G1 1/4x11	24.3	50.8	47.5	41	50	50	773	400	400

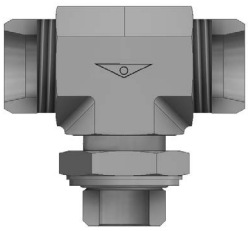
Adjustable locknut elbow W7-M

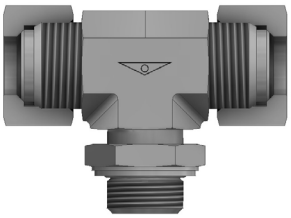


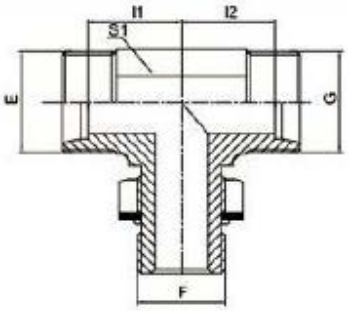


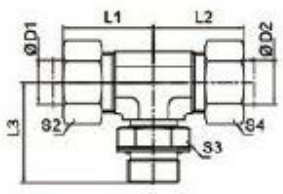
Series	Order code	D1	E	F	I1	L1	L2	S1	S2	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W7-6LM	06	M12x1.5	M10x1	10	25	25.5	11	14	14	35	315	315
	W7-8LM	08	M14x1.5	M12x1.5	11	26	30	14	17	17	46	315	315
	W7-10LM	10	M16x1.5	M14x1.5	12.3	27.3	30.5	16	19	19	74	315	315
	W7-12LM	12	M18x1.5	M16x1.5	13	28	34	19	22	22	86	315	315
	W7-15LM	15	M22x1.5	M18x1.5	15	30	38	22	27	24	119	315	315
	W7-18LM	18	M26x1.5	M22x1.5	16.5	33	40.5	27	32	27	186	315	315
	W7-22LM	22	M30x2	M27x2	19.7	36.2	48	30	36	32	323	160	160
	W7-28LM	28	M36x2	M33x2	21.5	38	49.5	36	41	41	553	160	160
	W7-35LM	35	M45x2	M42x2	25.5	47	55	48	50	50	966	160	160
S	W7-6SM	06	M14x1.5	M12x1.5	13	28	30	14	17	17	55	400	400
	W7-8SM	08	M16x1.5	M14x1.5	13.3	28.3	30.5	16	19	19	90	400	400
	W7-10SM	10	M18x1.5	M16x1.5	13.5	30	34	19	22	22	104	400	400
	W7-12SM	12	M20x1.5	M18x1.5	13.5	30	37	19	24	24	145	400	400
	W7-16SM	16	M24x1.5	M22x1.5	16.2	34.7	40	24	30	27	257	400	400
	W7-20SM	20	M30x2	M27x2	18.7	40.2	48	30	36	32	367	400	400
	W7-25SM	25	M36x2	M33x2	21	45	49.5	36	46	41	372	315	315
	W7-30SM	30	M42x2	M42x2	24.3	50.8	54	41	50	50	543	250	250

Male stud elbow W8-R



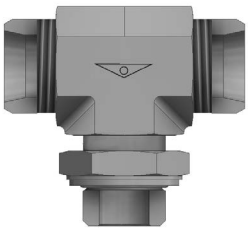


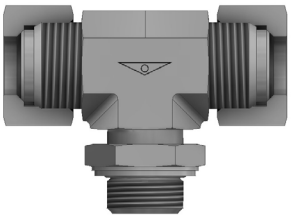


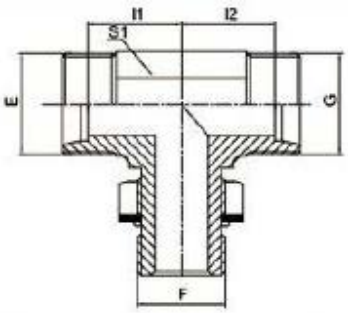


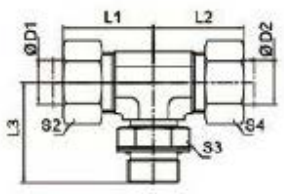
Series	Order code	D1 D2	E G	GFG	I1 I2	L1 L2	L3	S1	S2 S4	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W8-6LR	06	M 12x1.5	G1/8x28	13	28	26.2	11	14	14	52	315	315
	W8-8LR	08	M 14x1.5	G1/4x19	15.5	30.5	31.3	14	17	19	68	315	315
	W8-10LR	10	M 16x1.5	G1/4x19	17.5	32.5	32.5	16	19	19	97	315	315
	W8-12LR	12	M 18x1.5	G3/8x19	19	34	36.8	19	22	22	115	315	315
	W8-15LR	15	M 22x1.5	G1/2x14	22	37	43.2	22	27	27	184	315	315
	W8-18LR	18	M 26x1.5	G1/2x14	25.5	42	46.5	27	32	27	251	315	315
	W8-22LR	22	M 30x2	G3/4x14	29.3	45.8	52	30	36	32	386	160	160
	W8-28LR	28	M 36x2	G1x11	33.3	4.8	56	36	41	41	626	160	160
	W8-35LR	35	M 45x2	G1 1/4x11	39.2	60.7	63	48	50	50	985	160	160
S	W8-6SR	06	M 14x1.5	G1/4x19	17.5	32.5	31.3	14	17	19	78	630	630
	W8-8SR	08	M 16x1.5	G1/4x19	18.7	33.7	32.5	1	19	19	118	630	630
	W8-10SR	10	M18x1.5	G3/8x19	19.5	36	36.8	19	22	22	138	630	630
	W8-12SR	12	M 20x1.5	G3/8x19	19.5	36	36.8	19	24	22	179	630	630
	W8-14SR	14	M 22x1.5	G1/2x14	23	41	43.2	22	27	27	245	630	630
	W8-16SR	16	M 24x1.5	G1/2x14	24	42	44	24	30	27	283	400	400
	W8-20SR	20	M 30x2	G3/4x14	28.3	49.8	52	30	36	32	452	400	400
	W8-25SR	25	M 36x2	G1x11	32.8	56.8	56	36	46	41	762	400	400
	W8-30SR	30	M 42x2	G1 1/4x11	36.2	62.7	58	41	50	50	1153	400	400

Male stud elbow W8-M



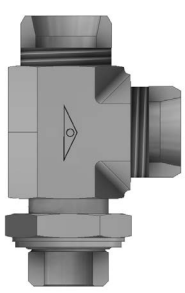


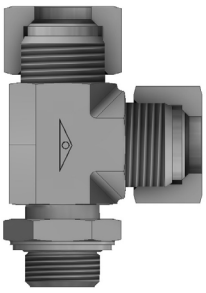


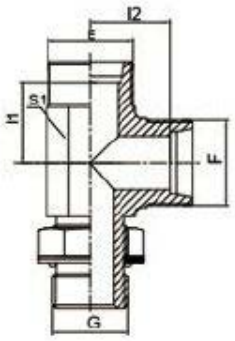


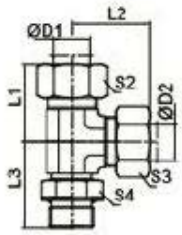
Series	Order code	D1 D2	E G	F	I1 I2	L1 L2	L3	S1	S2 S4	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W8-6LM	06	M 12x1.5	G1/8x28	13	28	26.2	11	14	14	39	315	315
	W8-8LM	08	M 14x1.5	G1/4x19	15.5	30.5	31.3	14	17	19	48	315	315
	W8-10LM	10	M 16x1.5	G1/4x19	17.5	32.5	32.5	16	19	19	82	315	315
	W8-12LM	12	M 18x1.5	G3/8x19	19	34	36.8	19	22	22	91	315	315
	W8-15LM	15	M 22x1.5	G1/2x14	22	37	43.2	22	27	27	140	315	315
	W8-18LM	18	M 26x1.5	G1/2x14	25.5	42	46.5	27	32	27	205	315	315
	W8-22LM	22	M 30x2	G3/4x14	29.3	45.8	52	30	36	32	319	160	160
	W8-28LM	28	M 36x2	G1x11	33.3	49.8	56	36	41	41	543	160	160
S	W8-6SM	06	M 14x1.5	G1/4x19	17.5	32.5	31.3	14	17	19	56	630	630
	W8-8SM	08	M 16x1.5	G1/4x19	18.7	33.7	32.5	1	19	19	93	630	630
	W8-10SM	10	M18x1.5	G3/8x19	19.5	36	36.8	19	22	22	109	630	630
	W8-12SM	12	M 20x1.5	G3/8x19	19.5	36	36.8	19	24	22	155	630	630
	W8-14SM	14	M 22x1.5	G1/2x14	23	41	43.2	22	27	27	188	630	630
	W8-16SM	16	M 24x1.5	G1/2x14	24	42	44	24	30	27	248	400	400
	W8-20SM	20	M 30x2	G3/4x14	28.3	49.8	52	30	36	32	398	400	400
	W8-25SM	25	M 36x2	G1x11	32.8	56.8	56	36	46	41	657	400	400
	W8-30SM	30	M 42x2	G1 1/4x11	36.2	62.7	58	41	50	50	1050	400	400

