

HYDRAULIC FITTINGS

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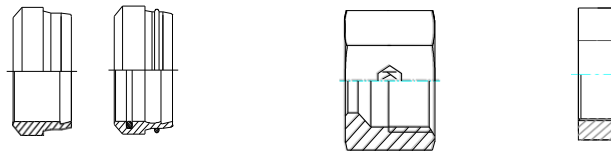
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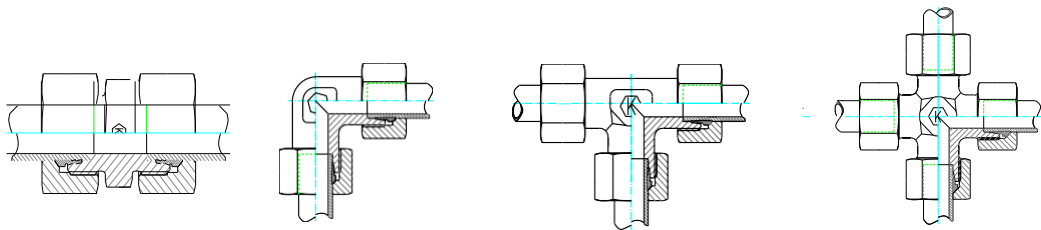
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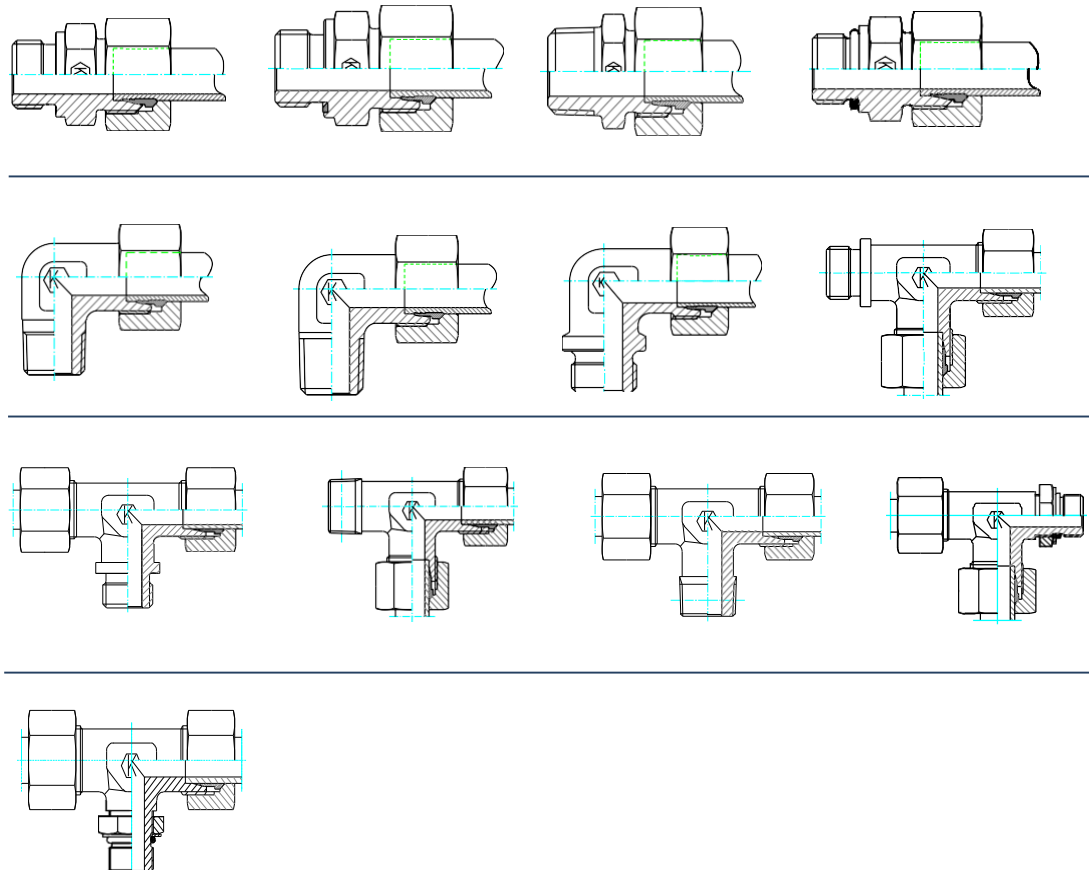
Assembling Parts



Tube to Tube Couplings



Male Stud Couplings

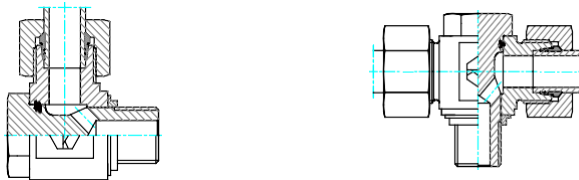


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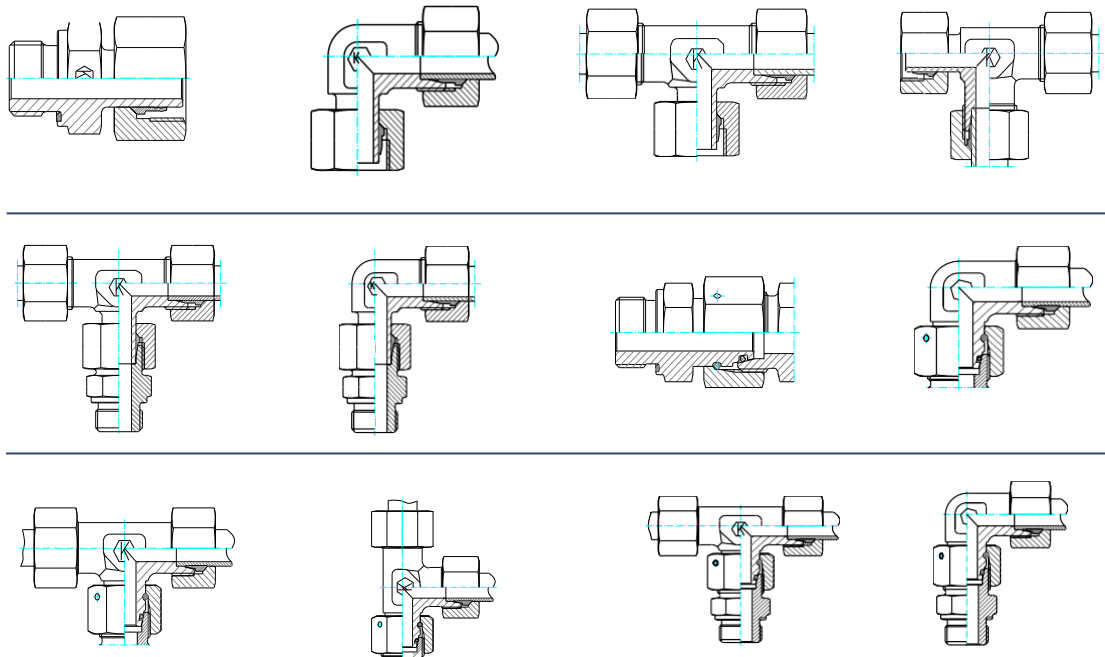
Bulkhead Couplings



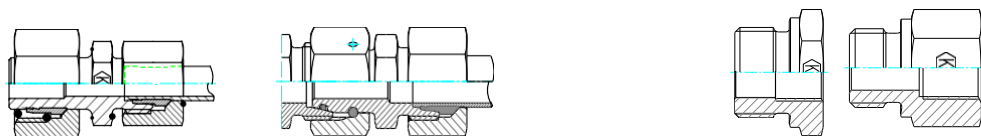
Banjo Fittings



Standpipe Couplings

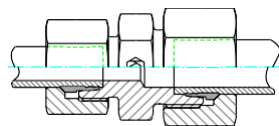
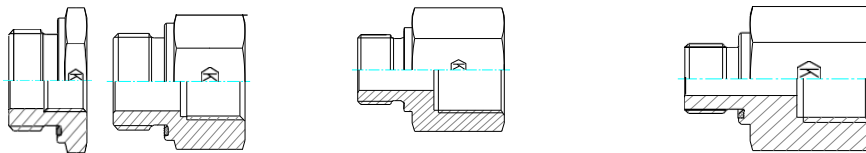


Reducers

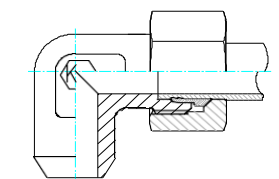
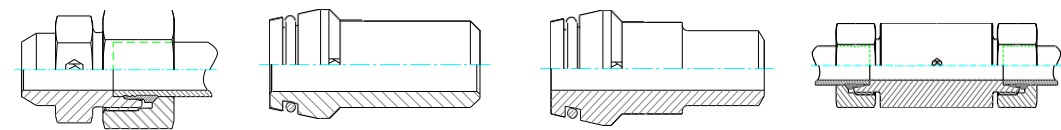


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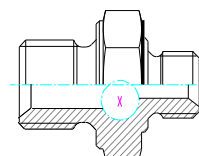
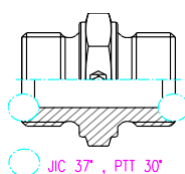
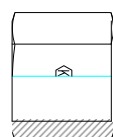
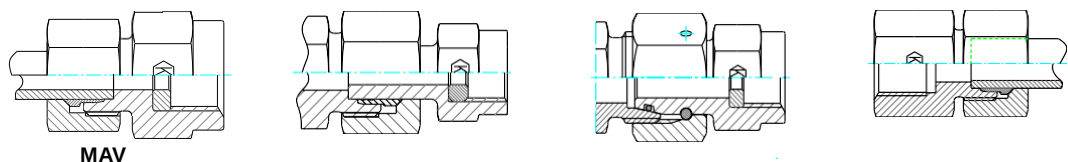
Reducers



Weld Couplings

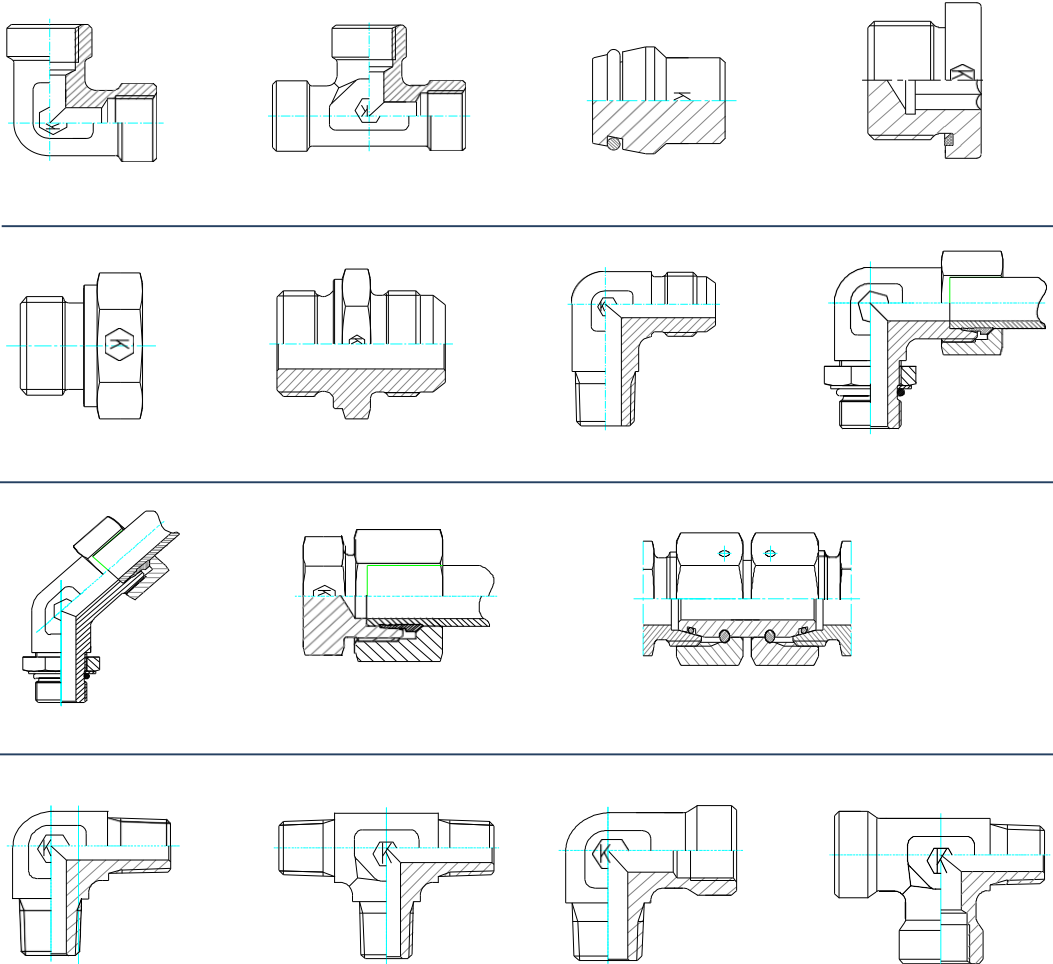


Adapter Connectors

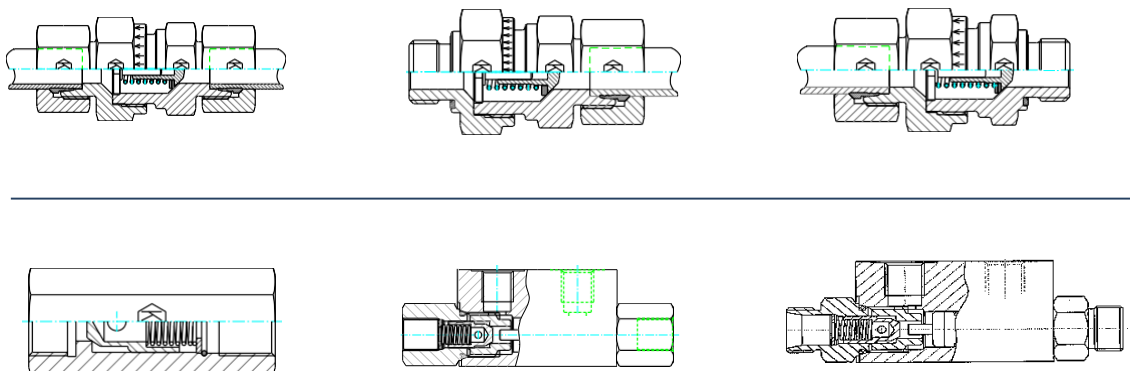


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Adapter Connectors

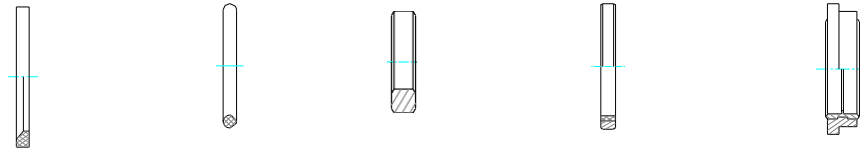


Non Return Valves

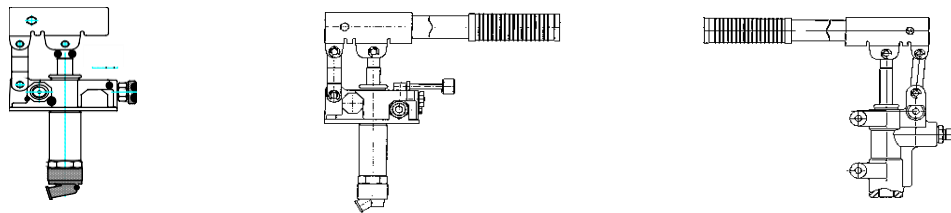


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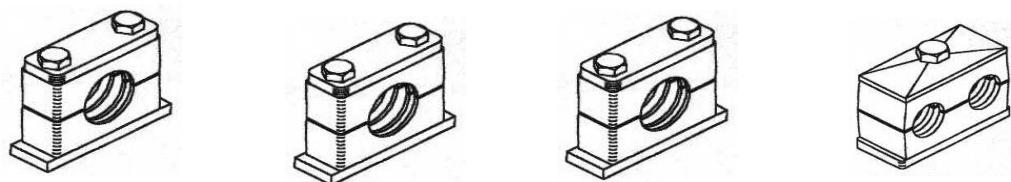
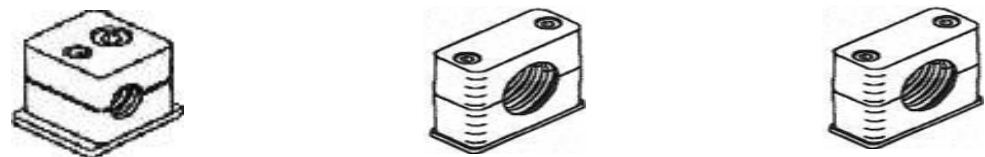
Sealing Components



Hand Pumps



Hydraulic Tube Clamps



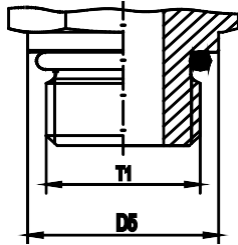
TECHNICAL INFORMATION ABOUT THREADS

Male Thread

Sealing: O-ring

Metric: DIN ISO 6149-2/3

UNF: ISO 11926-

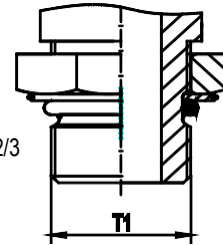


Male Thread

Sealing: O-ring

Metric: DIN ISO 6149-2/3

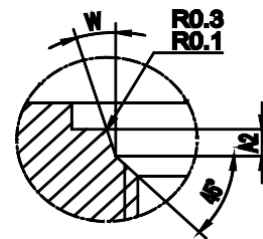
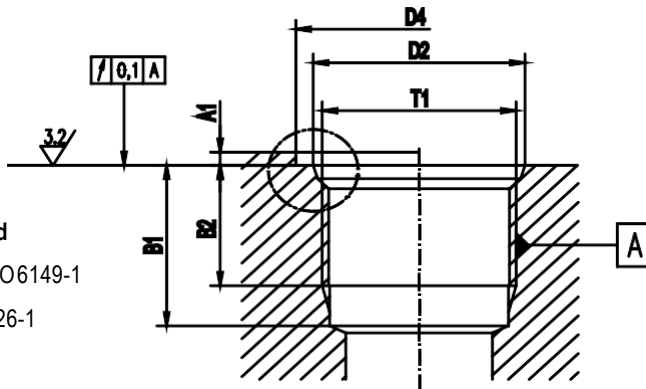
UNF: ISO 11926-



Female Thread

Metric: DIN ISO 6149-1

UNF: ISO 11926-1



Thread T1	D5 mm	D4		D2 0.1	A1 max	A2 0.4	B1 min	B2 min	W	Internal Thread	
		Narrow	Wide							Thread Top	Thread Bottom
M 8x1	11.8	14	17	9.10	1.0	1.6	11.5	10.0	12°	8.00	6.92
M 10x1	13.8	16	20	11.10	1.0	1.6	11.5	10.0	12°	10.00	8.92
M 12x1.5	16.8	19	23	13.80	1.5	2.4	14.0	11.5	15°	12.00	10.38
M 14x1.5	18.8	21	25	15.80	1.5	2.4	14.0	11.5	15°	14.00	12.38
M 16x1.5	21.8	24	28	17.80	1.5	2.4	15.5	13.0	15°	16.00	14.38
M 18x1.5	23.8	26	30	19.80	2.0	2.4	17.0	14.5	15°	18.00	16.38
M 22x1.5	26.8	29	34	23.80	2.0	2.4	18.0	15.5	15°	22.00	20.38
M 27x2	31.8	34	40	29.40	2.0	3.1	22.0	19.0	15°	27.00	24.84
M 33x2	40.8	43	49	35.40	2.5	3.1	22.0	19.0	15°	33.00	30.84
M 42x2	49.8	52	60	44.40	2.5	3.1	22.5	19.5	15°	42.00	39.84
M 48x2	54.8	57	66	50.40	2.5	3.1	25.0	22.0	15°	48.00	45.84
7/16-20 UNF 2B	13.8	21	-	12.40	1.6	2.4	14.0	11.5	12°	11.11	9.74
1/2-20 UNF 2B	16.8	23	-	14.50	1.6	2.5	14.0	11.5	12°	12.70	11.30
9/16-18 UNF 2B	16.8	25	-	15.65	1.6	2.5	15.5	12.7	12°	14.29	12.76
3/4-16 UNF 2B	21.8	30	-	20.60	2.4	2.5	17.5	14.3	15°	19.05	17.33
7/8-14 UNF 2B	26.8	34	-	23.95	2.4	2.5	20.0	16.7	15°	22.23	20.26
1 1/16-12 UN 2B	31.8	41	-	29.15	2.4	3.3	23.0	19.0	15°	26.99	24.69
1 5/16-12 UN 2B	40.8	49	-	35.50	3.2	3.3	23.0	19.0	15°	33.34	31.04
1 5/8-12 UN 2B	49.8	58	-	43.50	3.2	3.3	23.0	19.0	15°	41.28	38.99
1 7/8-12 UN 2B	54.8	65	-	49.85	3.2	3.3	23.0	19.0	15°	47.63	45.33

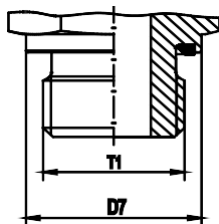
TECHNICAL INFORMATION ABOUT THREADS

Male Thread Type E

Sealing: Elastic ED

Metric: DIN EN ISO 9974-2

BSPP: ISO 1179-2

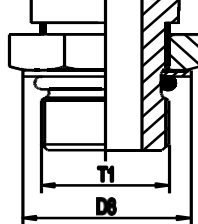


Male Thread Type H

Sealing: O-ring

Metric:-

BSPP: ISO 1179-3

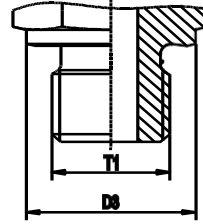


Male Thread Type B

Sealing: Metal-Metal

Metric: DIN EN ISO 9974-3

BSPP: ISO 1179-4

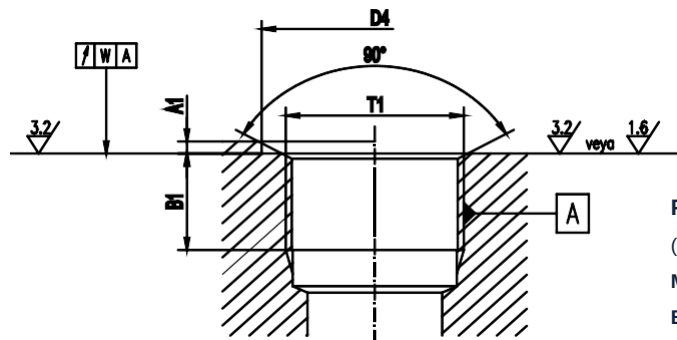
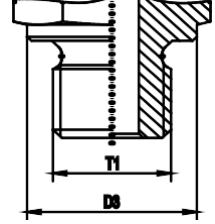


Male Thread Type A

Sealing: Copper Washer (DIN 7603)

Metric: DIN 3852-1

BSPP: DIN 3852-2



Female Thread Type X

(Parallel Thread)

Metric: DIN EN ISO 9974-1

BSPP: ISO 1179-1

Thread T1	D5 mm	D4		D2 0.1	A1 max	A2 0.4	B1 min	B2 min	W	Internal Thread	
		Narrow	Wide							Thread Top	Thread Bottom
M 8x1			12.8	13.15					0.1	8.00	6.92
M 10x1	13.9	13.9	14.8	14.75	15	20	1.0	8	0.1	10.00	8.92
M 12x1.5	16.9	16.9	17.8	17.75	18	25	1.5	12	0.1	12.00	10.38
M 14x1.5	18.9	18.9	19.8	19.75	20	25	1.5	12	0.1	14.00	12.38
M 16x1.5	20.9	21.9	22.8	21.75	23	28	1.5	12	0.1	16.00	14.38
M 18x1.5	22.9	23.9	24.8	23.75	25	30	2.0	12	0.1	18.00	16.38
M 20x1.5	24.9	25.9	26.8	25.75	27	34	2.0	14	0.1	20.00	18.38
M 22x1.5	26.9	26.9	27.8	27.75	28	34	2.5	14	0.1	22.00	20.38
M 26x1.5	30.9	31.9	32.8	31.75	33	42	2.5	16	0.2	26.00	24.38
M 27x2	31.9	31.9	32.8	32.75	33	42	2.5	16	0.2	27.00	24.84
M 33x2	38.9	39.9	40.8	39.75	41	47	2.5	18	0.2	33.00	30.84
M 42x2	48.9	49.9	50.8	49.75	51	58	2.5	20	0.2	42.00	39.84
M 48x2	54.9	54.9	55.8	54.95	56	65	2.5	22	0.2	48.00	45.84
G 1/8 A	13.8	13.9	14.8	15.0	15	19	1.0	8	0.1	9.73	8.57
G 1/4 A	17.8	18.9	19.8	19.5	20	25	1.5	12	0.1	13.16	11.45
G 3/8 A	21.8	21.9	22.8	23.5	23	28	2.0	12	0.1	16.66	14.95
G 1/2 A	25.8	26.9	27.8	28.5	28	34	2.5	14	0.1	20.96	18.63
G 3/4 A	31.8	31.9	32.8	34.5	33	42	2.5	16	0.2	26.44	24.12
G 1 A	38.8	39.9	40.8	43.5	41	47	2.5	18	0.2	33.25	30.29
G 1 1/4 A	48.8	49.9	50.8	52.5	51	58	2.5	20	0.2	41.91	38.95
G 1 1/2 A	54.8	54.9	55.8	60.0	56	65	2.5	22	02	47.80	44.85

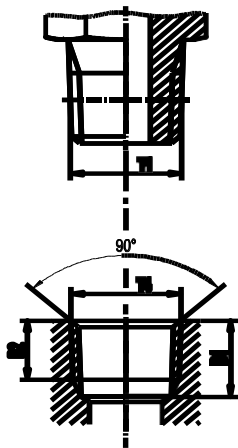
TECHNICAL INFORMATION ABOUT THREADS

Male Thread NPT/F

Sealing : Taper thread

NPT: ANSI / ASME B1.20.1

NPTF: ANSI / ASME B1.20.3



Female Thread NPT/F (taper)

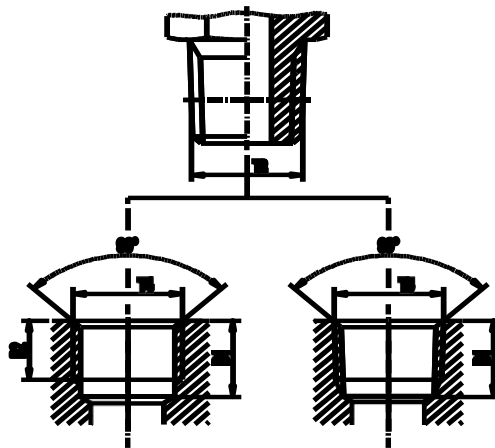
NPT: ANSI / ASME B1.20.1

NPTF: ANSI / ASME B1.20.3

Male Thread BSPT

Sealing : Taper thread

ISO 7/ BS21 / DIN2999-1



Female Thread BSPP (parallel)

ISO 7/1 -Rp

BS 21-Rp (ISO 1179-1)

Female Thread BSPT (taper)

ISO 7/1 -Rc / BS 21-Rc

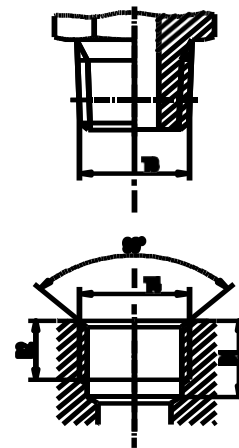
DIN 2999-Rc (Japon: PT)

Male Thread Type C

Sealing : Short Taper thread

Metric : DIN 3852-1

Inch: DIN 3852-2



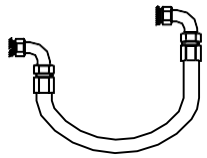
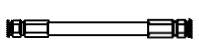
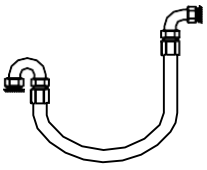
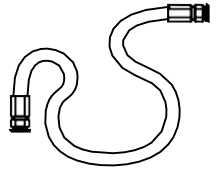
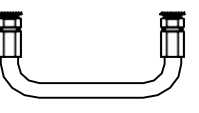
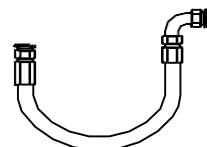
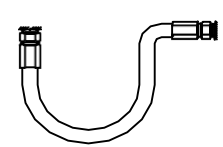
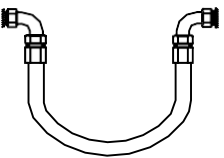
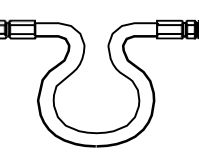
Female Thread (parallel)

Metric : DIN 3852-1

Inch : DIN 3852-2

Thread T1	Thread T2	Thread T3	Thread T4	Thread T5	B1 min.	B2 min.	B3 min.
1/8-27 NPT			1/8-27 NPT		11.6	6.9	
1/4-18 NPT			1/4-18 NPT		16.4	10.0	
3/8-18 NPT			3/8-18 NPT		17.4	10.3	
1/2-14 NPT			1/2-14 NPT		22.6	13.6	
3/4-14 NPT			3/4-14 NPT		23.1	14.1	
1-11.5 NPT			1-11.5 NPT		27.8	16.8	
1 1/4-11.5 NPT			1 1/4-11.5 NPT		28.3	17.3	
1 1/2-11.5 NPT			1 1/2-11.5 NPT		28.3	17.3	
	R 1/8		Rp 1/8	Rc 1/8	9.7	7.9	7.4
	R 1/4		Rp 1/4	Rc 1/4	12.0	11.2	11.0
	R 3/8		Rp 3/8	Rc 3/8	13.5	12.0	11.4
	R 1/2		Rp 1/2	Rc 1/2	17.6	15.0	15.0
	R 3/4		Rp 3/4	Rc 3/4	19.1	16.0	16.3
	R 1		Rp 1	Rc 1	21.4	19.1	19.0
	R 1 1/4		Rp 1 1/4	Rc 1 1/4	21.4	19.9	21.4
	R 1 1/2		Rp 1 1/2	Rc 1 1/2	22.4	20.6	21.4
		M 8x1 tap.	M 8x1		10.0	5.5	
		M 10x1 tap.	M 10x1		10.0	5.5	
		M 12x1.5 tap.	M 12x1.5		13.5	8.5	
		M 14x1.5 tap.	M 14x1.5		13.5	8.5	
		M 16x1.5 tap.	M 16x1.5		13.5	8.5	
		M 18x1.5 tap.	M 18x1.5		13.5	8.5	
		M 20x1.5 tap.	M 20x1.5		15.5	10.5	
		M 22x1.5 tap.	M 22x1.5		15.5	10.5	
		R 1/8 tap.	Rp 1/8		8.5	5.5	
		R 1/4 tap.	Rp 1/4		12.5	8.5	
		R 3/8 tap.	Rp 3/8		12.5	8.5	
		R 1/2 tap.	Rp 1/2		16.5	10.5	

HYDRAULIC HOSE & TUBES

RIGHT	WRONG	RIGHT	WRONG
			
			
			

HYDRAULIC HOSE & TUBES

Ext. Dia. Ø Mm	Toleranc eEN 10305-4 mm	Thickne ss Mm	Calculation Pressure DIN 2413		Weigh t kg / m	Ext. Dia. Ø Mm	ToleranceE N 10305-4 mm	Thickness Mm	Calculation Pressure DIN 2413		Weight kg / m
			Static I (bar)	Dinamic III (bar)					Static I (bar)	Dinamic III (bar)	
4		0,5	313	274	0,047	20		1,5	212	191	0,684
4		75	409	393	0,063	20		2	282	249	0,888
4		1	522	502	0,074	20		2,5	353	305	1,079
5		1	432	416	0,099	20		3	373	358	1,258
6		0,75	333	289	0,103	20	±0,08	3,5	426	410	1,424
6		1	389	374	0,123	20		4	478	460	1,578
6		1,5	549	528	0,166	22		1	128	118	0,518
6		2	692	665	0,197	22		1,5	192	174	0,758
6		2,25	757	728	0,208	22		2	256	228	0,986
8		1	333	289	0,173	22	±0,08	2,5	320	280	1,202
8		1,5	431	414	0,240	22		3	385	329	1,406
8		2	549	528	0,296	25		2	226	202	1,134
8		2,5	658	632	0,339	25		2,5	282	249	1,387
10		1	282	249	0,222	25		3	338	294	1,628
10		1,5	373	358	0,314	25		4	394	379	2,072
10		2	478	460	0,395	25	±0,08	4,5	437	420	2,275
10		2,5	576	553	0,462	25		5	478	460	2,466
10		3	666	641	0,518	28		1,5	151	139	0,980
12		1	235	210	0,271	28		2	201	182	1,282
12		1,5	353	305	0,388	28		2,5	252	224	1,572
12		2	409	393	0,493	28	±0,08	3	302	265	1,850
12		2,5	495	476	0,586	28		4	403	343	2,368
12		3	576	553	0,666	28		5	434	417	2,836
12		3,5	651	627	0,734	30		2	188	171	1,381
14		1	201	182	0,321	30		2,5	235	210	1,695
14		1,5	302	265	0,462	30		3	282	249	1,998
14		2	403	343	0,592	30	±0,08	4	376	323	2,565
14		2,5	434	417	0,709	30		5	409	393	3,083
14		3	507	487	0,814	35		2	161	147	1,628
14		3,5	576	553	0,906	35		2,5	201	182	2,004
14		4	641	616	0,986	35		3	242	216	2,367
15		1	188	171	0,345	35		4	322	281	3,058
15		1,5	282	249	0,499	35	±0,15	5	403	343	3,699
15		2	376	323	0,641	35		6	419	403	4,291
15		2,5	409	393	0,771	38		2,5	186	168	2,189
15		3	478	460	0,888	38		3	223	200	2,589
16		1	176	160	0,370	38		4	297	261	3,354
16		1,5	264	234	0,536	38		5	371	319	4,069
16		2	353	305	0,691	38	±0,15	6	390	375	4,735
16		2,5	386	372	0,832	38		7	446	429	5,352
16		3	452	435	0,962	42		2	134	124	1,973
18		1	157	143	0,419	42		3	201	182	2,885
18		1,5	235	210	0,610	42	±0,2	4	269	238	3,749
18		2	313	274	0,789	50		6	338	-	6,511
18		2,5	392	335	0,956	50	±0,2	9	437	-	9,100
18		3	409	393	1,110	65	±0,3	8	347	-	11,246
						80	±0,35	10	353	-	17,263

Calculation of the tube diameter

To an efficient performance in Hydraulic Systems, the diameter of the tube must be suitable.

Tube diameter calculated as;

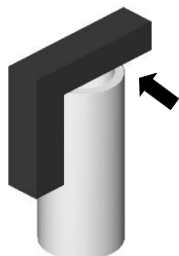
d= Internal Diameter (mm)

Q= Pump Flow (lpm)

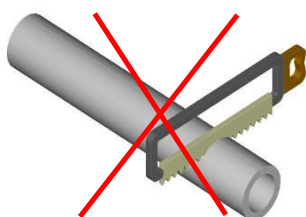
V= Flow Speed (m/s)

$$d = \sqrt{\frac{21 \cdot Q}{V}} \quad V_{\text{suction}} = 1-1,5 \frac{\text{m}}{\text{sn}} \quad V_{\text{pump}} = 4-6 \frac{\text{m}}{\text{sn}}$$

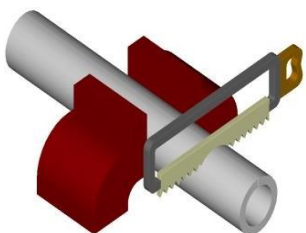
TUBE PREPARATION



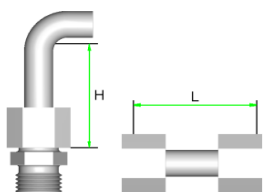
Tube has to fit properly



Tube has to cut properly. Not cut freely on hand.

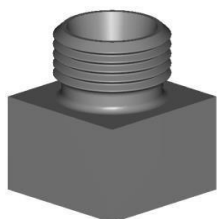


Tube has to be cleaned by air after properly cut. Do not use tubes that has deviation more than $\pm 1^\circ$



Please check the below table for minimum length of straight tube.

Pressure	NB / L										YB / S									
Tube Diameter	6	8	10	12	15	18	22	28	35	42	6	8	10	12	14	16	20	25	30	38
H min.(mm)	310	310	330	330	360	380	420	420	480	480	350	350	370	370	430	430	500	540	580	650
L min.(mm)	390	390	420	420	450	450	530	530	600	600	440	440	470	470	540	540	630	680	730	820



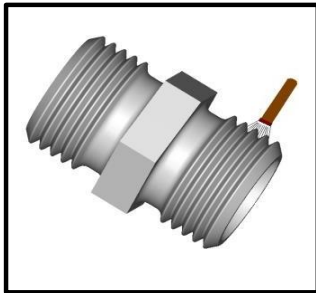
Hardened pre-assembly tool need to be used in serial assembly, stainless steel and hose connection.

Change the assembly tool if you see any distortion.

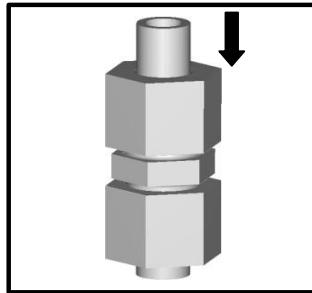
ASSEMBLY

Attention!

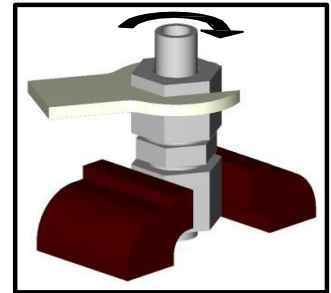
1. Pay attention to the tube dimensions and quality.
2. Use pipe clamp for the cut of the tubes.
3. Use supportive ring in thin tubes.
4. Use proper assembly tools.



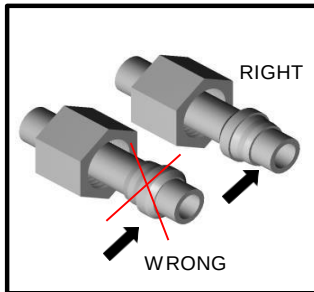
Lubricate the threads of the steel parts. Use high performance lubricator for stainless steel.



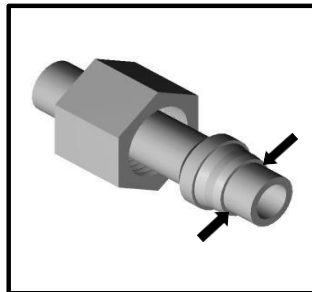
Tighten the tube properly.
Nuts must be tightened properly.



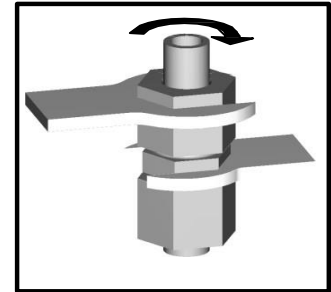
Tighten the nut (make sure nut is not turning with tube).



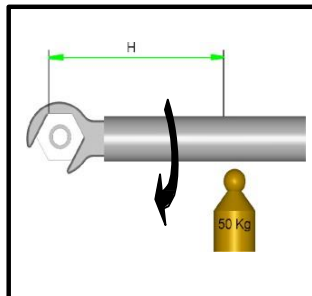
Use the cutting ring properly.



Control



Diassembly;
Make sure to loosen fittings properly with proper torque.



Diameter		Wrench (mm)
18-L	16-S	300
22-L		400
28-L	20-S	500
35-L	25-S	900
42-L	30-S	1200
	38-S	1500

TORQUE VALUES FOR METRIC AND BSPP THREADS

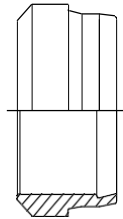
Metric
DIN ISO 6149-2/3
ISO 9974-2/3
DIN 3852 T1/T2

BSPP (G)
ISO 1179-I
DIN 3852 T2

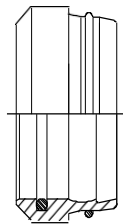
Series	Tube Ø	Thread	Male Thred Connectors					Non Return Valves	Döner Bağlantılar		Reverse Connections		Plugs
			Form A Nm +10%	Form B surface Nm +10%	Form E PLX Nm +10%	Form F O-ring Nm +10%	O-Ring & bonded seal Nm +10%	CVFR/ CVLR Form E (PLX) Nm +10%	DT Nm +10%	DD Nm +10%	O-Ring & bonded seal Nm +10%	O-Ring Nm +10%	ALKT-PLX Form E (PLX) Nm +10%
L	6	M10 x 1.0	9	18	18	15	18	18	18		18	15	12
	8	M12 x 1.5	20	30	25	25	35	25	45	18	35	25	25
	10	M14 x 1.5	35	45	45	35	45	35	55	35	45	35	35
	12	M16 x 1.5	45	65	55	40	55	50	80	50	55	40	50
	15	M18 x 1.5	55	80	70	45	70	70	100	60	70	45	65
	18	M22 x 1.5	65	140	125	60	160	125	140	80	180	60	90
	22	M26 x 1.5	90	190	180	100	250	145	320	120	180	100	135
	28	M33 x 2.0	150	340	310	160	310	210	360	130	310	160	225
	35	M42 x 2.0	240	500	450	210	450	360	540		450	210	360
	42	M48 x 2.0	290	630	540	260	540	540	700		600	260	360
S	6	M12 x 1.5	20	35	40	35		35	45	35	35	35	
	8	M14 x 1.5	35	55	40	45		45	55	50	60	45	
	10	M16 x 1.5	45	70	70	55		55	80	60	95	55	
	12	M18 x 1.5	55	110	90	70		70	100	80	120	90	
	14	M20 x 1.5	55	150	125	80		100	125	110			80
	16	M22 x 1.5	65	170	135	100		125	135	120	190	100	
	20	M27 x 2.0	90	270	180	170		135	320	135	190	170	
	25	M33 x 2.0	150	410	310	310		210	360		500	310	
	30	M42 x 2.0	240	540	450	330		360	540		600	330	
	38	M48 x 2.0	290	700	540	420		540	700		600	420	
L	6	G 1/8A	9	18	18		18	18	18	18	18		13
	8	G 1/4A	35	35	35		35	35	45	40	35		30
	10	G 1/4A	35	35	35		35	35	45	40	35		
	12	G 3/8A	45	70	70		70	50	70	65	70		60
	15	G 1/2A	65	140	90		90	85	120	90	110		80
	18	G 1/2A	65	100	90		90	65	120	90	110		
	22	G 3/4A	90	180	180		180	140	230	125	180		140
	28	G 1A	150	330	310		310	190	320		310		200
	35	G 1 1/4A	240	540	450		450	360	540		450		400
	42	G 1 1/2A	290	630	540		540	540	700		540		450
S	6	G 1/8A									25		
	6	G 1/4A	35	55	40			45	45	40	55		
	8	G 1/4A	35	55	40			45	45	40	55		
	10	G 3/8A	45	90	80			60	70	65	90		
	12	G 3/8A	45	90	80			60	70	65	90		
	14	G 1/2A	65	150	115			145	120	90	110		
	16	G 1/2A	65	130	115			100	120	90	110		
	20	G 3/4A	90	270	180			145	230	125	115		
	25	G 1A	150	340	310			260	320		420		
	30	G 1 1/4A	240	540	450			360	540		550		
	38	G 1 1/2A	290	700	540			540	700		600		

ASSEMBLING PARTS

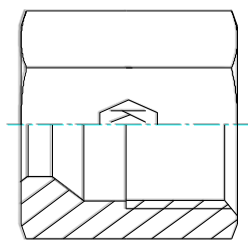
Cutting Ring



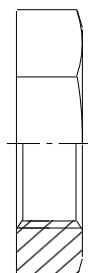
Progressive Ring



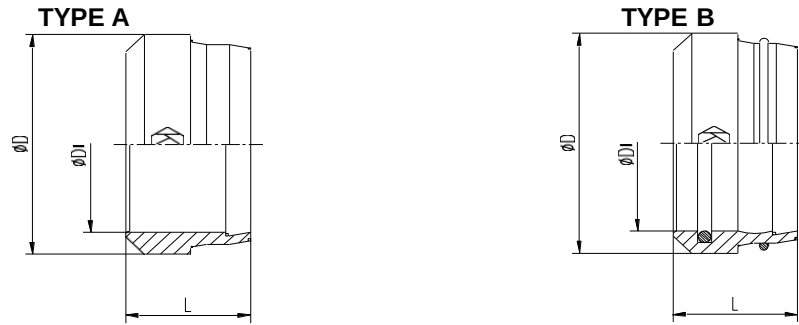
Nut



Locknut for Bulkheads



CUTTING RING / PROGRESSIVE RING



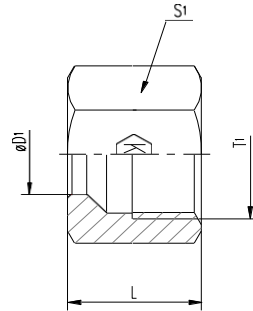
Series	Tube ØD1	D1	TYPE A			TYPE B		
			D	L	ITEM CODE	D	L	ITEM CODE
LL	6	6	8	7	T02-0001	8	7	T02-0021
	8	8	10	7	T02-0002	10	7	T02-0022
	10	10	12	7	T02-0003	12	7	T02-0023
	12	12	14	7.5	T02-0004	14	7.5	T02-0024
L/S	6	6	10	9.5	T02-0005	10	9.5	T02-0025
	8	8	12	9.5	T02-0006	12	9.5	T02-0026
	10	10	14	10	T02-0007	14	10	T02-0027
	12	12	16	10	T02-0008	16	10	T02-0028
L	15	15	19	10	T02-0009	19	10	T02-0029
	18	18	23	10	T02-0010	23	10	T02-0030
	22	22	27	11.5	T02-0011	27	11.5	T02-0031
	28	28	33	11.5	T02-0012	33	11.5	T02-0032
	35	35	41	13.5	T02-0013	41	13.5	T02-0033
	42	42	48	13.5	T02-0014	48	13.5	T02-0034
S	14	14	19	10.5	T02-0015	19	10.5	T02-0035
	16	16	21	10.55	T02-0016	21	10.55	T02-0036
	20	20	26	12.5	T02-0017	26	12.5	T02-0037
	25	25	31	12.5	T02-0018	31	12.5	T02-0038
	30	30	36	13.5	T02-0019	36	13.5	T02-0039
	38	38	44	13.5	T02-0020	44	13.5	T02-0040

LL= very light series

L= light series

S= heavy series

NUT



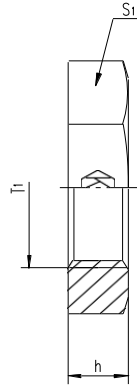
Series	Tube ØD1	T1	L	S1	Weight	ITEM CODE
LL	4	M8x1	11.0	10	4	T02-0041
	6	M10x1	11.5	12	5	T02-0042
	8	M12x1	12.0	14	7	T02-0043
	10	M14x1	12.5	17	12	T02-0044
	12	M16x1	13.0	19	14	T02-0045
L	6	M12x1,5	14.5	14	10	T02-0046
	8	M14x1,5	14.5	17	14	T02-0047
	10	M16x1,5	15.5	19	18	T02-0048
	12	M18x1,5	15.5	22	26	T02-0049
	15	M22x1,5	17.0	27	42	T02-0050
	18	M26x1,5	18.0	32	62	T02-0051
	22	M30x2	20.0	36	82	T02-0052
	28	M36x2	21.0	41	95	T02-0053
	35	M45x2	24.0	50	133	T02-0054
S	42	M52x2	24.0	60	228	T02-0055
	6	M14x1,5	16.5	17	18	T02-0056
	8	M16x1,5	16.5	19	21	T02-0057
	10	M18x1,5	17.5	22	30	T02-0058
	12	M20x1,5	17.5	24	33	T02-0059
	14	M22x1,5	20.5	27	53	T02-0060
	16	M24x1,5	20.5	30	63	T02-0061
	20	M30x2	24.0	36	106	T02-0062
	25	M36x2	27.0	46	205	T02-0063
	30	M42x2	29.0	50	230	T02-0064
	38	M52x2	32.5	60	343	T02-0065

LL= very light series

L= light series

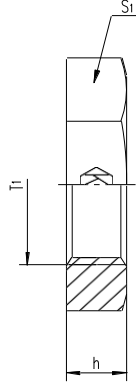
S= heavy series

LOCKNUT FOR BULK HEADS METRIC



T1	h	S1	Weight g/1 piece	ITEM CODE
M12x1,5	6	17	7	T02-0066
M14x1,5	6	19	8	T02-0067
M16x1,5	6	22	11	T02-0068
M18x1,5	6	24	12	T02-0069
M22x1,5	7	30	23	T02-0070
M26x1,5	8	36	37	T02-0071
M30x2	8	41	46	T02-0072
M36x2	9	46	58	T02-0073
M45x2	9	55	71	T02-0074
M52x2	10	65	123	T02-0075

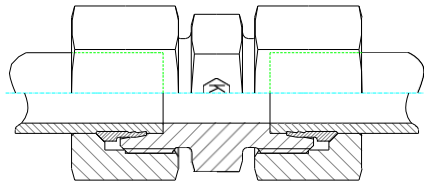
LOCKNUT FOR BULK HEADS BSP



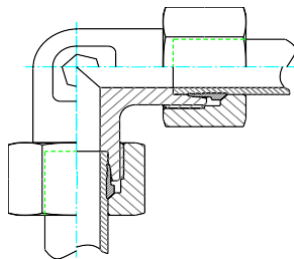
T1	h	S1	Weight g/1 piece	ITEM CODE
G 1/8	6	19	-	T02-0076
G 1/4	6	22	14	T02-0077
G 3/8	7	27	22	T02-0078
G 1/2	8	32	35	T02-0079
G 3/4	9	36	-	T02-0080
G 1	10	46	-	T02-0081
G 1 1/4	11	55	-	T02-0082
G 1 1/2	12	60	-	T02-0083

TUBE TO TUBE COUPLINGS

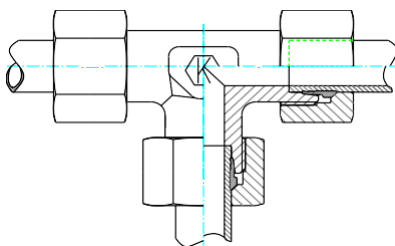
Union



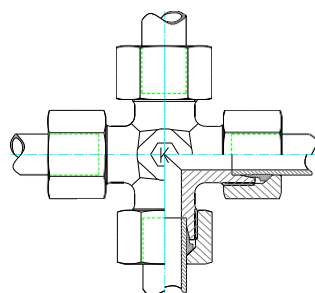
Union Elbow



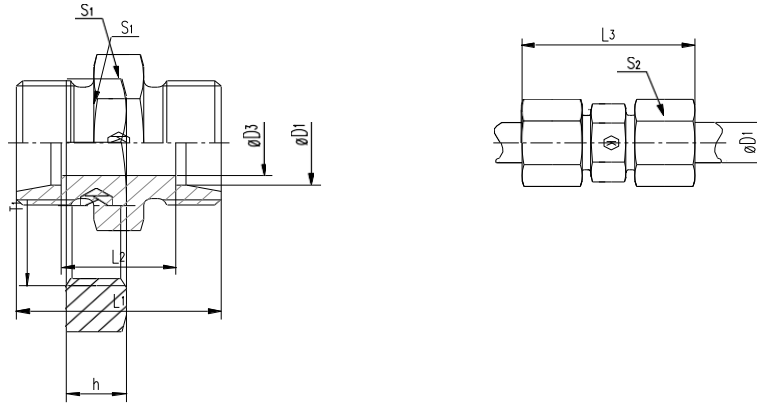
Union Tee



Union Cross



UNION



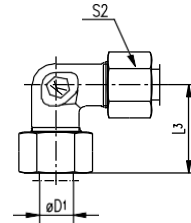
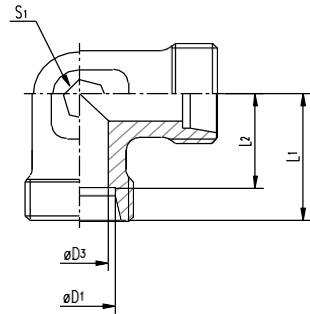
Series	Tube ØD1	D3	L1	L2	L3	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	4	3.0	20	12	31	9	10	5	T02-0084	100
	6	4.5	20	9	32	11	12	7	T02-0085	100
	8	6.0	23	12	35	12	14	10	T02-0086	100
	10	8.0	23	12	35	14	17	13	T02-0087	100
	12	10.0	23	11	35	17	19	16	T02-0088	100
L	6	4.0	24	10	39	12	14	12	T02-0089	315
	8	6.0	25	11	40	14	17	16	T02-0090	315
	10	8.0	27	13	42	17	19	23	T02-0091	315
	12	10.0	28	14	43	19	22	28	T02-0092	315
	15	12.0	30	16	46	24	27	51	T02-0093	315
	18	15.0	31	16	48	27	32	69	T02-0094	315
	22	19.0	35	20	52	32	36	90	T02-0095	160
	28	24.0	36	21	54	41	41	137	T02-0096	160
	35	30.0	41	20	63	46	50	214	T02-0097	160
	42	36.0	43	21	66	55	60	296	T02-0098	160
S	6	4.0	30	16	45	14	17	26	T02-0099	630
	8	5.0	32	18	47	17	19	37	T02-0100	630
	10	7.0	32	17	49	19	22	44	T02-0101	630
	12	8.0	34	19	51	22	24	60	T02-0102	630
	14	10.0	38	22	57	24	27	77	T02-0103	630
	16	12.0	38	21	57	27	30	90	T02-0104	400
	20	16.0	44	23	66	32	36	143	T02-0105	400
	25	20.0	50	26	74	41	46	251	T02-0106	400
	30	25.0	54	27	80	46	50	330	T02-0107	400
	38	32.0	61	29	90	55	60	545	T02-0108	315

LL= very light series

L= light series

S= heavy series

UNION ELBOW



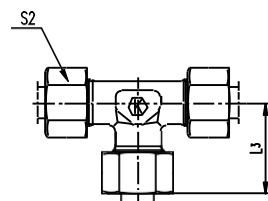
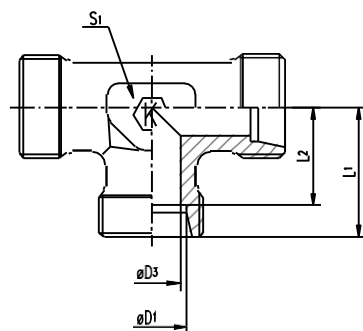
Series	Tube ØD1	D3	L1	L2	L3	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	4	3.0	15	11.0	21	9	10	13	T02-0109	100
	6	4.5	15	9.5	21	9	12	16	T02-0110	100
	8	6.0	17	11.5	23	12	14	15	T02-0111	100
	10	8.0	18	12.5	24	12	17	19	T02-0112	100
	12	10.0	19	13.0	25	14	19	22	T02-0113	100
L	6	4.0	19	12.0	27	12	14	20	T02-0114	315
	8	6.0	21	14.0	29	12	17	23	T02-0115	315
	10	8.0	22	15.0	30	14	19	30	T02-0116	315
	12	10.0	24	17.0	32	17	22	40	T02-0117	315
	15	12.0	28	21.0	36	19	27	75	T02-0118	315
	18	15.0	31	23.5	40	24	32	108	T02-0119	315
	22	19.0	35	27.5	44	27	36	140	T02-0120	160
	28	24.0	38	30.5	47	36	41	251	T02-0121	160
	35	30.0	45	34.5	56	41	50	388	T02-0122	160
	42	36.0	51	40.0	63	50	60	557	T02-0123	160
S	6	4.0	23	16.0	31	12	17	32	T02-0124	630
	8	5.0	24	17.0	32	14	19	45	T02-0125	630
	10	7.0	25	17.5	34	17	22	57	T02-0126	630
	12	8.0	29	21.5	38	17	24	89	T02-0127	630
	14	10.0	30	22.0	40	19	27	95	T02-0128	630
	16	12.0	33	24.5	43	24	30	83	T02-0129	400
	20	16.0	37	26.5	48	27	36	185	T02-0130	400
	25	20.0	42	30.0	54	36	46	352	T02-0131	400
	30	25.0	49	35.5	62	41	50	516	T02-0132	400
	38	32.0	57	41.0	72	50	60	823	T02-0133	315

LL= very light series

L= light series

S= heavy series

UNION TEE



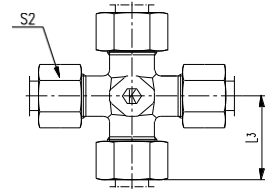
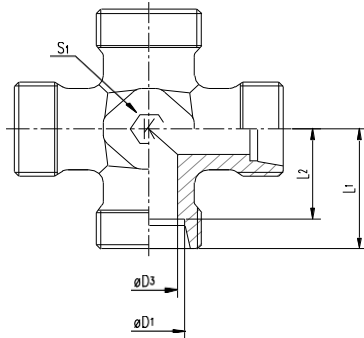
Series	Tube ØD1	D3	L1	L2	L3	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	4	3.0	15	11.0	21	9	10	14	T02-0134	100
	6	4.5	15	9.5	21	9	12	17	T02-0135	100
	8	6.0	17	11.5	23	12	14	26	T02-0136	100
	10	8.0	18	12.5	24	12	17	25	T02-0137	100
	12	10.0	21	15.0	27	14	19	32	T02-0138	100
L	6	4.0	19	12.0	27	12	14	28	T02-0139	315
	8	6.0	21	14.0	29	12	17	32	T02-0140	315
	10	8.0	22	15.0	30	14	19	42	T02-0141	315
	12	10.0	24	17.0	32	17	22	55	T02-0142	315
	15	12.0	28	21.0	36	19	27	96	T02-0143	315
	18	15.0	31	23.5	40	24	32	142	T02-0144	315
	22	19.0	35	27.5	44	27	36	187	T02-0145	160
	28	24.0	38	30.5	47	36	41	316	T02-0146	160
	35	30.0	45	34.5	56	41	50	464	T02-0147	160
	42	36.0	51	40.0	63	50	60	693	T02-0148	160
S	6	4.0	23	16.0	31	12	17	57	T02-0149	630
	8	5.0	24	17.0	32	14	19	64	T02-0150	630
	10	7.0	25	17.5	34	17	22	78	T02-0151	630
	12	8.0	29	21.5	38	17	24	108	T02-0152	630
	14	10.0	30	22.0	40	19	27	126	T02-0153	630
	16	12.0	33	24.5	43	24	30	176	T02-0154	400
	20	16.0	37	26.5	48	27	36	250	T02-0155	400
	25	20.0	42	30.0	54	36	46	456	T02-0156	400
	30	25.0	49	35.5	62	41	50	670	T02-0157	400
	38	32.0	57	41.0	72	50	60	1031	T02-0158	315

LL= very light series

L= light series

S= heavy series

UNION CROSS



Series	Tube ØD1	D3	L1	L2	L3	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	4	3.0	15	11.0	21	9	10	13	T02-0159	100
	6	4.5	15	9.5	21	9	12	14	T02-0160	100
	8	6.0	17	11.5	23	12	14	24	T02-0161	100
L	6	4.0	19	12.0	27	12	14	35	T02-0162	315
	8	6.0	21	14.0	29	12	17	40	T02-0163	315
	10	8.0	22	15.0	30	14	19	52	T02-0164	315
	12	10.0	24	17.0	32	17	22	69	T02-0165	315
	15	12.0	28	21.0	36	19	27	130	T02-0166	315
	18	15.0	31	23.5	40	24	32	188	T02-0167	315
	22	19.0	35	27.5	44	27	36	251	T02-0168	160
	28	24.0	38	30.5	47	36	41	392	T02-0169	160
	35	30.0	45	34.5	56	41	50	618	T02-0170	160
	42	36.0	51	40.0	63	50	60	905	T02-0171	160
	6	4.0	23	16.0	31	12	17	58	T02-0172	630
S	8	5.0	24	17.0	32	14	19	82	T02-0173	630
	10	7.0	25	17.5	34	17	22	97	T02-0174	630
	12	8.0	29	21.5	38	17	24	146	T02-0175	630
	14	10.0	30	22.0	40	19	27	176	T02-0176	630
	16	12.0	33	24.5	43	24	30	220	T02-0177	400
	20	16.0	37	26.5	48	27	36	339	T02-0178	400
	25	20.0	42	30.0	54	36	46	576	T02-0179	400
	30	25.0	49	35.5	62	41	50	843	T02-0180	400
	38	32.0	57	41.0	72	50	60	1350	T02-0181	315

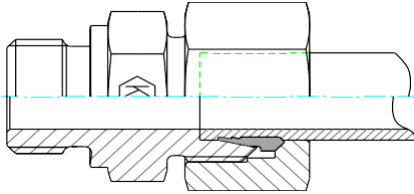
LL= very light series

L= light series

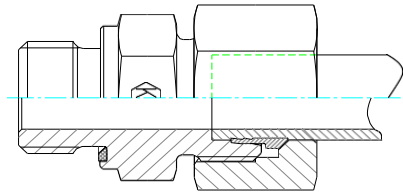
S= heavy series

MALE STUD COUPLINGS

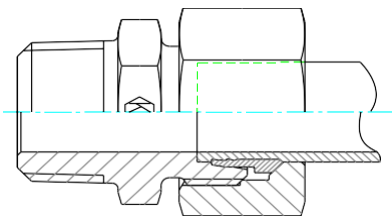
Male Stud Connector



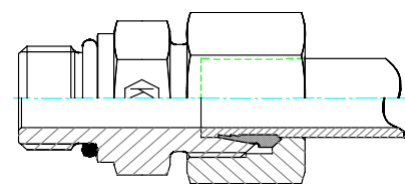
Male Stud Connector – ED Seal



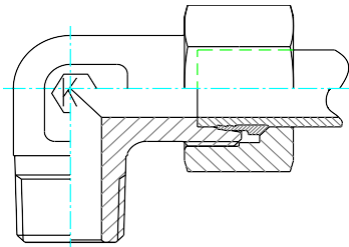
Male Stud Connector



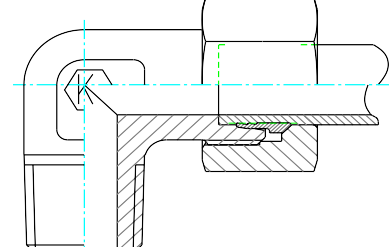
Male Stud Connector



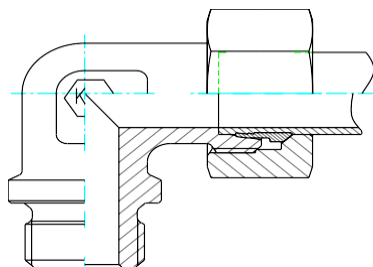
Male Stud Elbow



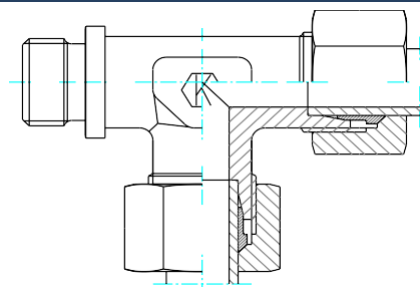
Male Stud Elbow



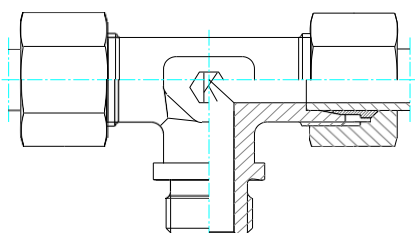
Male Stud Elbow



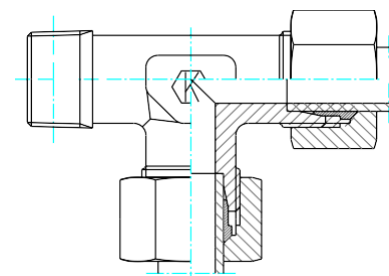
Male Stud Run Tee



Male Stud Branch Tee

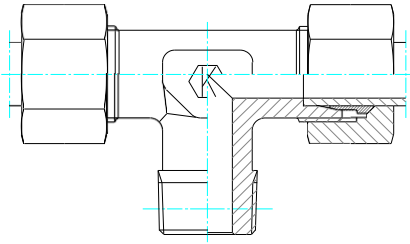


Male Stud Run Tee

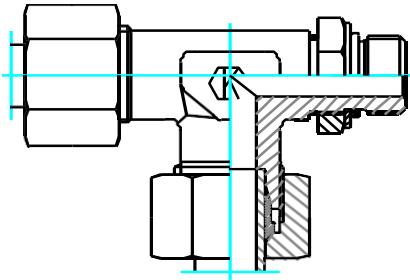


MALE STUD COUPLINGS

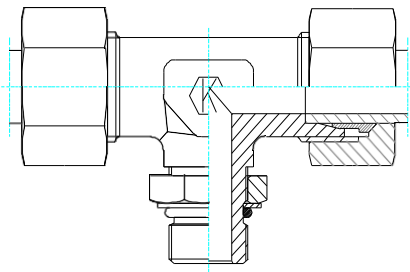
Male Stud Branch Tee



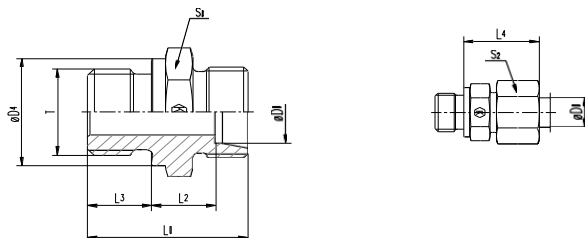
Adjustable Lock-nut Run Tee



Adjustable Lock-nut Branch



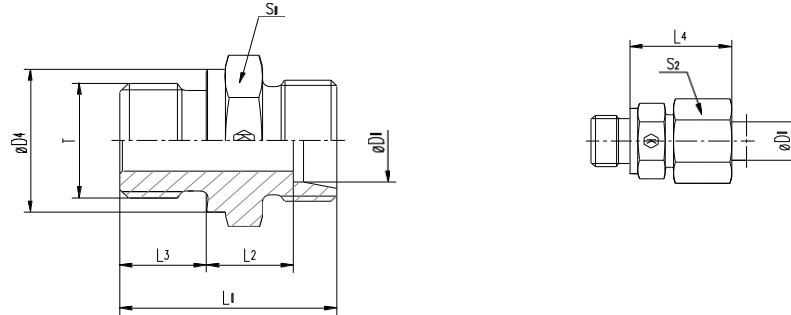
MALE STUD CONNECTOR BSP



Series	Tube ØD1	T (BSPP)	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	14	23.5	8.50	8	23.0	14	14	13	T02-0182	315
	6	G 1/4A	18	29.0	10.0	12	25.0	19	14	29	T02-0183	315
	6	G 3/8A	22	30.5	11.5	12	26.0	22	14	45	T02-0184	315
	6	G 1/2A	26	33.0	12.0	14	27.0	27	14	61	T02-0185	315
	8	G 1/4A	18	29.0	10.0	12	25.0	19	17	27	T02-0186	315
	8	G 1/8A	14	24.5	8.50	8	23.0	14	17	14	T02-0187	315
	8	G 3/8A	22	30.5	11.5	12	26.0	22	17	44	T02-0188	315
	8	G 1/2A	26	33.0	12.0	14	27.0	27	17	72	T02-0189	315
	10	G 1/4A	18	30.0	11.0	12	26.0	19	19	28	T02-0190	315
	10	G 1/8A	14	25.5	10.5	8	25.0	17	19	21	T02-0191	315
	10	G 3/8A	22	31.5	12.5	12	27.0	22	19	45	T02-0192	315
	10	G 1/2A	26	34.0	13.0	14	28.0	27	19	74	T02-0193	315
	12	G 3/8A	22	31.5	12.5	12	27.0	22	22	42	T02-0194	315
	12	G 1/8A	14	26.5	11.5	8	26.0	19	22	62	T02-0195	315
	12	G 1/4A	18	31.0	12.0	12	27.0	19	22	32	T02-0196	315
	12	G 1/2A	26	34.0	13.0	14	28.0	27	22	67	T02-0197	315
	12	G 3/4A	32	37.0	14.0	16	29.0	32	22	118	T02-0198	315
	15	G 1/2A	26	35.0	14.0	14	29.0	27	27	71	T02-0199	250
	15	G 3/8A	22	32.5	13.5	12	29.0	24	27	54	T02-0200	250
	15	G 3/4A	32	38.0	15.0	16	30.0	32	27	121	T02-0201	250
	18	G 1/2A	26	36.0	14.5	14	31.0	27	32	70	T02-0202	250
	18	G 3/8A	22	33.5	14.0	12	29.5	27	32	67	T02-0203	250
	18	G 3/4A	32	38.0	14.5	16	30.0	32	32	115	T02-0204	250
	22	G 3/4A	32	40.0	16.5	16	33.0	32	36	103	T02-0205	160
	22	G 1/2A	26	38.0	16.5	14	33.0	32	36	94	T02-0206	160
	22	G 1A	39	43.0	17.5	18	33.5	41	36	196	T02-0207	160
	28	G 1A	39	43.0	17.5	18	34.0	41	41	163	T02-0208	160
	28	G 1/2A	26	39.0	17.5	14	34.0	41	41	141	T02-0209	160
	28	G 3/4A	32	41.0	17.5	16	34.0	41	41	152	T02-0210	160
	28	G 1 1/4A	50	46.0	18.3	20	35.0	50	41	314	T02-0211	160
	35	G 1 1/4A	49	48.0	17.5	20	39.0	50	50	273	T02-0212	160
	35	G 1/2A	26	42.0	17.5	14	39.0	46	50	194	T02-0213	160
	35	G 3/4A	32	44.0	17.5	16	39.0	46	50	202	T02-0214	160
	35	G 1A	39	46.0	17.5	18	39.0	46	50	231	T02-0215	160
	35	G 1 1/2A	55	52.0	19.5	22	41.0	55	50	424	T02-0216	160
	42	G 1 1/2A	55	52.0	19.0	22	42.0	55	60	351	T02-0217	160
	42	G 1A	39	48.0	19.0	18	42.0	55	60	240	T02-0218	160
	42	G 1 1/4A	49	50.0	19.0	20	42.0	55	60	383	T02-0219	160

L= light series

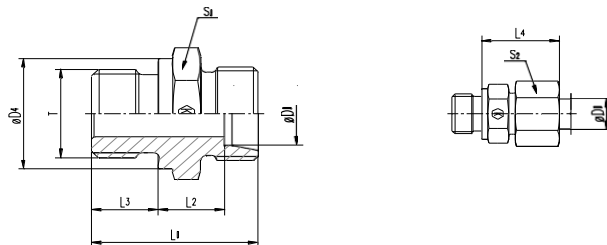
MALE STUD CONNECTOR BSP



Series	Tube ØD1	T (BSPP)	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
S	6	G 1/8A	14	27.5	12.5	8	27	14	17	19	T02-0220	630
	6	G 1/4A	18	32.0	13.0	12	28	19	17	35	T02-0221	630
	6	G 3/8A	22	34.5	15.5	12	30	22	17	52	T02-0222	630
	6	G 1/2A	26	39.0	18.0	14	33	27	17	98	T02-0223	630
	8	G 1/4A	18	34.0	15.0	12	30	19	19	41	T02-0224	630
	8	G 3/8A	22	34.5	15.5	12	30	22	19	57	T02-0225	630
	8	G 1/2A	26	39.0	18.0	14	33	27	19	87	T02-0226	630
	10	G 1/4A	18	34.0	14.5	12	31	19	22	40	T02-0227	630
	10	G 3/8A	22	34.5	15.0	12	31	22	22	57	T02-0228	630
	10	G 1/2A	26	39.0	17.5	14	34	27	22	99	T02-0229	630
	12	G 1/4A	18	36.0	16.5	12	33	22	24	55	T02-0230	630
	12	G 3/8A	22	36.5	17.0	12	33	22	24	62	T02-0231	630
	12	G 1/2A	26	39.0	17.5	14	34	27	24	97	T02-0232	630
	14	G 3/8A	22	38.5	18.5	12	36	24	27	73	T02-0233	630
	14	G 1/2A	26	41.0	19.0	14	37	27	27	96	T02-0234	630
	16	G 3/8A	22	38.5	18.0	12	36	27	30	85	T02-0235	400
	16	G 1/2A	26	41.0	18.5	14	37	27	30	91	T02-0236	400
	16	G 3/4A	32	45.0	20.5	16	39	32	30	156	T02-0237	400
	20	G 1/2A	26	45.0	20.5	14	42	32	36	135	T02-0238	400
	20	G 3/4A	32	47.0	20.5	16	42	32	36	151	T02-0239	400
	20	G 1A	39	51.0	22.5	18	44	41	36	254	T02-0240	400
	20	G 1 1/4A	49	53.0	22.5	20	44	50	36	450	T02-0241	400
	25	G 3/4A	32	51.0	23.0	16	47	41	46	240	T02-0242	400
	25	G 1A	39	53.0	23.0	18	47	41	46	265	T02-0243	400
	25	G 1 1/4A	49	55.0	23.0	20	47	50	46	439	T02-0244	400
	30	G 1A	39	55.0	23.5	18	50	46	50	328	T02-0245	250
	30	G 1 1/4A	49	57.0	23.5	20	50	50	50	421	T02-0246	250
	38	G 1 1/4A	49	62.0	26.0	20	57	55	60	560	T02-0247	250
	38	G 1 1/2A	55	64.0	26.0	22	57	55	60	556	T02-0248	250

S= heavy series

MALE STUD CONNECTOR METRIC

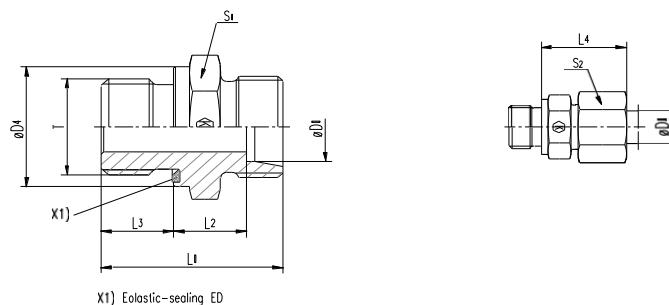


Series	Tube ØD1	T	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M10x1	14	23.5	8.5	8	23	14	14	14	T02-0249	315
	8	M12x1.5	17	29.0	10.0	12	25	17	17	22	T02-0250	315
	10	M10x1	14	25.5	10.5	8	25	17	19	0	T02-0251	315
	10	M12x1.5	17	30.0	11.0	12	26	17	19	24	T02-0252	315
	10	M14x1.5	19	30.0	11.0	12	26	19	19	30	T02-0253	315
	10	M16x1.5	21	31.5	12.0	12	27	22	19	42	T02-0254	315
	10	M18x1.5	23	31.5	12.5	12	27	24	19	52	T02-0255	315
	10	M22x1.5	27	35.0	14.0	14	29	27	19	83	T02-0256	315
	12	M14x1.5	19	30.0	11.0	12	26	19	22	30	T02-0257	315
	12	M16x1.5	21	31.5	12.5	12	27	22	22	40	T02-0258	315
	12	M18x1.5	23	31.5	12.5	12	27	24	22	45	T02-0259	315
	12	M22x1.5	27	35.0	14.0	14	29	27	22	80	T02-0260	315
	15	M16x1.5	21	32.0	13.0	12	28	24	27	49	T02-0261	315
	15	M18x1.5	23	32.5	13.5	12	29	24	27	51	T02-0262	315
	15	M22x1.5	27	36.0	15.0	14	30	27	27	81	T02-0263	315
	18	M18x1.5	23	33.5	14.0	12	30	27	32	67	T02-0264	315
	18	M22x1.5	27	36.0	14.5	14	31	27	32	74	T02-0265	315
	22	M22x1.5	27	38.0	16.5	14	33	32	36	92	T02-0266	315
	22	M26x1.5	31	40.0	16.5	16	33	32	36	101	T02-0267	315
	28	M33x2	39	43.0	17.5	18	34	41	41	167	T02-0268	315
	35	M42x2	49	48.0	17.5	20	39	50	50	286	T02-0269	315
	42	M48x2	55	52.0	19.0	22	42	55	60	353	T02-0270	315
S	6	M12x1.5	17	32.0	13.0	12	28	17	17	30	T02-0271	630
	6	M14x1.5	19	34.0	15.0	12	30	19	17	42	T02-0272	630
	8	M14x1.5	19	34.0	15.0	12	30	19	19	43	T02-0273	630
	10	M16x1.5	21	34.5	15.0	12	31	22	22	54	T02-0274	630
	12	M14x1.5	19	36.0	16.5	12	33	22	24	61	T02-0275	630
	12	M18x1.5	23	36.5	17.0	12	33	24	24	72	T02-0276	630
	12	M22x1.5	27	39.0	17.5	14	34	27	24	103	T02-0277	630
	14	M20x1.5	25	41.0	19.0	14	37	27	27	94	T02-0278	630
	16	M18x1.5	23	38.5	18.0	12	36	27	30	78	T02-0279	400
	16	M22x1.5	27	41.0	18.5	14	37	27	30	97	T02-0280	400
	20	M27x2	32	47.0	20.5	16	42	32	36	153	T02-0281	400
	25	M33x2	39	53.0	23.0	18	47	41	46	268	T02-0282	400
	30	M42x2	49	57.0	23.5	20	50	50	50	423	T02-0283	250
	38	M48x2	55	64.0	26.0	22	57	55	60	575	T02-0284	250

L= light series

S= heavy series

MALE STUD CONNECTOR ED-SEAL BSP

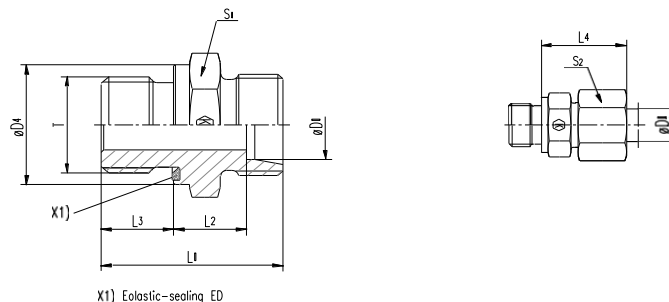


Series	Tube ØD1	T (BSP)	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	4	G 1/8A	13.9	21.5	9.5	8.0	19	14	10	15	T02-0285	100
	6	G 1/8A	13.9	21.5	8.0	8.0	20	14	12	17	T02-0286	100
L	6	G 1/8A	13.9	23.5	8.5	8.0	23	14	14	12	T02-0287	315
	6	G 1/4A	18.9	29.0	10.0	12.0	25	19	14	30	T02-0288	315
	6	G 3/8A	21.9	30.5	11.5	12.0	26	22	14	40	T02-0289	315
	6	G 1/2A	26.9	33.0	12.0	14.0	27	27	14	61	T02-0290	315
	8	G 1/4A	18.9	29.0	10.0	12.0	25	19	17	28	T02-0291	315
	8	G 1/8A	13.9	23.5	8.5	8.0	24	14	17	14	T02-0292	315
	8	G 3/8A	21.9	30.5	11.5	12.0	26	22	17	43	T02-0293	315
	8	G 1/2A	26.9	33.0	12.0	14.0	27	27	17	72	T02-0294	315
	10	G 1/4A	18.9	30.0	11.0	12.0	26	19	19	28	T02-0295	315
	10	G 1/8A	13.9	25.5	10.5	8.0	25	17	19	19	T02-0296	315
	10	G 3/8A	21.9	31.5	12.5	12.0	27	22	19	40	T02-0297	315
	10	G 1/2A	26.9	34.0	13.0	14.0	28	27	19	71	T02-0298	315
	12	G 3/8A	21.9	31.5	12.5	12.0	27	22	22	41	T02-0299	315
	12	G 1/8A	13.9	26.5	11.5	8.0	26	19	22	26	T02-0300	315
	12	G 1/4A	18.9	31.0	12.0	12.0	27	19	22	30	T02-0301	315
	12	G 1/2A	26.9	34.0	13.0	14.0	28	27	22	66	T02-0302	315
	12	G 3/4A	31.9	37.0	14.0	16.0	29	32	22	115	T02-0303	315
	15	G 1/2A	26.9	35.0	14.0	14.0	29	27	27	72	T02-0304	315
	15	G 3/8A	21.9	32.5	13.5	12.0	29	24	27	54	T02-0305	315
	15	G 3/4A	31.9	38.0	15.0	16.0	30	32	27	105	T02-0306	315
	18	G 1/2A	26.9	36.0	14.5	14.0	31	27	32	71	T02-0307	315
	18	G 3/8A	21.9	33.5	14.0	12.0	30	27	32	67	T02-0308	315
	18	G 3/4A	31.9	38.0	14.5	16.0	31	32	32	114	T02-0309	315
	22	G 3/4A	31.9	40.0	16.5	16.0	33	32	36	102	T02-0310	160
	22	G 1/2A	26.9	38.0	16.5	14.0	33	32	36	96	T02-0311	160
	22	G 1A	39.9	43.0	17.5	18.0	34	41	36	191	T02-0312	160
	28	G 1A	39.9	43.0	17.5	18.0	34	41	41	166	T02-0313	160
	28	G 3/4A	31.9	41.0	17.5	16.0	34	41	41	218	T02-0314	160
	28	G 11/4A	49.9	46.0	18.5	20.0	35	50	41	316	T02-0315	160
	35	G 11/4A	49.9	48.0	17.5	20.0	39	50	50	272	T02-0316	160
	35	G 1A	39.9	46.0	17.5	18.0	39	46	50	226	T02-0317	160
	35	G 11/2A	54.9	52.0	19.5	22.0	41	55	50	417	T02-0318	160
	42	G 11/2A	54.9	52.0	19.0	22.0	42	55	60	346	T02-0319	160
	42	G 1A	39.9	48.0	19.0	18.0	42	55	60	324	T02-0320	160
	42	G 11/4A	49.9	50.0	19.0	20.0	42	55	60	346	T02-0321	160