Male stud elbow W9-R



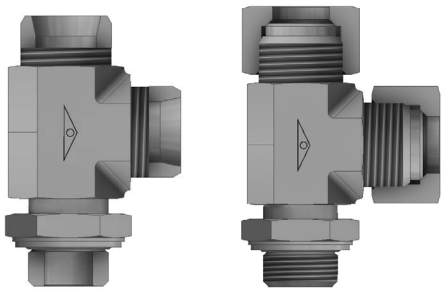


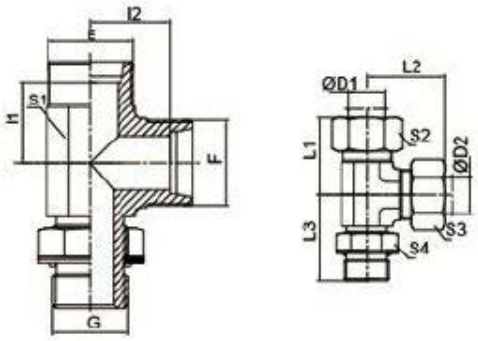




Series	Order code	D1 D2	E G	F	I1 I2	L1 L2	L3	S1	S2 S4	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W9-6LR	06	M 12x1.5	G1/8x28	13	28	26.2	11	14	14	50	315	315
	W9-8LR	08	M 14x1.5	G1/4x19	15.5	30.5	31.3	14	17	19	68	315	315
	W9-10LR	10	M 16x1.5	G1/4x19	17.5	32.5	32.5	16	19	19	98	315	315
	W9-12LR	12	M 18x1.5	G3/8x19	19	34	36.8	19	22	22	116	315	315
	W9-15LR	15	M 22x1.5	G1/2x14	22	37	43.2	22	27	27	183	315	315
	W9-18LR	18	M 26x1.5	G1/2x14	25.5	42	46.5	27	32	27	247	315	315
	W9-22LR	22	M 30x2	G3/4x14	29.3	45.8	52	30	36	32	383	160	160
	W9-28LR	28	M 36x2	G1x11	33.3	49.8	56	36	41	41	630	160	160
	W9-35LR	35	M 45x2	G1 1/4x11	39.2	60.7	63	48	50	50	1003	160	160
S	W9-6SR	06	M 14x1.5	G1/4x19	17.5	32.5	31.3	14	17	19	78	630	630
	W9-8SR	08	M 16x1.5	G1/4x19	18.7	33.7	32.5	16	1	19	118	630	630
	W9-10SR	10	M18x1.5	G3/8x19	19.5	36	36.8	19	22	22	137	630	630
	W9-12SR	12	M 20x1.5	G3/8x19	19.5	36	36.8	19	24	22	177	630	630
	W9-14SR	14	M 22x1.5	G1/2x14	23	41	43.2	22	27	27	243	630	630
	W9-16SR	16	M 24x1.5	G1/2x14	24	42.5	44	24	30	27	284	400	400
	W9-20SR	20	M 30x2	G3/4x14	28.3	49.8	52	30	36	32	464	400	400
	W9-25SR	25	M 36x2	G1x11	32.8	56.8	56	36	46	41	765	400	400
	W9-30SR	30	M 42x2	G1 1/4x11	36.2	62.7	58	41	50	50	1204	400	400

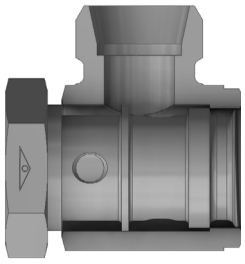
Male stud elbow W9-M

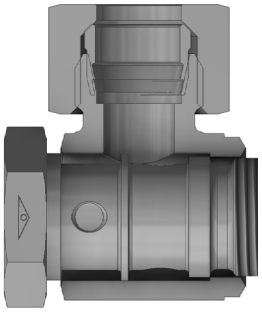


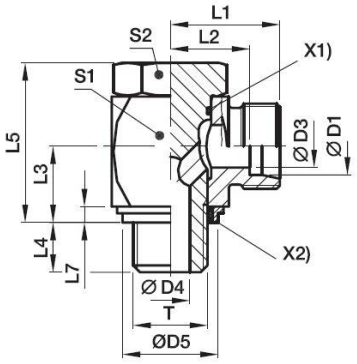


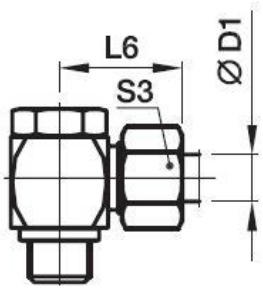
Series	Order code	D1 D2	E G	F	I1 I2	L1 L2	L3	S1	S2 S4	S3	Weight (g) Complete	PN (bar)	
												Z	SS
L	W9-6LM	06	M 12x1.5	M10x1	13	28	26.5	11	14	14	50	315	315
	W9-8LM	08	M 14x1.5	M 12x1.5	15.5	30.5	32	14	17	17	62	315	315
	W9-10LM	10	M 16x1.5	M 14x1.5	17.5	32.5	34	16	19	19	98	315	315
	W9-12LM	12	M 18x1.5	M 16x1.5	19	34	36	19	22	22	107	315	315
	W9-15LM	15	M 22x1.5	M 18x1.5	22	37	39.5	22	27	24	158	315	315
	W9-18LM	18	M 26x1.5	M 22x1.5	25.5	42	43.5	27	32	27	240	315	315
	W9-22LM	22	M 30x2	M 27x2	29.3	45.8	50	30	36	32	368	160	160
	W9-28LM	28	M 36x2	M 33x2	33.3	49.8	54	36	41	41	597	160	160
S	W9-6SM	06	M 14x1.5	M 12x1.5	17.5	32.5	32	14	17	17	72	630	630
	W9-8SM	08	M 16x1.5	M 14x1.5	18.7	33.7	34	16	19	19	134	630	630
	W9-10SM	10	M18x1.5	M 16x1.5	19.5	36	36	19	22	22	131	630	630
	W9-12SM	12	M 20x1.5	M 18x1.5	19.5	36	37	19	24	24	195	630	630
	W9-16SM	16	M 24x1.5	M 22x1.5	24	42	37.5	24	30	27	290	400	400
	W9-20SM	20	M 30x2	M 27x2	28.3	49.8	50	30	36	32	457	400	400
	W9-25SM	25	M 36x2	M 33x2	32.8	56.8	54	36	46	41	621	400	400
	W9-30SM	30	M 42x2	M 42x2	36.2	62.7	57.2	41	50	50	933	400	400

High pressure banjo elbow W5-R-ED



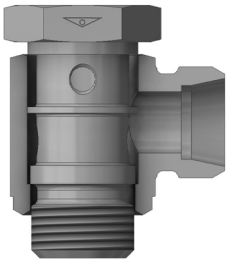


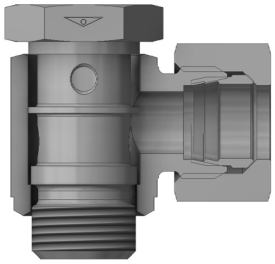


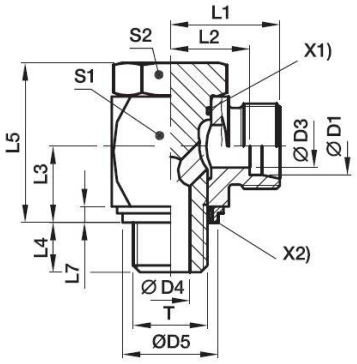


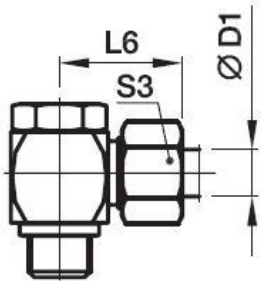
Series	Order code	D1	T	D3	D4	D5	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	Weight (g) Complete	PN (bar) Z	PN (bar) SS
L	W5-6LR 1/8 ED	06	G 1/8 A	4	4.5	14.9	19.0	12.0	10.5	8	24	27	2.5	17	17	14	53	315	315
	W5-8LR 1/4 ED	08	G 1/4 A	6	6.0	18.9	21.5	14.5	14.0	12	30	29	3.0	22	19	17	101	315	315
	W5-10LR 1/4 ED	10	G 1/4 A	8	6.0	18.9	22.5	45.5	14.0	12	30	30	3.0	22	19	19	102	315	315
	W5-12LR 3/8 ED	12	G 3/8 A	10	7.5	21.9	25.0	18.0	16.5	12	36	33	3.0	27	24	22	181	315	315
	W5-15LR 1/2 ED	15	G 1/2 A	12	11.0	26.9	28.5	21.5	21.5	14	45	37	4.5	32	30	27	312	315	315
	W5-18LR 1/2 ED	18	G 1/2 A	15	11.0	26.9	28.5	21.0	21.5	14	45	37	4.5	32	30	32	319	315	315
	W5-22LR 3/4 ED	22	G 3/4 A	19	17.0	32.9	36.0	27.5	24.0	16	53	44	3.5	41	36	36	578	160	160
	W5-28LR 1 ED	28	G 1 A	24	21.0	39.9	39.5	32.0	30.5	18	66	49	3.5	50	46	41	1035	160	160
	W5-35LR 1 1/4 ED	35	G 1 1/4 A	30	27.0	49.9	46.5	36.0	35.5	20	76	58	3.5	60	55	50	1499	160	160
	W5-42LR 1 1/2 ED	42	G 1 1/2 A	36	34.0	55.9	51.5	40.5	40.5	22	87	63	3.5	70	60	60	2196	160	160
S	W5-6SR 1/4 ED	06	G 1/4 A	4	6.0	18.9	23.5	16.5	14.0	12	30	31	3.0	22	19	17	107	400	400
	W5-8SR 1/4 ED	08	G 1/4 A	5	6.0	18.9	23.5	16.5	14.0	12	30	31	3.0	22	19	19	107	400	400
	W5-10SR 3/8 ED	10	G 3/8 A	7	7.5	21.9	26.0	18.5	16.5	12	36	35	3.0	27	24	22	188	400	400
	W5-12SR 3/8 ED	12	G 3/8 A	8	7.5	21.9	26.0	18.5	16.5	12	36	35	3.0	27	24	24	190	400	400
	W5-14SR 1/2 ED	14	G 1/2 A	10	11.0	26.9	30.5	22.5	21.5	15	45	40	4.5	32	30	27	320	400	400
	W5-16SR 1/2 ED	16	G 1/2 A	12	11.0	26.9	30.5	22.0	21.5	14	45	40	4.5	32	30	30	324	315	315
	W5-20SR 3/4 ED	20	G 3/4 A	16	17.0	32.9	37	26.5	24.0	16	53	48	3.5	41	36	36	588	315	315
	W5-25SR 1 ED	25	G 1 A	20	21.0	39.9	43.5	31.5	30.5	18	66	56	3.5	50	46	46	1073	250	250
	W5-30SR 1 1/4 ED	30	G 1 1/4 A	25	27.0	49.9	50.5	37.0	35.5	20	76	64	3.5	60	55	50	1559	160	160
	W5-38SR 1 1/2 ED	38	G 1 1/2 A	32	34.0	55.9	57.5	41.5	40.5	22	87	72	3.5	70	60	60	2296	160	160

High pressure banjo elbow W5-M-ED







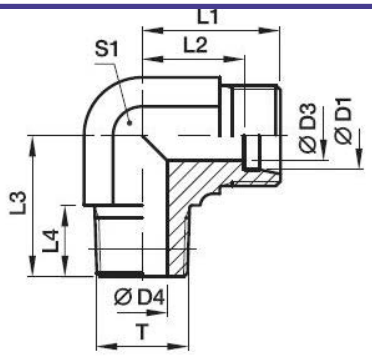


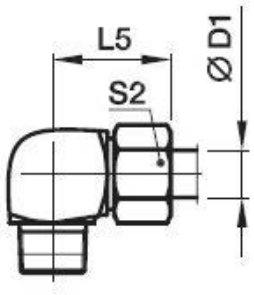
Series	Order code	D1	T	D3	D4	D5	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	Weight (g) Complete	PN (bar) Z	PN (bar) SS
L	W5-6LMED	06	M 10x1.0	04	4.5	14.9	19.0	12.0	10.5	08	24.0	27	2.5	17	17	14	54	315	315
	W5-8LMED	08	M 12x1.5	06	6.0	17.0	21.5	14.5	14.0	12	30.0	29	3.0	22	19	17	97	315	315
	W5-10LMED	10	M 14x1.5	08	6.0	18.9	22.5	15.5	14.0	12	30.0	30	3.0	22	19	19	104	315	315
	W5-12LMED	12	M 16x1.5	10	7.5	21.9	25.0	18.0	16.5	12	36.0	33	3.0	27	24	22	180	315	315
	W5-15LMED	15	M 18x1.5	11	9.0	23.9	27.5	21.5	18.5	12	39.5	37	3.0	30	30	27	244	315	315
	W5-18LMED	18	M 22x1.5	15	12.0	26.9	28.5	21.0	21.5	14	45.0	37	4.5	32	30	32	327	315	315
	W5-22LMED	22	M 26x1.5	19	17.0	31.9	35.0	27.5	24.0	16	53.0	4	3.5	41	36	36	573	160	160
	W5-28LMED	28	M 33x2.0	24	21.0	39.9	39.5	32.0	30.5	18	66.0	49	3.5	50	46	41	1017	160	160
	W5-35LMED	35	M 42x2.0	30	27.0	49.9	46.5	36.0	35.5	20	76.0	58	3.5	60	55	50	1512	160	160
	W5-42LMED	42	M 48x2.0	36	34.0	55.9	51.5	40.5	40.5	22	87.0	63	3.5	70	60	60	2217	160	160
S	W5-6SMED	06	M 12x1.5	04	6.0	17.0	23.5	16.0	16.5	12	30.0	31	3.0	22	19	17	104	400	400
	W5-8SMED	08	M 14x1.5	05	6.0	18.9	23.5	16.0	16.5	12	30.0	31	3.0	22	19	19	110	400	400
	W5-10SMED	10	M 16x1.5	07	7.5	21.9	26.0	18.6	18.5	12	36.0	35	3.0	27	24	22	186	400	400
	W5-12SMED	12	M 18x1.5	08	9.0	23.9	27.5	20.0	20.0	12	39.5	36	3.0	27	27	24	246	400	400
	W5-14SMED	14	M 20x1.5	10	10.0		30.5	22.5	22.5	14	43.5	40	3.0	32	30	27	322	-	400
	W5-16SMED	16	M 22x1.5	12	12.0	26.9	30.5	22.0	22.0	14	45.0	40	4.5	32	30	30	327	315	315
	W5-20SMED	20	M 27x2.0	16	16.0	32.9	37.0	26.5	26.5	16	53.0	48	3.5	41	36	36	598	315	315
	W5-25SMED	25	M 33x2.0	20	21.0	39.9	43.5	31.5	31.5	18	66.0	56	3.5	50	46	46	1055	250	250
	W5-30SMED	30	M 42x2.0	25	27.0	49.9	50.5	37.0	37.0	20	76.0	64	3.5	60	55	50	1572	160	160
	W5-38SMED	38	M 48x2.0	32	34.0	55.9	57.5	41.0	41.5	22	87.0	72	3.5	70	60	60	2317	160	160