L= light series

S= heavy series

MALE STUD CONNECTOR ED-SEAL BSP

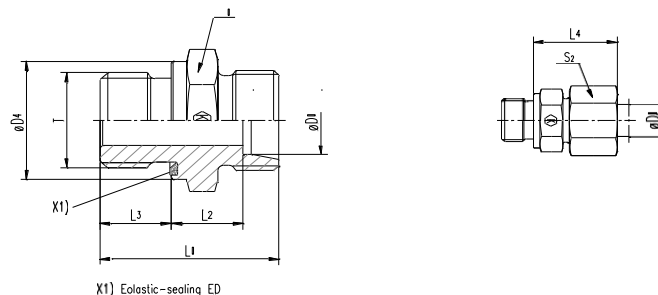


Series	Tube ØD1	T (BSP)	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
S	6	G 1/4A	18.9	32.0	13.0	12	28	19	17	36	T02-0322	630
	6	G 1/8A	13.9	27.5	12.5	8	27	14	17	21	T02-0323	630
	6	G 3/8A	21.9	34.5	15.5	12	30	22	17	52	T02-0324	630
	6	G 1/2A	26.9	39.0	18.0	14	33	27	17	83	T02-0325	630
	8	G 1/4A	18.9	34.0	15.0	12	30	19	19	41	T02-0326	630
	8	G 3/8A	21.9	34.5	15.5	12	30	22	19	57	T02-0327	630
	8	G 1/2A	26.9	39.0	18.0	14	33	27	19	89	T02-0328	630
	10	G 3/8A	21.9	34.5	15.0	12	31	22	22	55	T02-0329	630
	10	G 1/4A	18.9	34.0	14.5	12	31	19	22	40	T02-0330	630
	10	G 1/2A	26.9	39.0	17.5	14	34	27	22	96	T02-0331	630
	12	G 3/8A	21.9	36.5	17.0	12	33	22	24	64	T02-0332	630
	12	G 1/4A	18.9	36.0	16.5	12	33	22	24	54	T02-0333	630
	12	G 1/2A	26.9	39.0	17.5	14	34	27	24	96	T02-0334	630
	14	G 1/2A	26.9	41.0	19.0	14	37	27	27	96	T02-0335	630
	14	G 3/8A	21.9	38.5	18.5	12	36	24	27	74	T02-0336	630
	14	G 3/4A	31.9	45.0	21.0	16	39	32	27	138	T02-0337	630
	16	G 1/2A	26.9	41.0	18.5	14	37	27	30	91	T02-0338	400
	16	G 3/8A	21.9	38.5	18.0	12	36	27	30	84	T02-0339	400
	16	G 3/4A	31.9	45.0	20.5	16	39	32	30	153	T02-0340	400
	20	G 3/4A	31.9	47.0	20.5	16	42	32	36	147	T02-0341	400
	20	G 1/2A	26.9	45.0	20.5	14	42	32	36	136	T02-0342	400
	20	G 1A	39.9	49.0	20.5	18	44	41	36	250	T02-0343	400
	20	G 11/4A	49.9	53.0	22.5	20	44	50	36	442	T02-0344	400
	25	G 1A	39.9	53.0	23.0	18	47	41	46	260	T02-0345	400
	25	G 1/2A	26.9	49.0	23.0	14	47	41	46	238	T02-0346	400
	25	G 3/4A	31.9	51.0	23.0	16	47	41	46	238	T02-0347	400
	25	G 11/4A	49.9	55.0	23.0	20	47	50	46	440	T02-0348	400
	25	G 11/2A	54.9	60.0	26.0	22	50	55	46	482	T02-0349	400
	30	G 11/4A	49.9	57.0	23.5	20	50	50	50	414	T02-0350	400
	30	G 1A	39.9	55.0	23.5	18	50	46	50	321	T02-0351	400
	30	G 11/2A	54.9	62.0	26.5	22	53	55	50	531	T02-0352	315
	38	G 11/2A	54.9	64.0	26.0	22	57	55	60	562	T02-0353	315
	38	G 11/4A	49.9	62.0	26.0	20	57	55	60	552	T02-0354	315

L= light series

S= heavy series

MALE STUD CONNECTOR ED-SEAL METRIC

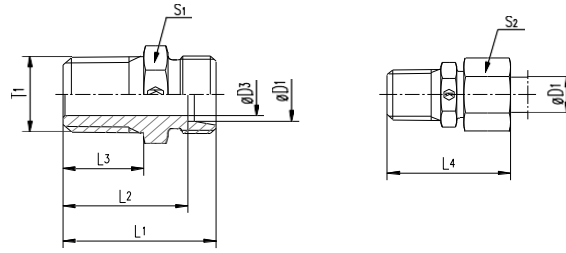


Series	Tube ØD1	T	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M10x1	13,9	23.5	8.5	8	23	14	14	13	T02-0355	315
	8	M12x1,5	16,9	29.0	10.0	12	25	17	17	22	T02-0356	315
	10	M14x1,5	18,9	30.0	11.0	12	26	19	19	29	T02-0357	315
	10	M12x1,5	16,9	30.0	11.0	12	26	17	19	23	T02-0358	315
	10	M16x1,5	21,9	31.0	12.5	12	24	22	19	41	T02-0359	315
	10	M18x1,5	23,9	31.5	12.5	12	27	24	19	51	T02-0360	315
	10	M22x1,5	26,9	35.0	14.0	14	29	27	19	83	T02-0361	315
	12	M16x1,5	21,9	31.5	12.5	12	27	22	22	40	T02-0362	315
	12	M14x1,5	18,9	30.0	11.0	12	26	19	22	30	T02-0363	315
	12	M18x1,5	23,9	31.5	12.5	12	27	24	22	45	T02-0364	315
	12	M22x1,5	26,9	35.0	14.0	14	29	27	22	80	T02-0365	315
	15	M18x1,5	23,9	32.5	13.5	12	29	24	27	51	T02-0366	315
	15	M16x1,5	21,9	32.0	13.0	12	28	24	27	49	T02-0367	315
	15	M22x1,5	26,9	36.0	15.0	14	30	27	27	81	T02-0368	315
	18	M22x1,5	26,9	36.0	14.5	14	31	27	32	74	T02-0369	315
	18	M18x1,5	23,9	33.5	14.0	12	30	27	32	66	T02-0370	315
	22	M26x1,5	31,9	40.0	16.5	16	33	32	36	100	T02-0371	160
	22	M22x1,5	26,9	38.0	16.5	14	33	32	36	100	T02-0372	160
	28	M33x2	39,9	43.0	17.5	18	34	41	41	167	T02-0373	160
	35	M42x2	49,9	48.0	17.5	20	39	50	50	286	T02-0374	160
S	42	M48x2	54,9	52.0	19.0	22	42	55	60	353	T02-0375	160
	6	M12x1,5	16,9	32.0	13.0	12	28	17	17	30	T02-0376	630
	8	M14x1,5	18,9	34.0	15.0	12	30	19	19	42	T02-0377	630
	10	M16x1,5	21,9	34.5	15.0	12	31	22	22	54	T02-0378	630
	12	M18x1,5	23,9	36.5	17.0	12	33	24	24	71	T02-0379	630
	12	M14x1,5	18,9	36.0	16.5	12	33	22	24	60	T02-0380	630
	12	M22x1,5	26,9	39.0	17.5	14	34	27	24	103	T02-0381	630
	14	M20x1,5	25,9	41.0	19.0	14	37	27	27	97	T02-0382	630
	16	M22x1,5	26,9	41.0	18.5	14	37	27	30	97	T02-0383	400
	16	M18x1,5	23,9	38.5	18.0	12	36	27	30	78	T02-0384	400
	20	M27x2	31,9	47.0	20.5	16	42	32	36	152	T02-0385	400
	25	M33x2	39,9	53.0	23.0	18	47	41	46	268	T02-0386	400
	30	M42x2	49,9	57.0	23.5	20	50	50	50	423	T02-0387	400
	38	M48x2	54,9	64.0	26.0	22	57	55	60	574	T02-0388	315

L= light series

S= heavy series

MALE STUD CONNECTOR NPT

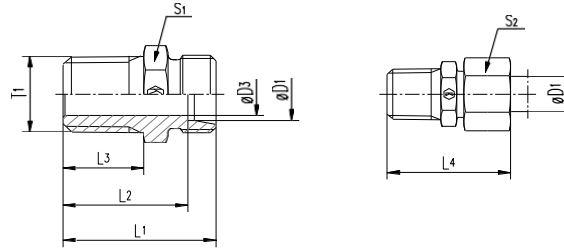


Series	Tube ØD1	T1 NPT	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	04	1/8-27 NPT	3.0	22.0	18.0	10.0	28	11	10	9	T02-0389	100
	06	1/8-27 NPT	4.5	22.0	16.5	10.0	28	11	12	9	T02-0390	100
	08	1/8-27 NPT	5.0	24.0	18.5	10.0	30	12	14	11	T02-0391	100
L	06	1/8-27 NPT	4.0	24.0	17.0	10.0	32	12	14	12	T02-0392	315
	06	1/4-18 NPT	4.0	30.0	23.0	14.5	38	17	14	26	T02-0393	315
	06	3/8-18 NPT	4.0	30.0	23.0	14.5	38	19	14	32	T02-0394	315
	06	1/2-14 NPT	4.0	36.0	29.0	19.5	44	22	14	53	T02-0395	315
	08	1/8-27 NPT	4.0	25.0	18.0	10.0	33	14	17	18	T02-0396	315
	08	1/4-18 NPT	6.0	30.0	23.0	14.5	38	17	17	24	T02-0397	315
	08	3/8-18 NPT	6.0	30.0	23.0	14.5	38	19	17	34	T02-0398	315
	08	1/2-14 NPT	6.0	36.0	29.0	19.5	44	22	17	54	T02-0399	315
	10	1/8-27 NPT	4.0	25.0	18.0	10.0	33	17	19	19	T02-0400	315
	10	1/4-18 NPT	7.0	31.0	24.0	14.5	39	17	19	25	T02-0401	315
	10	3/8-18 NPT	7.0	32.0	25.0	14.5	40	19	19	37	T02-0402	315
	10	1/2-14 NPT	8.0	37.0	30.0	19.5	45	22	19	61	T02-0403	315
	10	3/4-14 NPT	8.0	38.0	31.0	19.5	46	30	19	93	T02-0404	315
	12	1/8-27 NPT	4.0	26.0	19.0	10.0	34	19	22	52	T02-0405	315
	12	1/4-18 NPT	7.0	32.0	25.0	14.5	40	19	22	31	T02-0406	315
	12	3/8-18 NPT	8.0	32.0	25.0	14.5	40	19	22	42	T02-0407	315
	12	1/2-14 NPT	10.0	37.0	30.0	19.5	45	22	22	58	T02-0408	315
	15	3/8-18 NPT	8.0	33.0	26.0	14.5	41	24	27	54	T02-0409	315
	15	1/2-14 NPT	12.0	38.0	31.0	19.5	46	24	27	62	T02-0410	315
	15	3/4-14 NPT	12.0	39.0	32.0	19.5	47	30	27	112	T02-0411	315
	15	1-11 1/2 NPT	12.0	45.0	38.0	24.5	53	36	27	158	T02-0412	315
	18	3/8-18 NPT	8.0	34.0	26.5	14.5	43	27	32	69	T02-0413	315
	18	1/2-14 NPT	12.0	39.0	31.5	19.5	48	27	32	79	T02-0414	315
	18	3/4-14 NPT	15.0	39.0	31.5	19.5	48	30	32	100	T02-0415	315
	18	1-11 1/2 NPT	15.0	45.0	37.5	24.5	54	36	32	159	T02-0416	315
	22	3/8-18 NPT	8.0	36.5	29.0	14.5	45	32	36	91	T02-0417	160
	22	1/2-14 NPT	12.0	41.0	33.5	19.5	50	32	36	94	T02-0418	160
	22	3/4-14 NPT	16.0	41.0	33.5	19.5	50	32	36	108	T02-0419	160
	22	1-11 1/2 NPT	19.0	47.0	39.5	24.5	56	36	36	201	T02-0420	160
	28	3/4-14 NPT	16.0	42.0	34.5	19.5	51	41	41	162	T02-0421	160
	28	1-11 1/2 NPT	21.0	47.0	39.5	24.5	56	41	41	197	T02-0422	160
	28	11/4-11 1/2 NPT	24.0	49.0	41.5	25.0	58	46	41	266	T02-0423	160
	35	1-11 1/2 NPT	22.0	50.0	39.5	24.5	61	46	50	215	T02-0424	160
	35	11/4-11 1/2 NPT	28.0	51.0	40.5	25.0	62	46	50	264	T02-0425	160
	42	11/4-11 1/2 NPT	28.0	53.0	42.0	25.0	65	55	60	382	T02-0426	160
	42	11/2-11 1/2 NPT	36.0	53.0	42.0	26.0	65	55	60	347	T02-0427	160

L= light series

LL= very light series

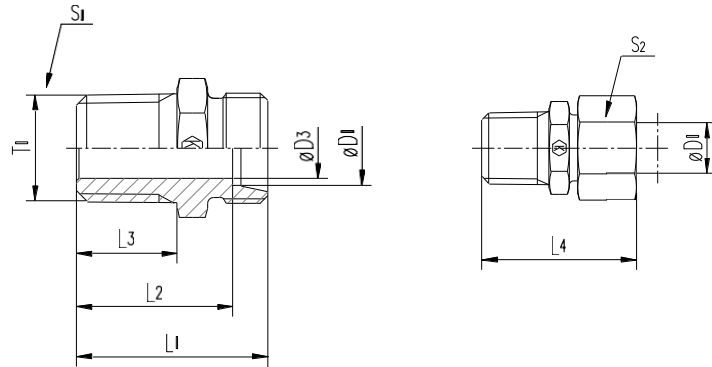
MALE STUD CONNECTOR NPT



Series	Tube ØD1	T1 NPT	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
S	06	1/8-27 NPT	4	28	21.0	10.0	36	14	17	21	T02-0428	630
	06	1/4-18 NPT	4	35	28.0	14.5	43	17	17	37	T02-0429	630
	06	3/8-18 NPT	4	33	26.0	14.5	41	19	17	40	T02-0430	630
	06	1/2-14 NPT	4	42	35.0	19.5	50	22	17	71	T02-0431	630
	08	1/4-18 NPT	5	35	28.0	14.5	43	17	19	38	T02-0432	630
	08	3/8-18 NPT	5	35	28.0	14.5	43	19	19	46	T02-0433	630
	08	1/2-14 NPT	5	42	35.0	19.5	50	22	19	73	T02-0434	630
	10	1/4-18 NPT	5	35	27.5	14.5	44	19	22	45	T02-0435	630
	10	3/8-18 NPT	7	35	27.5	14.5	44	19	22	49	T02-0436	630
	10	1/2-14 NPT	7	42	34.5	19.5	51	22	22	73	T02-0437	630
	10	3/4-14 NPT	7	44	36.5	19.5	53	30	22	125	T02-0438	630
	12	1/4-18 NPT	5	37	29.5	14.5	46	22	24	57	T02-0439	630
	12	3/8-18 NPT	8	37	29.5	14.5	46	22	24	62	T02-0440	630
	12	1/2-14 NPT	8	42	34.5	19.5	51	22	24	83	T02-0441	630
	12	3/4-14 NPT	8	44	36.5	19.5	53	30	24	126	T02-0442	630
	14	3/8-18 NPT	8	39	31.0	14.5	49	24	27	77	T02-0443	630
	14	1/2-14 NPT	10	44	36.0	19.5	54	24	27	89	T02-0444	630
	14	3/4-14 NPT	10	46	38.0	19.5	56	30	27	130	T02-0445	630
	14	1-11 1/2 NPT	10	51	43.0	24.5	61	36	27	180	T02-0446	630
	16	3/8-18 NPT	8	39	30.5	14.5	49	27	30	84	T02-0447	400
	16	1/2-14 NPT	12	48	39.5	19.5	58	32	30	96	T02-0448	400
	16	3/4-14 NPT	12	46	37.5	19.5	56	30	30	113	T02-0449	400
	16	1-11 1/2 NPT	12	51	42.5	24.5	61	36	30	178	T02-0450	400
	20	1/2-14 NPT	12	48	37.5	19.5	59	32	36	138	T02-0451	400
	20	3/4-14 NPT	16	48	37.5	19.5	59	32	36	149	T02-0452	400
	20	1-11 1/2 NPT	16	55	44.5	24.5	66	36	36	243	T02-0453	400
	25	3/4-14 NPT	16	52	40.0	19.5	64	41	46	240	T02-0454	400
	25	1-11 1/2 NPT	20	57	45.0	24.5	69	41	46	278	T02-0455	400
	25	11/4-11 1/2 NPT	20	58	46.0	25.0	70	46	46	380	T02-0456	400
	25	11/2-11 1/2 NPT	20	61	49.0	26.0	73	50	46	469	T02-0457	400
	30	3/4-14 NPT	16	54	40.5	19.5	67	46	50	307	T02-0458	400
	30	1-11 1/2 NPT	20	59	45.5	24.5	72	46	50	343	T02-0459	400
	30	11/4-11 1/2 NPT	25	60	46.5	25.0	73	46	50	415	T02-0460	400
	30	11/2-11 1/2 NPT	25	60	46.5	26.0	73	50	50	440	T02-0461	400
	38	1-11 1/2 NPT	22	64	48.0	24.5	79	55	60	510	T02-0462	315
	38	11/4-11 1/2 NPT	25	65	49.0	25.0	80	55	60	575	T02-0463	315
	38	11/2-11 1/2 NPT	32	65	49.0	26.0	80	55	60	590	T02-0464	315

S= heavy series

MALE STUD CONNECTOR TAPER THREAD BSPT

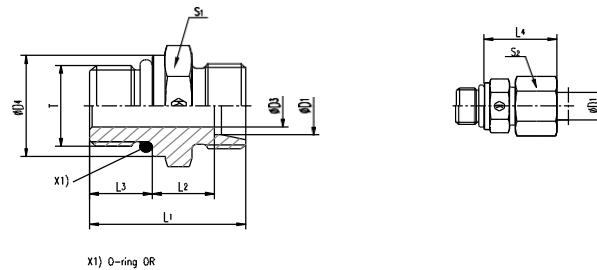


Series	Tube ØD1	T1 BSPT	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	04	1/8-28	3.0	20	16.0	8	26	11	10	8	T02-0465	100
	06	1/8-28	4.5	20	14.5	8	26	11	12	8	T02-0466	100
	08	1/8-28	6.0	22	16.5	8	28	12	14	10	T02-0467	100
	08	1/4-19	6.0	26	20.5	12	32	14	14	18	T02-0468	100
	10	1/4-19	8.0	26	20.5	12	32	14	17	15	T02-0469	100
	12	1/4-19	8.0	26	20.0	12	32	17	19	18	T02-0470	100
	12	3/8-19	10.0	26	20.0	12	32	17	19	23	T02-0471	100
L	06	1/8-28	4.0	22	15.0	8	30	12	14	14	T02-0472	315
	06	1/4-19	4.0	27	20.0	12	35	17	14	24	T02-0473	315
	08	1/8-28	4.0	23	16.0	8	31	17	17	17	T02-0474	315
	08	1/4-19	6.0	27	20.0	12	35	17	17	22	T02-0475	315
	10	1/4-19	7.0	28	21.0	12	36	17	19	23	T02-0476	315
	12	1/4-19	7.0	29	22.0	12	37	19	22	53	T02-0477	315
	12	3/8-19	9.0	29	22.0	12	37	19	22	53	T02-0478	315
	12	1/2-14	10.0	31	24.0	14	39	24	22	53	T02-0479	315
	15	3/8-19	9.0	30	23.0	12	38	24	27	49	T02-0480	315
	15	1/2-14	11.0	32	25.0	14	40	24	27	59	T02-0481	315
	18	1/2-14	14.0	33	25.5	14	42	27	32	64	T02-0482	315
	22	3/4-14	17.0	37	29.5	16	46	32	36	99	T02-0483	160
	28	1-11	23.0	40	32.5	18	49	41	41	154	T02-0484	160
	35	1 1/4-11	30.0	45	34.5	20	56	46	50	238	T02-0485	160
	42	1 1/2-11	36.0	49	38.0	22	61	55	60	335	T02-0486	160

L= light series

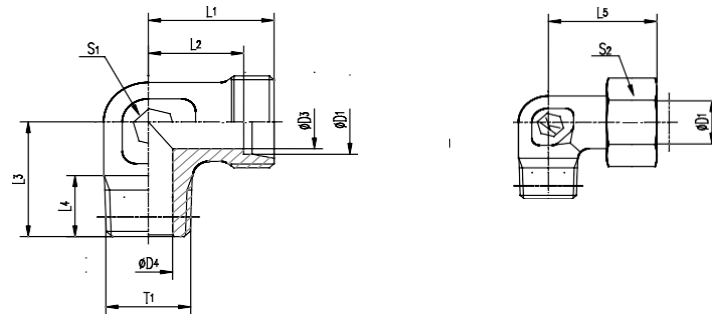
LL= very light series

MALE STUD CONNECTOR UNF/UN



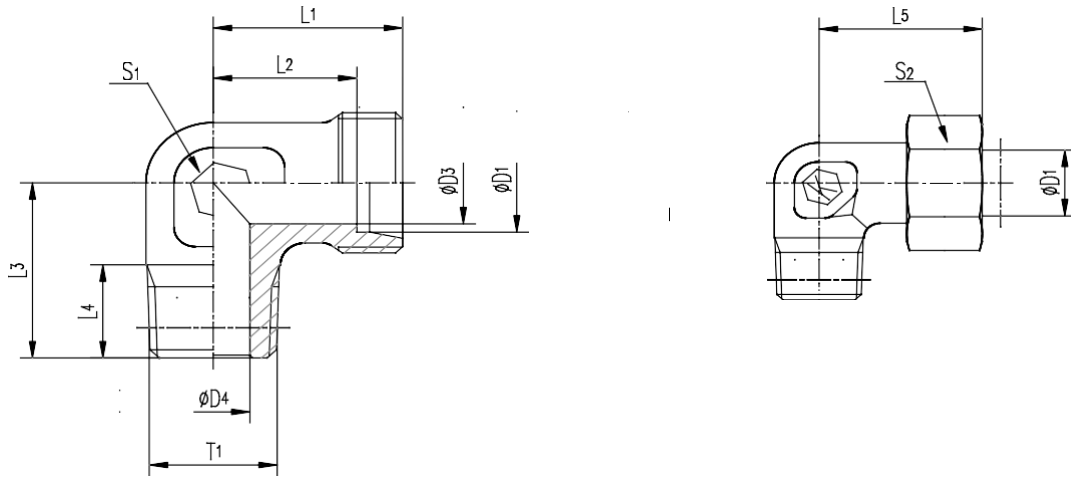
Series	Tube ØD1	T	D3	D4	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	08	7/16-20 UNF-2A	5.0	-	26	10.0	9.0	25	17	17	21	T02-0487	315
	10	7/16-20 UNF-2A	5.0	-	27	11.0	9.0	26	17	19	23	T02-0488	315
	12	9/16-18 UNF-2A	7.0	19.0	28	11.0	10.0	26	19	22	32	T02-0489	315
	12	3/4-16 UNF-2A	10.0	23.9	31	13.0	11.0	28	24	22	52	T02-0490	315
	12	7/8-14 UNF-2A	10.0	26.9	34	14.3	12.7	29	27	22	77	T02-0491	315
	15	3/4-16 UNF-2A	11.0	23.9	32	14.0	11.0	29	24	27	57	T02-0492	315
	15	7/8-14 UNF-2A	12.0	26.9	35	15.3	12.7	30	27	27	81	T02-0493	315
	18	3/4-16 UNF-2A	11.0	23.9	33	14.5	11.0	31	27	32	68	T02-0494	315
	18	7/8-14 UNF-2A	14.0	26.9	35	14.8	12.7	31	27	32	72	T02-0495	315
	22	7/8-14 UNF-2A	14.0	26.9	37	16.8	12.7	33	32	36	94	T02-0496	160
	22	1 1/16-12 UN-2A	18.0	33.3	39	16.5	15.0	33	32	36	103	T02-0497	160
	22	1 5/16-12 UN-2A	19.0	39.6	40	17.5	15.0	34	41	36	163	T02-0498	160
	28	1 1/16-12 UN-2A	18.0	33.3	40	17.5	15.0	34	41	41	152	T02-0499	160
	28	1 5/16-12 UN-2A	23.0	39.6	40	17.5	15.0	34	41	41	163	T02-0500	160
	35	1 5/16-12 UN-2A	23.0	39.6	43	17.5	15.0	39	46	50	222	T02-0501	160
	35	1 5/8-12 UN-2A	29.0	47.7	43	17.5	15.0	39	50	50	257	T02-0502	160
	42	1 5/8-12 UN-2A	29.0	47.7	45	19.0	15.0	42	55	60	339	T02-0503	160
S	08	7/16-20 UNF-2A	4.0	-	31	13.0	11.0	30	17	19	33	T02-0504	630
	10	9/16-18 UNF-2A	6.0	19.0	32	12.5	12.0	31	19	22	42	T02-0505	630
	12	9/16-18 UNF-2A	6.0	19.0	32	12.5	12.0	31	22	24	50	T02-0506	630
	12	3/4-16 UNF-2A	8.0	23.9	36	14.5	14.0	34	24	24	73	T02-0507	630
	16	3/4-16 UNF-2A	10.0	23.9	35	12.5	14.0	34	24	30	90	T02-0508	400
	16	7/8-14 UNF-2A	12.0	26.9	40	15.5	16.0	37	27	30	95	T02-0509	400
	20	3/4-16 UNF-2A	10.0	23.9	42	17.5	14.0	42	32	36	132	T02-0510	400
	20	7/8-14 UNF-2A	12.0	26.9	44	17.5	16.0	42	32	36	141	T02-0511	400
	20	1 1/16-12 UN-2A	16.0	33.3	46	17.0	18.5	42	32	36	163	T02-0512	400
	25	1 1/16-12 UN-2A	16.0	33.3	50	19.5	18.5	47	36	46	206	T02-0513	400
	25	1 5/16-12 UN-2A	20.0	39.6	50	19.5	18.5	47	41	46	258	T02-0514	400
	30	1 5/16-12 UN-2A	20.0	39.6	52	20.0	18.5	50	46	50	327	T02-0515	400
	30	1 5/8-12 UN-2A	24.0	47.7	52	20.0	18.5	50	50	50	422	T02-0516	400
	38	1 5/8-12 UN-2A	24.0	47.7	57	22.5	18.5	57	55	60	554	T02-0517	315

MALE STUD ELBOW TAPER THREAD BSPT



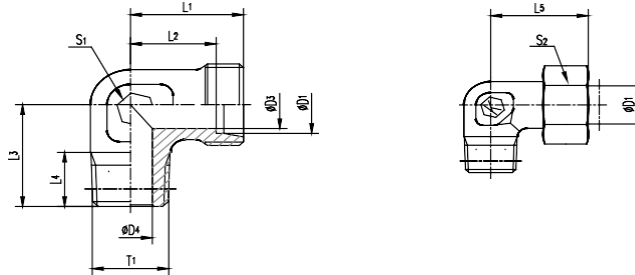
Series	Tube ØD1	T1 (BSPT)	D3	D4	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	6	1/8"-28	4.5	4.5	15	9.5	17	8	21	9	12	23	T02-0518	100
	8	1/8"-28	6.0	6.0	17	11.5	20	8	23	12	14	20	T02-0519	100
	10	1/4"-19	8.0	7.0	18	12.5	23	12	24	12	17	36	T02-0520	100
	12	1/4"-19	10	7.0	19	13.0	23	12	25	14	19	46	T02-0521	100
L	6	1/8"-28	4.0	4.0	19	12.0	20	8	27	12	14	24	T02-0522	315
	6	1/4"-19	4.0	6.0	21	14.0	26	12	29	12	14	23	T02-0523	315
	8	1/4"-19	6.0	6.0	21	14.0	26	12	29	12	17	28	T02-0524	315
	8	1/8"-28	6.0	4.0	21	14.0	26	8	29	12	17	23	T02-0525	315
	8	3/8"-19	6.0	9.0	24	17.0	28	12	32	17	17	54	T02-0526	315
	10	1/4"-19	8.0	7.0	22	15.0	27	12	30	14	19	35	T02-0527	315
	10	3/8"-19	8.0	9.0	24	17.0	28	12	32	17	19	53	T02-0528	315
	12	3/8"-19	10.0	9.0	24	17.0	28	12	32	17	22	51	T02-0529	315
	12	1/4"-19	10.0	7.0	24	17.0	27	12	32	17	22	45	T02-0530	315
	12	1/2"-14	10.0	11.0	28	21.0	34	14	36	19	22	122	T02-0531	315
	15	1/2"-14	12.0	11.0	28	21.0	34	14	36	19	27	127	T02-0532	315
	18	1/2"-14	15.0	14.0	31	23.5	36	14	40	24	32	117	T02-0533	315
S	6	1/4"-19	4.0	4.0	23	16.0	26	12	31	12	17	37	T02-0534	630
	6	3/8"-19	4.0	7.0	25	18.0	28	12	33	17	17	61	T02-0535	630
	8	1/4"-19	5.0	5.0	24	17.0	27	12	32	14	19	44	T02-0536	630
	8	3/8"-19	5.0	7.0	25	18.0	28	12	33	17	19	61	T02-0537	630
	10	3/8"-19	7.0	7.0	25	17.5	28	12	34	17	22	59	T02-0538	630
	10	1/4"-19	7.0	5.0	25	17.5	28	12	34	17	22	51	T02-0539	630
	10	1/2"-14	7.0	10.0	30	22.5	32	14	39	19	22	129	T02-0540	630
	12	3/8"-19	8.0	8.0	29	21.5	28	12	38	17	24	89	T02-0541	630
	12	1/2"-14	8.0	11.0	30	22.5	32	14	39	19	24	129	T02-0542	630
	14	1/2"-14	10.0	10.0	30	22.0	32	14	40	19	27	132	T02-0543	630
	16	1/2"-14	12.0	12.0	33	24.5	32	14	43	24	30	126	T02-0544	630

MALE STUD ELBOW TAPER THREAD METRIC



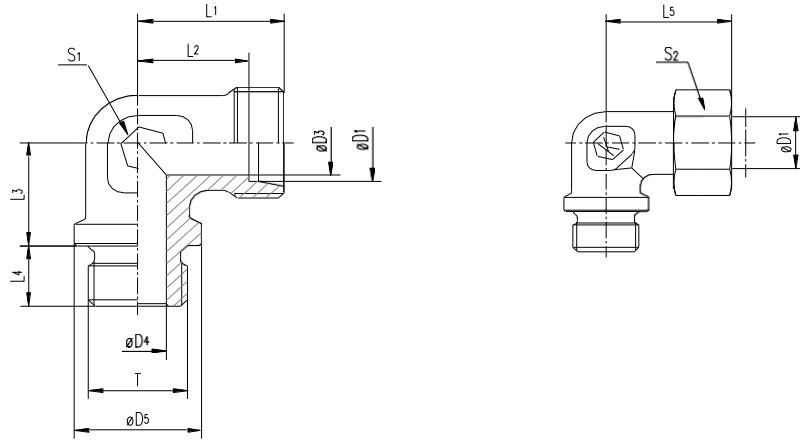
Series	Tube ØD1	T1 (BSPT)	D3	D4	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	6	M10x1	4.5	4.5	15	9.5	17	8	21	9	12	21	T02-0545	100
	8	M10x1	6.0	6.0	17	11.5	20	8	23	12	14	25	T02-0546	100
L	6	M10x1	4.0	4.0	19	12.0	20	8	27	12	14	28	T02-0547	100
	8	M12x1.5	6.0	6.0	21	14.0	26	12	29	12	17	26	T02-0548	100
	10	M14x1.5	8.0	7.0	22	15.0	27	12	30	14	19	36	T02-0549	315
	12	M16x1.5	10.0	9.0	24	17.0	28	12	32	17	22	49	T02-0550	315
	15	M18x1.5	12.0	11.0	28	21.0	32	12	36	19	27	113	T02-0551	315
	18	M22x1.5	15.0	14.0	31	23.0	36	14	40	24	32	112	T02-0552	315
	6	M12x1.5	4.0	4.0	23	16.0	26	12	31	12	17	31	T02-0553	315
S	8	M14x1.5	5.0	5.0	24	17.0	27	12	32	14	19	78	T02-0554	315
	10	M16x1.5	7.0	7.0	25	17.5	28	12	34	17	22	60	T02-0555	315
	12	M18x1.5	8.0	8.0	29	21.5	28	12	38	17	24	125	T02-0556	315
	14	M20x1.5	10.0	10.0	30	22.0	32	14	40	19	27	99	T02-0557	315
	16	M22x1.5	12.0	12.0	33	24.5	32	14	43	24	30	133	T02-0558	315

MALE STUD ELBOW NPT



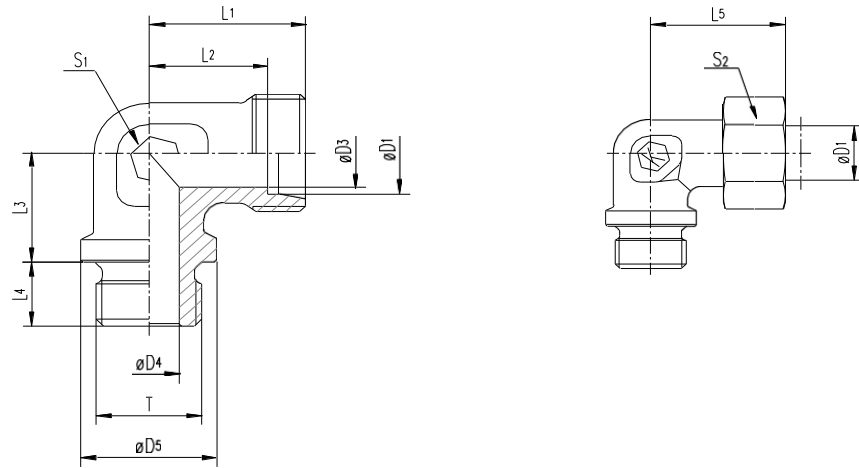
Series	Tube ØD1	T1 (NPT)	D3	D4	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
LL	6	1/8"-27 NPT	4.5	4.5	15	9.5	17	10.0	21	9	12	19	T02-0559	100
	8	1/8"-27 NPT	6.0	5.0	17	11.5	20	10.0	23	12	14	25	T02-0560	100
L	6	1/8"-27 NPT	4.0	4.0	19	12.0	20	10.0	27	12	14	23	T02-0561	315
	6	1/4"-18 NPT	4.0	7.0	21	14.0	26	14.5	29	12	14	36	T02-0562	315
	6	3/8"-18 NPT	4.0	8.0	25	18.0	28	14.5	33	17	14	55	T02-0563	315
	8	1/8"-27 NPT	6.0	4.0	21	14.0	26	10.0	29	12	17	23	T02-0564	315
	8	1/4"-18 NPT	6.0	6.0	21	14.0	26	14.5	29	12	17	27	T02-0565	315
	10	1/4"-18 NPT	8.0	7.0	22	15.0	27	14.5	30	14	19	35	T02-0566	315
	10	3/8"-18 NPT	8.0	8.0	24	17.0	28	14.5	32	17	19	56	T02-0567	315
	12	1/4"-18 NPT	10.0	7.0	24	17.0	28	14.5	32	17	22	56	T02-0568	315
	12	3/8"-18 NPT	10.0	8.0	24	17.0	28	14.5	32	17	22	53	T02-0569	315
	12	1/2"-14 NPT	10.0	11.0	28	21.0	34	19.5	36	19	22	121	T02-0570	315
	15	1/2"-14 NPT	12.0	11.0	28	21.0	34	19.5	36	19	27	121	T02-0571	315
	18	1/2"-14 NPT	15.0	12.0	31	23.5	36	19.5	40	24	32	120	T02-0572	315
	22	3/4"-14 NPT	19.0	16.0	35	27.5	42	19.5	44	27	36	173	T02-0573	160
	28	1"-11½ NPT	24.0	21.0	38	30.5	48	24.5	47	36	41	330	T02-0574	160
	35	1 1/4"-11½ NPT	30.0	28.0	45	34.5	54	25.0	56	41	50	504	T02-0575	160
	42	1 1/2"-11½ NPT	36.0	34.0	51	40.0	61	26.0	63	50	60	880	T02-0576	160
S	6	1/4"-18 NPT	4.0	4.0	23	16.0	26	14.5	31	12	17	40	T02-0577	630
	8	1/4"-18 NPT	5.0	5.0	24	17.0	27	14.5	32	14	19	73	T02-0578	630
	8	3/8"-18 NPT	5.0	8.0	25	18.0	28	14.5	33	17	19	77	T02-0579	630
	8	1/2"-14 NPT	5.0	10.0	30	23.0	34	19.5	38	19	19	75	T02-0580	630
	10	1/4"-18 NPT	7.0	5.0	25	17.5	28	14.5	34	17	22	96	T02-0581	630
	10	3/8"-18 NPT	7.0	7.0	25	17.5	28	14.5	34	17	22	98	T02-0582	630
	12	1/4"-18 NPT	8.0	5.0	29	21.5	29	14.5	38	17	24	73	T02-0583	630
	12	3/8"-18 NPT	8.0	8.0	29	22.5	28	14.5	38	17	24	88	T02-0584	630
	12	1/2"-14 NPT	8.0	10.0	30	22.5	34	19.5	39	19	24	107	T02-0585	630
	14	1/2"-14 NPT	10.0	10.0	30	22.0	34	19.5	40	19	27	103	T02-0586	630
	16	1/2"-14 NPT	12.0	12.0	33	24.5	36	19.5	43	24	30	134	T02-0587	400
	20	3/4"-14 NPT	16.0	16.0	37	26.5	42	19.5	48	27	36	198	T02-0588	400
	25	1"-11½ NPT	20.0	20.0	42	30.0	48	24.5	54	36	46	377	T02-0589	400
	30	1 1/4"-11½ NPT	25.0	25.0	49	35.5	54	25.0	62	41	50	584	T02-0590	400
	38	1 1/2"-11½ NPT	32.0	32.0	57	41.0	61	26.0	72	50	60	1.029	T02-0591	315

MALE STUD ELBOW NPT



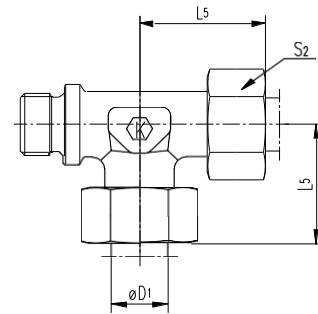
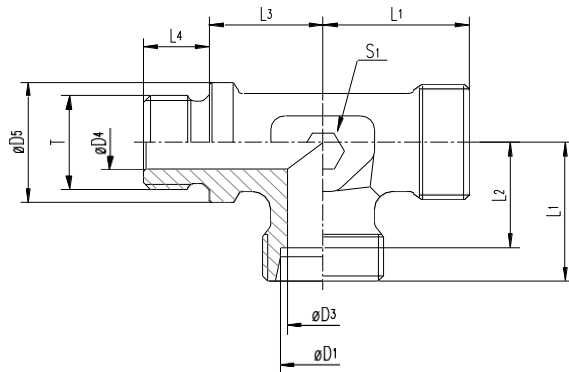
Series	Tube ØD1	T (BSPP)	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	22	G 3/4A	19	18	32	35	27.5	26	16	44	27	36	173	T02-0592	160
	28	G 1A	24	23	39	38	30.5	30	18	47	36	41	313	T02-0593	160
	35	G 1 1/4A	30	30	49	45	34.5	34	20	56	41	50	560	T02-0594	160
	42	G 1 1/2A	36	36	55	51	40.0	39	22	63	50	60	638	T02-0595	160
S	20	G 3/4A	16	16	32	37	26.5	26	16	48	27	36	212	T02-0596	400
	25	G 1A	20	20	39	42	30.0	30	18	54	36	46	398	T02-0597	400
	30	G 1 1/4A	25	25	49	49	35.5	34	20	62	41	50	614	T02-0598	400
	38	G 1 1/2A	32	32	55	57	41.0	39	22	72	50	60	860	T02-0599	315

MALE STUD ELBOW METAL SEALING EDGE METRIC



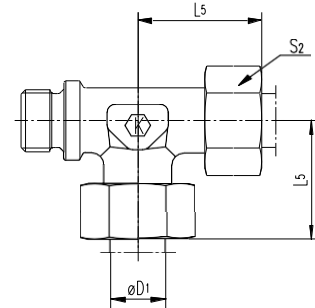
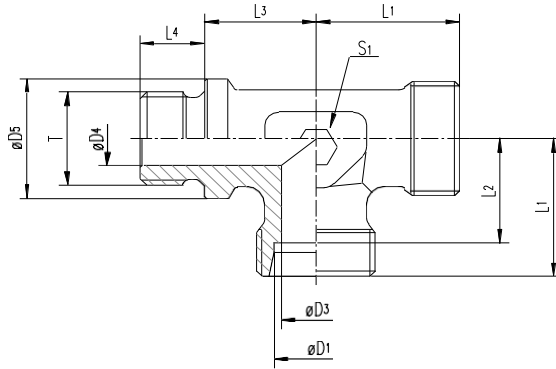
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	22	M26x1.5	19	18	31	35	27.5	26	16	44	27	36	173	T02-0600	160
	28	M33x2	24	23	39	38	30.5	30	18	47	36	41	303	T02-0601	160
	35	M42x2	30	30	49	45	34.5	34	20	56	41	50	469	T02-0602	160
	42	M48x2	36	36	55	51	40.0	39	22	63	50	60	661	T02-0603	160
S	20	M27x2	16	16	32	37	26.5	26	16	48	27	36	208	T02-0604	400
	25	M33x2	20	20	39	42	30.0	30	18	54	36	46	396	T02-0605	400
	30	M42x2	25	25	49	49	35.5	34	20	62	41	50	632	T02-0606	400
	38	M48x2	32	32	55	57	41.0	39	22	72	50	60	907	T02-0607	315

MALE STUD RUN TEE METAL SEALING EDGE BSP



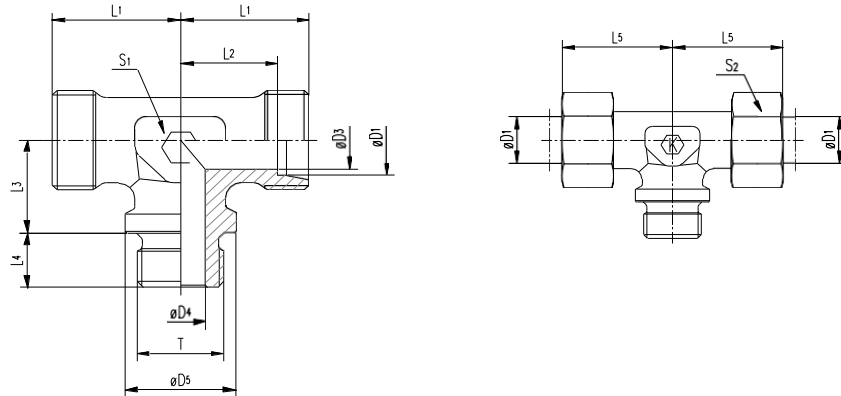
Series	Tube ØD1	T (BSPP)	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	22	G 3/4A	19	18	32	35	27.5	26	16	44	27	36	225	T02-0608	315
	28	G 1A	24	23	39	38	30.5	30	18	47	36	41	358	T02-0609	315
	35	G 1 1/4A	30	30	49	45	34.5	34	20	56	41	50	583	T02-0610	315
	42	G 1 1/2A	36	36	55	51	40.0	39	22	63	50	60	821	T02-0611	315
S	20	G 3/4A	16	16	32	37	26.5	26	16	48	27	36	259	T02-0612	630
	25	G 1A	20	20	39	42	30.0	30	18	54	36	46	495	T02-0613	630
	30	G 1 1/4A	25	25	49	49	35.5	34	20	62	41	50	744	T02-0614	630
	38	G 1 1/2A	32	32	55	57	41.0	39	22	72	50	60	1111	T02-0615	630

MALE STUD RUN TEE METAL SEALING EDGE METRIC



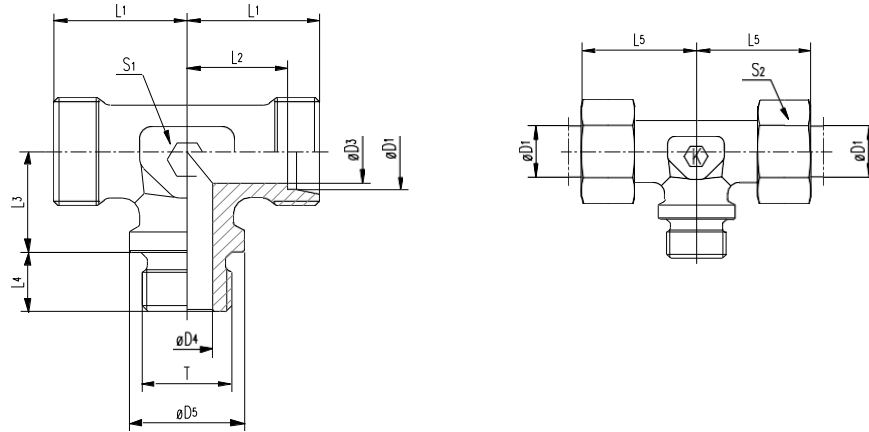
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	22	M26x1.5	19	18	31	35	27.5	26	16	44	27	36	225	T02-0616	315
	28	M33x2	24	23	39	38	30.5	30	18	47	36	41	382	T02-0617	315
	35	M42x2	30	30	49	45	34.5	34	20	56	41	50	583	T02-0618	315
	42	M48x2	36	36	55	51	40.0	39	22	63	50	60	821	T02-0619	315
S	20	M27x2	16	16	32	37	26.5	26	16	48	27	36	264	T02-0620	630
	25	M33x2	20	20	39	42	30.0	30	18	54	36	46	497	T02-0621	630
	30	M42x2	25	25	49	49	35.5	34	20	62	41	50	744	T02-0622	630
	38	M48x2	32	32	55	57	41.0	39	22	72	50	60	1111	T02-0623	630

MALE STUD BRANCH TEE METAL SEALING EDGE BSP



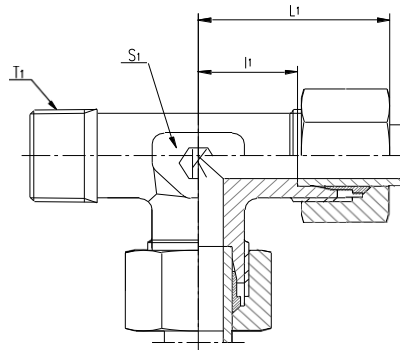
Series	Tube ØD1	T (BSPP)	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	22	G 3/4A	19	18	32	35	27.5	26	16	44	27	36	208	T02-0624	315
	28	G 1A	24	23	39	38	30.5	30	18	47	36	41	378	T02-0625	315
	35	G 1 1/4A	30	30	49	45	34.5	34	20	56	41	50	554	T02-0626	315
	42	G 1 1/2A	36	36	55	51	40.0	39	22	63	50	60	847	T02-0627	315
S	20	G 3/4A	16	16	32	37	26.5	26	16	48	27	36	267	T02-0628	630
	25	G 1A	20	20	39	42	30.0	30	18	54	36	46	485	T02-0629	630
	30	G 1 1/4A	25	25	49	49	35.5	34	20	62	41	50	762	T02-0630	630
	38	G 1 1/2A	32	32	55	57	41.0	39	22	72	50	60	1121	T02-0631	630

MALE STUD BRANCH TEE METAL SEALING EDGE METRIC



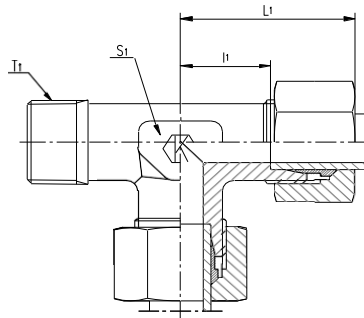
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	22	M26x1.5	19	18	31	35	27.5	26	16	44	27	36	225	T02-0632	315
	28	M33x2	24	23	39	38	30.5	30	18	47	36	41	382	T02-0633	315
	35	M42x2	30	30	49	45	34.5	34	20	56	41	50	583	T02-0634	315
	42	M48x2	36	36	55	51	40.0	39	22	63	50	60	821	T02-0635	315
S	20	M27x2	16	16	32	37	26.5	26	16	48	27	36	264	T02-0636	630
	25	M33x2	20	20	39	42	30.0	30	18	54	36	46	497	T02-0637	630
	30	M42x2	25	25	49	49	35.5	34	20	62	41	50	744	T02-0638	630
	38	M48x2	32	32	55	57	41.0	39	22	72	50	60	1111	T02-0639	630

MALE STUD RUN TEE BSP



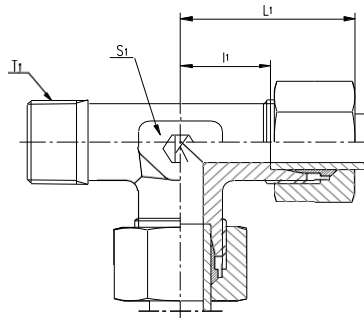
Series	Tube ØD1	T1 (BSPT)	L1	I1	S1	ITEM CODE	PN (bar)
L	6	G 1/8	27	12	12	T02-0640	315
	8	G 1/4	29	14	12	T02-0641	315
	10	G 1/4	30	15	14	T02-0642	315
	12	G 3/8	32	17	17	T02-0643	315
	15	G 1/2	40	25	24	T02-0644	315
	18	G 1/2	40	23.5	24	T02-0645	315
	22	G 3/4	44	27.5	27	T02-0646	160
	28	G 1	47	30.5	36	T02-0647	160
	35	G 1 1/4	56	34.5	41	T02-0648	160
	42	G 1 1/2	63	40	50	T02-0649	160
S	6	G 1/4	31	16	12	T02-0650	630
	8	G 1/4	32	17	14	T02-0651	630
	10	G 3/8	34	17.5	17	T02-0652	630
	12	G 3/8	38	21.5	17	T02-0653	630
	14	G 1/2	40	22	24	T02-0654	630
	16	G 1/2	43	24.5	24	T02-0655	400
	20	G 3/4	48	26.5	27	T02-0656	400
	25	G 1	54	30	36	T02-0657	400
	30	G 1 1/4	62	35.5	41	T02-0658	400
	38	G 1 1/2	72	41	50	T02-0659	315

MALE STUD RUN TEE NPT



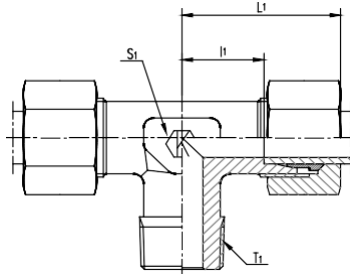
Series	Tube ØD1	T1 (NPT)	L1	I1	S1	ITEM CODE	PN (bar)
L	6	1/8-27 NPT	27	12	12	T02-0660	315
	8	1/4-18 NPT	29	14	12	T02-0661	315
	10	1/4-18 NPT	30	15	14	T02-0662	315
	12	3/8-18 NPT	32	17	17	T02-0663	315
	15	1/2-14 NPT	36	25	24	T02-0664	315
	18	1/2-14 NPT	40	23.5	24	T02-0665	315
	22	3/4-14 NPT	44	27.5	27	T02-0666	160
	28	1-1 1/2 NPT	47	30.5	36	T02-0667	160
	35	1 1/4-1 1/2 NPT	56	34.5	41	T02-0668	160
	42	1 1/2-1 1/2 NPT	63	40	50	T02-0669	160
S	6	1/4-18 NPT	31	16	12	T02-0670	630
	8	1/4-18 NPT	32	17	14	T02-0671	630
	10	3/8-18 NPT	34	17.5	17	T02-0672	630
	12	3/8-18 NPT	38	21.5	17	T02-0673	630
	14	1/2-14 NPT	40	22	24	T02-0674	630
	16	1/2-14 NPT	43	24.5	24	T02-0675	400
	20	3/4-14 NPT	48	26.5	27	T02-0676	400
	25	1-1 1/2 NPT	54	30	36	T02-0677	400
	30	1 1/4-1 1/2 NPT	62	35.5	41	T02-0678	400
	38	1 1/2-1 1/2 NPT	72	41	50	T02-0679	315

MALE STUD RUN TEE METRIC



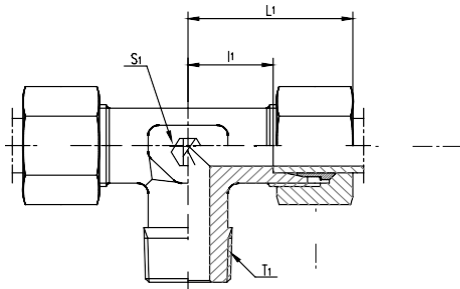
Series	Tube ØD1	T1 (BSPT)	L1	I1	S1	ITEM CODE	PN (bar)
L	6	M10x1	27	12	12	T02-0680	315
	8	M12x1.5	29	14	12	T02-0681	315
	10	M14x1.5	30	15	14	T02-0682	315
	12	M16x1.5	32	17	17	T02-0683	315
	15	M18x1.5	36	25	24	T02-0684	315
	18	M22x1.5	40	23.5	24	T02-0685	315
S	6	M12x1.5	31	16	12	T02-0686	630
	8	M14x1.5	32	17	14	T02-0687	630
	10	M16x1.5	34	17.5	17	T02-0688	630
	12	M18x1.5	38	21.5	17	T02-0689	630
	14	M20x1.5	40	22	24	T02-0690	630
	16	M22x1.5	43	24.5	24	T02-0691	400

MALE STUD BRANCH TEE BSP



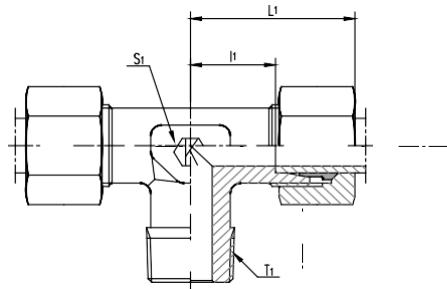
Series	Tube ØD1	T1 (BSPT)	L1	I1	S1	ITEM CODE	PN (bar)
L	6	G 1/8	27	12	12	T02-0692	315
	8	G 1/4	29	14	12	T02-0693	315
	10	G 1/4	30	15	14	T02-0694	315
	12	G 3/8	32	17	17	T02-0695	315
	15	G 1/2	40	25	24	T02-0696	315
	18	G 1/2	40	23.5	24	T02-0697	315
	22	G 3/4	44	27.5	27	T02-0698	160
	28	G 1	47	30.5	36	T02-0699	160
	35	G 1 1/4	56	34.5	41	T02-0700	160
	42	G 1 1/2	63	40	50	T02-0701	160
S	6	G 1/4	31	16	12	T02-0702	630
	8	G 1/4	32	17	14	T02-0703	630
	10	G 3/8	34	17.5	17	T02-0704	630
	12	G 3/8	38	21.5	17	T02-0705	630
	14	G 1/2	40	22	24	T02-0706	630
	16	G 1/2	43	24.5	24	T02-0707	400
	20	G 3/4	48	26.5	27	T02-0708	400
	25	G 1	54	30	36	T02-0709	400
	30	G 1 1/4	62	35.5	41	T02-0710	400
	38	G 1 1/2	72	41	50	T02-0711	315

MALE STUD BRANCH TEE NPT



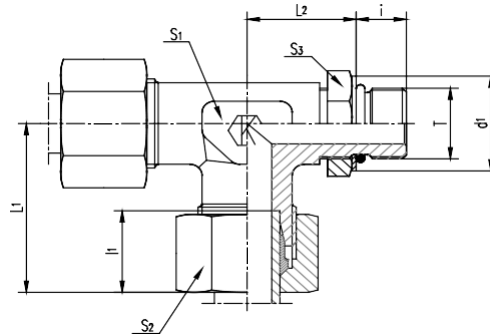
Series	Tube ØD1	T1 (NPT)	L1	I1	S1	ITEM CODE	PN (bar)
L	6	1/8-27 NPT	27	12	12	T02-0712	315
	8	1/4-18 NPT	29	14	12	T02-0713	315
	10	1/4-18 NPT	30	15	14	T02-0714	315
	12	3/8-18 NPT	32	17	17	T02-0715	315
	15	1/2-14 NPT	36	25	24	T02-0716	315
	18	1/2-14 NPT	40	23.5	24	T02-0717	315
	22	3/4-14 NPT	44	27.5	27	T02-0718	160
	28	1-1 1/2 NPT	47	30.5	36	T02-0719	160
	35	1 1/4-1 1/2 NPT	56	34.5	41	T02-0720	160
	42	1 1/2-1 1/2 NPT	63	40	50	T02-0721	160
S	6	1/4-18 NPT	31	16	12	T02-0722	630
	8	1/4-18 NPT	32	17	14	T02-0723	630
	10	3/8-18 NPT	34	17.5	17	T02-0724	630
	12	3/8-18 NPT	38	21.5	17	T02-0725	630
	14	1/2-14 NPT	40	22	24	T02-0726	630
	16	1/2-14 NPT	43	24.5	24	T02-0727	400
	20	3/4-14 NPT	48	26.5	27	T02-0728	400
	25	1-1 1/2 NPT	54	30	36	T02-0729	400
	30	1 1/4-1 1/2 NPT	62	33.5	41	T02-0730	400
	38	1 1/2-1 1/2 NPT	72	41	50	T02-0731	315

MALE STUD BRANCH TEE METRIC



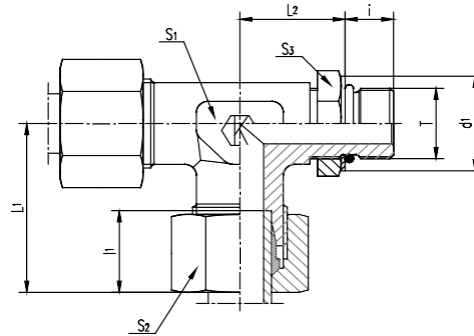
Series	Tube ØD1	T1 (BSPT)	L1	l1	S1	ITEM CODE	PN (bar)
L	6	M10x1	27	12	12	T02-0732	315
	8	M12x1.5	29	14	12	T02-0733	315
	10	M14x1.5	30	15	14	T02-0734	315
	12	M16x1.5	32	17	17	T02-0735	315
	15	M18x1.5	36	21	19	T02-0736	315
	18	M22x1.5	40	23.5	24	T02-0737	315
S	6	M12x1.5	31	16	12	T02-0738	630
	8	M14x1.5	32	17	14	T02-0739	630
	10	M16x1.5	34	17.5	17	T02-0740	630
	12	M18x1.5	38	21.5	17	T02-0741	630
	14	M20x1.5	40	22	19	T02-0742	630
	16	M22x1.5	43	24.5	24	T02-0743	400

ADJUSTABLE LOCKNUT RUN TEE BSP



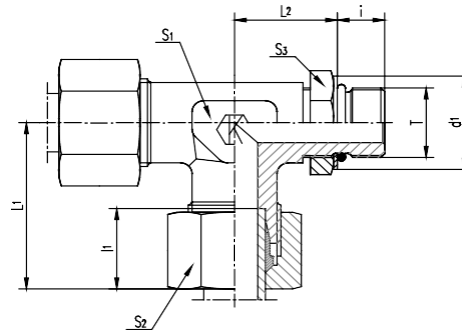
Series	Tube ØD1	T (BSPP)	L1	L1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	G 1/8	27	12	20	7	15	12	14	14	OR 8.1x1.6	T02-0744	315
	8	G 1/4	29	14	22	10	18	12	17	17	OR 11.3x2.2	T02-0745	315
	10	G 1/4	30	15	25	10	20	14	19	19	OR 11.3x2.2	T02-0746	315
	12	G 3/8	32	17	26	10	23	17	22	22	OR 13.3x2.2	T02-0747	315
	15	G 1/2	36	21	30	11	28	19	27	27	OR 19.3x2.2	T02-0748	315
	18	G 1/2	40	23.5	33	12	28	24	32	27	OR 19.3x2.2	T02-0749	250
	22	G 3/4	44	27.5	35	14	33	27	36	32	OR 23.6x2.9	T02-0750	160
	28	G 1	47	30.5	38	14	41	36	41	41	OR 29.6x2.9	T02-0751	160
	35	G 1 1/4	56	34.5	48	14	51	41	50	50	OR 38.6x2.9	T02-0752	160
	42	G 1 1/2	63	40	49	16	56	50	60	55	OR 44.6x2.9	T02-0753	160
S	6	G 1/4	31	16	22	10	18	12	17	17	OR 11.3x2.2	T02-0754	315
	8	G 1/4	32	17	26	10	20	14	19	19	OR 11.3x2.2	T02-0755	315
	10	G 3/8	34	17.5	27	11	23	17	22	22	OR 13.3x2.2	T02-0756	315
	12	G 3/8	38	21.5	31	12	25	19	24	24	OR 13.3x2.2	T02-0757	315
	14	G 1/2	40	22	35	14	28	19	27	27	OR 19.3x2.2	T02-0758	250
	16	G 1/2	43	24.5	35	14	28	24	30	27	OR 19.3x2.2	T02-0759	250
	20	G 3/4	48	26.5	39	16	33	27	36	32	OR 23.6x2.9	T02-0760	250
	25	G 1	54	30	44	16	41	36	46	41	OR 29.6x2.9	T02-0761	200
	30	G 1 1/4	62	35.5	51	17	51	41	50	50	OR 38.6x2.9	T02-0762	200
	38	G 1 1/2	72	41	54	19	56	50	60	55	OR 44.6x2.9	T02-0763	160

ADJUSTABLE LOCKNUT RUN TEE METRIC



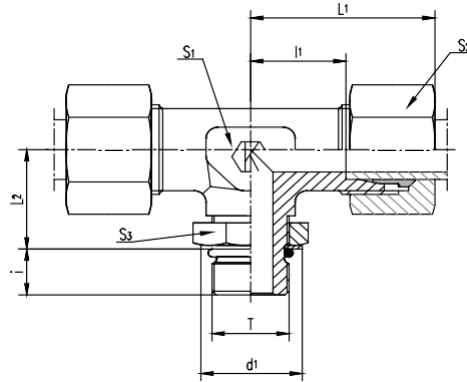
Series	Tube ØD1	T	L1	L	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	M10x1	27	12	20	7	15	12	14	14	OR 8.1x1.6	T02-0764	315
	8	M12x1.5	29	14	22	10	18	12	17	17	OR 9.3x2.2	T02-0765	315
	10	M14x1.5	30	15	25	10	20	14	19	19	OR 11.3x2.2	T02-0766	315
	12	M16x1.5	32	17	26	10	23	17	22	22	OR 13.3x2.2	T02-0767	315
	15	M18x1.5	36	21	30	11	25	19	27	24	OR 15.3x2.2	T02-0768	315
	18	M22x1.5	40	23.5	33	12	28	24	32	27	OR 19.3x2.2	T02-0769	250
	22	M26x1.5	44	27.5	35	14	33	27	36	32	OR 23.6x2.9	T02-0770	160
	28	M33x2	47	30.5	38	14	41	36	41	41	OR 29.6x2.9	T02-0771	160
	35	M42x2	56	34.5	48	14	51	41	50	50	OR 38.6x2.9	T02-0772	160
	42	M48x2	63	40	49	16	56	50	60	55	OR 44.6x2.9	T02-0773	160
S	6	M12x1.5	31	16	22	10	18	12	17	17	OR 9.3x2.2	T02-0774	315
	8	M14x1.5	32	17	26	10	20	14	19	19	OR 11.3x2.2	T02-0775	315
	10	M16x1.5	34	17.5	27	11	23	17	22	22	OR 13.3x2.2	T02-0776	315
	12	M18x1.5	38	21.5	31	12	25	19	24	24	OR 15.3x2.2	T02-0777	315
	14	M20x1.5	40	22	35	14	28	19	27	27	OR 19.3x2.2	T02-0778	250
	16	M22x1.5	43	24.5	35	14	28	24	30	27	OR 19.3x2.2	T02-0779	250
	20	M27x2	48	26.5	39	16	33	27	36	32	OR 23.6x2.9	T02-0780	250
	25	M33x2	54	30	44	16	41	36	46	41	OR 29.6x2.9	T02-0781	200
	30	M42x2	62	35.5	51	17	51	41	50	50	OR 38.6x2.9	T02-0782	200
	38	M48x2	72	41	54	19	56	50	60	55	OR 44.6x2.9	T02-0783	160

ADJUSTABLE LOCKNUT RUN TEE UN/UNF



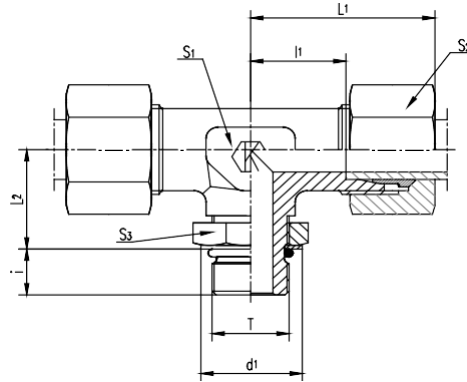
Series	Tube ØD1	T	L1	I1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	7/16-20 UNF 2A	27	12	19	10	16.5	12	14	14	OR 9.17x1.83	T02-0784	315
	8	7/16-20 UNF 2A	29	14	19	10	18.5	12	17	14	OR 9.17x1.83	T02-0785	315
	10	9/16-18 UNF 2A	30	15	24	10	20.2	14	19	17	OR 11.89x1.98	T02-0786	315
	12	3/4-16 UNF 2A	32	17	25	13	25.7	17	22	22	OR 16.36x2.21	T02-0787	315
	15	7/8-14 UNF 2A	36	21	28	15	29.3	19	27	27	OR 19.18x2.46	T02-0788	315
	18	7/8-14 UNF 2A	40	23.5	32	15	29.3	24	32	27	OR 19.18x2.46	T02-0789	250
	22	1 1/16-12 UN 2A	44	27.5	35	17	36.7	27	36	32	OR 23.47x2.95	T02-0790	160
	28	1 5/16-12 UN 2A	47	30.5	42	17	44	36	41	41	OR 29.74x2.95	T02-0791	160
	35	1 5/8-12 UN 2A	56	34.5	46	17	55	41	50	50	OR 37.47x3	T02-0792	160
	42	1 7/8-12 UN 2A	63	40	47	17	55	50	60	55	OR 43.69x3	T02-0793	160
S	6	7/16-20 UNF 2A	31	16	20	12	16.5	12	17	14	OR 9.17x1.83	T02-0794	315
	8	9/16-18 UNF 2A	32	17	25	12	18.3	14	19	17	OR 11.89x1.98	T02-0795	315
	10	9/16-18 UNF 2A	34	17.5	26	12	20.2	17	22	17	OR 11.89x1.98	T02-0796	315
	12	3/4-16 UNF 2A	38	21.5	30	14	25.7	19	24	22	OR 16.36x2.21	T02-0797	315
	14	7/8-14 UNF 2A	40	22	28	15	29	19	27	27	OR 19.18x2.46	T02-0798	250
	16	7/8-14 UNF 2A	43	24.5	34	16	29	24	30	27	OR 19.18x2.46	T02-0799	250
	20	1 1/16-12 UN 2A	48	26.5	37	19	37	27	36	32	OR 23.47x2.95	T02-0800	250
	25	1 5/16-12 UN 2A	54	30	50	19	44	36	46	41	OR 29.74x2.95	T02-0801	200
	30	1 5/8-12 UN 2A	62	35.5	50	19	55	41	50	50	OR 37.47x3	T02-0802	200
	38	1 7/8-12 UN 2A	72	41	51	19	55	50	60	55	OR 43.69x3	T02-0803	160

ADJUSTABLE LOCKNUT BRANCH TEE BSP



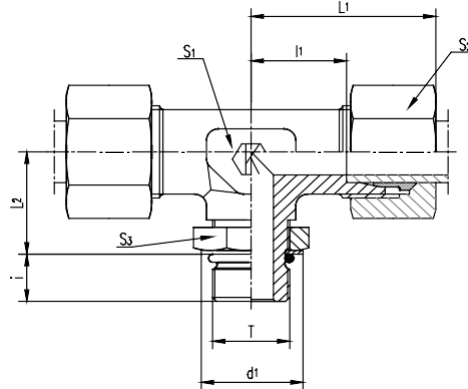
Series, 8	Tube ØD1	T (BSPP)	L1	l1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	G 1/8	27	12	20	7	15	12	14	14	OR 8.1x1.6	T02-0804	315
	8	G 1/4	29	14	22	10	18	12	17	17	OR 11.3x2.2	T02-0805	315
	10	G 1/4	30	15	25	10	20	14	19	19	OR 11.3x2.2	T02-0806	315
	12	G 3/8	32	17	26	10	23	17	22	22	OR 13.3x2.2	T02-0807	315
	15	G 1/2	36	21	30	11	25	19	27	24	OR 19.3x2.2	T02-0808	315
	18	G 1/2	40	23.5	33	12	28	24	32	27	OR 19.3x2.2	T02-0809	250
	22	G 3/4	44	27.5	35	14	33	27	36	32	OR 23.6x2.9	T02-0810	160
	28	G 1	47	30.5	38	14	41	36	41	41	OR 29.6x2.9	T02-0811	160
	35	G 1 1/4	56	34.5	48	14	51	41	50	50	OR 38.6x2.9	T02-0812	160
	42	G 1 1/2	63	40	49	16	56	50	60	55	OR 44.6x2.9	T02-0813	160
S	6	G 1/4	31	16	22	10	18	12	17	17	OR 11.3x2.2	T02-0814	315
	8	G 1/4	32	17	26	10	20	14	19	19	OR 11.3x2.2	T02-0815	315
	10	G 3/8	34	17.5	27	11	23	17	22	22	OR 13.3x2.2	T02-0816	315
	12	G 3/8	38	21.5	31	12	25	19	24	24	OR 13.3x2.2	T02-0817	315
	14	G 1/2	40	22	35	14	28	19	27	27	OR 19.3x2.2	T02-0818	250
	16	G 1/2	43	24.5	35	14	28	24	30	27	OR 19.3x2.2	T02-0819	250
	20	G 3/4	48	26.5	39	16	33	27	36	32	OR 23.6x2.9	T02-0820	250
	25	G 1	54	30	44	16	41	36	46	41	OR 29.6x2.9	T02-0821	200
	30	G 1 1/4	62	35.5	51	17	51	41	50	50	OR 38.6x2.9	T02-0822	200
	38	G 1 1/2	72	41	54	19	56	50	60	55	OR 44.6x2.9	T02-0823	160

ADJUSTABLE LOCKNUT BRANCH TEE METRIC



Series	Tube ØD1	T	L1	l1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN(bar)
L	6	M10x1	27	12	20	7	15	12	14	14	OR 8.1x1.6	T02-0824	315
	8	M12x1.5	29	14	22	10	18	12	17	17	OR 9.3x2.2	T02-0825	315
	10	M14x1.5	30	15	25	10	20	14	19	19	OR 11.3x2.2	T02-0826	315
	12	M16x1.5	32	17	26	10	23	17	22	22	OR 13.3x2.2	T02-0827	315
	15	M18x1.5	36	21	30	11	25	19	27	24	OR 15.3x2.2	T02-0828	315
	18	M22x1.5	40	23.5	33	12	28	24	32	27	OR 19.3x2.2	T02-0829	250
	22	M26x1.5	44	27.5	35	14	33	27	36	32	OR 23.6x2.9	T02-0830	160
	28	M33x2	47	30.5	38	14	41	36	41	41	OR 29.6x2.9	T02-0831	160
	35	M42x2	56	34.5	48	14	51	41	50	50	OR 38.6x2.9	T02-0832	160
	42	M48x2	63	40	49	16	56	50	60	55	OR 44.6x2.9	T02-0833	160
S	6	M12x1.5	31	16	22	10	18	12	17	17	OR 9.3x2.2	T02-0834	315
	8	M14x1.5	32	17	26	10	20	14	19	19	OR 11.3x2.2	T02-0835	315
	10	M16x1.5	34	17.5	27	11	23	17	22	22	OR 13.3x2.2	T02-0836	315
	12	M18x1.5	38	21.5	31	12	25	19	24	24	OR 15.3x2.2	T02-0837	315
	14	M20x1.5	40	22	35	14	28	19	27	27	OR 19.3x2.2	T02-0838	250
	16	M22x1.5	43	24.5	35	14	28	24	30	27	OR 19.3x2.2	T02-0839	250
	20	M27x2	48	26.5	39	16	33	27	36	32	OR 23.6x2.9	T02-0840	250
	25	M33x2	54	30	44	16	41	36	46	41	OR 29.6x2.9	T02-0841	200
	30	M42x2	62	35.5	51	17	51	41	50	50	OR 38.6x2.9	T02-0842	200
	38	M48x2	72	41	54	19	56	50	60	55	OR 44.6x2.9	T02-0843	160

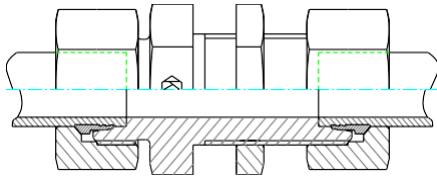
ADJUSTABLE LOCKNUT BRANCH TEE UN/UNF



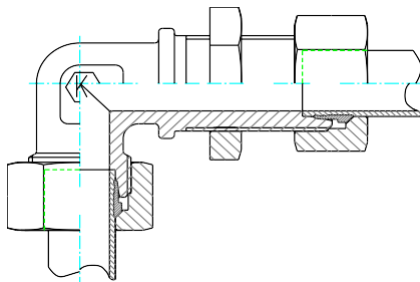
Series	Tube ØD1	T (UN/UNF)	L1	l1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	7/16-20 UNF 2A	27	12	19	10	16.5	12	14	14	OR 9.17x1.83	T02-0844	315
	8	7/16-20 UNF 2A	29	14	19	10	18.3	12	17	14	OR 9.17x1.83	T02-0845	315
	10	9/16-18 UNF 2A	30	15	24	10	20.2	14	19	17	OR 11.89x1.98	T02-0846	315
	12	3/4-16 UNF 2A	32	17	25	13	25.7	17	22	22	OR 16.36x2.21	T02-0847	315
	15	7/8-14 UNF 2A	36	21	28	15	29.3	19	27	27	OR 19.18x2.46	T02-0848	315
	18	7/8-14 UNF 2A	40	23.5	32	15	29.3	24	32	27	OR 19.18x2.46	T02-0849	250
	22	1 1/16-12 UN 2A	44	27.5	35	17	36.7	27	36	32	OR 23.47x2.95	T02-0850	160
	28	1 5/16-12 UN 2A	47	30.5	42	17	44	36	41	41	OR 29.74x2.95	T02-0851	160
	35	1 5/8-12 UN 2A	56	34.5	46	17	55	41	50	50	OR 37.47x3	T02-0852	160
	42	1 7/8-12 UN 2A	63	40	47	17	55	50	60	55	OR 43.69x3	T02-0853	160
S	6	7/16-20 UNF 2A	31	16	20	12	16.5	12	17	14	OR 9.17X1.83	T02-0854	315
	8	9/16-18 UNF 2A	32	17	25	12	18.3	14	19	17	OR 11.89x1.98	T02-0855	315
	10	9/16-18 UNF 2A	34	17.5	26	12	20.2	17	22	17	OR 11.89x1.98	T02-0856	315
	12	3/4-16 UNF 2A	38	21.5	30	14	25.7	19	24	22	OR 16.36x2.21	T02-0857	315
	14	7/8-14 UNF 2A	40	22	28	15	29.3	19	27	27	OR 19.18x2.46	T02-0858	250
	16	7/8-14 UNF 2A	43	24.5	34	16	29.3	24	30	27	OR 19.18x2.46	T02-0859	250
	20	1 1/16-12 UN 2A	48	26.5	37	19	36.7	27	36	32	OR 23.47x2.95	T02-0860	250
	25	1 5/16-12 UN 2A	54	30	50	19	44	36	46	41	OR 29.74x2.95	T02-0861	200
	30	1 5/8-12 UN 2A	62	35.5	50	19	55	41	50	50	OR 37.47x3	T02-0862	200
	38	1 7/8-12 UN 2A	72	41	51	19	55	50	60	55	OR 43.69x3	T02-0863	160

BULKHEAD COUPLINGS

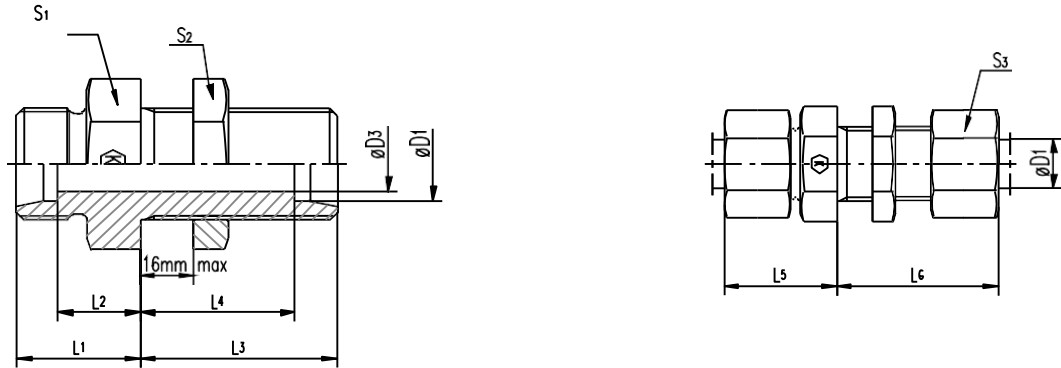
Bulkhead Union



Bulkhead Elbow

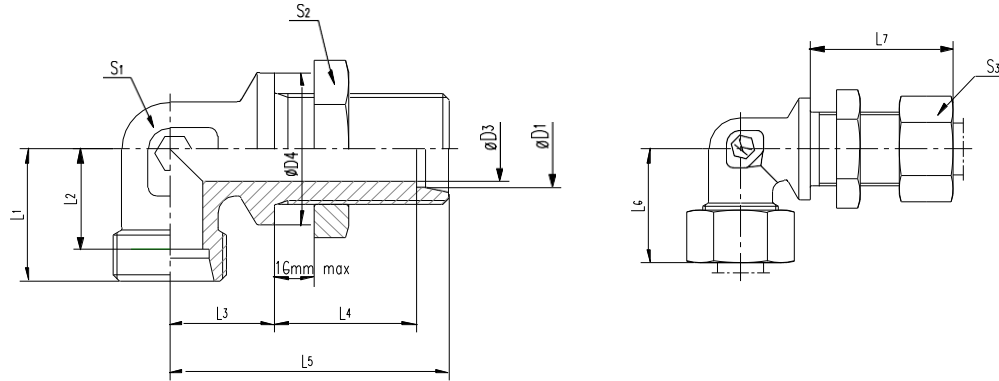


BULKHEAD UNION



Series	Tube ØD1	D3	L1	L2	L3	L4	L5	L6	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	14	7.0	34	27.0	22	42	17	17	14	39	T02-0864	315
	8	6.0	15	8.0	34	27.0	23	42	19	19	17	49	T02-0865	315
	10	8.0	17	10.0	35	28.0	25	43	22	22	19	67	T02-0866	315
	12	10.0	17	10.0	36	29.0	25	44	24	24	22	77	T02-0867	315
	15	12.0	19	12.0	38	31.0	27	46	27	30	27	136	T02-0868	315
	18	15.0	21	13.5	40	32.5	30	49	32	36	32	198	T02-0869	315
	22	19.0	24	16.5	42	34.5	33	51	36	41	36	244	T02-0870	160
	28	24.0	26	18.5	43	35.5	35	52	41	46	41	339	T02-0871	160
	35	30.0	29	18.5	47	36.5	40	58	50	55	50	546	T02-0872	160
	42	36.0	30	19.0	47	36.0	42	59	60	65	60	744	T02-0873	160
S	6	4.0	19	12.0	36	29.0	27	44	19	19	17	65	T02-0874	630
	8	5.0	20	13.0	36	29.0	28	44	22	22	19	87	T02-0875	630
	10	7.0	22	14.5	37	29.5	31	46	24	24	22	110	T02-0876	630
	12	8.0	22	14.5	38	30.5	31	47	27	27	24	139	T02-0877	630
	14	10.0	25	17.0	40	32.0	35	50	30	30	27	180	T02-0878	630
	16	12.0	25	16.5	40	31.5	35	50	32	32	30	201	T02-0879	400
	20	16.0	28	17.5	44	33.5	39	55	41	41	36	343	T02-0880	400
	25	20.0	32	20.0	47	35.0	44	59	46	46	46	495	T02-0881	400
	30	25.0	35	21.5	51	37.5	48	64	50	50	50	633	T02-0882	400
	38	32.0	38	22.0	53	37.0	53	68	65	65	60	1107	T02-0883	315