Male stud elbow W4-RT





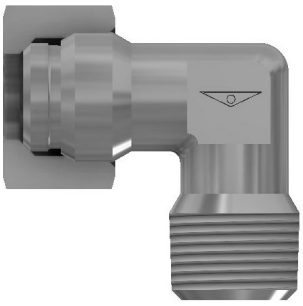


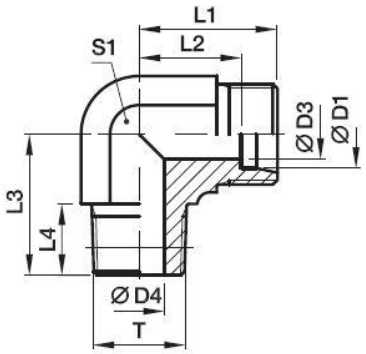


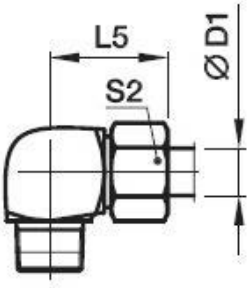
Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	L5	S1	S2	Weight (g) Complete	PN (bar)	
														Z	SS
LL	W4-4LLRT 1/8	04	R 1/8 tap.	3.0	4.0	15	11.0	17	8	21	9	10	15	100	100
	W4-6LLRT 1/8	06	R 1/8 tap.	4.5	4.5	15	9.5	17	8	21	9	12	16	100	100
	W4-8LLRT 1/8	08	R 1/8 tap.	6.0	6.0	17	11.5	20	8	23	12	14	22	100	100
	W4-10LLRT 1/4	10	R 1/8 tap.	8.0	7.0	18	12.5	23	12	24	12	17	41	100	-
	W4-12LLRT 1/4	12	R 1/8 tap.	10.0	7.0	19	13.0	23	12	25	14	19	48	100	-
L	W4-6LRT 1/8	06	R 1/8 tap.	4.0	4.0	19	12.0	20	8	27	12	14	30	315	315
	W4-6LRT 1/4	06	R 1/4 tap.	4.0	6.0	21	14.0	26	12	29	12	14	47	315	315
	W4-8LRT 1/8	08	R 1/4 tap.	6.0	6.0	21	14.0	26	12	29	12	17	46	315	315
	W4-8LRT 1/4	08	R 3/8 tap.	6.0	9.0	24	17.0	28	12	32	17	17	94	315	315
	W4-10LRT 1/4	10	R 1/4 tap.	8.0	7.0	22	15.0	27	12	30	14	19	61	315	315
	W4-10LRT 3/8	10	R 3/8 tap.	8.0	9.0	24	17.0	28	12	32	17	19	87	315	315
	W4-10LRT 1/2	10	R 1/2 tap.	10.0	11.0	28	21.0	34	14	36	19	19	88	315	315
	W4-12LRT 3/8	12	R 3/8 tap.	10.0	9.0	24	17.0	28	12	32	17	22	88	315	315
	W4-12LRT 1/4	12	R 1/4 tap.	10.0	7.0	24	17.0	27	12	32	17	22	80	315	315
	W4-12LRT 1/2	12	R 1/2 tap.	10.0	11.0	28	21.0	34	14	36	19	22	89	315	315
	W4-15LRT 1/2	15	R 1/2 tap.	12.0	11.0	28	21.0	34	14	36	19	27	94	315	315
	W4-18LRT 1/2	18	R 1/2 tap.	15.0	14.0	31	23.5	36	14	40	24	32	141	315	315
	W4-22LRT 3/4	22	R 3/4 tap.	19.0	16.0	35	27.5	42	19.5	44	27	36	167	160	160
	W4-28LRT 1	28	R 1 tap.	24.0	21.0	38	30.5	48	18	47	36	41	293	160	160
	W4-35LRT 1 1/4	35	R 1 1/4 tap.	30.0	28.0	45	34.5	54	20	56	41	50	437	160	160
	W4-42LRT 1 1/2	42	R 1 1/2 tap.	36.0	34.0	51	40	61	22	63	50	60	695	160	160
S	W4-6SRT 1/4	06	R 1/4 tap.	4.0	4.0	23	16.0	26	12	31	12	17	56	400	400
	W4-8SRT 1/4	08	R 1/4 tap.	5.0	5.0	24	17.0	27	12	32	14	19	73	400	400
	W4-10SRT 3/8	10	R 3/8 tap.	7.0	7.0	25	17.5	28	12	34	17	22	104	400	400
	W4-12SRT 3/8	12	R 3/8 tap.	8.0	8.0	29	21.5	28	12	35	17	24	126	400	400
	W4-14SRT 1/2	14	R 1/2 tap.	10.0	10.0	30	22.0	32	14	40	19	27	101	400	400
	W4-16SRT 1/2	16	R 1/2 tap.	12.0	12.0	33	24.5	32	14	43	24	30	150	400	400
	W4-20SRT 3/4	20	R 3/4 tap.	16.0	16.0	37	26.5	42	16	48	27	36	209	400	400
	W4-25SRT 1	25	R 1 tap.	20.0	20.0	42	30	48	18	54	36	46	376	400	400
	W4-30SRT 1 1/4	30	R 1 1/4 tap.	25.0	25.0	49	35.5	54	20	62	41	50	604	400	400
	W4-38SRT 1 1/2	38	R 1 1/2 tap.	32.0	32.0	57	41	61	22	72	50	60	937	315	315

Male stud elbow W4-NPT





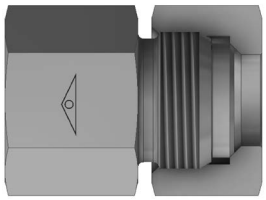


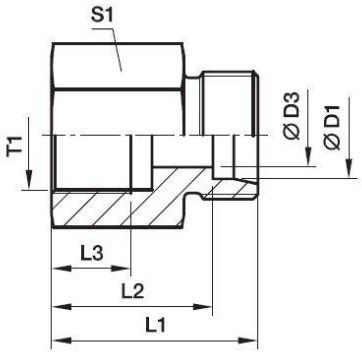


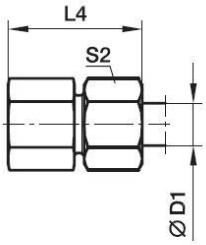
Series	Order code	D1	T	D3	D4	L1	L2	L3	L4	L5	S1	S2	Weight (g) Complete	PN (bar)	
														Z	SS
L	W4-6LN 1/8	06	1/8-27NPT	4.0	4.0	19	12.0	20	10.0	27	12	14	29	315	315
	W4-6LN 1/4	06	1/4-18NPT	4.0	7.0	21	14.0	26	14.5	29	12	14	44	315	315
	W4-8LN 1/4	08	1/8-27NPT	6.0	4.0	21	14.0	26	10.0	29	12	17	48	315	315
	W4-8LN 3/8	08	1/4-18NPT	6.0	6.0	21	14.0	26	14.5	29	12	17	47	315	315
	W4-10LN 1/4	10	1/4-18NPT	8.0	7.0	22	15.0	27	14.5	30	14	19	61	315	315
	W4-10LN 3/8	10	3/8-18NPT	8.0	8.0	24	17.0	28	14.5	32	17	19	92	315	315
	W4-12LN 3/8	12	3/8-18NPT	10.0	7.0	24	17.0	28	14.5	32	17	22	82	315	315
	W4-12LN 1/4	12	1/4-14NPT	10.0	8.0	24	17.0	28	14.5	32	17	22	92	315	315
	W4-12LN 1/2	12	1/2-14NPT	10.0	11.0	28	21.0	34	19.5	36	19	22	90	315	315
	W4-15LN 1/2	15	1/2-14NPT	12.0	11.0	28	21.0	34	19.5	36	19	27	89	315	315
	W4-18LN 1/2	18	1/2-14NPT	15.0	12.0	31	23.5	36	19.5	40	24	32	150	315	315
	W4-22LN 3/4	22	3/4-14NPT	19.0	160	35	27.5	42	19.5	44	27	36	176	160	160
	W4-28LN 1	28	1-11.5NPT	24.0	21.0	38	30.5	48	24.5	47	36	41	314	160	160
	W4-35LN 1 1/4	35	1 1/4-11.5 NPT	30.0	28.0	45	34.5	54	25.0	56	41	50	465	160	160
	W4-42LN 1 1/2	42	1 1/2-11.5 NPT	36.0	34.0	51	40.0	61	26.0	63	50	60	849	160	160
S	W4-6SN 1/4	06	1/4-18NPT	4.0	4.0	23	16.0	26	14.5	31	12	17	56	400	400
	W4-8SN 1/4	08	1/4-18NPT	5.0	5.0	24	17.0	27	14.5	32	14	19	73	400	400
	W4-10SN 3/8	10	3/8-18NPT	7.0	7.0	25	17.5	28	14.5	34	17	22	98	400	400
	W4-12SN 3/8	12	3/8-18NPT	8.0	8.0	29	22.5	28	14.5	38	17	24	123	400	400
	W4-14SN 1/2	14	1/2-14NPT	10.0	10.0	30	22.0	34	19.5	40	19	27	103	400	400
	W4-16SN 1/2	16	1/2-14NPT	12.0	12.0	33	24.5	36	19.5	43	24	30	157	400	400
	W4-20SN 3/4	20	3/4-14NPT	16.0	16.0	37	26.5	42	19.5	48	27	36	205	400	400
	W4-25SN 1	25	1-11.5NPT	20.0	20.0	42	30.0	48	24.5	54	36	46	381	400	400
	W4-30SN 1 1/4	30	1 1/4-11.5 NPT	25.0	25.0	49	35.5	54	25.0	62	41	50	598	400	400
	W4-38SN 1 1/2	38	1 1/2-11.5 NPT	32.0	32.0	57	41.0	61	26.0	72	50	60	1029	315	315

Female connector L1-R





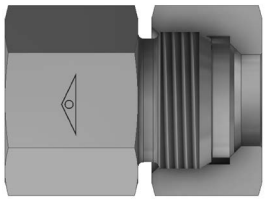


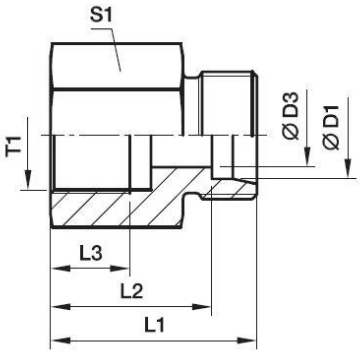


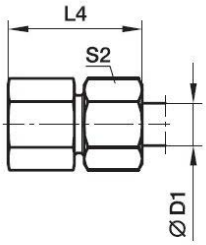
Series	Order code	D1	T1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
L	L1-6LR 1/8	06	G 1/8	4	26.0	19.0	8.0	34	14	14	18	315	315
	L1-8LR 1/4	08	G 1/4	6	31.0	24.0	12.0	39	09	17	39	315	315
	L1-8LR 3/8	08	G 3/8	6	32.0	45.0	12.0	40	24	17	61	315	315
	L1-8LR 1/2	08	G 12	6	36.0	29.0	14.0	44	27	17	80	315	315
	L1-10LR 1/4	10	G 1/4	8	32.0	25.0	12.0	40	19	19	40	315	315
	L1-10LR 3/8	10	G 3/8	8	33.0	26.0	12.0	41	24	19	63	315	315
	L1-10LR 1/2	10	G 1/2	8	37.0	30.0	14.0	45	27	19	81	315	315
	L1-12LR 3/8	12	G 3/8	10	33.0	26.0	12.0	41	24	22	64	315	315
	L1-12LR 1/2	12	G 1/2	10	370	30.0	14.0	45	27	22	83	315	315
	L1-15LR 1/2	15	G 1/2	12	38.0	31.0	14.0	46	27	27	87	315	315
	L1-18LR 1/2	18	G 1/2	15	38.0	30.5	14.0	47	27	32	89	315	315
	L1-22LR 3/4	22	G 3/4	19	43.0	35.5	16.0	52	36	36	173	160	160
	L1-28LR 1	28	G 1	24	45.5	38.0	18.0	55	41	41	211	160	160
	L1-35LR 1 1/4	35	G 1 1/4	30	54.5	41.0	20.0	63	55	50	469	160	160
	L1-42LR 1 1/2	42	G 1 1/2	36	63.5	12.5	22.0	65	60	60	540	160	160
S	L1-6SR 1/4	06	G 1/4	4	33.0	26.0	12.0	41	19	17	43	400	400
	L1-8SR 1/4	08	G 1/4	5	33.0	26.0	12.0	41	19	19	447	400	400
	L1-10SR 3/8	10	G 3/8	7	34.0	26.5	12.0	43	24	22	68	400	400
	L1-12SR 3/8	12	G 3/8	8	34.0	26.5	12.0	43	24	24	71	400	400
	L1-14SR 1/2	14	G 1/2	10	40.0	32.0	14.0	50	30	27	125	400	400
	L1-16SR 1/2	16	G 1/2	12	40.0	31.5	14.0	50	30	30	126	400	400
	L1-20SR 3/4	20	G 3/4	16	45.0	34.5	16.0	56	36	36	196	315	315
	L1-25SR 1	25	G 1	20	49.5	37.5	18.0	62	41	46	246	315	315
	L1-30SR 1 1/4	30	G 1 1/4	25	55.5	42.0	22.0	69	55	50	537	315	315
	L1-38SR 1 1/2	38	G 1 1/2	32	59.5	43.5	22.0	74	60	60	649	250	250

Female connector L1-M



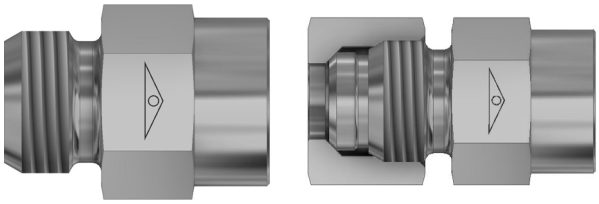


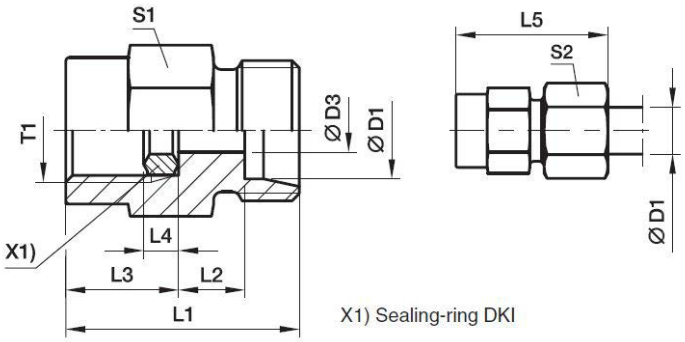




Series	Order code	D1	T1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
L	L1-6LM	06	M 10x1.0	4	26.5	19.5	8.0	34	14	14	18	315	315
	L1-8LM	08	M 12x1.5	6	31.0	24.0	12.0	39	17	17	32	315	315
	L1-10LM	10	M 14x1.5	8	32.0	25.0	12.0	40	19	19	39	315	315
	L1-12LM	12	M 16x1.5	10	33.0	26.0	12.0	41	22	22	52	315	315
	L1-15LM	15	M 18x1.5	12	35.0	28.0	12.0	43	24	27	68	315	315
	L1-18LM	18	M 22x1.5	15	37.0	29.5	14.0	46	30	32	111	315	315
	L1-22LM	22	M 26x2.0	19	42.0	34.5	16.0	51	32	36	123	160	160
	L1-28LM	28	M 33x2.0	24	45.0	37.5	18.0	54	41	41	211	160	160
	L1-35LM	35	M 42x2.0	30	51.0	40.5	20.0	62	55	50	459	160	160
	L1-42LM	42	M 48x2.0	36	53.0	42.0	22.0	65	60	60	522	160	160
S	L1-6SM	06	M 12x1.5	4	33.0	26.0	12.0	41	17	17	35	400	400
	L1-8SM	08	M 14x1.5	5	33.0	26.0	12.0	41	17	19	42	400	400
	L1-10SM	10	M 16x1.5	7	34.0	26.5	12.0	43	22	22	58	400	400
	L1-12SM	12	M 18x1.5	8	35.0	27.5	12.0	44	24	24	70	400	400
	L1-14SM	14	M 20x1.5	10	39.0	31.0	14.0	49	27	27	95	400	400
	L1-16SM	16	M 22x1.5	12	39.0	30.5	14.0	49	30	30	114	400	400
	L1-20SM	20	M 27x2.0	16	45.0	34.5	16.0	56	36	36	189	315	315
	L1-25SM	25	M 33x2.0	20	49.0	37.0	18.0	61	41	46	235	315	315
	L1-30SM	30	M 42x2.0	25	55.0	41.5	20.0	68	55	50	490	315	315
	L1-38SM	38	M 48x2.0	32	59.0	43.0	22.0	74	60	60	597	250	250

Pressure gauge connector MV



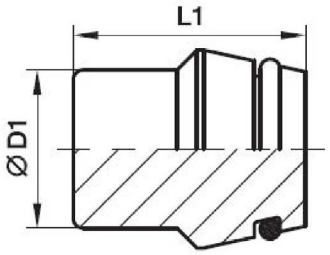


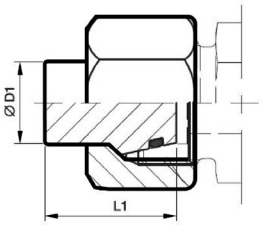
Series	Order code	D1	T1	D3	L1	L2	L3	L4	S1	S2	Weight (g) Complete	PN (bar)	
												Z	SS
L	NR MV-6L	06	G 1/4	2.5	29	7.5	14.5	4.5	37	14	37	315	315
	NR MV-8L	08	G 1/4	5.5	29	7.5	14.5	4.5	37	17	38	315	315
	NR MV-10L	10	G 1/4	5.5	30	8.5	14.5	4.5	38	19	41	315	315
	NR MV-12L	12	G 1/4	5.5	30	8.5	14.5	4.50	38	22	43	315	315
S	NR MV-6S	06	G 1/2	3.5	38	11.0	20.0	5.0	46	27	86	630	630
	NR MV-8S	08	G 1/2	3.5	38	11.0	20.0	5.0	46	27	86	630	630
	NR MV-10S	10	G 1/2	7.5	38	10.5	20.0	5.0	47	27	88	630	630
	NR MV-12L	12	G 1/2	7.5	38	10.5	20.0	5.0	47	27	93	630	630

Blaking plug with nut for cone P1



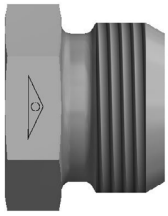


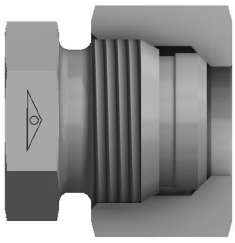


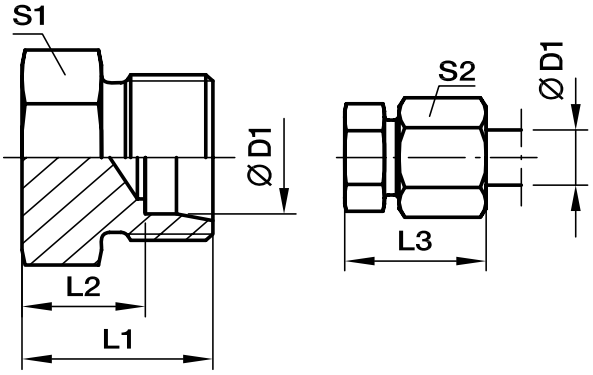


Series	Order code	D1	L1	Weight (g) Complete	PN (bar)	
					Z	SS
L	P1-6L	06	18.5	15	500	315
	P1-8L	08	18.5	24	500	315
	P1-10L	10	20.0	33	500	315
	P1-12L	12	20.5	46	400	315
	P1-15L	15	20.5	73	400	315
	P1-18L	18	22.0	111	400	315
	P1-22L	22	25.0	162	250	160
	P1-28L	28	25.5	220	250	160
	P1-35L	35	30.0	376	250	160
	P1-42L	42	30.0	558	250	160
S	P1-6S	06	18.5	23	800	630
	P1-8S	08	18.5	29	800	630
	P1-10S	10	20.0	46	800	630
	P1-12S	12	20.5	55	630	630
	P1-14S	14	22.5	83	630	630
	P1-16S	16	23.5	106	630	400
	P1-20S	20	28.5	180	420	400
	P1-25S	25	29.0	322	420	400
	P1-30S	30	30.5	398	420	400
	P1-38S	38	33.0	647	420	315