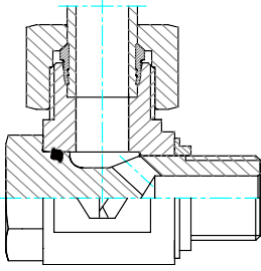
BULKHEAD ELBOW



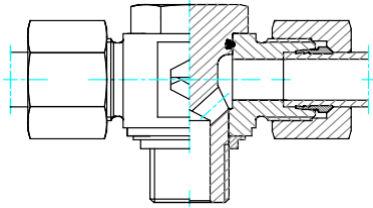
Series	Tube ØD1	D3	D4	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	17	19	12.0	14	27.0	48	27	42	12	17	14	51	T02-0884	315
	8	6.0	19	21	14.0	17	27.0	51	29	42	12	19	17	61	T02-0885	315
	10	8.0	22	22	15.0	18	28.0	53	30	43	14	22	19	95	T02-0886	315
	12	10.0	24	24	17.0	20	29.0	56	32	44	17	24	22	99	T02-0887	315
	15	12.0	27	28	21.0	23	31.0	61	36	46	19	30	27	161	T02-0888	315
	18	15.0	32	31	23.5	24	32.5	64	40	49	24	36	32	237	T02-0889	315
	22	19.0	36	35	27.5	30	34.5	72	44	51	27	41	36	303	T02-0890	160
	28	24.0	42	38	30.5	34	35.5	77	47	52	36	46	41	467	T02-0891	160
	35	30.0	50	45	34.5	39	36.5	86	56	58	41	55	50	709	T02-0892	160
	42	36.0	60	51	40.0	43	36.0	90	63	59	50	65	60	1035	T02-0893	160
S	6	4.0	19	23	16.0	17	29.0	53	31	44	12	19	17	72	T02-0894	630
	8	5.0	22	24	17.0	18	29.0	54	32	44	14	22	19	106	T02-0895	630
	10	7.0	24	25	17.5	20	29.5	57	34	46	17	24	22	123	T02-0896	630
	12	8.0	27	29	21.5	21	30.5	59	38	47	17	27	24	173	T02-0897	630
	14	10.0	27	30	22.0	23	32.0	63	40	50	19	30	27	187	T02-0898	630
	16	12.0	30	33	24.5	24	31.5	64	43	50	24	32	30	239	T02-0899	400
	20	16.0	36	37	26.5	30	33.5	74	48	55	27	41	36	387	T02-0900	400
	25	20.0	42	42	30.0	34	35.0	81	54	59	36	46	46	616	T02-0901	400
	30	25.0	50	49	35.5	39	37.5	90	62	64	41	50	50	863	T02-0902	400
	38	32.0	60	57	41.0	43	37.0	96	72	68	50	65	60	1396	T02-0903	315

BANJO FITTINGS

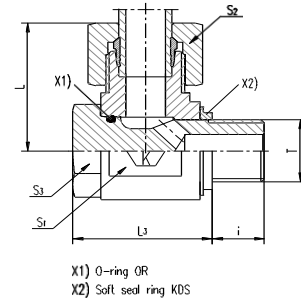
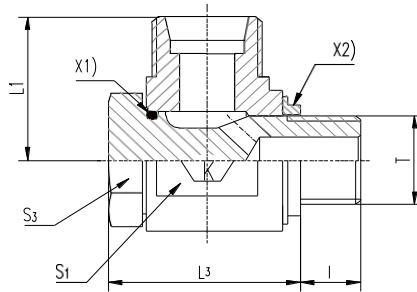
Male Stud Banjo Elbow



High Pressure Banjo Fittings

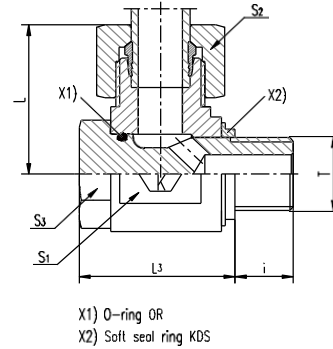
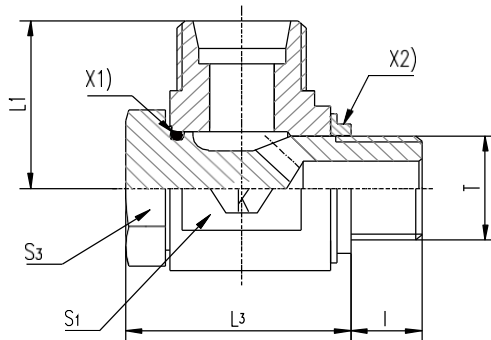


MALE STUD BANJO ELBOW BSP



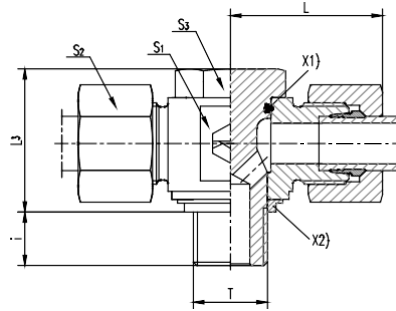
Series	Tube ØD1	T	i	L1	L	L3	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
	6	G 1/8A	8	21	27.5	26.5	23	12	14	OR 8.5x1.5	T02-0904	100
	8	G 1/8A	8	22	28.5	26.5	23	14	14	OR 8.5x1.5	T02-0905	100
L	6	G 1/8A	8	23	30.5	26.5	23	14	14	OR 8.5x1.5	T02-0906	250
	6	G 1/4A	12	23	30.5	28	23	14	19	OR 11x2	T02-0907	250
	8	G 1/4A	12	23	31	28	23	17	19	OR 11x2	T02-0908	250
	10	G 1/4A	12	23	31	28	23	19	19	OR 11x2	T02-0909	250
	10	G 3/8A	12	26.5	34	33.5	28	19	22	OR 14.5x2	T02-0910	250
	12	G 3/8A	12	26.5	34	33.5	28	22	22	OR 14.5x2	T02-0911	250
	15	G 1/2A	14	33	41	44	36	27	27	OR 19.5x2	T02-0912	250
	18	G 1/2A	14	33	42.5	44	36	32	27	OR 19.5x2	T02-0913	160
	22	G 3/4A	16	41	50	48	45	36	32	OR 26x1.5	T02-0914	160
	28	G 1A	18	44	53	59	50	41	41	OR 31x2	T02-0915	160
	35	G 1 1/4A	20	50	61	70	60	50	50	OR 40x2	T02-0916	160
	42	G 1 1/2A	22	53.5	65.5	80	70	60	55	OR 46x2	T02-0917	160
S	6	G 1/4A	12	23	31	26.5	23	17	19	OR 11x2	T02-0918	250
	8	G 1/4A	12	23	31	26.5	23	19	19	OR 11x2	T02-0919	250
	10	G 3/8A	12	26.5	35	33.5	28	22	22	OR 14.5x2	T02-0920	250
	12	G 3/8A	12	26.5	35	33.5	28	24	22	OR 14.5x2	T02-0921	250
	14	G 1/2A	14	33	43	44	36	27	27	OR 19.5x2	T02-0922	250
	16	G 1/2A	14	33	43	44	36	30	27	OR 19.5x2	T02-0923	160
	20	G 3/4A	16	42	53	48	45	36	32	OR 26x1.5	T02-0924	160
	25	G 1A	18	47	59	59	50	46	41	OR 31x2	T02-0925	160
	30	G 1 1/4A	20	50	63	70	60	50	50	OR 40x2	T02-0926	160
	38	G 1 1/2A	22	53.5	68.5	80	70	60	55	OR 46x2	T02-0927	160

MALE STUD BANJO ELBOW METRIC



Series	Tube ØD1	T	i	L1	L	L3	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
LL	6	M 10x1	8	21	27.5	26.5	23	12	14	OR 8.5x1.5	T02-0928	100
	8	M 10x1	8	22	28.5	26.5	23	14	14	OR 8.5x1.5	T02-0929	100
L	6	M 10x1	8	23	30.5	26.5	23	14	14	OR 8.5x1.5	T02-0930	250
	8	M 12x1.5	12	23	31	28	23	17	19	-	T02-0931	250
	10	M 14x1.5	12	23	31	28	23	19	19	OR 11x2	T02-0932	250
	12	M 16x1.5	12	26.5	34	33.5	28	22	22	OR 14.5x2	T02-0933	250
	15	M 18x1.5	14	33	41	44	36	27	22	OR 14.5x2	T02-0934	250
	18	M 22x1.5	14	33	42.5	44	36	32	27	OR 19.5x2	T02-0935	160
	22	M 26x1.5	16	41	50	48	45	36	32	OR 26x1.5	T02-0936	160
	28	M 33x2	18	44	53	59	50	41	41	OR 31x2	T02-0937	160
	35	M 42x2	20	50	61	70	60	50	50	OR 40x2	T02-0938	160
	42	M 48x2	22	53.5	65.5	80	70	60	55	OR 46X2	T02-0939	160
	6	M 12x1.5	12	23	31	26.5	23	17	19	-	T02-0940	250
S	8	M 14x1.5	12	23	31	26.5	23	19	19	OR 11x2	T02-0941	250
	10	M 16x1.5	12	26.5	35	33.5	28	22	22	OR 14.5x2	T02-0942	250
	12	M 18x1.5	12	26.5	35	33.5	28	24	22	OR 14.5x2	T02-0943	250
	14	M 20x1.5	14	33	43	44	36	27	27	-	T02-0944	250
	16	M 22x1.5	14	33	43	44	36	30	27	OR 19.5x2	T02-0945	160
	20	M 27x2	16	42	53	48	45	36	32	OR 26x1.5	T02-0946	160
	25	M 33x2	18	44	59	59	50	46	41	OR 31x2	T02-0947	160
	30	M 42x2	20	50	63	70	60	50	50	OR 40x2	T02-0948	160
	38	M 48x2	22	53.5	68.5	80	70	60	55	OR 46X2	T02-0949	160

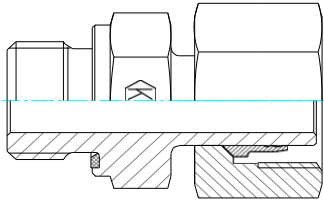
HIGH PRESSURE BANJO TEE



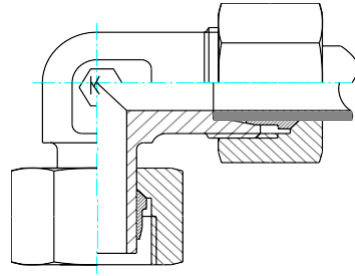
Series	Tube ØD1	T	i	L	L3	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
LL	6	G 1/8A	8	27	24	17	12	14	OR 8.5x1.5	T02-0950	100
	8	G 1/8A	8	27	24	17	14	14	OR 8.5x1.5	T02-0951	100
L	6	G 1/8A	8	27	24	17	14	14	OR 8.5x1.5	T02-0952	315
	8	G 1/4A	12	29	30	22	17	19	OR 11x2	T02-0953	315
	10	G 1/4A	12	30	30	22	19	19	OR 11x2	T02-0954	315
	12	G 3/8A	12	33	36	27	22	22	OR 14.5x2	T02-0955	315
	15	G 1/2A	14	37	45	32	27	27	OR 19.5x2	T02-0956	315
	18	G 1/2A	14	37	45	32	32	27	OR 19.5x2	T02-0957	160
	22	G 3/4A	16	44	53	41	36	32	OR 26x1.5	T02-0958	160
	28	G 1A	18	49	66	50	41	41	OR 31x2	T02-0959	160
	35	G 1 1/4A	20	58	76	60	50	50	OR 40x2	T02-0960	160
	42	G 1 1/2A	22	63	87	70	60	55	OR 46X2	T02-0961	160
	6	G 1/4A	12	31	30	22	17	19	OR 11x2	T02-0962	400
S	8	G 1/4A	12	31	30	22	19	19	OR 11x2	T02-0963	400
	10	G 3/8A	12	35	36	27	22	22	OR 14.5x2	T02-0964	400
	12	G 3/8A	12	35	36	27	24	22	OR 14.5x2	T02-0965	400
	14	G 1/2A	14	40	45	32	27	27	OR 19.5x2	T02-0966	400
	16	G 1/2A	14	40	45	32	30	27	OR 19.5x2	T02-0967	400
	20	G 3/4A	16	48	53	41	36	32	OR 26x1.5	T02-0968	400
	25	G 1A	18	56	66	50	46	41	OR 31x2	T02-0969	250
	30	G 1 1/4A	20	64	76	60	50	50	OR 40x2	T02-0970	250
	38	G 1 1/2A	22	72	87	70	60	55	OR 46X2	T02-0971	250

STANDPIPE COUPLINGS

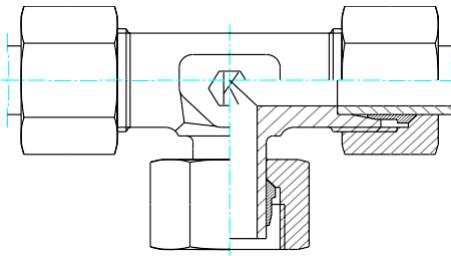
Standpipe Connector



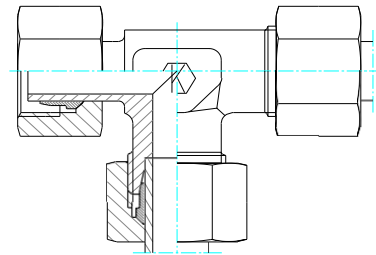
Standpipe Elbow



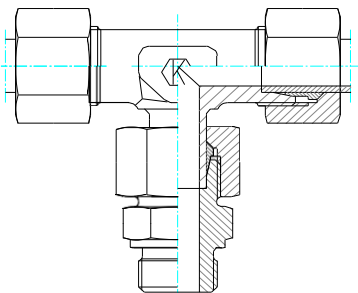
Standpipe Branch Tee



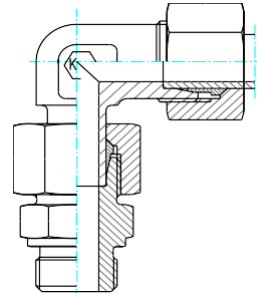
Standpipe Barrel Tee



**Assembled Adjustable Standpipe
Branch Tee**

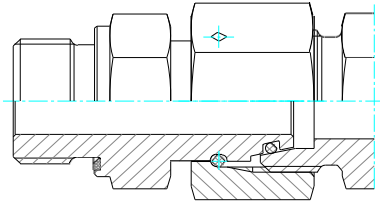


**Assembled Adjustable Standpipe
Elbow**

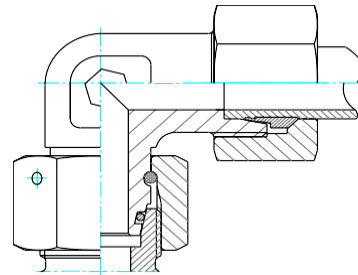


STANPIPIE COUPLINGS

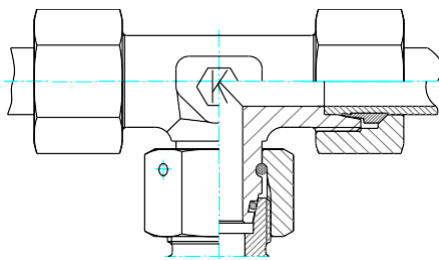
Swivel Connector



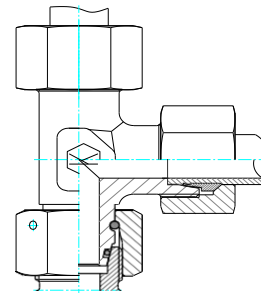
Swivel Nut Elbow



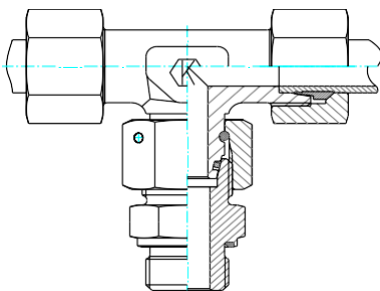
Swivel Nut Branch Tee



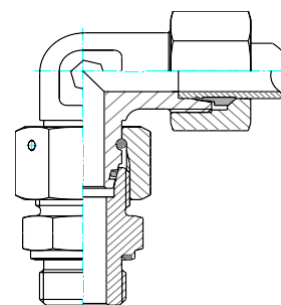
Swivel Nut Run Tee



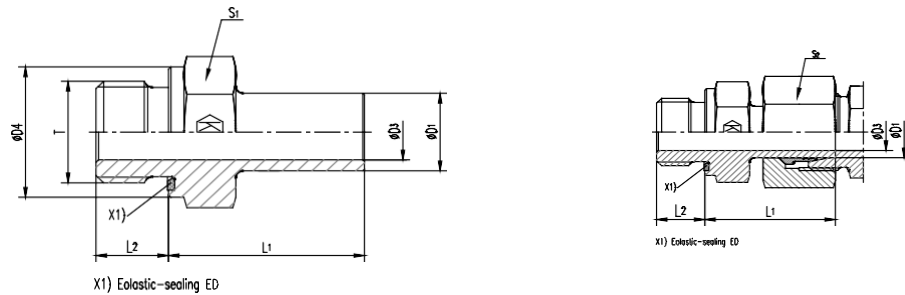
**Assembled Adjustable Swivel
Branch Tee**



**Assembled Adjustable Swivel
Nut Elbow**

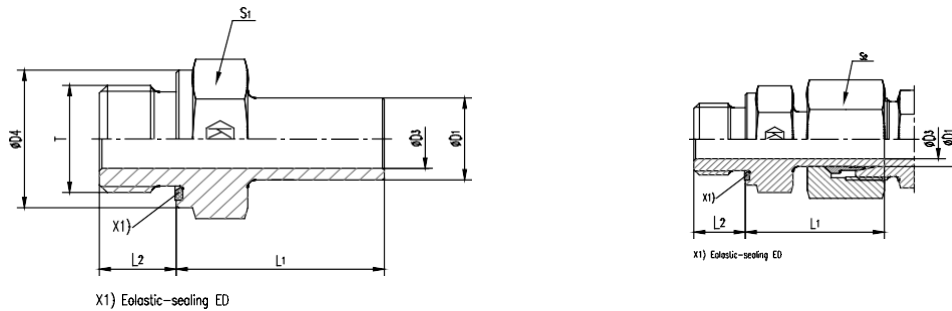


STANDPIPE CONNECTOR ED-SEAL MALE BSP



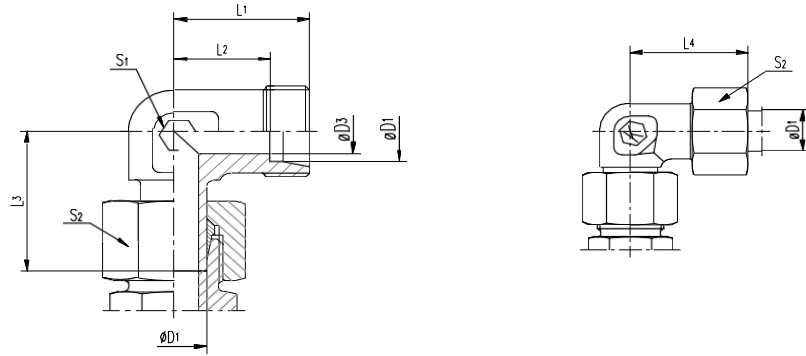
Series	Tube ØD1	T	D3	D4	L1	L2	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8 A	3.5	14	24.5	8	14	14	24	T02-0972	250
	8	G 1/4 A	4.5	19	29.5	12	19	17	52	T02-0973	250
	10	G 1/4 A	7.0	19	27.5	12	19	19	47	T02-0974	250
	12	G 3/8 A	7.5	22	34.0	12	22	22	87	T02-0975	250
	12	G 1/4 A	7.0	19	28.5	12	19	22	61	T02-0976	250
	12	G 1/2 A	7.5	27	34.5	14	27	22	121	T02-0977	250
	15	G 1/2 A	11.0	27	31.0	14	27	27	114	T02-0978	250
	18	G 1/2 A	14.0	27	31.5	14	27	32	132	T02-0979	250
	22	G 3/4 A	18.0	32	32.5	16	32	36	183	T02-0980	160
	28	G 1 A	23.0	40	35.0	18	41	41	262	T02-0981	160
	35	G 1 1/4 A	29.5	50	42.5	20	50	50	436	T02-0982	160
	42	G 1 1/2 A	35.5	55	46.5	22	55	60	615	T02-0983	160
S	6	G 1/4 A	3.5	19	27.0	12	19	17	48	T02-0984	630
	8	G 1/4 A	4.5	19	29.5	12	19	19	57	T02-0985	630
	10	G 3/8 A	6.5	22	32.0	12	22	22	84	T02-0986	630
	12	G 3/8 A	7.5	22	34.0	12	22	24	95	T02-0987	630
	12	G 1/2 A	7.5	27	34.5	14	27	24	130	T02-0988	630
	14	G 1/2 A	9.5	27	36.5	14	27	27	149	T02-0989	630
	16	G 1/2 A	11.5	27	37.0	14	27	30	158	T02-0990	400
	16	G 3/4 A	11.5	32	39.0	16	32	30	222	T02-0991	400
	20	G 3/4 A	15.5	32	43.0	16	32	36	254	T02-0992	400
	25	G 1 A	18.0	40	48.0	18	41	46	485	T02-0993	400
	30	G 1 1/4 A	23.5	50	51.0	20	50	50	661	T02-0994	400
	38	G 1 1/2 A	29.0	55	60.0	22	55	60	962	T02-0995	315

STANDPIPE CONNECTOR ED-SEAL MALE METRIC



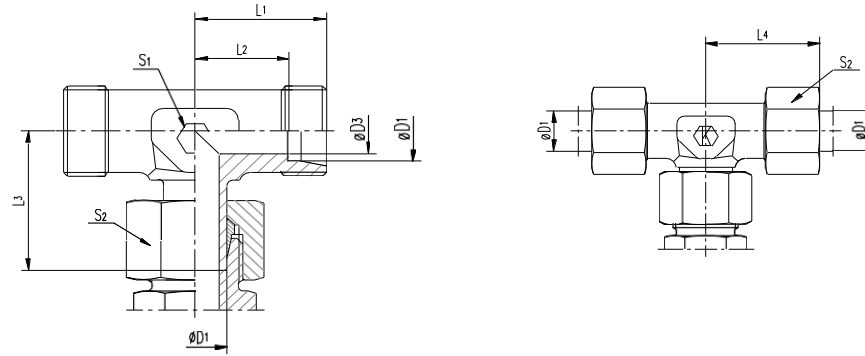
Series	Tube ØD1	T	D3	D4	L1	L2	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M10x1	3.5	14	24.5	8	14	14	24	T02-0996	315
	8	M12x1.5	5.5	17	26.5	12	17	17	38	T02-0997	315
	10	M14x1.5	7.0	19	27.5	12	19	19	49	T02-0998	315
	12	M16x1.5	9.0	22	30.0	12	22	22	67	T02-0999	315
	15	M18x1.5	11.0	24	30.5	12	24	27	95	T02-1000	315
	18	M22x1.5	14.0	27	31.5	14	27	32	137	T02-1001	315
	22	M26x1.5	18.0	32	32.5	16	32	36	183	T02-1002	160
	28	M33x2	23.0	40	35.0	18	41	41	264	T02-1003	160
	35	M42x2	29.5	50	42.5	20	50	50	444	T02-1004	160
	42	M48x2	35.5	55	46.5	22	55	60	614	T02-1005	160
S	6	M12x1.5	3.5	17	27.0	12	17	17	43	T02-1006	630
	8	M14x1.5	4.5	19	29.5	12	19	19	59	T02-1007	630
	10	M16x1.5	6.5	22	32.0	12	22	22	82	T02-1008	630
	12	M18x1.5	7.5	24	34.0	12	24	24	104	T02-1009	630
	14	M20x1.5	9.5	26	36.5	14	27	27	144	T02-1010	630
	16	M22x1.5	11.5	27	37.0	14	27	30	162	T02-1011	400
	20	M27x2	15.5	32	43.0	16	32	36	254	T02-1012	400
	25	M33x2	18.0	40	48.0	18	41	46	493	T02-1013	400
	30	M42x2	23.5	50	51.0	20	50	50	654	T02-1014	400
	38	M48x2	29.0	55	60.0	22	55	60	962	T02-1015	315

STANDPIPE ELBOW



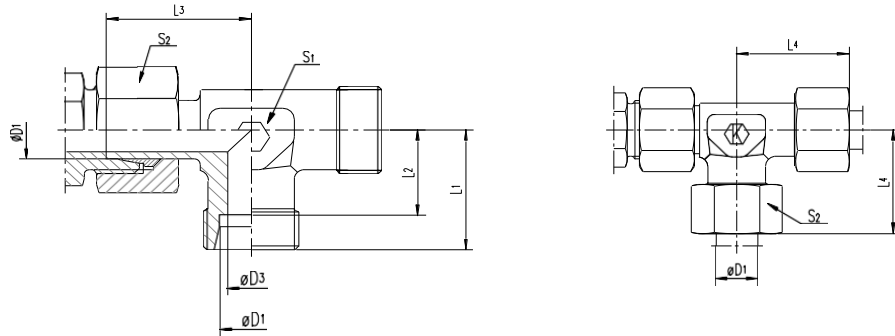
Series	Tube ØD1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	19	12.0	26.0	27	12	14	32	T02-1016	315
	8	6.0	21	14.0	27.5	29	12	17	40	T02-1017	315
	10	8.0	22	15.0	29.0	30	14	19	54	T02-1018	315
	12	10.0	24	17.0	29.5	32	17	22	76	T02-1019	315
	15	12.0	28	21.0	32.5	36	19	27	119	T02-1020	315
	18	15.0	31	23.5	35.5	40	24	32	192	T02-1021	315
	22	19.0	35	27.5	38.5	44	27	36	355	T02-1022	160
	28	24.0	38	30.5	42.0	47	36	41	514	T02-1023	160
	35	30.0	45	34.5	51.0	56	41	50	536	T02-1024	160
	42	36.0	51	40.0	60.0	63	50	60	977	T02-1025	160
S	6	4.0	23	16.0	27.0	31	12	17	44	T02-1026	630
	8	5.0	24	17.0	27.5	32	14	19	63	T02-1027	630
	10	7.0	25	17.5	31.0	34	17	22	95	T02-1028	630
	12	8.0	29	21.5	31.0	38	17	24	110	T02-1029	630
	14	10.0	30	22.0	35.0	40	19	27	137	T02-1030	630
	16	12.0	33	24.5	37.5	43	24	30	211	T02-1031	400
	20	16.0	37	26.5	44.5	48	27	36	306	T02-1032	400
	25	20.0	42	30.0	50.0	54	36	46	558	T02-1033	400
	30	25.0	49	35.5	55.0	62	41	50	724	T02-1034	400
	38	32.0	57	41.0	66.5	72	50	60	1307	T02-1035	315

STANDPIPE ELBOW



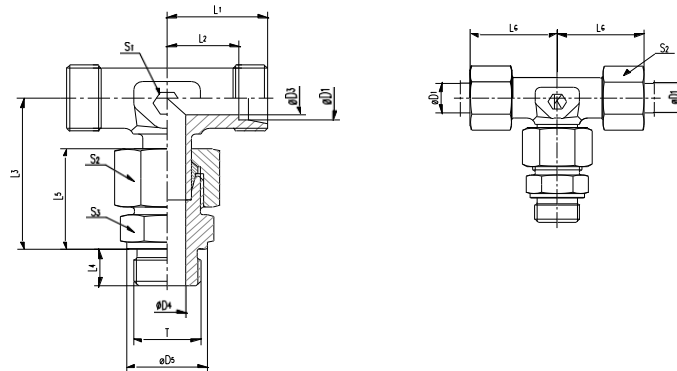
Series	Tube ØD1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	19	12.0	26.0	27	12	14	37	T02-1036	315
	8	6.0	21	14.0	27.5	29	12	17	49	T02-1037	315
	10	8.0	22	15.0	29.0	30	14	19	66	T02-1038	315
	12	10.0	24	17.0	30.5	32	17	22	93	T02-1039	315
	15	12.0	28	21.0	32.5	36	19	27	146	T02-1040	315
	18	15.0	31	23.5	35.5	40	24	32	201	T02-1041	315
	22	19.0	35	27.5	38.5	44	27	36	274	T02-1042	160
	28	24.0	38	30.5	43.5	47	36	41	441	T02-1043	160
	35	30.0	45	34.5	54.5	56	41	50	633	T02-1044	160
	42	36.0	51	40.0	60.0	63	50	60	1129	T02-1045	160
S	6	4.0	23	16.0	27.0	31	12	17	61	T02-1046	630
	8	5.0	24	17.0	29.0	32	14	19	44	T02-1047	630
	10	7.0	25	17.5	31.0	34	17	22	84	T02-1048	630
	12	8.0	29	21.5	33.0	38	17	24	131	T02-1049	630
	14	10.0	30	22.0	35.0	40	19	27	173	T02-1050	630
	16	12.0	33	24.5	37.5	43	24	30	240	T02-1051	400
	20	16.0	37	26.5	44.5	48	27	36	345	T02-1052	400
	25	20.0	42	30.0	50.5	54	36	46	647	T02-1053	400
	30	25.0	49	35.5	56.5	62	41	50	873	T02-1054	400
	38	32.0	57	41.0	66.5	72	50	60	1361	T02-1055	315

STANDPIPE RUN TEE



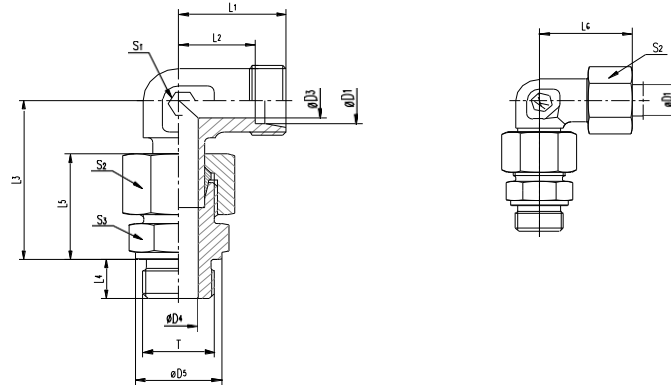
Series	Tube ØD1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	19	12.0	26.0	27	12	14	40	T02-1056	315
	8	6.0	21	14.0	27.5	29	12	17	50	T02-1057	315
	10	8.0	22	15.0	29.0	30	14	19	64	T02-1058	315
	12	10.0	24	17.0	30.5	32	17	22	93	T02-1059	315
	15	12.0	28	21.0	32.5	36	19	27	147	T02-1060	315
	18	15.0	31	23.5	35.5	40	24	32	229	T02-1061	315
	22	19.0	35	27.5	39.0	44	27	36	296	T02-1062	160
	28	24.0	38	30.5	43.5	47	36	41	416	T02-1063	160
	35	30.0	45	34.5	54.5	56	41	50	661	T02-1064	160
	42	36.0	51	40.0	60.0	63	50	60	1105	T02-1065	160
S	6	4.0	23	16.0	27.0	31	12	17	57	T02-1066	630
	8	5.0	24	17.0	29.0	32	14	19	84	T02-1067	630
	10	7.0	25	17.5	32.0	34	17	22	116	T02-1068	630
	12	8.0	29	21.5	33.0	38	17	24	137	T02-1069	630
	14	10.0	30	22.0	35.0	40	19	27	175	T02-1070	630
	16	12.0	33	24.5	37.5	43	24	30	259	T02-1071	400
	20	16.0	37	26.5	44.5	48	27	36	371	T02-1072	400
	25	20.0	42	30.0	50.5	54	36	46	647	T02-1073	400
	30	25.0	49	35.5	56.5	62	41	50	906	T02-1074	400
	38	32.0	57	41.0	66.5	72	50	60	1549	T02-1075	315

ASSEMBLED ADJUSTABLE STANDPIPE BRANCH TEE MALE BSP



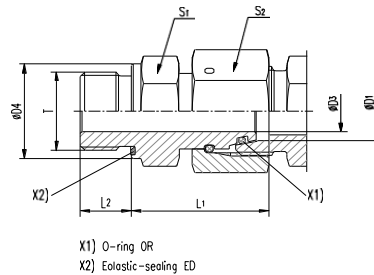
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	L6	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	4.0	4.0	14	19	12.0	34.5	8	23	27	12	14	14	48	T02-1076	315
	8	G 1/4A	6.0	6.0	18	21	14.0	37.5	12	25	29	12	17	19	73	T02-1077	315
	10	G 1/4A	8.0	6.0	18	22	15.0	40.0	12	26	30	14	19	19	85	T02-1078	315
	12	G 3/8A	10.0	9.0	22	24	17.0	43.0	12	27	32	17	22	22	118	T02-1079	315
	15	G 1/2A	12.0	11.0	26	28	21.0	46.5	14	29	36	19	27	27	206	T02-1080	315
	18	G 1/2A	15.0	14.0	26	31	23.5	50.0	14	31	40	24	32	27	267	T02-1081	315
	22	G 3/4A	19.0	18.0	32	35	27.5	55.5	16	33	44	27	36	32	367	T02-1082	160
	28	G 1A	24.0	23.0	39	38	30.5	61.0	18	34	47	36	41	41	565	T02-1083	160
	35	G 1 1/4A	30.0	30.0	49	45	34.5	72.0	20	39	56	41	50	50	901	T02-1084	160
	42	G 1 1/2A	36.0	36.0	55	51	40.0	79.0	22	42	63	50	60	55	1277	T02-1085	160
S	6	G 1/4A	4.0	4.0	18	23	16.0	40.0	12	28	31	12	17	19	90	T02-1086	630
	8	G 1/4A	5.0	5.0	18	24	17.0	44.0	12	30	32	14	19	19	116	T02-1087	630
	10	G 3/8A	7.0	7.0	22	25	17.5	47.0	12	31	34	17	22	22	151	T02-1088	630
	12	G 3/8A	8.0	8.0	22	29	21.5	50.0	12	33	38	17	24	22	190	T02-1089	630
	14	G 1/2A	10.0	10.0	26	30	22.0	54.0	14	37	40	19	27	27	265	T02-1090	630
	16	G 1/2A	12.0	12.0	26	33	24.5	55.0	14	37	43	24	30	27	322	T02-1091	400
	20	G 3/4A	16.0	16.0	32	37	26.5	65.0	16	42	48	27	36	32	500	T02-1092	400
	25	G 1A	20.0	20.0	39	42	30.0	73.5	18	47	54	36	46	41	905	T02-1093	400
	30	G 1 1/4A	25.0	25.0	49	49	35.5	80.0	20	50	62	41	50	50	1275	T02-1094	400
	38	G 1 1/2A	32.0	32.0	55	57	41.0	92.5	22	57	72	50	60	55	1920	T02-1095	315

ASSEMBLED ADJUSTABLE STANDPIPE ELBOW MALE BSP



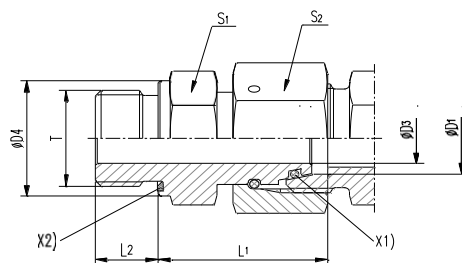
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	L6	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	4.0	4.0	14	19	12.0	34.5	8	23	27	12	14	14	47	T02-1096	315
	8	G 1/4A	6.0	6.0	18	21	14.0	37.5	12	25	29	12	17	19	68	T02-1097	315
	10	G 1/4A	8.0	6.0	18	22	15.0	40.0	12	26	30	14	19	19	84	T02-1098	315
	12	G 3/8A	10.0	9.0	22	24	17.0	42.0	12	27	32	17	22	22	118	T02-1099	315
	15	G 1/2A	12.0	11.0	26	28	21.0	46.5	14	29	36	19	27	27	191	T02-1100	315
	18	G 1/2A	15.0	14.0	26	31	23.5	50.0	14	31	40	24	32	27	260	T02-1101	315
	22	G 3/4A	19.0	18.0	32	35	27.5	55.0	16	33	44	27	36	32	355	T02-1102	160
	28	G 1A	24.0	23.0	39	38	30.5	59.5	18	34	47	36	41	41	542	T02-1103	160
	35	G 1 1/4A	30.0	30.0	49	45	34.5	68.5	20	39	56	41	50	50	832	T02-1104	160
	42	G 1 1/2A	36.0	36.0	55	51	40.0	79.0	22	42	63	50	60	55	1303	T02-1105	160
S	6	G 1/4A	4.0	4.0	18	23	16.0	40.0	12	28	31	12	17	19	79	T02-1106	630
	8	G 1/4A	5.0	5.0	18	24	17.0	42.5	12	30	32	14	19	19	98	T02-1107	630
	10	G 3/8A	7.0	7.0	22	25	17.5	46.0	12	31	34	17	22	22	148	T02-1108	630
	12	G 3/8A	8.0	8.0	22	29	21.5	48.0	12	33	38	17	24	22	169	T02-1109	630
	14	G 1/2A	10.0	10.0	26	30	22.0	54.0	14	37	40	19	27	27	230	T02-1110	630
	16	G 1/2A	12.0	12.0	26	33	24.5	56.0	14	37	43	24	30	27	304	T02-1111	400
	20	G 3/4A	16.0	16.0	32	37	26.5	65.0	16	42	48	27	36	32	428	T02-1112	400
	25	G 1A	20.0	20.0	39	42	30.0	73.0	18	47	54	36	46	41	825	T02-1113	400
	30	G 1 1/4A	25.0	25.0	49	49	35.5	78.5	20	50	62	41	50	50	1134	T02-1114	400
	38	G 1 1/2A	32.0	32.0	55	57	41.0	92.5	22	57	72	50	60	55	1713	T02-1115	315

SWIVEL CONNECTOR ED-SEAL MALE BSP



Series	Tube ØD1	T	D3	D4	L1	L2	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8 A	2.5	14	24,5	8	14	14	27	T02-1116	500
	8	G 1/4 A	4.0	19	29,5	12	19	17	28	T02-1117	500
	10	G 1/4 A	6.0	19	27,5	12	19	19	54	T02-1118	500
	10	G 3/8 A	6.0	22	29.0	12	22	19	70	T02-1119	400
	12	G 3/8 A	8.0	22	34.0	12	22	22	95	T02-1120	400
	12	G 1/4 A	6.0	19	27.5	12	19	22	65	T02-1121	400
	12	G 1/2 A	8.0	27	29.5	14	27	22	114	T02-1122	400
	15	G 1/2 A	10.0	27	32.0	14	27	27	137	T02-1123	400
	18	G 1/2 A	13.0	27	31.5	14	27	32	143	T02-1124	400
	18	G 3/4 A	13.0	32	29.5	16	32	32	182	T02-1125	250
	22	G 3/4 A	17.0	32	32.5	16	32	36	200	T02-1126	250
	28	G 1 A	22.0	40	35.0	18	41	41	289	T02-1127	250
	35	G 1 1/4 A	28.0	50	42.5	20	50	50	500	T02-1128	250
	42	G 1 1/2 A	34.0	55	46.5	22	55	60	718	T02-1129	250
S	6	G 1/4 A	2.5	19	27.0	12	19	17	53	T02-1130	800
	8	G 1/4 A	4.0	19	29.5	12	19	19	64	T02-1131	800
	10	G 3/8 A	6.0	22	32.0	12	22	22	93	T02-1132	800
	12	G 3/8 A	8.0	22	34.0	12	22	24	100	T02-1133	630
	12	G 1/4 A	5.0	19	31.5	12	19	24	140	T02-1134	630
	12	G 1/2 A	8.0	27	35.0	14	27	24	140	T02-1135	630
	14	G 1/2 A	9.0	27	36.5	14	27	27	157	T02-1136	630
	16	G 1/2 A	11.0	27	37.0	14	27	30	170	T02-1137	630
	20	G 3/4 A	14.0	32	43.0	16	32	36	273	T02-1138	420
	25	G 1 A	18.0	40	48.0	18	41	46	493	T02-1139	420
	30	G 1 1/4 A	23.0	50	51.0	20	50	50	691	T02-1140	420
	38	G 1 1/2 A	30.0	55	60.0	22	55	60	934	T02-1141	420