Blaking plug with nut for cone P3



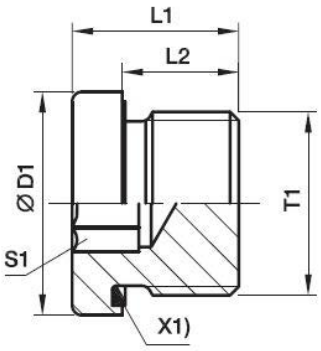




Series	Order code	D1	L1	L2	L3	S1	S2	Weight (g) Complete	PN (bar)	
									Z	SS
L	P3-6L	06	14	7.0	22	12	14	8	315	315
	P3-8L	08	15	8.0	23	14	17	13	315	315
	P3-10L	10	16	9.0	24	17	19	17	315	315
	P3-12L	12	17	10.0	25	19	22	24	315	315
	P3-15L	15	18	11.0	26	24	27	41	315	315
	P3-18L	18	19	11.5	28	27	32	56	315	315
	P3-22L	22	21	13.5	30	32	36	84	160	160
	P3-28L	28	22	14.5	31	41	41	138	160	160
	P3-35L	35	25	14.5	36	46	50	203	160	160
	P3-42L	42	27	16.0	39	55	60	318	160	160
S	P3-6S	06	18	11.0	26	14	17	17	630	630
	P3-8S	08	20	13.0	28	17	19	28	630	630
	P3-10S	10	20	12.5	29	19	22	33	630	630
	P3-12S	12	22	14.5	31	22	24	50	630	630
	P3-14S	14	24	16.0	34	24	27	62	630	630
	P3-16S	16	24	15.5	34	27	30	75	400	400
	P3-20S	20	28	17.5	39	32	36	125	400	400
	P3-25S	25	32	20.0	44	41	46	229	400	400
	P3-30S	30	34	20.5	47	46	50	310	400	400
	P3-38S	38	39	23.0	54	55	60	508	315	315

Plug VST-R-ED



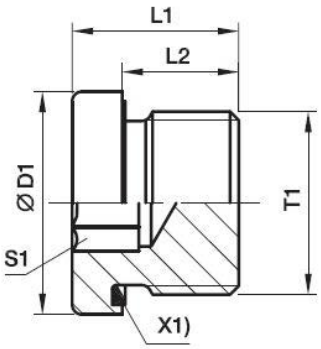


X1) Eolastic-sealing ED

Order code	Male stud BSP thread T1	D1	L1	L2	S1	Weight (g) Complete	PN (bar)	
							Z	SS
VST1/8ED	G 1/8 A	14.0	12.3	8	5	8	400	400
VST1/4ED	G 1/4 A	19.0	17.3	12	6	20	400	400
VST3/8ED	G 3/8 A	22.0	17.3	12	8	25	400	400
VST1/2ED	G 1/2 A	27.0	19.3	14	10	51	400	400
VST3/4ED	G 3/4 A	32.0	21.3	16	12	79	400	400
VST1ED	G 1 A	40.0	22.8	16	17	130	400	400
VST11/4ED	G 1 1/4 A	50.0	22.8	16	22	198	315	315
VST11/2ED	G 1 1/2 A	55.0	22.8	16	24	263	315	315

Plug VST-M-ED

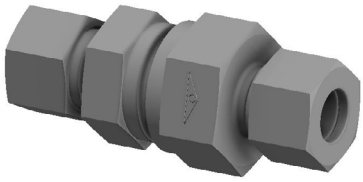


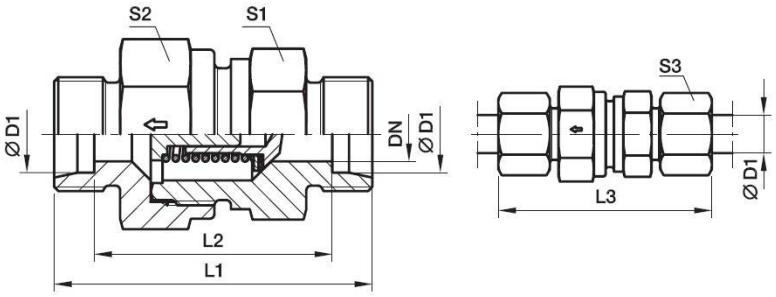


X1) Eolastic-sealing ED

Order code	Male metric parallel thread T1	D1	L1	L2	S1	Weight (g) Complete	PN (bar)	
							Z	SS
VST10x1ED	M10x1.0	14.0	12.3	8	5	8	400	400
VST12x1.5ED	M12x1.5	17.0	17.3	12	6	14	400	400
VST14x1.5ED	M14x1.5	19.0	17.3	12	6	20	400	400
VST16x1.5ED	M16x1.5	22.0	17.3	12	8	25	400	400
VST18x1.5ED	M18x1.5	24.0	17.3	12	8	32	400	400
VST20x1.5ED	M20x1.5	26.0	19.3	14	10	42	400	400
VST22x1.5ED	M22x1.5	27.0	19.3	14	10	51	400	400
VST26x1.5ED	M26x1.5	32.0	21.3	16	12	78	400	400
VST27x2ED	M27x2.0	32.0	21.3	16	12	79	400	400
VST33x2ED	M33x2.0	40.0	22.8	16	17	130	400	400
VST42x2ED	M42x2.0	50.0	22.8	16	22	198	315	315
VST48x2ED	M48x2.0	55.0	22.8	16	24	263	315	315

Check Valve CHD

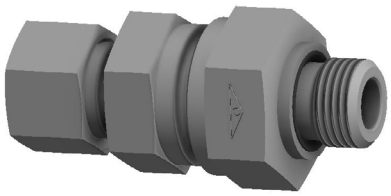


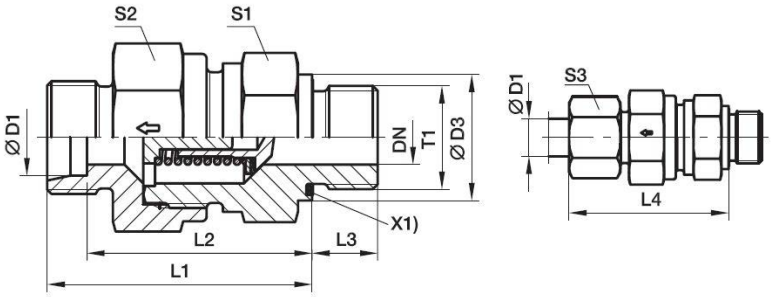


Series	Order code	D1	DN	L1	L2	L3	S1	S2	S3	Weight (g) Complete	PN (bar)	
											Z	SS
L	CHD-6L	06	3.5	43	29.0	58.0	17	17	14	46	400	250
	CHD-8L	08	5.5	44	30.0	59.0	19	19	17	61	400	250
	CHD-10L	10	7.5	54.5	40.5	69.5	22	24	19	104	400	250
	CHD-12L	12	9.5	57.5	43.5	72.5	27	30	22	166	400	250
	CHD-15L	15	11.5	61.5	47.5	77.5	27	32	27	192	400	250
	CHD-18L	18	14.0	66.5	51.5	83.5	36	36	32	292	400	160
	CHD-22L	22	18.0	76.5	61.5	93.5	41	46	36	472	250	160
	CHD-28L	28	23.0	84.5	69.5	102.5	50	55	41	746	250	100
S	CHD-6S	06	3.5	48.5	34.5	63.5	19	19	17	70	420	400
	CHD-8S	08	3.5	48.5	34.5	63.5	19	19	19	74	420	400
	CHD-10S	10	5.5	55.5	40.5	72.5	22	24	22	121	420	400
	CHD-12S	12	7.5	57.5	42.5	74.5	24	27	24	148	420	400
	CHD-14S	14	9.5	63.5	47.5	82.5	27	32	27	218	420	315
	CHD-16S	16	11.5	67.5	50.5	86.5	32	36	30	286	420	315
	CHD-20S	20	15.0	75.5	54.5	97.5	41	46	36	506	420	250
	CHD-25S	25	19.0	82.5	58.5	106.5	46	50	46	639	420	250

Standard 1 bar (on request also 0.2, 0.5, 2, 3, 4, 5 and 6 bar are available; please specify on order).
For working pressure see appropriate tables. Cracking pressure tolerance: ± 20 %