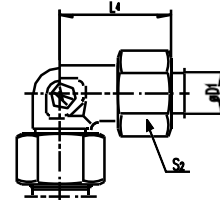
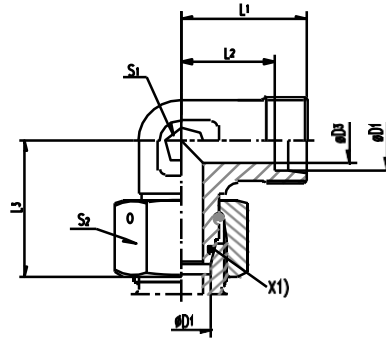
SWIVEL CONNECTOR ED-SEAL MALE METRIC



X1) O-ring OR
X2) Elastic-sealing ED

Series	Tube ØD1	T	D3	D4	L1	L2	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M10x1	2.5	14	24.5	8	14	14	27	T02-1142	315
	8	M12x1.5	4.0	17	26.5	12	17	17	45	T02-1143	315
	10	M14x1.5	6.0	19	27.5	12	19	19	57	T02-1144	315
	12	M16x1.5	8.0	22	30.5	12	22	22	82	T02-1145	315
	12	M22x1.5	8.0	27	27.0	14	27	22	92	T02-1146	315
	15	M18x1.5	10.0	24	31.5	12	24	27	113	T02-1147	315
	15	M22x1.5	10.0	27	32.0	14	27	27	142	T02-1148	315
	18	M22x1.5	13.0	27	31.5	14	27	32	148	T02-1149	315
	22	M26x1.5	17.0	32	32.5	16	32	36	203	T02-1150	160
	28	M33x2	22.0	40	35.0	18	41	41	289	T02-1151	160
	35	M42x2	28.0	50	42.5	20	50	50	511	T02-1152	160
	42	M48x2	34.0	55	46.5	22	55	60	711	T02-1153	160
S	6	M12x1.5	2.5	17	27.0	12	17	17	47	T02-1154	630
	8	M14x1.5	4.0	19	29.5	12	19	19	65	T02-1155	630
	10	M16x1.5	6.0	22	32.0	12	22	22	91	T02-1156	630
	12	M18x1.5	8.0	24	34.0	12	24	24	112	T02-1157	630
	14	M20x1.5	9.0	26	36.5	14	27	27	153	T02-1158	630
	16	M22x1.5	11.0	27	37.0	14	27	30	174	T02-1159	400
	20	M27x2	14.0	32	43.0	16	32	36	274	T02-1160	400
	25	M33x2	18.0	40	48.0	18	41	46	497	T02-1161	400
	30	M42x2	23.0	50	51.0	20	50	50	691	T02-1162	400
	38	M48x2	30.0	55	60.0	22	55	60	957	T02-1163	315

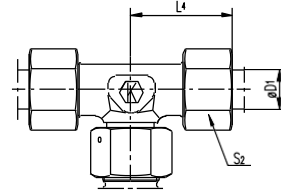
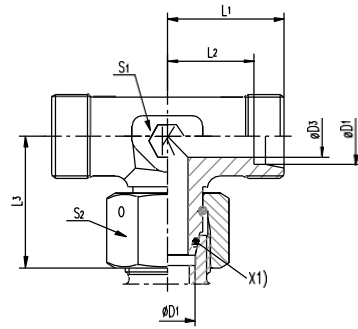
SWIVEL NUT ELBOW



X1) O-ring OR

Series	Tube ØD1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	19	12.0	26.0	27	12	14	33	T02-1164	315
	8	6.0	21	14.0	27.5	29	12	17	41	T02-1165	315
	10	8.0	22	15.0	29.0	30	14	19	52	T02-1166	315
	12	10.0	24	17.0	29.5	32	17	22	68	T02-1167	315
	15	12.0	28	21.0	32.5	36	19	27	120	T02-1168	315
	18	15.0	31	23.5	35.5	40	24	32	170	T02-1169	315
	22	19.0	35	27.5	38.5	44	27	36	225	T02-1170	160
	28	24.0	38	30.5	41.5	47	36	41	346	T02-1171	160
	35	30.0	45	34.5	51.0	56	41	50	529	T02-1172	160
	42	36.0	51	40.0	56.0	63	50	60	801	T02-1173	160
S	6	4.0	23	16.0	27.0	31	12	17	48	T02-1174	630
	8	5.0	24	17.0	27.5	32	14	19	60	T02-1175	630
	10	7.0	25	17.5	30.0	34	17	22	83	T02-1176	630
	12	8.0	29	21.5	31.0	38	17	24	116	T02-1177	630
	14	10.0	30	22.0	35.0	40	19	27	177	T02-1178	630
	16	12.0	33	24.5	36.5	43	24	30	188	T02-1179	400
	20	16.0	37	26.5	44.5	48	27	36	299	T02-1180	400
	25	20.0	42	30.0	50.0	54	36	46	550	T02-1181	400
	30	25.0	49	35.5	55.0	62	41	50	738	T02-1182	400
	38	32.0	57	41.0	63.0	72	50	60	1119	T02-1183	315

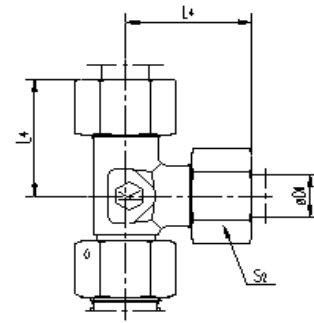
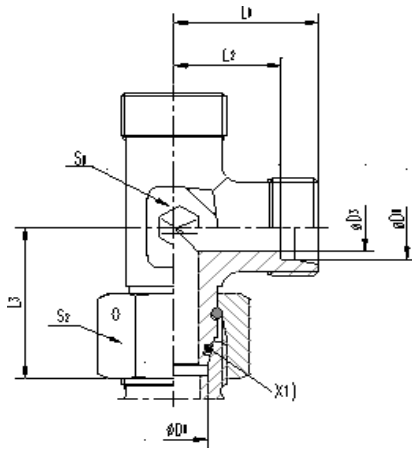
SWIVEL NUT BRANCH TEE



X1) O-ring OR

Series	Tube ØD1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	19	12.0	26.0	27	12	14	42	T02-1184	315
	8	6.0	21	14.0	27.5	29	12	17	50	T02-1185	315
	10	8.0	22	15.0	29.0	30	17	19	84	T02-1186	315
	12	10.0	24	17.0	29.5	32	17	22	86	T02-1187	315
	15	12.0	28	21.0	32.5	36	19	27	143	T02-1188	315
	18	15.0	31	23.5	35.5	40	24	32	206	T02-1189	315
	22	19.0	35	27.5	38.5	44	27	36	298	T02-1190	160
	28	24.0	38	30.5	41.5	47	36	41	410	T02-1191	160
	35	30.0	45	34.5	51.0	56	41	50	679	T02-1192	160
	42	36.0	51	40.0	56.0	63	50	60	932	T02-1193	160
S	6	4.0	23	16.0	27.0	31	12	17	63	T02-1194	630
	8	5.0	24	17.0	27.5	32	17	19	79	T02-1195	630
	10	7.0	25	17.5	30.0	34	17	22	100	T02-1196	630
	12	8.0	29	21.5	31.0	38	17	24	149	T02-1197	630
	14	10.0	30	22.0	35.0	40	19	27	222	T02-1198	630
	16	12.0	33	24.5	36.5	43	24	30	236	T02-1199	400
	20	16.0	37	26.5	44.5	48	27	36	350	T02-1200	400
	25	20.0	42	30.0	50.0	54	36	46	646	T02-1201	400
	30	25.0	49	35.5	55.0	62	41	50	873	T02-1202	400
	38	32.0	57	41.0	63.0	72	50	60	1328	T02-1203	315

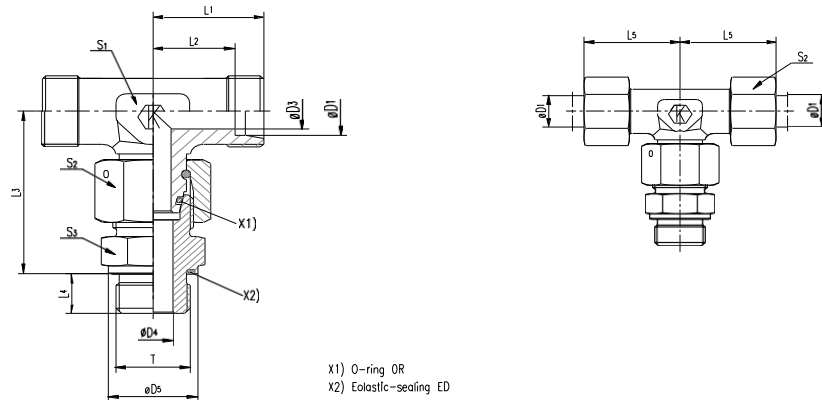
SWIVEL NUT RUN TEE



X1) O-ring OR

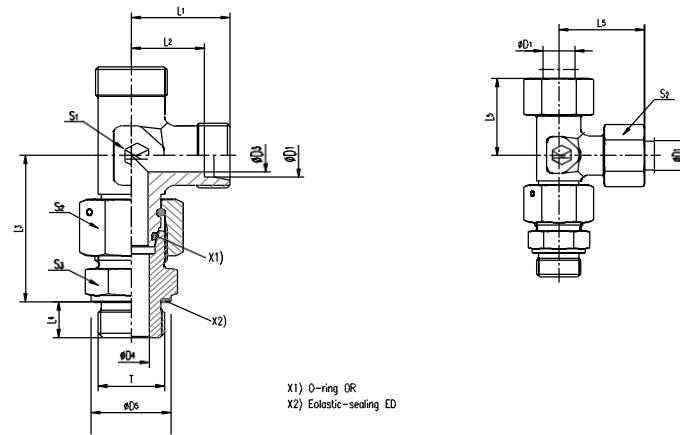
Series	Tube ØD1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	4.0	19	12.0	26.0	27	12	14	43	T02-1204	315
	8	6.0	21	14.0	27.5	29	12	17	49	T02-1205	315
	10	8.0	22	15.0	29.0	30	17	19	78	T02-1206	315
	12	10.0	24	17.0	29.5	32	17	22	81	T02-1207	315
	15	12.0	28	21.0	32.5	36	19	27	141	T02-1208	315
	18	15.0	31	23.5	35.5	40	24	32	203	T02-1209	315
	22	19.0	35	27.5	38.5	44	27	36	267	T02-1210	160
	28	24.0	38	30.5	41.5	47	36	41	408	T02-1211	160
	35	30.0	45	34.5	51.0	56	41	50	616	T02-1212	160
	42	36.0	51	40.0	56.0	63	50	60	920	T02-1213	160
S	6	4.0	23	16.0	27.0	31	12	17	65	T02-1214	630
	8	5.0	24	17.0	27.5	32	17	19	91	T02-1215	630
	10	7.0	25	17.5	30.0	34	17	22	105	T02-1216	630
	12	8.0	29	21.5	31.0	38	17	24	150	T02-1217	630
	14	10.0	30	22.0	35.0	40	19	27	222	T02-1218	630
	16	12.0	33	24.5	36.5	43	24	30	229	T02-1219	400
	20	16.0	37	26.5	44.5	48	27	36	346	T02-1220	400
	25	20.0	42	30.0	50.0	54	36	46	643	T02-1221	400
	30	25.0	49	35.5	55.0	62	41	50	872	T02-1222	400
	38	32.0	57	41.0	63.0	72	50	60	1328	T02-1223	315

ASSEMBLED ADJUSTABLE SWIVEL BRANCH TEE ED-SEAL MALE BSP



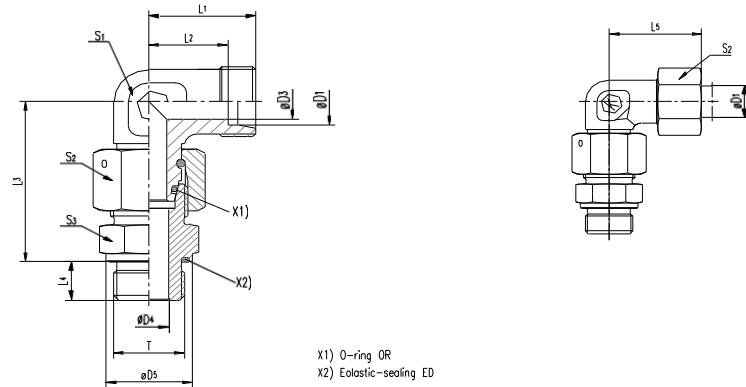
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	4.0	4.0	14	19	12.0	34.5	8	27	12	14	14	55	T02-1224	315
	8	G 1/4A	6.0	6.0	19	21	14.0	37.5	12	29	12	17	19	80	T02-1225	315
	10	G 1/4A	8.0	6.0	19	22	15.0	40.0	12	30	14	19	19	98	T02-1226	315
	12	G 3/8A	10.0	9.0	22	24	17.0	42.0	12	32	17	22	22	136	T02-1227	315
	15	G 1/2A	12.0	11.0	27	28	21.0	46.5	14	36	19	27	27	224	T02-1228	315
	18	G 1/2A	15.0	14.0	27	31	23.5	50.0	14	40	24	32	27	306	T02-1229	315
	22	G 3/4A	19.0	18.0	32	35	27.5	55.0	16	44	27	36	32	423	T02-1230	160
	28	G 1A	24.0	23.0	40	38	30.5	59.0	18	47	36	41	41	608	T02-1231	160
	35	G 1 1/4A	30.0	30.0	50	45	34.5	68.5	20	56	41	50	50	920	T02-1232	160
	42	G 1 1/2A	36.0	36.0	55	51	40.0	75.0	22	63	50	60	55	1466	T02-1233	160
S	6	G 1/4A	4.0	4.0	19	23	16.0	40.0	12	31	12	17	19	98	T02-1234	630
	8	G 1/4A	5.0	5.0	19	24	17.0	42.5	12	32	14	19	19	125	T02-1235	630
	10	G 3/8A	7.0	7.0	22	25	17.5	45.0	12	34	17	22	22	169	T02-1236	630
	12	G 3/8A	8.0	8.0	22	29	21.5	48.0	12	38	17	24	22	198	T02-1237	630
	14	G 1/2A	10.0	10.0	27	30	22.0	54.0	14	40	19	27	27	287	T02-1238	630
	16	G 1/2A	12.0	12.0	27	33	24.5	55.0	14	43	24	30	27	348	T02-1239	400
	20	G 3/4A	16.0	16.0	32	37	26.5	65.0	16	48	27	36	32	498	T02-1240	400
	25	G 1A	20.0	20.0	40	42	30.0	73.0	18	54	36	46	41	918	T02-1241	400
	30	G 1 1/4A	25.0	25.0	50	49	35.5	78.5	20	62	41	50	50	1324	T02-1242	400
	38	G 1 1/2A	32.0	32.0	55	57	41.0	89.0	22	72	50	60	60	2025	T02-1243	315

ASSEMBLED ADJUSTABLE SWIVEL RUN TEE ED-SEAL MALE BSP



Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	4.0	4.0	14	19	12.0	34.5	8	27	12	14	14	55	T02-1244	315
	8	G 1/4A	6.0	6.0	19	21	14.0	37.5	12	29	12	17	19	80	T02-1245	315
	10	G 1/4A	8.0	6.0	19	22	15.0	40.0	12	30	14	19	19	98	T02-1246	315
	12	G 3/8A	10.0	9.0	22	24	17.0	42.0	12	32	17	22	22	137	T02-1247	315
	15	G 1/2A	12.0	11.0	27	28	21.0	46.5	14	36	19	27	27	222	T02-1248	315
	18	G 1/2A	15.0	14.0	27	31	23.5	50.0	14	40	24	32	27	304	T02-1249	315
	22	G 3/4A	19.0	18.0	32	35	27.5	55.0	16	44	27	36	32	404	T02-1250	160
	28	G 1A	24.0	23.0	40	38	30.5	59.0	18	47	36	41	41	606	T02-1251	160
	35	G 1 1/4A	30.0	30.0	50	45	34.5	68.5	20	56	41	50	50	938	T02-1252	160
	42	G 1 1/2A	36.0	36.0	55	51	40.0	75.0	22	63	50	60	55	1485	T02-1253	160
S	6	G 1/4A	4.0	4.0	19	23	16.0	40.0	12	31	12	17	19	97	T02-1254	630
	8	G 1/4A	5.0	5.0	19	24	17.0	42.5	12	32	14	19	19	125	T02-1255	630
	10	G 3/8A	7.0	7.0	22	25	17.5	45.0	12	34	17	22	22	171	T02-1256	630
	12	G 3/8A	8.0	8.0	22	29	21.5	48.0	12	38	17	24	22	198	T02-1257	630
	14	G 1/2A	10.0	10.0	27	30	22.0	54.0	14	40	19	27	27	269	T02-1258	630
	16	G 1/2A	12.0	12.0	27	33	24.5	55.0	14	43	24	30	27	350	T02-1259	400
	20	G 3/4A	16.0	16.0	32	37	26.5	65.0	16	48	27	36	32	524	T02-1260	400
	25	G 1A	20.0	20.0	40	42	30.0	73.0	18	54	36	46	41	921	T02-1261	400
	30	G 1 1/4A	25.0	25.0	50	49	35.5	78.5	20	62	41	50	50	1324	T02-1262	400
	38	G 1 1/2A	32.0	32.0	55	57	41.0	89.0	22	72	50	60	60	2033	T02-1263	315

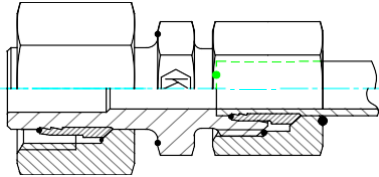
ASSEMBLED ADJUSTABLE SWIVEL ELBOW ED-SEAL MALE BSP



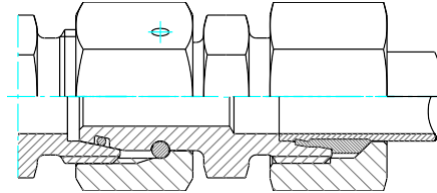
Series	Tube ØD1	T	D3	D4	D5	L1	L2	L3	L4	L5	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	4.0	4.0	14	19	12.0	34.5	8	27	12	14	14	47	T02-1264	315
	8	G 1/4A	6.0	6.0	19	21	14.0	37.5	12	29	12	17	19	69	T02-1265	315
	10	G 1/4A	8.0	6.0	19	22	15.0	40.0	12	30	14	19	19	87	T02-1266	315
	12	G 3/8A	10.0	9.0	22	24	17.0	42.0	12	32	17	22	22	122	T02-1267	315
	15	G 1/2A	12.0	11.0	27	28	21.0	46.5	14	36	19	27	27	199	T02-1268	315
	18	G 1/2A	15.0	14.0	27	31	23.5	50.0	14	40	24	32	27	268	T02-1269	315
	22	G 3/4A	19.0	18.0	32	35	27.5	55.0	16	44	27	36	32	360	T02-1270	160
	28	G 1A	24.0	23.0	40	38	30.5	59.0	18	47	36	41	41	539	T02-1271	160
	35	G 1 1/4A	30.0	30.0	50	45	34.5	68.5	20	56	41	50	50	834	T02-1272	160
	42	G 1 1/2A	36.0	36.0	55	51	40.0	75.0	22	63	50	60	55	1341	T02-1273	160
S	6	G 1/4A	4.0	4.0	19	23	16.0	40.0	12	31	12	17	19	83	T02-1274	630
	8	G 1/4A	5.0	5.0	19	24	17.0	42.5	12	32	14	19	19	106	T02-1275	630
	10	G 3/8A	7.0	7.0	22	25	17.5	45.0	12	34	17	22	22	148	T02-1276	630
	12	G 3/8A	8.0	8.0	22	29	21.5	48.0	12	38	17	24	22	170	T02-1277	630
	14	G 1/2A	10.0	10.0	27	30	22.0	54.0	14	40	19	27	27	242	T02-1278	630
	16	G 1/2A	12.0	12.0	27	33	24.5	55.0	14	43	24	30	27	303	T02-1279	400
	20	G 3/4A	16.0	16.0	32	37	26.5	65.0	16	48	27	36	32	458	T02-1280	400
	25	G 1A	20.0	20.0	40	42	30.0	73.0	18	54	36	46	41	813	T02-1281	400
	30	G 1 1/4A	25.0	25.0	50	49	35.5	78.5	20	62	41	50	50	1163	T02-1282	400
	38	G 1 1/2A	32.0	32.0	55	57	41.0	89.0	22	72	50	60	60	1784	T02-1283	315

REDUCERS

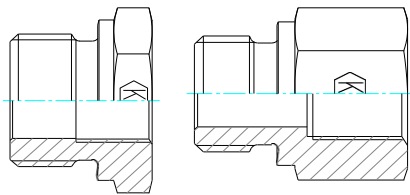
Tube End Reducer



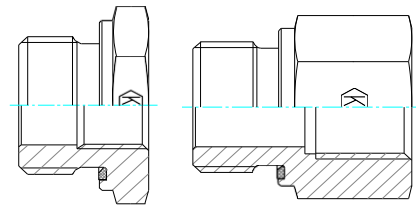
Tube End Reducer



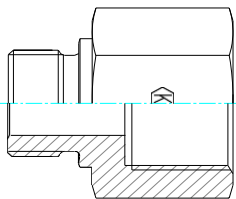
Thread Reducer/Expander



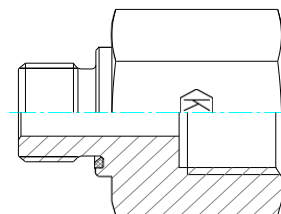
Thread Reducer/Expander



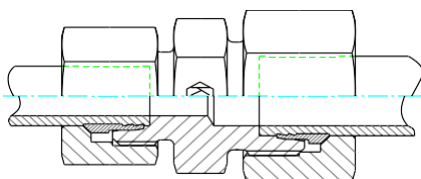
Thread Reducer/Expander



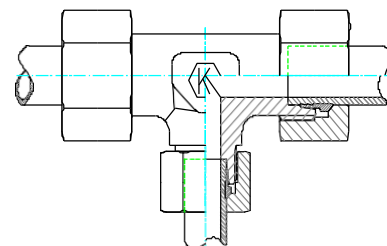
Thread Reducer/Expander



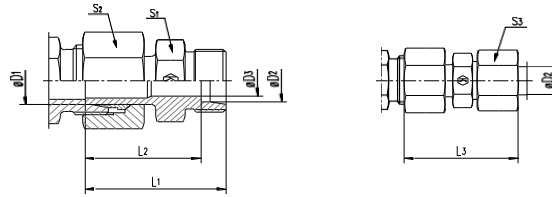
Straight Reducer



Branch Reducing Tee



TUBE END REDUCER

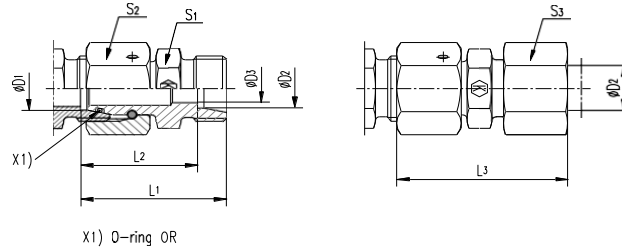


Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
L	8	6	4	33.5	26.5	41	12	17	14	32	T02-1284	315
	10	6	4	34.5	27.5	42	12	19	14	39	T02-1285	315
	10	8	6	35.5	28.5	43	14	19	17	40	T02-1286	315
	12	6	4	36.5	29.5	44	14	22	14	49	T02-1287	315
	12	8	6	36.5	29.5	44	14	22	17	53	T02-1288	315
	12	10	8	37.5	30.5	45	17	22	19	55	T02-1289	315
	15	6	4	37.0	30.0	45	17	27	14	79	T02-1290	315
	15	8	6	37.0	30.0	45	17	27	17	78	T02-1291	315
	15	10	8	38.0	31.0	46	17	27	19	85	T02-1292	315
	15	12	10	39.0	32.0	47	19	27	22	84	T02-1293	315
	18	6	4	37.5	30.5	45	19	32	14	112	T02-1294	315
	18	8	6	37.5	30.5	45	19	32	17	113	T02-1295	315
	18	10	8	38.5	31.5	46	19	32	19	113	T02-1296	315
	18	12	10	38.5	31.5	46	19	32	22	122	T02-1297	315
	18	15	12	39.5	32.5	48	24	32	27	131	T02-1298	315
	22	6	4	38.5	31.5	46	24	36	14	154	T02-1299	160
	22	8	6	38.5	31.5	46	24	36	17	155	T02-1300	160
	22	10	8	39.5	32.5	47	24	36	19	156	T02-1301	160
	22	12	10	39.5	32.5	47	24	36	22	157	T02-1302	160
	22	15	12	40.5	33.5	49	24	36	27	160	T02-1303	160
	22	18	15	41.5	34.0	50	27	36	32	173	T02-1304	160
	28	6	4	41.0	34.0	49	30	41	14	220	T02-1305	160
	28	8	6	41.0	34.0	49	30	41	17	217	T02-1306	160
	28	10	8	42.0	35.0	50	30	41	19	211	T02-1307	160
	28	12	10	42.0	35.0	50	30	41	22	219	T02-1308	160
	28	15	12	43.0	36.0	51	30	41	27	188	T02-1309	160
	28	18	15	43.0	35.5	52	30	41	32	218	T02-1310	160
	28	22	19	45.0	37.5	54	32	41	36	228	T02-1311	160
	35	6	4	48.5	41.5	56	36	50	14	307	T02-1312	160
	35	8	6	48.5	41.5	56	36	50	17	313	T02-1313	160
	35	10	8	49.5	42.5	57	36	50	19	370	T02-1314	160
	35	12	10	49.5	42.5	57	36	50	22	371	T02-1315	160
	35	15	12	50.5	43.5	59	36	50	27	380	T02-1316	160
	35	18	15	50.5	43.0	59	36	50	32	382	T02-1317	160
	35	22	19	52.5	45.0	61	36	50	36	380	T02-1318	160
	35	28	24	52.5	45.0	62	41	50	41	400	T02-1319	160
	42	10	8	52.5	45.5	60	46	60	19	551	T02-1320	160
	42	12	10	52.5	45.5	60	46	60	22	551	T02-1321	160
	42	15	12	53.5	46.5	62	46	60	27	687	T02-1322	160
	42	18	15	53.5	46.0	62	46	60	32	555	T02-1323	160
	42	22	19	55.5	48.0	64	46	60	36	568	T02-1324	160
	42	28	24	55.5	48.0	65	46	60	41	559	T02-1325	160
	42	35	30	57.5	47.0	69	46	60	50	588	T02-1326	160

TUBE END REDUCER

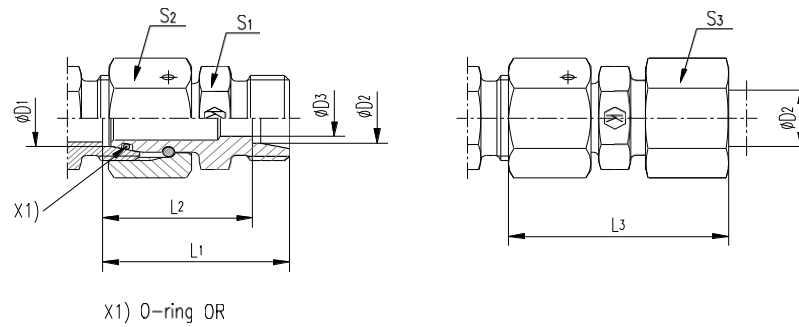
Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
S	8	6	4	36.5	29.5	44	14	19	17	16	T02-1327	630
	10	6	4	38.5	31.5	46	14	22	17	16	T02-1328	630
	10	8	5	38.5	31.5	46	17	22	19	14	T02-1329	630
	12	6	4	38.5	31.5	46	14	24	17	16	T02-1330	630
	12	8	5	38.5	31.5	46	17	24	19	16	T02-1331	630
	12	10	7	39.5	32.0	48	19	24	22	27	T02-1332	630
	14	6	4	40.5	33.5	48	17	27	17	32	T02-1333	630
	14	8	5	40.5	33.5	48	17	27	19	34	T02-1334	630
	14	10	7	41.5	34.0	50	19	27	22	35	T02-1335	630
	14	12	8	41.5	34.0	50	22	27	24	41	T02-1336	630
	16	6	4	41.0	34.0	49	17	30	17	44	T02-1337	400
	16	8	5	41.0	34.0	49	17	30	19	45	T02-1338	400
	16	10	7	42.0	34.5	51	19	30	22	46	T02-1339	400
	16	12	8	42.0	34.5	51	22	30	24	68	T02-1340	400
	16	14	10	44.0	36.0	54	24	30	27	69	T02-1341	400
	20	6	4	46.0	39.0	54	22	36	17	70	T02-1342	400
	20	8	5	46.0	39.0	54	22	36	19	70	T02-1343	400
	20	10	7	46.0	38.5	55	22	36	22	100	T02-1344	400
	20	12	8	46.0	38.5	55	22	36	24	101	T02-1345	400
	20	14	10	48.0	40.0	58	24	36	27	101	T02-1346	400
	20	16	12	49.0	40.5	59	27	36	30	101	T02-1347	400
	25	6	4	50.5	43.5	58	27	46	17	106	T02-1348	400
	25	8	5	50.5	43.5	58	27	46	19	136	T02-1349	400
	25	10	7	50.5	43.0	59	27	46	22	136	T02-1350	400
	25	12	8	50.5	43.0	59	27	46	24	138	T02-1351	400
	25	14	10	52.5	44.5	62	27	46	27	138	T02-1352	400
	25	16	12	52.5	44.0	62	27	46	30	143	T02-1353	400
	25	20	16	54.5	44.0	66	32	46	36	143	T02-1354	400
	30	6	4	53.0	46.0	61	32	50	17	177	T02-1355	400
	30	8	5	53.0	46.0	61	32	50	19	179	T02-1356	400
	30	10	7	53.0	45.5	62	32	50	22	180	T02-1357	400
	30	12	8	53.0	45.5	62	32	50	24	180	T02-1358	400
	30	14	10	55.0	47.0	65	32	50	27	185	T02-1359	400
	30	16	12	55.0	46.5	65	32	50	30	184	T02-1360	400
	30	20	16	57.0	46.5	68	32	50	36	188	T02-1361	400
	30	25	20	60.0	48.0	72	41	50	46	302	T02-1362	400
	38	6	4	60.0	53.0	68	41	60	17	306	T02-1363	315
	38	8	5	60.0	53.0	68	41	60	19	305	T02-1364	315
	38	10	7	60.0	52.5	69	41	60	22	304	T02-1365	315
	38	12	8	60.0	52.5	69	41	60	24	308	T02-1366	315
	38	14	10	62.0	54.0	72	41	60	27	316	T02-1367	315
	38	16	12	62.0	53.5	72	41	60	30	310	T02-1368	315
	38	20	16	64.0	53.5	75	41	60	36	305	T02-1369	315
	38	25	20	66.0	54.0	78	41	60	46	455	T02-1370	315
	38	30	25	69.0	55.5	82	46	60	50	438	T02-1371	315

TUBE END REDUCER SWIVEL



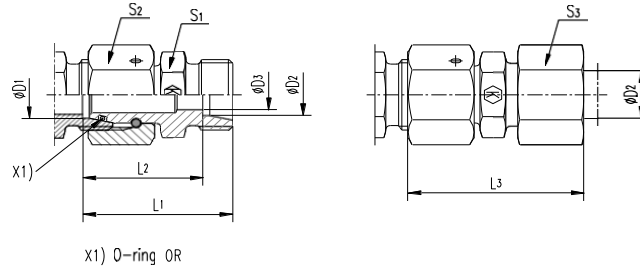
Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	ITEM CODE	PN (bar)
L	08	06	4.0	30.5	23.5	38.0	12	17	14	T02-1372	315
	10	06	4.0	32.0	25.0	40.0	14	19	14	T02-1373	315
	10	08	6.0	32.0	25.0	40.0	14	19	17	T02-1374	315
	12	06	4.0	32.0	25.0	40.0	17	22	14	T02-1375	315
	12	08	6.0	32.0	25.0	40.0	17	22	17	T02-1376	315
	12	10	8.0	33.0	26.0	41.0	17	22	19	T02-1377	315
	15	06	4.0	35.5	28.5	43.0	19	27	14	T02-1378	315
	15	08	6.0	35.5	28.5	43.0	19	27	17	T02-1379	315
	15	10	8.0	36.5	29.5	44.0	19	27	19	T02-1380	315
	15	12	10.0	36.5	29.5	44.0	19	27	22	T02-1381	315
	18	06	4.0	35.0	28.0	43.0	24	32	14	T02-1382	315
	18	08	6.0	35.0	28.0	43.0	24	32	17	T02-1383	315
	18	10	8.0	36.0	29.0	44.0	24	32	19	T02-1384	315
	18	12	10.0	36.0	29.0	44.0	24	32	22	T02-1385	315
	18	15	12.0	37.0	30.0	45.0	24	32	27	T02-1386	315
	22	06	4.0	39.0	32.0	47.0	27	36	14	T02-1387	160
	22	08	6.0	32.0	32.0	47.0	27	36	17	T02-1388	160
	22	10	8.0	33.0	33.0	48.0	27	36	19	T02-1389	160
	22	12	10.0	33.0	33.0	48.0	27	36	22	T02-1390	160
	22	15	12.0	34.0	34.0	49.0	27	36	27	T02-1391	160
	22	18	15.0	33.5	33.5	50.0	27	36	32	T02-1392	160
	28	06	4.0	34.0	34.0	49.0	32	41	14	T02-1393	160
	28	08	6.0	34.0	34.0	49.0	32	41	17	T02-1394	160
	28	10	8.0	35.0	35.0	50.0	32	41	19	T02-1395	160
	28	12	10.0	35.0	35.0	50.0	32	41	22	T02-1396	160
	28	15	12.0	36.0	36.0	51.0	32	41	27	T02-1397	160
	28	18	15.0	35.5	35.5	52.0	32	41	32	T02-1398	160
	28	22	19.0	37.5	37.5	54.0	32	41	36	T02-1399	160
	35	06	4.0	37.0	37.0	52.0	41	50	14	T02-1400	160
	35	08	6.0	37.0	37.0	52.0	41	50	17	T02-1401	160
	35	10	8.0	38.0	38.0	53.0	41	50	19	T02-1402	160
	35	12	10.0	38.0	38.0	53.0	41	50	22	T02-1403	160
	35	15	12.0	39.0	39.0	54.0	41	50	27	T02-1404	160
	35	18	15.0	38.5	38.5	55.0	41	50	32	T02-1405	160
	35	22	19.0	40.5	40.5	57.0	41	50	36	T02-1406	160

TUBE END REDUCER SWIVEL



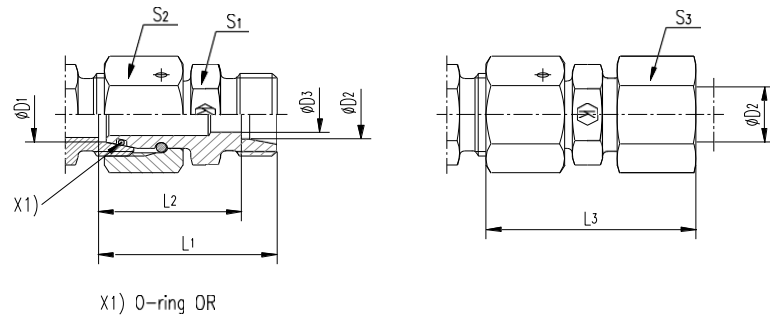
Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	ITEM CODE	PN (bar)
L/S	35	25	20.0	52.0	40.0	64.0	41	50	46	T02-1407	160
L	35	28	24.0	48.0	40.5	57.0	41	50	41	T02-1408	160
L/S	35	30	25.0	55.0	41.5	68.0	46	50	50	T02-1409	160
L	42	10	8.0	48.5	41.5	56.0	50	60	19	T02-1410	160
L	42	12	10.0	48.5	41.5	56.0	50	60	22	T02-1411	160
L	42	15	12.0	49.5	42.5	58.0	50	60	27	T02-1412	160
L	42	18	15.0	49.5	42.0	58.0	50	60	32	T02-1413	160
L	42	22	19.0	51.5	44.0	60.0	50	60	36	T02-1414	160
L	42	28	24.0	51.5	44.0	61.0	50	60	41	T02-1415	160
L/S	42	30	25.0	57.5	44.0	70.5	50	60	50	T02-1416	160
L	42	35	30.0	53.5	43.0	65.0	50	60	50	T02-1417	160
L/S	42	38	32.0	61.5	45.5	76.0	55	60	60	T02-1418	160

TUBE END REDUCER SWIVEL



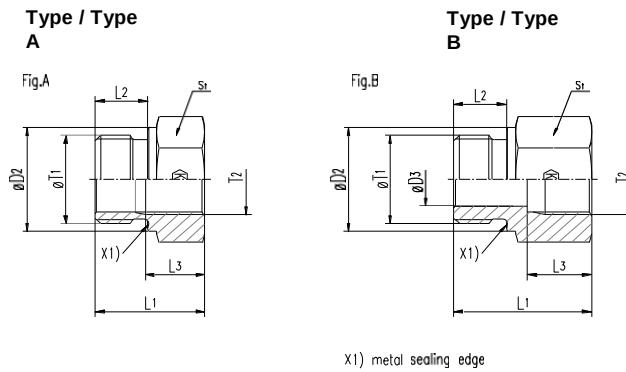
Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	ITEM CODE	PN (bar)
S	08	06	4.0	34.0	27.0	42	14	19	17	T02-1419	630
	10	06	4.0	34.5	27.5	42	17	22	17	T02-1420	630
	10	08	5.0	34.5	27.5	42	17	22	19	T02-1421	630
	12	06	4.0	36.0	29.0	44	17	24	17	T02-1422	630
	12	08	5.0	36.0	29.0	44	17	24	19	T02-1423	630
	12	10	7.0	37.0	29.5	46	19	24	22	T02-1424	630
	14	06	4.0	38.5	31.5	46	19	27	17	T02-1425	630
	14	08	5.0	38.5	31.5	46	19	27	19	T02-1426	630
	14	10	7.0	38.5	31.0	47	19	27	22	T02-1427	630
	14	12	8.0	38.5	31.0	47	22	27	24	T02-1428	630
	16	06	4.0	39.0	32.0	47	22	30	17	T02-1429	400
	16	08	5.0	39.0	32.0	47	22	30	19	T02-1430	400
	16	10	7.0	39.0	31.5	48	22	30	22	T02-1431	400
	16	12	8.0	39.0	31.5	48	22	30	24	T02-1432	400
	16	14	10.0	41.0	33.0	51	24	30	27	T02-1433	400
	20	06	4.0	43.0	36.0	51	27	36	17	T02-1434	400
	20	08	5.0	43.0	36.0	51	27	36	19	T02-1435	400
	20	10	7.0	43.0	35.5	52	27	36	22	T02-1436	400
	20	12	8.0	43.0	35.5	52	27	36	24	T02-1437	400
	20	14	10.0	45.0	37.0	55	27	36	27	T02-1438	400
	20	16	12.0	45.0	36.5	55	27	36	30	T02-1439	400
	25	06	4.0	45.5	38.5	53	32	46	17	T02-1440	400
	25	08	5.0	45.5	38.5	53	32	46	19	T02-1441	400
	25	10	7.0	45.5	38.0	54	32	46	22	T02-1442	400
	25	12	8.0	45.5	38.0	54	32	46	24	T02-1443	400
	25	14	10.0	47.5	39.5	57	32	46	27	T02-1444	400
	25	16	12.0	47.5	39.0	57	32	46	30	T02-1445	400
	25	20	16.0	49.5	39.0	61	32	46	36	T02-1446	400
	30	06	4.0	51.0	44.0	59	41	50	17	T02-1447	400
	30	08	5.0	51.0	44.0	59	41	50	19	T02-1448	400
	30	10	7.0	51.0	43.5	60	41	50	22	T02-1449	400
	30	12	8.0	51.0	43.5	60	41	50	24	T02-1450	400
	30	14	10.0	53.0	45.0	63	41	50	27	T02-1451	400
	30	16	12.0	53.0	44.5	63	41	50	30	T02-1452	400
	30	20	16.0	55.0	44.5	66	41	50	36	T02-1453	400

TUBE END REDUCER SWIVEL



Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	ITEM CODE	PN (bar)
S/L	30	22	19	53.0	45.5	61	41	50	36	T02-1454	400
S	30	25	20	57.0	45.0	69	41	50	46	T02-1455	400
S/L	30	28	23	53.0	45.5	62	41	50	41	T02-1456	400
S	38	06	4.0	54.5	47.5	62	50	60	17	T02-1457	315
S	38	08	5.0	54.5	47.5	62	50	60	19	T02-1458	315
S	38	10	7.0	54.5	47.0	63	50	60	22	T02-1459	315
S	38	12	8.0	54.5	47.0	63	50	60	24	T02-1460	315
S	38	14	10	56.5	48.5	66	50	60	27	T02-1461	315
S	38	16	12	56.5	48.0	66	50	60	30	T02-1462	315
S	38	20	16	58.5	48.0	70	50	60	36	T02-1463	315
S	38	25	20	60.5	48.5	73	50	60	46	T02-1464	315
S/L	38	28	24	56.5	49.0	65	50	60	41	T02-1465	315
S	38	30	25	62.5	49.0	76	50	60	50	T02-1466	315
S/L	38	35	30	58.5	48.0	69	50	60	50	T02-1467	315

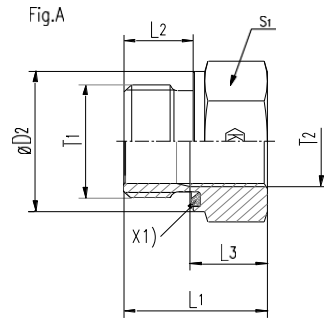
THREAD REDUCER/EXPANDER BSP



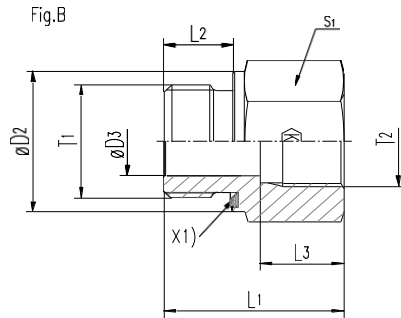
T1	T2	D2	D3	L1	L2	L3	S1	Type Type	Weight g/1 piece	ITEM CODE
G 1/4A	G 1/8	18	5	28	12	12.0	19	B	38	T02-1468
G 3/8A	G 1/8	22	-	22.5	12	8.0	22	A	38	T02-1469
G 3/8A	G 1/4	22	8	36	12	17.0	22	B	69	T02-1470
G 1/2A	G 1/4	26	-	24	14	12.0	27	A	50	T02-1471
G 1/2A	G 3/8	26	12	36	14	17.0	27	B	92	T02-1472
G 3/4A	G 1/4	32	-	26	16	12.0	32	A	101	T02-1473
G 3/4A	G 3/8	32	-	26	16	12.0	32	A	85	T02-1474
G 3/4A	G 1/2	32	16	41	16	20.0	32	B	145	T02-1475
G 1A	G 1/4	39	-	29	18	12.0	41	A	194	T02-1476
G 1A	G 3/8	39	-	29	18	12.0	41	A	181	T02-1477
G 1A	G 1/2	39	-	29	18	14.0	41	A	150	T02-1478
G 1A	G 3/4	39	20	47	18	22.0	41	B	272	T02-1479
G 1 1/4A	G 1/2	49	-	32	20	14.0	50	A	314	T02-1480
G 1 1/4A	G 3/4	49	-	32	20	16.0	50	A	263	T02-1481
G 1 1/4A	G 1	49	25	52	20	24.5	50	B	466	T02-1482
G 1 1/2A	G 1/2	55	-	36	22	14.0	55	A	473	T02-1483
G 1 1/2A	G 3/4	55	-	36	22	16.0	55	A	423	T02-1484
G 1 1/2A	G 1	55	-	36	22	18.0	55	A	345	T02-1485
G 1 1/2A	G 1 1/4	55	32	58	22	26.5	55	B	528	T02-1486

THREAD REDUCER/EXPANDER ED-SEAL BSP

Type / Type
A



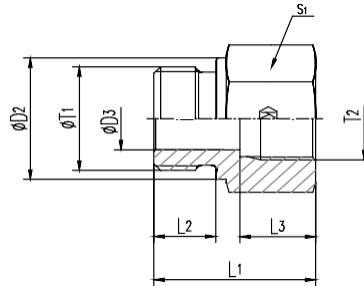
Type / Type
B



X1) Elastomeric-sealing ED

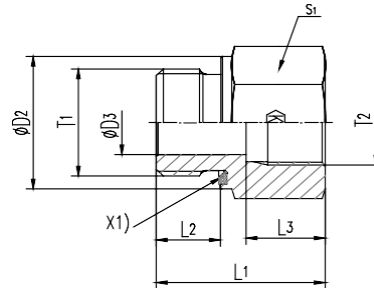
T1	T2	D2	D3	L1	L2	L3	S1	Type Type	Weight g/1 piece	ITEM CODE
G 1/4A	G 1/8	19	5	28	12	12.0	19	B	16	T02-1487
G 3/8A	G 1/8	22	-	22.5	12	8.0	22	A	37	T02-1488
G 3/8A	G 1/4	22	8	36	12	17.0	22	B	68	T02-1489
G 1/2A	G 1/4	27	-	24	14	12.0	27	A	58	T02-1490
G 1/2A	G 3/8	27	12	36	14	17.0	27	B	97	T02-1491
G 3/4A	G 1/4	32	-	26	16	12.0	32	A	103	T02-1492
G 3/4A	G 3/8	32	-	26	16	12.0	32	A	85	T02-1493
G 3/4A	G 1/2	32	16	41	16	20.0	32	B	151	T02-1494
G 1A	G 1/4	40	-	29	18	12.0	41	A	198	T02-1495
G 1A	G 3/8	40	-	29	18	12.0	41	A	181	T02-1496
G 1A	G 1/2	40	-	29	18	14.0	41	A	152	T02-1497
G 1A	G 3/4	40	20	47	18	22.0	41	B	278	T02-1498
G 1 1/4A	G 1/2	50	-	32	20	14.0	50	A	309	T02-1499
G 1 1/4A	G 3/4	50	-	32	20	16.0	50	A	276	T02-1500
G 1 1/4A	G 1	50	25	52	20	24.5	50	B	482	T02-1501
G 1 1/2A	G 1/2	55	-	36	22	14.0	55	A	400	T02-1502
G 1 1/2A	G 3/4	55	-	36	22	16.0	55	A	422	T02-1503
G 1 1/2A	G 1	55	-	36	22	18.0	55	A	346	T02-1504
G 1 1/2A	G 1 1/4	55	32	58	22	26.5	55	B	571	T02-1505

THREAD REDUCER/EXPANDER METAL SEALING EDGE BSP



T1	T2	D2	D3	L1	L2	L3	S1	Weight g/1 piece	ITEM CODE
G 1/8A	G 1/4	14	4	31	8	17.0	19	40	T02-1506
G 1/8A	G 3/8	14	4	32	8	17.0	24	60	T02-1507
G 1/4A	G 3/8	18	5	36	12	17.0	24	64	T02-1508
G 1/4A	G 1/2	18	5	40	12	20.0	30	116	T02-1509
G 1/4A	G 3/4	18	5	43	12	22.0	36	174	T02-1510
G 3/8A	G 1/2	22	8	41	12	20.0	30	126	T02-1511
G 3/8A	G 3/4	22	8	44	12	22.0	36	185	T02-1512
G 1/2A	G 3/4	26	12	46	14	22.0	36	145	T02-1513
G 1/2A	G 1	26	12	49	14	24.5	41	227	T02-1514
G 1/2A	G 1 1/4	26	10	53	14	26.5	55	474	T02-1515
G 3/4A	G 1	32	16	51	16	24.5	41	249	T02-1516
G 3/4A	G 1 1/4	32	16	55	16	26.5	55	503	T02-1517
G 3/4A	G 1 1/2	32	16	57	16	28.5	60	601	T02-1518
G 1A	G 1 1/4	39	20	57	18	26.5	55	510	T02-1519
G 1A	G 1 1/2	39	20	59	18	28.5	60	608	T02-1520
G 1 1/4A	G 1 1/2	49	25	60	20	28.5	60	660	T02-1521

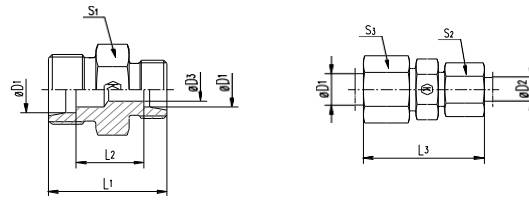
THREAD REDUCER/EXPANDER METAL SEALING EDGE ED SEAL BSP



X1) Elastic-sealing ED

T1	T2	D2	D3	L1	L2	L3	S1	Weight g/1 piece	ITEM CODE
G 1/8A	G 1/4	14	4	31	8	17.0	19	39	T02-1522
G 1/8A	G 3/8	14	4	32	8	17.0	24	63	T02-1523
G 1/4A	G 3/8	18	5	36	12	17.0	24	68	T02-1524
G 1/4A	G 1/2	18	5	40	12	20.0	30	119	T02-1525
G 1/4A	G 3/4	18	5	43	12	22.0	36	170	T02-1526
G 3/8A	G 1/2	22	8	41	12	20.0	30	126	T02-1527
G 3/8A	G 3/4	22	8	44	12	22.0	36	173	T02-1528
G 1/2A	G 3/4	26	12	46	14	22.0	36	182	T02-1529
G 1/2A	G 1	26	12	49	14	24.5	41	234	T02-1530
G 1/2A	G 1 1/4	26	10	53	14	26.5	55	486	T02-1531
G 3/4A	G 1	32	16	51	16	24.5	41	248	T02-1532
G 3/4A	G 1 1/4	32	16	55	16	26.5	55	511	T02-1533
G 3/4A	G 1 1/2	32	16	57	16	28.5	60	601	T02-1534
G 1A	G 1 1/4	39	20	57	18	26.5	55	534	T02-1535
G 1A	G 1 1/2	39	20	59	18	28.5	60	585	T02-1536
G 1 1/4A	G 1 1/2	49	25	60	20	28.5	60	660	T02-1537

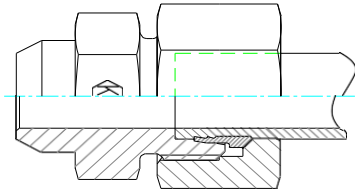
STRAIGHT REDUCER



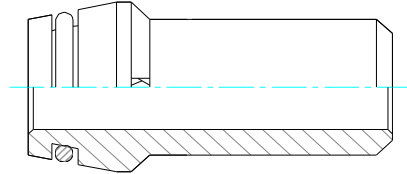
Series	Tube ØD1	Tube ØD2	D3	L1	L2	L3	S1	S2	S3	Weight g/1 piece	ITEM CODE	PN (bar)
LL	6	4	3.0	20	10.5	32	11	10	12	7	T02-1538	100
	8	4	3.0	22	12.5	34	12	10	14	9	T02-1539	100
	8	6	4.5	22	11.0	34	12	12	14	11	T02-1540	100
L	8	6	4.0	25	11.0	40	14	14	17	16	T02-1541	315
	10	6	4.0	26	12.0	41	17	14	19	21	T02-1542	315
	10	8	6.0	26	12.0	41	17	17	19	21	T02-1543	315
	12	6	4.0	27	13.0	42	19	14	22	26	T02-1544	315
	12	8	6.0	27	13.0	42	19	17	22	26	T02-1545	315
	12	10	8.0	28	14.0	43	19	19	22	29	T02-1546	315
	15	10	8.0	29	15.0	45	24	19	27	46	T02-1547	315
	15	12	10.0	29	15.0	45	24	22	27	45	T02-1548	315
	18	10	8.0	30	15.5	46	27	19	32	65	T02-1549	315
	18	12	10.0	30	15.5	46	27	22	32	64	T02-1550	315
	18	15	12.0	31	16.5	48	27	27	32	65	T02-1551	315
	22	12	10.0	32	17.5	48	32	22	36	80	T02-1552	160
	22	15	12.0	33	18.5	50	32	27	36	89	T02-1553	160
	22	18	15.0	33	18.0	50	32	32	36	89	T02-1554	160
	28	18	15.0	34	19.0	52	41	32	41	142	T02-1555	160
	28	22	19.0	36	21.0	54	41	36	41	139	T02-1556	160
	35	22	19.0	39	21.0	59	46	36	50	202	T02-1557	160
	35	28	24.0	39	21.0	59	46	41	50	206	T02-1558	160
	42	35	30.0	43	21.5	66	55	50	60	330	T02-1559	160
S	8	6	4.0	32	18.0	47	17	17	19	35	T02-1560	630
	10	6	4.0	32	17.5	48	19	17	22	41	T02-1561	630
	10	8	5.0	32	17.5	48	19	19	22	42	T02-1562	630
	12	6	4.0	34	19.5	50	22	17	24	56	T02-1563	630
	12	8	5.0	34	19.5	50	22	19	24	57	T02-1564	630
	12	10	7.0	34	19.0	51	22	22	24	59	T02-1565	630
	14	10	7.0	36	20.5	54	24	22	27	70	T02-1566	630
	14	12	8.0	36	20.5	54	24	24	27	72	T02-1567	630
	16	10	7.0	36	20.0	54	27	22	30	80	T02-1568	400
	16	12	8.0	36	20.0	54	27	24	30	87	T02-1569	400
	16	14	10.0	36	21.5	57	27	27	30	79	T02-1570	400
	20	10	7.0	40	22.0	60	32	22	36	129	T02-1571	400
	20	12	8.0	40	22.0	60	32	24	36	131	T02-1572	400
	20	16	12.0	42	23.0	63	32	30	36	134	T02-1573	400
	25	16	12.0	46	25.5	68	41	30	46	236	T02-1574	400
	25	20	16.0	48	25.5	71	41	36	46	235	T02-1575	400
	30	20	16.0	50	26.0	74	46	36	50	299	T02-1576	400
	30	25	20.0	52	26.5	77	46	46	50	317	T02-1577	400
	38	30	25.0	59	29.5	87	55	50	60	522	T02-1578	315

WELD COUPLINGS

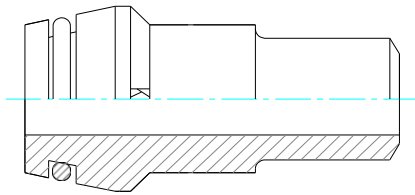
Weld Connector



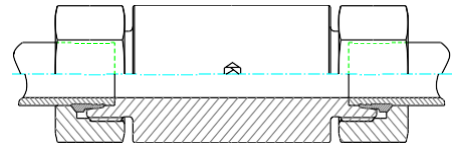
Weld Nipple



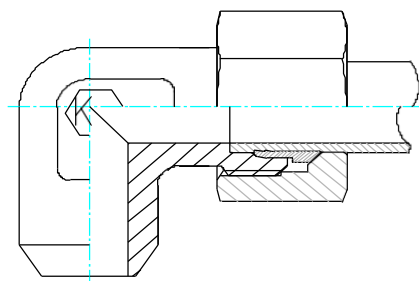
Reducing Weld Nipple



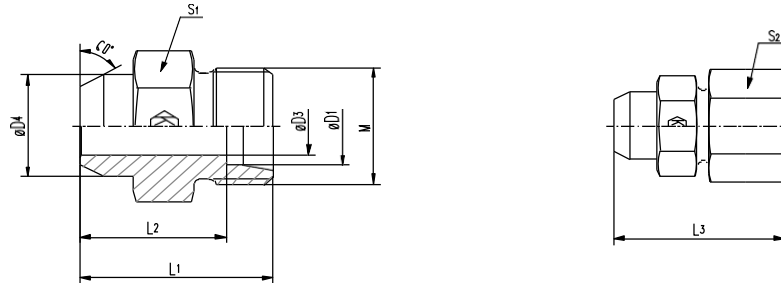
Weld Bulkhead Fitting



Weld Elbow

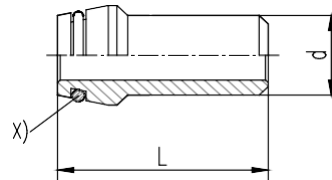
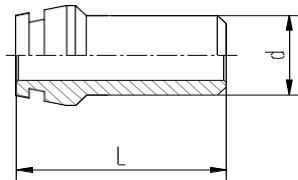


WELD CONNECTOR



Series	Tube ØD1	M	D3	D4	L2	L1	L3	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M12x1,5	4.0	10	14.0	21	29	12	14	10	T02-1579	315
	8	M14x1,5	6.0	12	16.0	23	31	14	17	16	T02-1580	315
	10	M16x1,5	8.0	14	18.0	25	33	17	19	22	T02-1581	315
	12	M18x1,5	10.0	16	18.0	25	33	19	22	25	T02-1582	315
	15	M22x1,5	12.0	19	22.0	29	37	22	27	44	T02-1583	315
	18	M26x1,5	15.0	22	23.5	31	40	27	32	98	T02-1584	315
	22	M30x2	19.0	27	28.5	36	45	32	36	100	T02-1585	160
	28	M36x2	24.0	32	30.5	38	47	41	41	162	T02-1586	160
	35	M45x2	30.0	40	32.5	43	54	46	50	185	T02-1587	160
	42	M52x2	36.0	46	35.0	46	58	55	60	472	T02-1588	160
S	6	M14x1,5	4.0	11	19.0	26	34	14	17	20	T02-1589	630
	8	M16x1,5	5.0	13	21.0	28	36	17	19	12	T02-1590	630
	10	M18x1,5	7.0	15	22.5	30	39	19	22	78	T02-1591	630
	12	M20x1,5	8.0	17	24.5	32	41	22	24	56	T02-1592	630
	14	M22x1,5	10.0	19	27.0	35	45	24	27	90	T02-1593	630
	16	M24x1,5	12.0	21	26.5	35	45	27	30	83	T02-1594	400
	20	M30x2	16.0	26	29.5	40	51	32	36	129	T02-1595	400
	25	M36x2	20.0	31	32.0	44	56	41	46	221	T02-1596	400
	30	M42x2	25.0	36	35.5	49	62	46	50	298	T02-1597	400
	38	M52x2	32.0	44	38.0	54	69	55	60	452	T02-1598	315

WELD NIPPLE

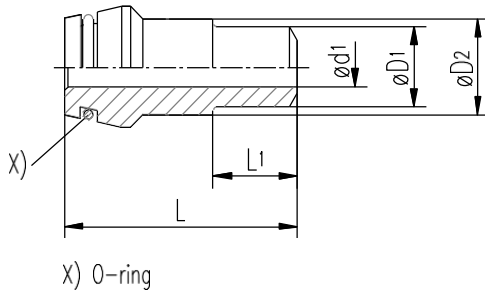


X) O-ring

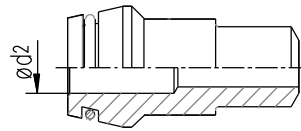
Series	Tube ØD1	O-ring	d	L	Weight g/1 piece	ITEM CODE
L/S	6	OR4.5x1.5	6	29	22	T02-1599
	8	OR6.5x1.5	8	29	24	T02-1600
	10	OR 8x1.5	10	32	24	T02-1601
	12	OR10x1.5	12	32.5	26	T02-1602
L	15	OR 12x2	15	33	40	T02-1603
	18	OR 15x2	18	35	45	T02-1604
	22	OR 20x2	22	37.5	75	T02-1605
	28	OR 26x2	28	42.5	165	T02-1606
	35	OR32x2.5	35	46	137	T02-1607
	42	OR38x2.5	42	46.5	228	T02-1608
S	14	OR 11x2	14	39	40	T02-1609
	16	OR 13x2	16	39	40	T02-1610
	20	OR 16.3x2.4	20	44	73	T02-1611
	25	OR20.3x2.4	25	50	123	T02-1612
	30	OR25.3x2.4	30	52	166	T02-1613
	38	OR33.3x2.4	38	56.5	250	T02-1614

REDUCING WELD NIPPLE

**Type A / Type
A**

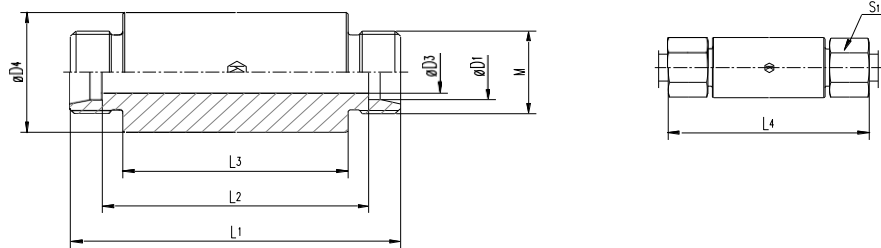


**Type B / Type
B**



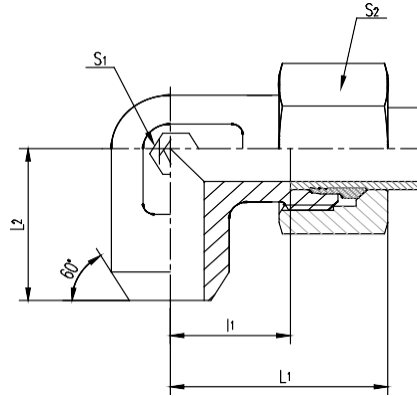
Series	Type Type	Tube ØD1		d1	d2	L	L1	O-ring	ITEM CODE
L/S	A	8	6	3	-	31	12	OR 6.5x1.5	T02-1615
	B	10	6	3	5	32.5	12	OR 8x1.5	T02-1616
	A	10	8	5	-	32.5	12	OR 8x1.5	T02-1617
	A	12	8	5	-	32.5	14	OR 10x1.5	T02-1618
	A	12	10	7	-	32.5	14	OR 10x1.5	T02-1619
S	A	16	10	6	-	39	15	OR 13x2	T02-1620
	A	16	12	7	-	39	15	OR 13x2	T02-1621
	A	20	12	7	-	45	17	OR 16.3x2.4	T02-1622
	A	20	16	10	-	49.5	20	OR 20.3x2.4	T02-1623
	B	30	16	11	22	52	22	OR 25.3x2.4	T02-1624
	A	30	20	12	-	52	22	OR 25.3x2.4	T02-1625
	A	30	25	17	-	52	22	OR 25.3x2.4	T02-1626
	B	38	16	10	28	56.5	26	OR 33.3x2.4	T02-1627
	B	38	20	12	28	56.5	26	OR 33.3x2.4	T02-1628
	B	38	25	17	28	56.5	26	OR 33.3x2.4	T02-1629
	A	38	30	20	-	56.5	26	OR 33.3x2.4	T02-1630

WELD BULKHEAD FITTINGS



Series	Tube ØD1	M	D3	D4	L3	L2	L1	L4	S1	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M12x1,5	4.0	18	50	56	70	85	14	100	T02-1631	315
	8	M14x1,5	6.0	20	50	56	70	85	17	124	T02-1632	315
	10	M16x1,5	8.0	22	50	58	72	87	19	145	T02-1633	315
	12	M18x1,5	10.0	25	50	58	72	87	22	178	T02-1634	315
	15	M22x1,5	12.0	28	60	70	84	100	27	264	T02-1635	315
	18	M26x1,5	15.0	32	60	69	84	101	32	334	T02-1636	315
	22	M30x2	19.0	36	60	73	88	105	36	364	T02-1637	160
	28	M36x2	24.0	40	60	73	88	106	41	452	T02-1638	160
	35	M45x2	30.0	50	60	71	92	114	50	714	T02-1639	160
	42	M52x2	36.0	60	60	70	92	115	60	1016	T02-1640	160
S	6	M14x1,5	4.0	20	50	60	74	89	17	124	T02-1641	630
	8	M16x1,5	5.0	22	50	50	74	89	19	138	T02-1642	630
	10	M18x1,5	7.0	25	50	59	74	91	22	124	T02-1643	630
	12	M20x1,5	8.0	28	50	59	74	91	24	252	T02-1644	630
	14	M22x1,5	10.0	30	60	72	88	107	27	236	T02-1645	630
	16	M24x1,5	12.0	35	60	71	88	107	30	445	T02-1646	400
	20	M30x2	16.0	38	60	71	92	114	36	516	T02-1647	400
	25	M36x2	20.0	45	60	72	96	120	46	722	T02-1648	400
	30	M42x2	25.0	50	60	73	100	126	50	872	T02-1649	400
	38	M52x2	32.0	60	60	72	104	133	60	1258	T02-1650	315

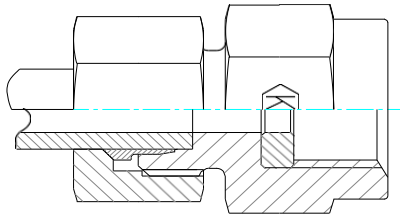
WELD ELBOW



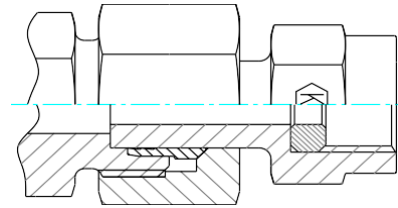
Series	Tube ØD1	L2	L1	I1	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	10	24	30	15	17	19	52	T02-1651	315
	12	24	32	17	17	22	73	T02-1652	315
	15	28	36	21	19	27	120	T02-1653	315
	18	31	40	23.5	24	32	166	T02-1654	315
S	12	24	38	21.5	17	24	108	T02-1655	630
	16	33	43	24.5	24	30	189	T02-1656	400
	20	37	48	26.5	27	36	303	T02-1657	400

ADAPTERS CONNECTORS

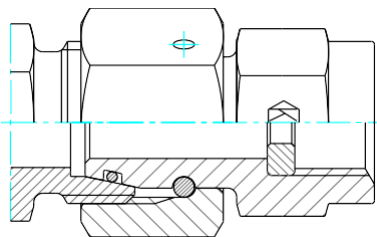
Pressure Gauge Connector



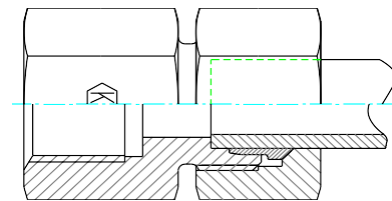
Pressure Gauge Standpipe Connector



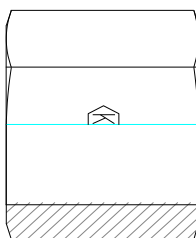
Pressure Gauge Swivel Connector



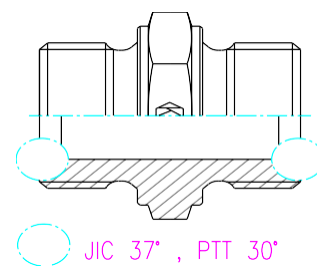
Female Connector



Female to Female Connector

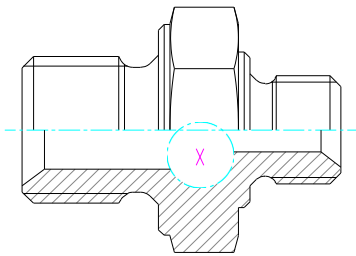


Male Stud Connector

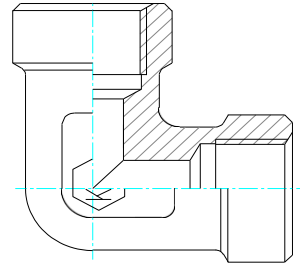


ADAPTERS CONNECTORS

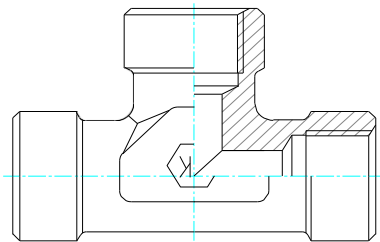
Male to Male Adapters



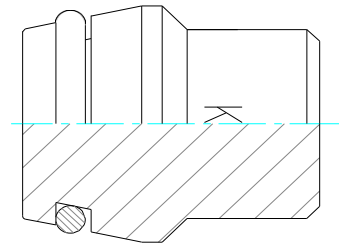
Female Elbow



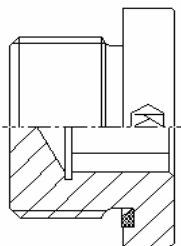
Female Tee



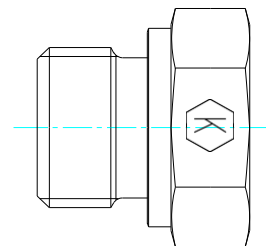
Blanking Plug for Cones



Blanking Plug for Ports

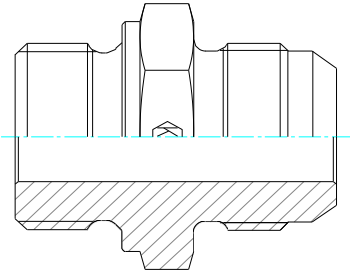


Blanking Plug for Ports

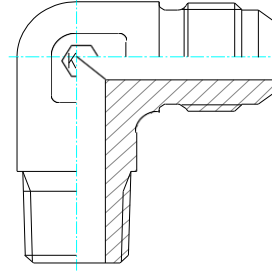


ADAPTERS CONNECTORS

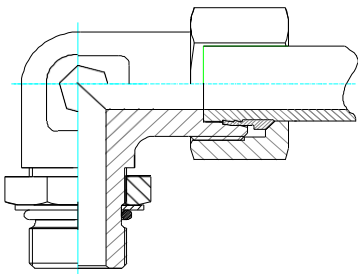
Male Stud Connector JIC 37°



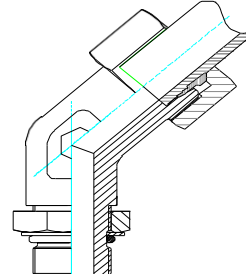
Male Stud Elbow JIC 37°



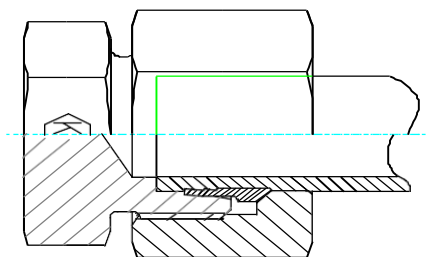
Bulkhead Elbow



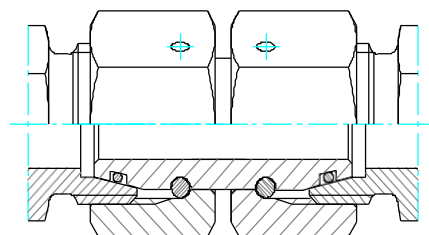
Bulkhead Elbow 45°



Blanking Plug for Tube Ends

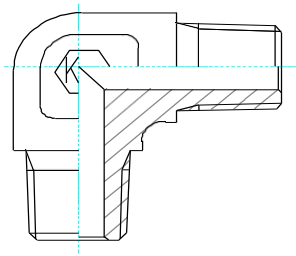


Swivel Union

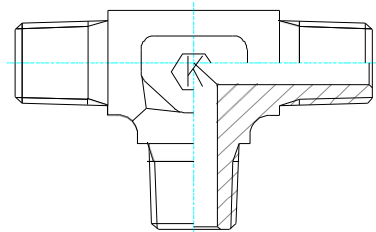


ADAPTERS CONNECTORS

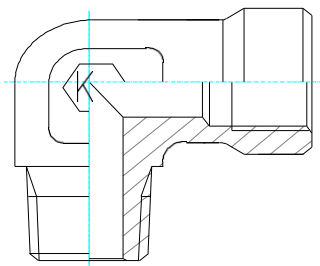
Male 90° Adapter



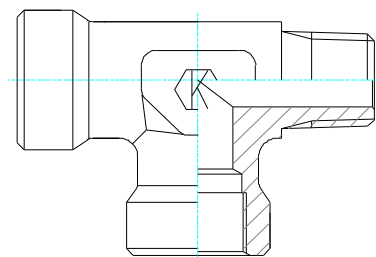
Male Stud Branch Tee Adapter



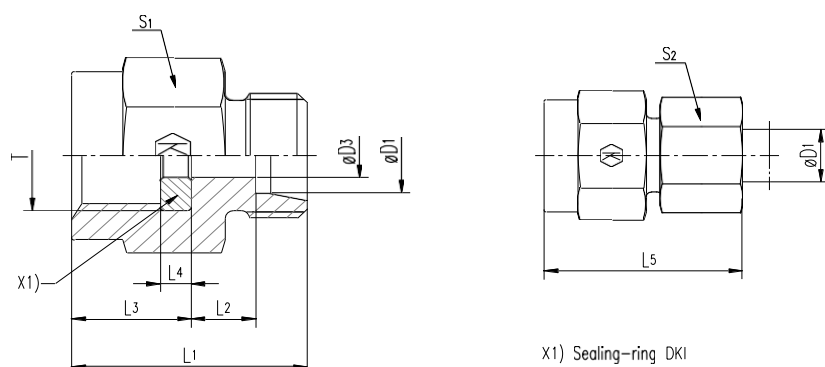
Male Stud 90° Adapter



Male Equal Tee Adapter

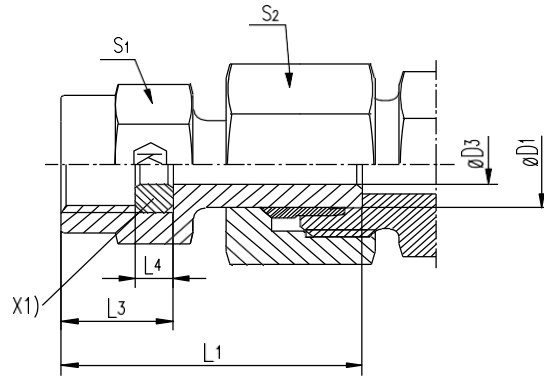


PRESSURE GAUGE CONNECTOR



Series	Tube ØD1	T1	D3	L1	L2	L3	L4	L5	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/4	2.5	29	7.5	14.5	4.5	37	19	14	37	T02-1658	315
	8	G 1/4	5.5	29	7.5	14.5	4.5	37	19	17	38	T02-1659	315
	10	G 1/4	5.5	30	8.5	14.5	4.5	38	19	19	41	T02-1660	315
	12	G 1/4	5.5	30	8.5	14.5	4.5	38	19	22	43	T02-1661	315
S	6	G 1/2	3.5	38	11.0	20.0	5.0	46	27	17	86	T02-1662	630
	8	G 1/2	3.5	38	11.0	20.0	5.0	46	27	19	86	T02-1663	630
	10	G 1/2	7.5	38	10.5	20.0	5.0	47	27	22	88	T02-1664	630
	12	G 1/2	7.5	38	10.5	20.0	5.0	47	27	24	93	T02-1665	630

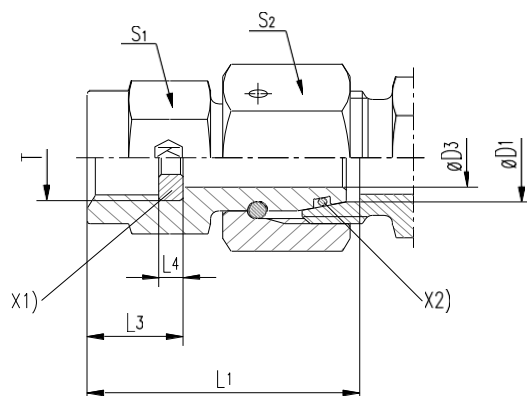
PRESSURE GAUGE STANDPIPE CONNECTOR



X1) Sealing-ring DKI

Series	Tube ØD1	T1	D3	L1	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/4	2.5	36	14.5	4.5	19	14	-	T02-1666	315
	8	G 1/4	4.0	38,5	14.5	4.5	19	17	-	T02-1667	315
	10	G 1/4	5.5	36,5	14.5	4.5	19	19	38,5	T02-1668	315
	12	G 1/4	5.5	41,5	14.5	4.5	19	22	48,95	T02-1669	315
S	6	G 1/2	2.5	41,5	20.0	5.0	27	17	-	T02-1670	630
	8	G 1/2	4.0	42	20.0	5.0	27	19	-	T02-1671	630
	10	G 1/2	6.0	44	20.0	5.0	27	22	79,83	T02-1672	630
	12	G 1/2	7.0	44	20.0	5.0	27	24	83,58	T02-1673	630

PRESSURE GAUGE SWIVEL CONNECTOR

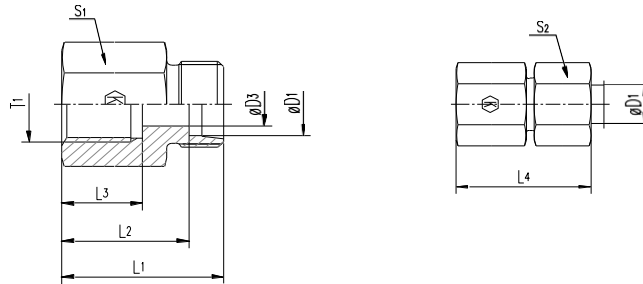


X1) Sealing-ring DK1

X2) O-ring OR

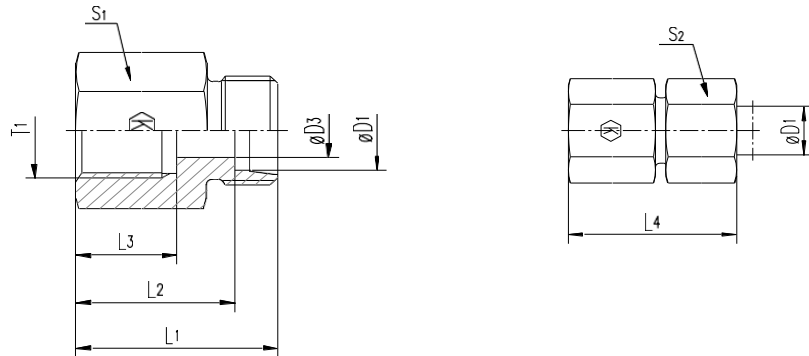
Series	Tube ØD1	T1	D3	L1	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/4	2.5	35.5	14.5	4.5	19	14	46	T02-1674	315
	8	G 1/4	4.0	35.5	14.5	4.5	19	17	52	T02-1675	315
	10	G 1/4	5.5	36.0	14.5	4.5	19	19	59	T02-1676	315
	12	G 1/4	5.5	36.0	14.5	4.5	19	22	70	T02-1677	315
S	6	G 1/2	2.5	42.5	20.0	5.0	27	17	95	T02-1678	630
	8	G 1/2	4.0	43.0	20.0	5.0	27	19	100	T02-1679	630
	10	G 1/2	6.0	43.5	20.0	5.0	27	22	109	T02-1680	630
	12	G 1/2	7.0	45.0	20.0	5.0	27	24	125	T02-1681	630

FEMALE CONNECTOR BSP



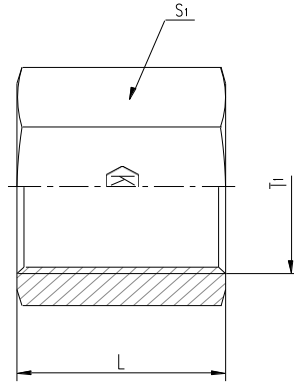
Series	Tube ØD1	T1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	G 1/8A	4	26.0	19.0	12.0	34	14	14	18	T02-1682	315
	6	G 1/4A	4	31.0	24.0	17.0	39	19	14	40	T02-1683	315
	8	G 1/4A	6	31.0	24.0	17.0	39	19	17	56	T02-1684	315
	8	G 3/8A	6	32.0	25.0	17.0	40	24	17	64	T02-1685	315
	8	G 1/2A	6	36.0	29.0	20.0	44	27	17	82	T02-1686	315
	10	G 1/4A	8	32.0	25.0	17.0	40	19	19	40	T02-1687	315
	10	G 3/8A	8	33.0	26.0	17.0	41	24	19	65	T02-1688	315
	10	G 1/2A	8	37.0	30.0	20.0	45	27	19	84	T02-1689	315
	12	G 3/8A	10	33.0	26.0	17.0	41	24	22	63	T02-1690	315
	12	G 1/2A	10	37.0	30.0	20.0	45	27	22	83	T02-1691	315
	15	G 1/2A	12	38.0	31.0	20.0	46	27	27	89	T02-1692	315
	18	G 1/2A	15	38.0	30.5	20.0	47	27	32	91	T02-1693	315
	18	G 3/8A	15	34.0	26.5	17.0	43	27	32	95	T02-1694	315
	22	G 3/4A	19	43.0	35.5	22.0	52	36	36	177	T02-1695	160
	28	G 1A	24	45.5	38.0	24.5	55	41	41	212	T02-1696	160
	35	G 1 1/4A	30	51.5	41.0	26.5	63	55	50	464	T02-1697	160
	42	G 1 1/2A	36	53.5	42.5	28.5	65	60	60	541	T02-1698	160
S	6	G 1/4A	4	33.0	26.0	17.0	41	19	17	44	T02-1699	630
	8	G 1/4A	5	33.0	26.0	17.0	41	19	19	46	T02-1700	630
	10	G 3/8A	7	34.0	26.5	17.0	43	24	22	68	T02-1701	630
	12	G 3/8A	8	34.0	26.5	17.0	43	24	24	78	T02-1702	630
	12	G 1/2A	8	38.0	30.5	20.0	47	30	24	121	T02-1703	630
	14	G 1/2A	10	40.0	32.0	20.0	50	30	27	124	T02-1704	630
	16	G 1/2A	12	40.0	31.5	20.0	50	30	30	126	T02-1705	400
	20	G 3/4A	16	45.0	34.5	22.0	56	36	36	190	T02-1706	400
	25	G 1A	20	49.5	37.5	24.5	62	41	46	244	T02-1707	400
	30	G 1 1/4A	25	55.5	42.0	26.5	69	55	50	509	T02-1708	400
	38	G 1 1/2A	32	59.5	43.5	28.5	74	60	60	623	T02-1709	315