CHECK VALVE CHV-R- ED

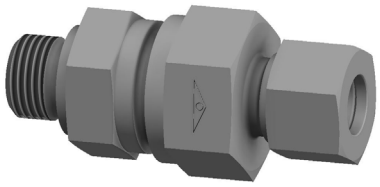


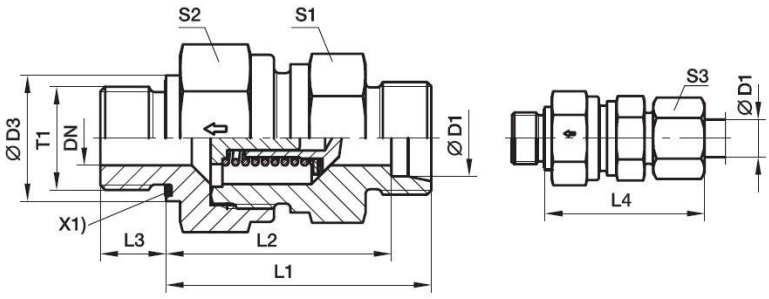


Series	Order code	D1	T1	DN	D3	L1	L2	L3	L4	S1	S2	S3	Weight (g) Complete	PN (bar)	
														Z	SS
L	CHV-6LR 1/8 ED	06	1/8	3.5	14	35	28.0	8	42.5	17	17	14	47	400	250
	CHV-8LR 1/4 ED	08	1/4	5.5	19	38	30.0	12	44.5	19	19	17	62	400	250
	CHV-10LR 1/4 ED	10	1/4	7.5	19	45.5	38.5	12	53.0	22	24	19	105	400	250
	CHV 12LR 3/8 ED	12	3/8	9.5	22	49.5	42.5	12	57.0	27	30	22	175	400	250
	CHV-15LR 1/2 ED	15	1/2	11.5	27	52.5	45.5	14	60.5	27	32	27	205	400	250
	CHV-18LR 1/2 ED	18	1/2	14.0	27	57.5	50.0	14	66.0	36	36	32	294	400	160
	CHV-22LR 3/4 ED	22	3/4	18.0	32	62.5	55.0	16	71.0	41	46	36	450	250	160
	CHV-28LR 1 ED	28	1	23.0	40	70.5	63.0	18	79.5	50	55	41	720	250	100
S	CHV-6SR 1/4 ED	06	1/4	3.5	19	38.5	31.5	12	46.0	19	19	17	73	420	400
	CHV-8SR 1/4 ED	08	1/4	3.5	19	38.5	31.5	12	46.0	19	19	19	79	420	400
	CHV-10SR 3/8 ED	10	3/8	5.5	22	45.5	38.5	12	54.0	22	24	22	132	420	400
	CHV-12SR 3/8 ED	12	3/8	7.5	22	48.5	41.0	12	57.0	24	27	24	153	420	400
	CHV-14SR 1/2 ED	14	1/2	9.5	27	52.5	44.5	14	62.0	27	32	27	230	420	315
	CHV-16SR 1/2 ED	16	1/2	11.5	27	56.5	48.0	14	66.0	32	36	30	293	420	315
	CHV-20SR 3/4 ED	20	3/4	15.0	32	62.5	52.0	16	73.5	41	46	36	511	420	250
	CHV-25SR 1 ED	25	1	19.0	40	66.5	54.5	18	78.5	46	50	46	648	420	250

Standard 1 bar (on request also 0.2, 0.5, 2, 3, 4, 5 and 6 bar are available; please specify on order).
For working pressure see appropriate tables. Cracking pressure tolerance: ± 20 %

CHECK VALVE CHZ-R-ED

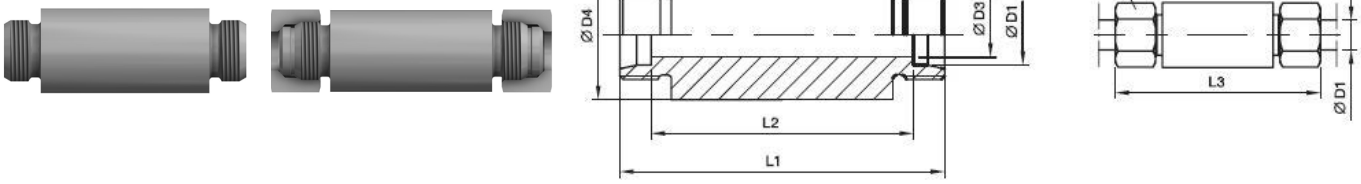




Series	Order code	D1	T1	DN	D3	L1	L2	L3	L4	S1	S2	S3	Weight (g) Complete	PN (bar)	
														Z	SS
L	CHZ-6LR 1/8 ED	06	1/8	3.5	14	33.5	26.5	8	4.1	17	17	14	44	400	250
	CHZ-8LR 1/4 ED	08	1/4	5.5	19	35.5	28.5	12	43.0	19	19	17	59	400	250
	CHZ-10LR 1/4 ED	10	1/4	7.5	19	45.5	38.5	12	53.0	22	24	19	125	400	250
	CHZ-12LR 3/8 ED	12	3/8	9.5	22	17.5	40.5	12	55.0	27	30	22	161	400	250
	CHZ-15LR 1/2 ED	15	1/2	11.5	27	49.5	42.5	14	57.5	27	32	27	186	400	250
	CHZ-18LR 1/2 ED	18	1/2	14.0	27	55.5	48.0	14	64.0	36	36	32	275	400	160
	CHZ-22LR 3/4 ED	22	3/4	18.0	32	63.5	56.0	16	72.0	41	46	36	463	250	160
	CHZ-28LR 1 ED	28	1	23.0	40	71.5	64.0	18	80.5	50	55	41	721	250	100
S	CHZ-6SR 1/4 ED	06	1/4	3.5	17	38.5	31.5	12	46.0	19	19	17	70	420	400
	CHZ-8SR 1/4 ED	08	1/4	3.5	19	38.5	31.5	12	46.0	19	19	19	75	420	400
	CHZ-10SR 3/8 ED	10	3/8	5.5	22	45.5	38.0	12	54.0	22	24	22	123	420	400
	CHZ-12SR 3/8 ED	12	3/8	7.5	24	48.5	41.0	12	57.0	24	27	24	157	420	400
	CHZ-14SR 1/2 ED	14	1/2	9.5	26	51.5	43.5	14	61.0	27	32	27	214	420	315
	CHZ-16SR 1/2 ED	16	1/2	11.5	27	54.5	46.0	14	64.0	32	36	30	279	420	315
	CHZ-20SR 3/4 ED	20	3/4	15.0	32	60.5	50.0	16	71.5	41	46	36	487	420	250
	CHZ-25SR 1 ED	25	1	19.0	40	66.5	54.5	18	78.5	46	50	46	647	420	250

Standard 1 bar (on request also 0.2, 0.5, 2, 3, 4, 5 and 6 bar are available; please specify on order).
For working pressure see appropriate tables. Cracking pressure tolerance: ± 20 %

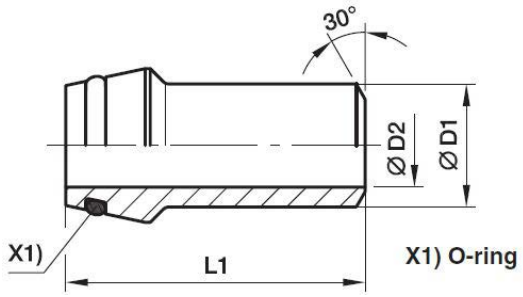
Welding bulkhead B3

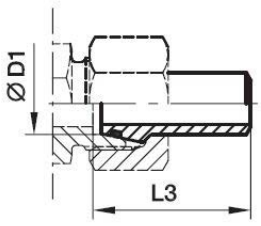


Series	Order code	D1	D3	D4	L1	L2	L3	S1	Weight (g) Complete	PN (bar)	
										Z	SS
L	B3-6L	06	4	18	70	56	85	14	103	500	315
	B3-8L	08	6	20	70	56	85	17	121	500	315
	B3-10L	10	8	22	72	58	87	19	140	500	315
	B3-12L	12	10	25	72	58	87	22	176	400	315
	B3-15L	15	12	28	84	70	100	27	262	400	315
	B3-18L	18	15	32	84	69	101	32	333	400	315
	B3-22L	22	19	36	88	73	105	36	394	250	160
	B3-28L	28	24	40	88	73	106	41	448	250	160
	B3-35L	35	30	50	92	71	114	50	713	250	160
	B3-42L	42	36	60	92	70	115	60	997	250	160
S	B3-6S	06	4	20	74	60	89	17	135	800	630
	B3-8S	08	5	22	74	60	89	19	163	800	630
	B3-10S	10	7	225	74	59	91	22	201	800	630
	B3-12S	12	8	28	74	59	91	24	149	630	630
	B3-14S	14	10	30	88	72	107	27	337	630	630
	B3-16S	16	12	35	88	71	107	30	441	30	400
	B3-20S	20	16	38	92	71	114	36	509	420	400
	B3-25S	25	20	45	96	72	120	46	720	420	400
	B3-30S	30	25	50	100	73	126	50	873	420	400
	B3-38S	38	32	60	104	72	133	60	1248	420	315

Weld nipple WR



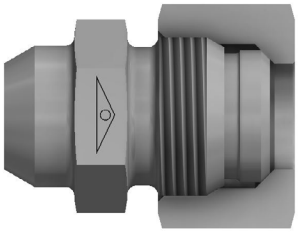


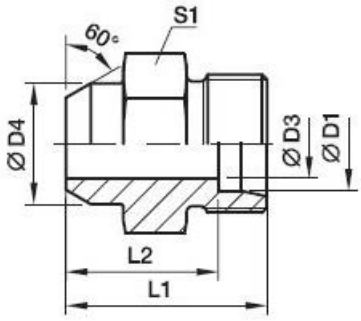


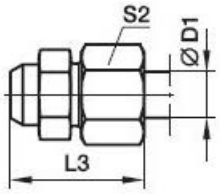
Series	Order code	D1	D2	L1	L3	Recommended tube	Weight (g) Complete	PN (bar)	
								Z	SS
LS	WR-6x1.5	06	3.0	31.0	31.5	06x1.5	7	528	539
	WR-8x2	08	4.0	31.0	31.5	08x2.0	11	528	539
	WR-10x2	10	6.0	32.5	33.5	10x2.0	16	460	447
	WR-12x2,5	12	7.0	32.5	33.5	12x2.5	22	476	463
L	WR-15x2,5	15	10.0	34.0	34.5	15x2.5	31	315	315
	WR-18x2,5	18	13.0	35.5	36.5	18x2.5	40	315	315
	WR-22x2,5	22	17.0	38.5	39.5	22x2.5	57	160	160
	WR-28x3	28	22.0	41.5	42.5	28x3.0	89	160	160
	WR-35x4	35	27.0	47.5	49.5	35x4.0	150	160	160
	WR-42x4	42	34.0	47.5	50.0	42x4.0	190	160	160
S	WR-14x3	14	8.0	83.5	89.5	14x3.0	33	487	474
	WR-16x3	16	10.0	39.0	40.5	16x3.0	41	400	400
	WR-20x4	20	12.0	45.0	47.0	20x4.0	78	400	400
	WR-25x4	25	17.0	49.5	53.0	25x4.0	111	379	369
	WR-30x5	30	20.0	52.0	57.0	30x5.0	166	393	383
	WR-38x6	38	26.0	56.5	64.0	38x6.0	270	315	315

Weld connector WS



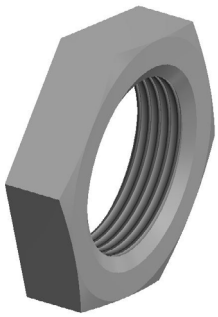


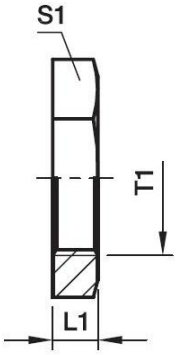




Series	Order code	D1	D3	D4	L1	L2	L3	S1	S2	Weight (g) Complete	PN (bar)	
											Z	SS
L	WS-06L	06	4	10	21	14.0	29	12	14	11	315	315
	WS-08L	08	6	12	23	16.0	31	14	17	15	315	315
	WS-10L	10	8	14	25	18.0	33	17	19	22	315	315
	WS-12L	12	10	16	25	18.0	33	19	22	25	315	315
	WS-15L	15	12	19	29	22.0	37	22	27	44	315	315
	WS-18L	18	15	22	31	23.5	40	27	32	67	315	315
	WS-22L	22	19	27	36	28.5	45	32	36	98	160	160
	WS-28L	28	24	32	37	30.5	47	41	41	165	160	160
	WS-35L	35	30	40	43	32.5	54	46	50	232	160	160
	WS-42L	42	36	46	46	35.0	58	55	60	342	160	160
S	WS-06S	06	4	11	26	19.0	34	14	17	21	630	630
	WS-08S	08	5	13	28	21.0	36	17	19	31	630	630
	WS-10S	10	7	15	30	22.5	39	19	22	41	630	630
	WS-12S	12	8	17	32	24.5	41	22	24	93	630	630
	WS-14S	14	10	19	35	27.0	45	24	27	55	630	630
	WS-16S	16	12	21	35	26.5	45	27	30	82	400	400
	WS-20S	20	16	26	40	29.5	51	32	36	131	400	400
	WS-25S	25	20	31	44	32.0	56	41	46	219	400	400
	WS-30S	30	25	36	49	35.5	62	46	50	297	400	400
	WS-38S	38	32	44	54	38.0	69	55	60	448	315	315

Nut Bulkhead B5

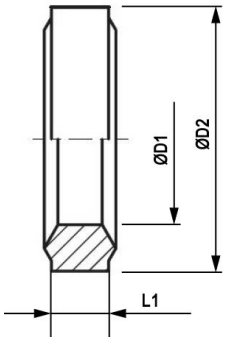




Series	Order code	Tube O.D	T1	L1	S1	Weight (g) Complete
L	B5-6L	06	M 12x1.5	6	17	7
	B5-6S/8L	06	M 14x1.5	6	19	8
	B5-10L/8S	10	M 16x1.5	6	22	11
	B5-12L/10S	12	M 18x1.5	6	24	12
	B5-15L/14S	15	M 22x1.5	7	30	23
	B5-18L	18	M 26x1.5	8	36	37
	B5-22L/20S	22	M 30x2	8	41	46
	B5-28L/25S	28	M 36x2	9	46	58
	B5-35L	35	M 45x2	9	55	71
	B5-42L/38S	42	M 52x2	10	65	123
S	B5-12S	12	M 20x1.5	6	27	15
	B5-16S	16	M 24x1.5	7	32	24
	B5-30S	30	M 42x2	10	50	58

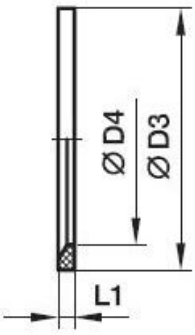
Sealing ring for pressure gauge connectors MV





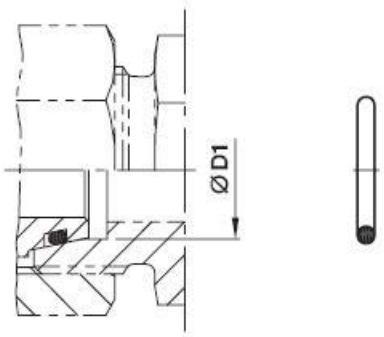
Order code	Female thread	D1	D2	L1	Weight (g) Complete
MV-L 1/4	1/4	6	11.3	4.5	2.5
MV-S1/2	1/2	12	18.5	5.0	5.0

Component ED



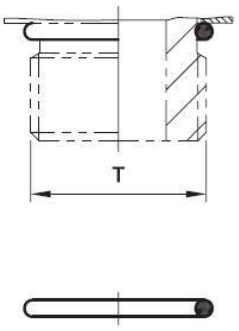
Series	Order code	D1	D3	D4	L1	Weight (g) Complete
L	ED08x1.0		9.9	6.5	1.0	0.1
	ED10x1.0	G 1/8 A	11.9	8.4	1.0	0.1
	ED12x1.5		14.4	9.8	1.5	0.2
	ED14x1.5	G 1/4 A	16.5	11.6	1.5	0.2
	ED16x1.5		18.9	13.8	1.5	0.1
		G 3/8 A	18.9	14.7	1.5	0.2
	ED18x1.5		20.9	15.7	1.5	0.1
	ED20x1.5		22.9	17.8	1.5	0.2
		G 1/2 A	23.9	18.5	1.5	0.3
	ED22x1.5		24.3	19.6	1.5	0.2
S	ED26x1.5	G 3/4 A	29.2	23.9	1.5	0.4
	ED27x2.0	G 3/4 A	29.2	23.9	1.5	0.4
	ED33x2.0	G 1 A	35.7	29.7	2.0	0.7
	ED42x2.0	G 1 1/4 A	45.8	38.8	2.0	0.9
	ED48x2.0	G 1 1/2 A	50.7	44.7	2.0	1.0

Component OR



Series	Order code	D1
L	OR4.5x1.5	6
	OR6.5x1.5	8
	OR8.5x1.5	10
	OR10.5x1.5	12
	OR12.5x2	15
	OR16x2	18
	OR20x2	22
	OR26x2	28
	OR32x2.5	35
	OR39x2.5	42
S	OR4.5x1.5	6
	OR6.5x1.5	8
	OR8.5x1.5	10
	OR10.5x1.5	12
	OR12x2	14
	OR14x2	16
	OR17x2.5	20
	OR22x2.5	25
	OR27x2.5	30
	OR35x2.5	38

O-ring UNF



Thread T	Order code
7/16-20UNF	OR8.92x1.83
9/16-18UNF	OR11.89x1.98
3/4-16UNF	OR16.36x2.21
7/8-14UNF	OR19.18x2.46
1 1/16-12UNF	OR23.47x2.95
1 5/16-12UNF	OR29.74x2.95
1 5/8-12UNF	OR37.46x3
1 7/8-12UNF	OR43.69x3

24° TUBE FITTINGS

DIN2353 & ISO 8434-1



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