FEMALE CONNECTOR METRIC



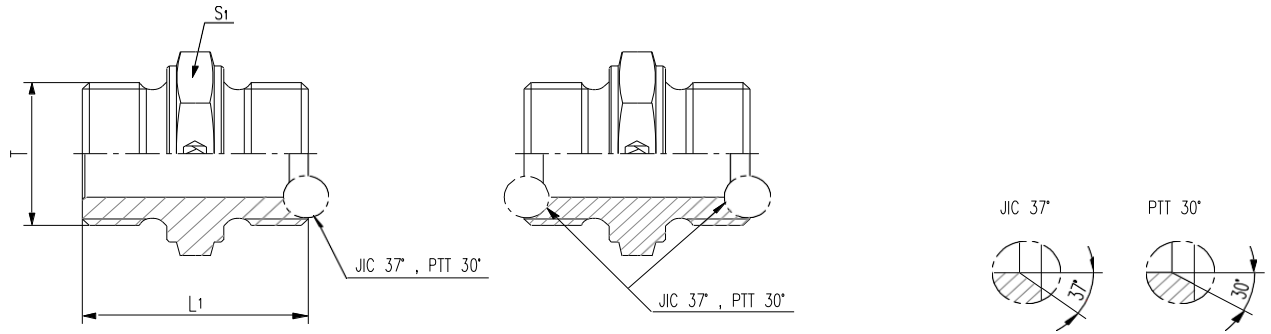
Series	Tube ØD1	T1	D3	L1	L2	L3	L4	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M10x1	4	26.5	19.5	12.5	34	14	14	18	T02-1710	315
	8	M12x1.5	6	31.0	24.0	17.0	39	17	17	32	T02-1711	315
	10	M14x1.5	8	32.0	25.0	17.0	40	19	19	39	T02-1712	315
	12	M16x1.5	10	33.0	26.0	17.0	41	22	22	52	T02-1713	315
	15	M18x1.5	12	35.0	28.0	17.0	43	24	27	68	T02-1714	315
	18	M22x1.5	15	37.0	29.5	19.0	46	30	32	111	T02-1715	315
	22	M26x1.5	19	42.0	34.5	21.0	51	32	36	123	T02-1716	160
	28	M33x2	24	45.0	37.5	24.0	54	41	41	211	T02-1717	160
	35	M42x2	30	51.0	40.5	26.0	62	55	50	459	T02-1718	160
	42	M48x2	36	53.0	42.0	28.0	65	60	60	522	T02-1719	160
S	6	M12x1.5	4	33.0	26.0	17.0	41	17	17	35	T02-1720	630
	8	M14x1.5	5	33.0	26.0	17.0	41	17	19	42	T02-1721	630
	10	M16x1.5	7	34.0	26.5	17.0	43	22	22	58	T02-1722	630
	12	M18x1.5	8	35.0	27.5	17.0	44	24	24	70	T02-1723	630
	14	M20x1.5	10	39.0	31.0	19.0	49	27	27	95	T02-1724	630
	16	M22x1.5	12	39.0	30.5	19.0	49	30	30	114	T02-1725	400
	20	M27x2	16	45.0	34.5	22.0	56	36	36	189	T02-1726	400
	25	M33x2	20	49.0	37.0	24.0	61	41	46	235	T02-1727	400
	30	M42x2	25	55.0	41.5	26.0	68	55	50	490	T02-1728	400
	38	M48x2	32	59.0	43.0	28.0	74	60	60	597	T02-1729	315

FEMALE TO FEMALE CONNECTOR



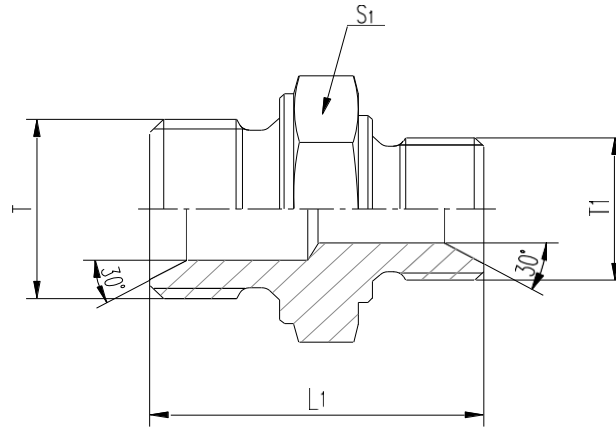
T1	L	S1	Weight g/1 piece	ITEM CODE
G 1/8A	18	14	13	T02-1730
G 1/4A	26	19	37	T02-1731
G 3/8A	26	22	43	T02-1732
G 1/2A	30	27	72	T02-1733
G 3/4A	35	32	99	T02-1734
G 1A	40	41	197	T02-1735
G 1 1/4A	44	50	292	T02-1736
G 1 1/2A	48	55	344	T02-1737
G 2A	52	75	857	T02-1738

MALE TO MALE CONNECTOR



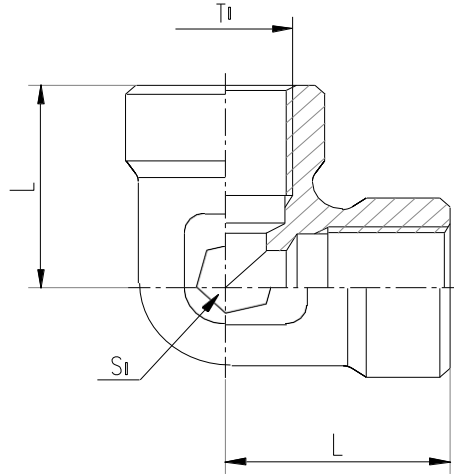
T	L1	S1	JIC 37° SINGLE SIDE		JIC 37° TWO SIDES		PTT 30° SINGLE SIDE		PTT 30° TWO SIDES	
			ITEM CODE	ITEM NAME	ITEM CODE	ITEM NAME	ITEM CODE	ITEM NAME	ITEM CODE	ITEM NAME
G 1/8A	23	14	T02-1739	DZN1/8"	T02-1748	DZN37-1/8"	T02-1757	DN1/8"	T02-1766	DN30-1/8"
G 1/4A	32	19	T02-1740	DZN1/4"	T02-1749	DZN37-1/4"	T02-1758	DN1/4"	T02-1767	DN30-1/4"
G 3/8A	34.5	22	T02-1741	DZN3/8"	T02-1750	DZN37-3/8"	T02-1759	DN3/8"	T02-1768	DN30-3/8"
G 1/2A	40.5	27	T02-1742	DZN1/2"	T02-1751	DZN37-1/2"	T02-1760	DN1/2"	T02-1769	DN30-1/2"
G 3/4A	45	32	T02-1743	DZN3/4"	T02-1752	DZN37-3/4"	T02-1761	DN3/4"	T02-1770	DN30-3/4"
G 1A	52	41	T02-1744	DZN1"	T02-1753	DZN37-1"	T02-1762	DN1"	T02-1771	DN30-1"
G 1 1/4A	55	50	T02-1745	DZN1 1/4"	T02-1754	DZN37-1 1/4"	T02-1763	DN1 1/4"	T02-1772	DN30-1 1/4"
G 1 1/2A	61	55	T02-1746	DZN1 1/2"	T02-1755	DZN37-1 1/2"	T02-1764	DN1 1/2"	T02-1773	DN30-1 1/2"
G 2A	70	70	T02-1747	DZN2"	T02-1756	DZN37-2"	T02-1765	DN2"	T02-1774	DN30-2"

MALE TO MALE ADAPTERS



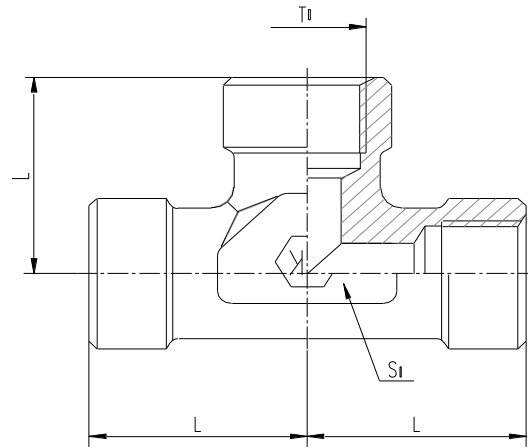
T	T1	L1	S1	ITEM CODE
G 1/4A	G 1/8A	28	19	T02-1775
G 3/8A	G 1/4A	32.5	22	T02-1776
G 1/2A	G 1/4A	35.5	27	T02-1777
G 1/2A	G 3/8A	36	27	T02-1778
G 3/4A	G 3/8A	38.5	32	T02-1779
G 3/4A	G 1/2A	40.5	32	T02-1780
G 1A	G 1/2A	43.5	41	T02-1781
G 1A	G 3/4A	46	41	T02-1782
G 1 1/4A	G 1A	52	50	T02-1783

FEMALE ELBOW



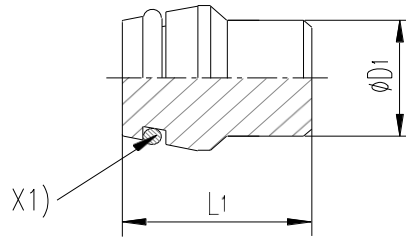
T1	L	S1	Weight g/1 piece	ITEM CODE
G 1/8	24	16	69	T02-1784
G 1/4	22	17	54	T02-1785
G 3/8	26	22	105	T02-1786
G 1/2	31	27	179	T02-1787
G 3/4	35	33	269	T02-1788
G 1	44	41	522	T02-1789
G 1 1/4	44	52	636	T02-1790
G 1 1/2	80	60	1078	T02-1791

FEMALE TEE



T1	L	S1	Weight g/1 piece	ITEM CODE
G 1/8	24	16	94	T02-1792
G 1/4	22	17	75	T02-1793
G 3/8	26	22	141	T02-1794
G 1/2	31	27	225	T02-1795
G 3/4	35	33	365	T02-1796
G 1	44	41	667	T02-1797
G 1 1/4	44	52	739	T02-1798
G 1 1/2	80	60	1327	T02-1799

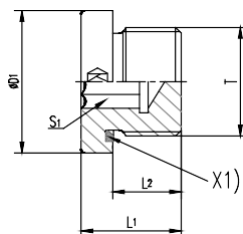
BLANKING PLUG FOR CONES



X1) O-ring OR

Series	Tube ØD1	L1	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	18.5	6	T02-1800	315
	8	18.5	9	T02-1801	315
	10	20.0	15	T02-1802	315
	12	20.5	21	T02-1803	315
	15	20.5	32	T02-1804	315
	18	22.5	49	T02-1805	315
	22	25.0	80	T02-1806	160
	28	25.5	131	T02-1807	160
	35	30.0	240	T02-1808	160
	42	30.0	343	T02-1809	160
S	6	18.5	6	T02-1810	630
	8	18.5	9	T02-1811	630
	10	20.0	15	T02-1812	630
	12	20.5	21	T02-1813	630
	14	22.5	30	T02-1814	630
	16	23.5	40	T02-1815	400
	20	28.5	78	T02-1816	400
	25	29.0	120	T02-1817	400
	30	30.5	180	T02-1818	400
	38	33.0	309	T02-1819	315

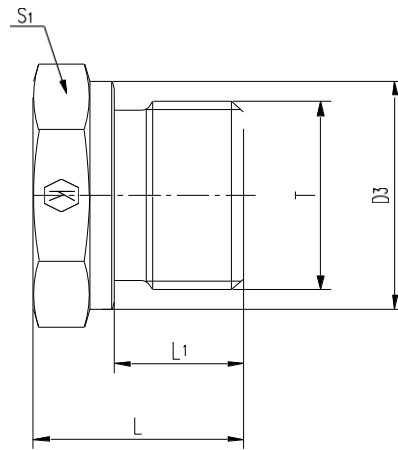
BLANKING PLUG FOR PORTS ED-SEAL BSP / METRIC



X1) Elastic-sealing ED

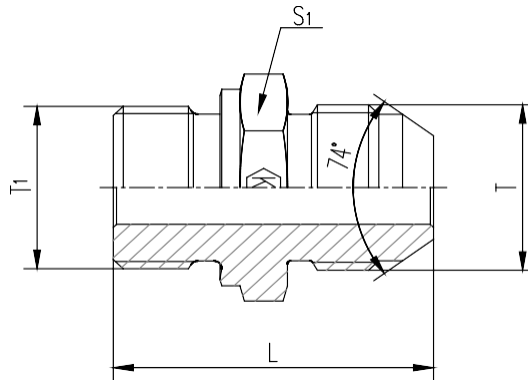
T	ØD1	L1	L2	S1	Weight g/1 piece	ITEM CODE	PN (bar)
G 1/8" A	14	12	8	5	6,5	T02-1820	400
G 1/4" A	19	17	12	6	17	T02-1821	400
G 3/8" A	22	17	12	8	25	T02-1822	400
G 1/2" A	27	19	14	10	41	T02-1823	400
G 3/4" A	32	21	16	12	93	T02-1824	400
G 1" A	40	22.5	16	17	118	T02-1825	400
G 1 1/4" A	50	22.5	16	22	192	T02-1826	315
G 1 1/2" A	55	22.5	16	24	253	T02-1827	315
M10x1	14	12	8	5	7	T02-1828	400
M12x1.5	17	17	12	6	12	T02-1829	400
M14x1.5	19	17	12	6	18	T02-1830	400
M16x1.5	22	17	12	8	23	T02-1831	400
M18x1.5	24	17	12	8	30	T02-1832	400
M20x1.5	26	19	14	10	37	T02-1833	400
M22x1.5	27	19	14	10	46	T02-1834	400
M26x1.5	32	21	16	12	71	T02-1835	400
M27x2	32	21	16	12	79	T02-1836	400
M33x2	40	22.5	16	17	130	T02-1837	400
M42x2	50	22.5	16	22	195	T02-1838	315
M48x2	55	22.5	16	24	263	T02-1839	315

BLANKING PLUG FOR PORTS BSP



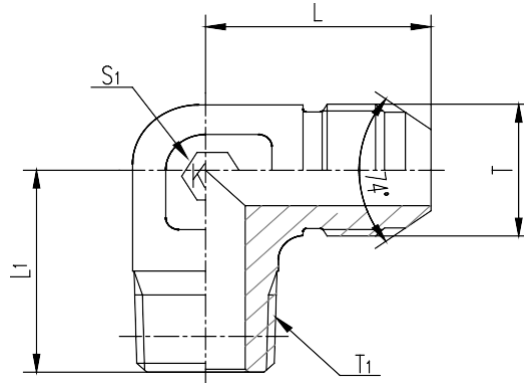
T	L1	L	D3	S1	Weight g/1 piece	ITEM CODE
G 1/8A	8	14	14	14	11	T02-1840
G 1/4A	12	19	18	19	25	T02-1841
G 3/8A	12	20	22	22	42	T02-1842
G 1/2A	14	23	26	27	73	T02-1843
G 3/4A	16	26	32	32	125	T02-1844
G 1A	18	29	39	41	220	T02-1845
G 1 1/4A	20	32	49	50	386	T02-1846
G 1 1/2A	22	36	55	55	561	T02-1847
G 2A	24	44	68	70	1137	T02-1848

MALE STUD CONNECTOR JIC 37°



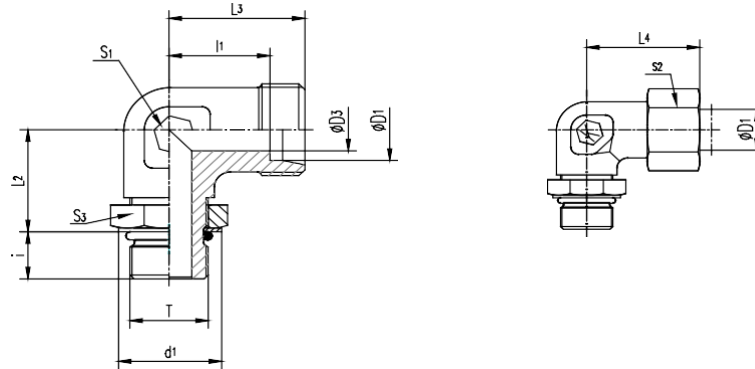
T1	T	L	S1	Weight g/1 piece	ITEM CODE
G 1/4	7/16-20 UNF 2A	33	19	29	T02-1849
G 1/4	1/2-20 UNF 2A	33	19	29	T02-1850
G 1/4	9/16-18 UNF 2A	33	19	27	T02-1851
G 3/8	1/2-20 UNF 2A	34	22	-	T02-1852
G 3/8	9/16-18 UNF 2A	34	22	43	T02-1853
G 3/8	3/4-16 UNF 2A	37	22	48	T02-1854
G 1/2	9/16-18 UNF 2A	37	27	63	T02-1855
G 1/2	3/4-16 UNF 2A	40	27	86	T02-1856
G 1/2	7/8-14 UNF 2A	42	27	79	T02-1857
G 3/4	1 1/16-12 UN 2A	45	32	158	T02-1858
G 3/4	1 5/16-12 UN 2A	48	32	179	T02-1859
G 1	1 5/8-12 UN 2A	54	41	-	T02-1860
G 1 1/4	1 5/8-12 UN 2A	61	50	439	T02-1861
G 1 1/2	1 7/8-12 UN 2A	64	55	457	T02-1862
G 2	2 1/2-12 UN 2A	-	-	-	T02-1863

MALE STUD ELBOW



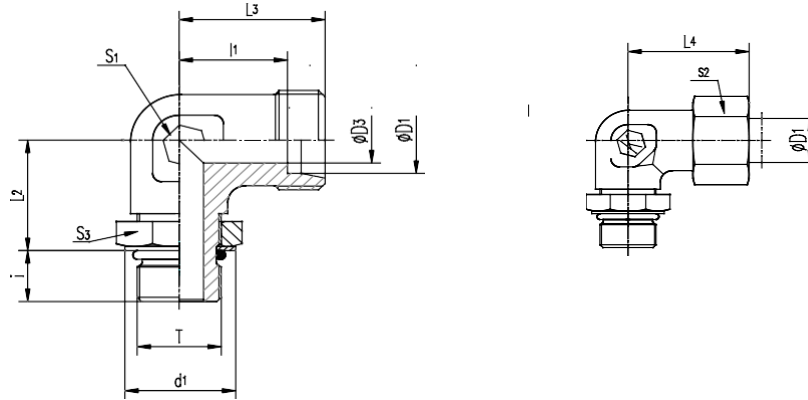
T1 (BSPT)	T	L	L1	S1	Weight g/1 piece	ITEM CODE
1/8"-28	7/16-20 UNF 2A	23	20	12	23	T02-1864
1/8"-28	9/16-18 UNF 2A	25	20	14	30	T02-1865
1/4"-19	1/2-20 UNF 2A	24	27	17	92	T02-1866
1/4"-19	9/16-18 UNF 2A	25	27	17	36	T02-1867
3/8"-19	9/16-18 UNF 2A	25	28	17	50	T02-1868
3/8"-19	3/4-16 UNF 2A	32	28	24	125	T02-1869
1/2"-14	9/16-18 UNF 2A	34	34	24	123	T02-1870
1/2"-14	3/4-16 UNF 2A	32	34	24	153	T02-1871
3/4"-14	1 1/16-12 UN 2A	39	42	27	193	T02-1872
1"-11	1 5/16-12 UN 2A	44	48	36	366	T02-1873

BULKHEAD ELBOW BSP



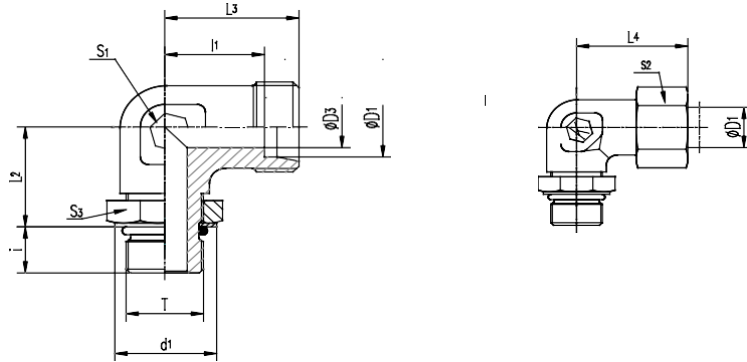
Series	Tube ØD1	T	L4	L3	L1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	G 1/8A	27	19	12	19	7	15	12	14	14	OR 8x1.88	T02-1874	315
	8	G 1/4A	29	21	14	23	9	20	12	17	17	OR 10.77x2.62	T02-1875	315
	10	G 1/4A	30	22	15	25	9	20	14	19	19	OR 10.77x2.62	T02-1876	315
	12	G 3/8A	32	24	17	28	9	23	17	22	22	OR 13.94x2.62	T02-1877	250
	15	G 1/2A	36	28	21	30	13	28	19	27	24	OR 17x3	T02-1878	250
	18	G 1/2A	40	31	23.5	36	13	28	24	32	27	OR 17x3	T02-1879	250
	22	G 3/4A	44	35	27.5	36	13	33	27	36	32	OR 22.5x3	T02-1880	160
	28	G 1A	47	38	30.5	44	15	41	36	41	41	OR 28x3.15	T02-1881	160
	35	G 1 1/4A	56	45	34.5	50	15	51	41	50	50	OR 37.69x3.53	T02-1882	160
	42	G 1 1/2A	63	51	40	52	15	56	50	60	55	OR 44.04x3.53	T02-1883	160
S	6	G 1/4A	31	23	16	23	9	20	12	17	17	OR 10.77x2.62	T02-1884	315
	8	G 1/4A	32	24	17	27	9	20	14	19	19	OR 10.77x2.62	T02-1885	315
	10	G 3/8A	34	25	17.5	29	9	23	17	22	22	OR 13.94x2.62	T02-1886	250
	12	G 3/8A	38	29	21.5	29	9	23	19	24	24	OR 13.94x2.62	T02-1887	250
	14	G 1/2A	40	30	22	36	13	28	19	27	27	OR 17x3	T02-1888	250
	16	G 1/2A	43	33	24.5	36	13	28	24	30	27	OR 17x3	T02-1889	250
	20	G 3/4A	48	37	26.5	39	12	33	27	36	32	OR 22.5x3	T02-1890	250
	25	G 1A	54	42	30	44	14	41	36	46	41	OR 28x3.15	T02-1891	250
	30	G 1 1/4A	62	49	35.5	49	15	51	41	50	50	OR 37.69x3.53	T02-1892	160
	38	G 1 1/2A	72	57	41	55	15	56	50	60	55	OR 44.04x3.53	T02-1893	160

BULKHEAD ELBOW METRIC



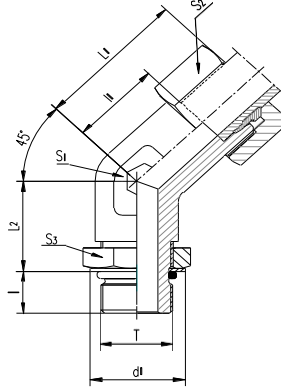
Series	Tube ØD1	T	L4	L3	L1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	M10x1	27	19	12	20	7	15	12	14	14	OR 8.1x1.6	T02-1894	315
	8	M12x1.5	29	21	14	22	10	18	12	17	17	OR9.3x2.2	T02-1895	315
	10	M14x1.5	30	22	15	25	10	20	14	19	19	OR 11.3x2.2	T02-1896	315
	12	M16x1.5	32	24	17	26	10	23	17	22	22	OR 13.3x2.2	T02-1897	315
	15	M18x1.5	36	28	21	30	11	25	19	27	24	OR 15.3x2.2	T02-1898	315
	18	M22x1.5	40	31	23.5	33	12	28	24	32	27	OR 19.3x2.2	T02-1899	315
	22	M26x1.5	44	35	27.5	35	14	33	27	36	32	OR 23.6x2.9	T02-1900	160
	28	M33x2	47	38	30.5	38	14	41	36	41	41	OR 29.6x2.9	T02-1901	160
	35	M42x2	56	45	34.5	48	14	51	41	50	50	OR 38.6x2.9	T02-1902	160
	42	M48x2	63	51	40	49	16	56	50	60	55	OR 44.6x2.9	T02-1903	160
S	6	M12x1.5	31	23	16	22	10	18	12	17	17	OR 9.3x2.2	T02-1904	400
	8	M14x1.5	32	24	17	26	10	20	14	19	19	OR 11.3x2.2	T02-1905	400
	10	M16x1.5	34	25	17.5	27	11	23	17	22	22	OR 13.3x2.2	T02-1906	400
	12	M18x1.5	38	29	21.5	31	12	25	19	24	24	OR 15.3x2.2	T02-1907	400
	14	M20x1.5	40	30	22	35	14	28	19	27	27	OR 19.3x2.2	T02-1908	400
	16	M22x1.5	43	33	24.5	35	14	28	24	30	27	OR 19.3x2.2	T02-1909	400
	20	M27x2	48	37	26.5	39	16	33	27	36	32	OR 23.6x2.9	T02-1910	400
	25	M33x2	54	42	30	44	16	41	36	46	41	OR 29.6x2.9	T02-1911	315
	30	M42x2	62	49	35.5	51	17	51	41	50	50	OR 38.6x2.9	T02-1912	250
	38	M48x2	72	57	41	54	19	56	50	60	55	OR 44.6x2.9	T02-1913	200

BULKHEAD ELBOW METRIC



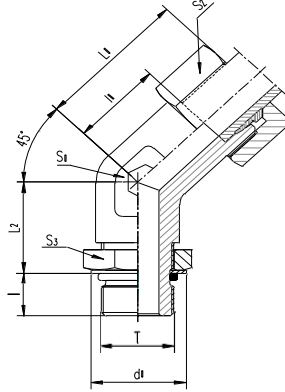
Series	Tube ØD1	T	L4	L3	l1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN(bar)
L	6	7/16"-20UNF	27	19	12	19	10	16.5	12	14	14	OR 9.17x1.83	T02-1914	315
	8	7/16"-20UNF	29	21	14	19	10	18.3	12	17	14	OR 9.17x1.83	T02-1915	315
	10	9/16"-18UNF	30	22	15	24	10	20.2	14	19	17	OR 11.89x1.98	T02-1916	315
	12	3/4"-16UNF	32	24	17	25	13	25.7	17	22	22	OR 16.36x2.21	T02-1917	315
	15	7/8"-14UNF	36	28	21	28	15	29.3	19	27	27	OR 19.18x2.46	T02-1918	315
	18	7/8"-14UNF	40	31	23.5	32	15	29.3	24	32	27	OR 19.18x2.46	T02-1919	315
	22	1 1/16"-12UN	44	35	27.5	35	17	36.7	27	36	32	OR 23.47x2.95	T02-1920	160
	28	1 5/16"-12UN	47	38	30.5	42	17	44	36	41	41	OR 29.74x2.95	T02-1921	160
	35	1 5/8"-12UN	56	45	34.5	46	17	55	41	50	50	OR 37.47x3	T02-1922	160
	42	1 7/8"-12UN	63	51	40	47	17	55	50	60	55	OR 43.69x3	T02-1923	160
S	6	7/16"-20UNF	31	23	16	20	12	16.5	12	17	14	OR 9.17x1.83	T02-1924	400
	8	9/16"-18UNF	32	24	17	25	12	18.3	14	19	17	OR 11.89x1.98	T02-1925	400
	10	9/16"-18UNF	34	25	17.5	26	12	20.2	17	22	17	OR 11.89x1.98	T02-1926	400
	12	3/4"-16UNF	38	29	21.5	30	14	25.7	19	24	22	OR 16.36x2.21	T02-1927	400
	14	7/8"-14UNF	40	30	22	34	16	29	19	27	27	OR 19.18x2.46	T02-1928	400
	16	7/8"-14UNF	43	33	24.5	34	16	29	24	30	27	OR 19.18x2.46	T02-1929	400
	20	1 1/16"-12UN	48	37	26.5	37	19	37	27	36	32	OR 23.47x2.95	T02-1930	400
	25	1 5/16"-12UN	54	42	30	50	19	44	36	46	41	OR 29.74x2.95	T02-1931	400
	30	1 5/8"-12UN	62	49	35.5	50	19	55	41	50	50	OR 37.47x3	T02-1932	250
	38	1 7/8"-12UN	72	57	41	51	19	55	50	60	55	OR 43.69x3	T02-1933	250

BULKHEAD ELBOW 45° BSP



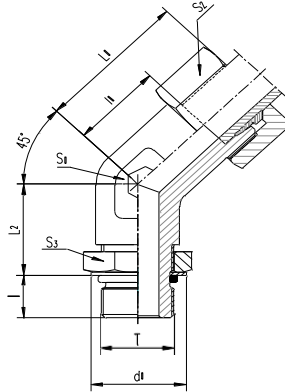
Series	Tube ØD1	T	L1	L2	L	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	G 1/8A	27	12	21	7	15	12	14	14	OR 8x1.88	T02-1934	315
	8	G 1/4A	29	14	20	9	20	12	17	17	OR 10.77x2.62	T02-1935	315
	10	G 1/4A	30	15	25	9	20	14	19	19	OR 10.77x2.62	T02-1936	315
	12	G 3/8A	32	17	28	9	23	17	22	22	OR 13.94x2.62	T02-1937	250
	15	G 1/2A	36	21	26	13	28	19	27	24	OR 17x3	T02-1938	250
	18	G 1/2A	40	23.5	32	13	28	24	32	27	OR 17x3	T02-1939	250
	22	G 3/4A	44	27.5	37	13	33	27	36	32	OR 22.5x3	T02-1940	160
	28	G 1A	47	30.5	37	15	41	36	41	41	OR 28x3.15	T02-1941	160
	35	G 1 1/4A	56	34.5	39	15	51	41	50	50	OR 37.69x3.53	T02-1942	160
	42	G 1 1/2A	63	40	39	15	56	50	60	55	OR 44.04x3.53	T02-1943	160
S	6	G 1/4A	31	16	19	9	20	12	17	17	OR 10.77x2.62	T02-1944	315
	8	G 1/4A	32	17	23	9	20	14	19	19	OR 10.77x2.62	T02-1945	315
	10	G 3/8A	34	17.5	25	9	23	17	22	22	OR 13.94x2.62	T02-1946	250
	12	G 3/8A	38	21.5	25	9	23	19	24	24	OR 13.94x2.62	T02-1947	250
	14	G 1/2A	40	22	31	13	28	19	27	27	OR 17x3	T02-1948	250
	16	G 1/2A	43	24.5	31	13	28	24	30	27	OR 17x3	T02-1949	250
	20	G 3/4A	48	26.5	34	12	33	27	36	32	OR 22.5x3	T02-1950	250
	25	G 1A	54	30	37	14	41	36	46	41	OR 28x3.15	T02-1951	250
	30	G 1 1/4A	62	35.5	38	15	51	41	50	50	OR 37.69x3.53	T02-1952	160
	38	G 1 1/2A	72	41	38	15	56	50	60	55	OR 44.04x3.53	T02-1953	160

BULKHEAD ELBOW 45° METRIC



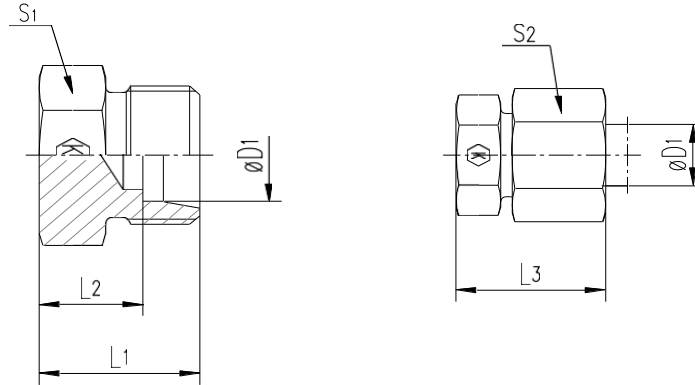
Series	Tube ØD1	T	L1	I1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	M10x1	27	12	20	7	15	12	14	14	OR 8.1x1.6	T02-1954	315
	8	M12x1.5	29	14	22	10	18	12	17	17	OR 9.3x2.2	T02-1955	315
	10	M14x1.5	30	15	25	10	20	14	19	19	OR 11.3x2.2	T02-1956	315
	12	M16x1.5	32	17	26	10	23	17	22	22	OR 13.3x2.2	T02-1957	315
	15	M18x1.5	36	21	30	11	25	19	27	24	OR 15.3x2.2	T02-1958	315
	18	M22x1.5	40	23.5	33	12	28	24	32	27	OR 19.3x2.2	T02-1959	315
	22	M26x1.5	44	27.5	35	14	33	27	36	32	OR 23.6x2.9	T02-1960	160
	28	M33x2	47	30.5	38	14	41	36	41	41	OR 29.6x2.9	T02-1961	160
	35	M42x2	56	34.5	48	14	51	41	50	50	OR 38.6x2.9	T02-1962	160
	42	M48x2	63	40	49	16	56	50	60	55	OR 44.6x2.9	T02-1963	160
S	6	M12x1.5	31	16	22	10	18	12	17	17	OR 9.3x2.2	T02-1964	400
	8	M14x1.5	32	17	26	10	20	14	19	19	OR 11.3x2.2	T02-1965	400
	10	M16x1.5	34	17.5	27	11	23	17	22	22	OR 13.3x2.2	T02-1966	400
	12	M18x1.5	38	21.5	31	12	25	19	24	24	OR 15.3x2.2	T02-1967	400
	14	M20x1.5	40	22	35	14	28	19	27	27	OR 19.3x2.2	T02-1968	400
	16	M22x1.5	43	24.5	35	14	28	24	30	27	OR 19.3x2.2	T02-1969	400
	20	M27x2	48	26.5	39	16	33	27	36	32	OR 23.6x2.9	T02-1970	400
	25	M33x2	54	30	44	16	41	36	46	41	OR 29.6x2.9	T02-1971	315
	30	M42x2	62	35.5	51	17	51	41	50	50	OR 38.6x2.9	T02-1972	250
	38	M48x2	72	41	54	19	56	50	60	55	OR 44.6x2.9	T02-1973	200

BULKHEAD ELBOW 45° UN/UNF



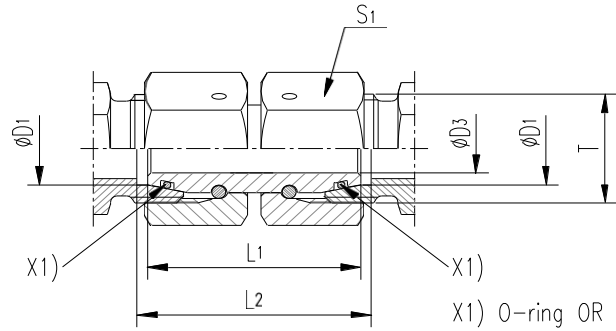
Series	Tube ØD1	T	L1	I1	L2	i	d1	S1	S2	S3	O-RING	ITEM CODE	PN (bar)
L	6	7/16"-20 UNF	27	12	19	10	16.5	12	14	14	OR 9.17x1.83	T02-1974	315
	8	7/16"-20 UNF	29	14	19	10	18.3	12	17	14	OR 9.17x1.83	T02-1975	315
	10	9/16"-18 UNF	30	15	24	10	20.2	14	19	17	OR 11.89x1.98	T02-1976	315
	12	3/4"-16 UNF	32	17	24	13	25.7	17	22	22	OR 16.36x2.21	T02-1977	315
	15	7/8"-14 UNF	36	21	24	15	29.3	19	27	27	OR 19.18x2.46	T02-1978	315
	18	7/8"-14 UNF	40	23.5	30	15	29.3	24	32	27	OR 19.18x2.46	T02-1979	315
	22	1 1/16"-12 UN	44	27.5	33	17	36.7	27	36	32	OR 23.47x2.95	T02-1980	160
	28	1 5/16"-12 UN	47	30.5	35	17	44	36	41	41	OR 29.74x2.95	T02-1981	160
	35	1 5/8"-12 UN	56	34.5	37	17	55	41	50	50	OR 37.47x3	T02-1982	160
	42	1 7/8"-12 UN	63	40	37	17	55	50	60	55	OR 43.69x3	T02-1983	160
S	6	7/16"-20 UNF	31	16	18	12	16.5	12	17	14	OR 9.17x1.83	T02-1984	400
	8	9/16"-18 UNF	32	17	21	12	18.3	14	19	17	OR 11.89x1.98	T02-1985	400
	10	9/16"-18 UNF	34	17.5	21	12	20.2	17	22	17	OR 11.89x1.98	T02-1986	400
	12	3/4"-16 UNF	38	21.5	22	14	25.7	19	24	22	OR 16.36x2.21	T02-1987	400
	14	7/8"-14 UNF	40	22	29	16	29.3	19	27	27	OR 19.18x2.46	T02-1988	400
	16	7/8"-14 UNF	43	24.5	29	16	29.3	24	30	27	OR 19.18x2.46	T02-1989	400
	20	1 1/16"-12 UN	48	26.5	31	19	36.7	27	36	32	OR 23.47x2.95	T02-1990	400
	25	1 5/16"-12 UN	54	30	33	19	44	36	46	41	OR 29.74x2.95	T02-1991	400
	30	1 5/8"-12 UN	62	35.5	35	19	55	41	50	50	OR 37.47x3	T02-1992	250
	38	1 7/8"-12 UN	72	41	35	19	55	50	60	55	OR 43.69x3	T02-1993	250

BLANKING PLUG FOR TUBE ENDS



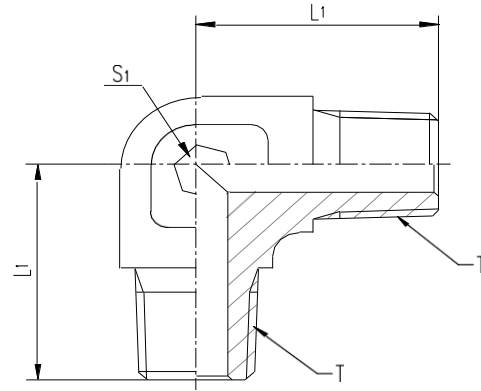
Series	Tube ØD1	L1	L2	L3	S1	S2	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	14	7.0	22	12	14	8	T02-1994	315
	8	15	8.0	23	14	17	13	T02-1995	315
	10	16	9.0	24	17	19	17	T02-1996	315
	12	17	10.0	25	19	22	24	T02-1997	315
	15	18	11.0	26	24	27	41	T02-1998	315
	18	19	11.5	28	27	32	56	T02-1999	315
	22	21	13.5	30	32	36	84	T02-2000	160
	28	22	14.5	31	41	41	138	T02-2001	160
	35	25	14.5	36	46	50	203	T02-2002	160
	42	27	16.0	39	55	60	318	T02-2003	160
S	6	18	11.0	26	14	17	17	T02-2004	630
	8	20	13.0	28	17	19	28	T02-2005	630
	10	20	12.5	29	19	22	33	T02-2006	630
	12	22	14.5	31	22	24	50	T02-2007	630
	14	24	16.0	34	24	27	62	T02-2008	630
	16	24	15.5	34	27	30	75	T02-2009	400
	20	28	17.5	39	32	36	125	T02-2010	400
	25	32	20.0	44	41	46	229	T02-2011	400
	30	34	20.5	47	46	50	310	T02-2012	400
	38	39	23.0	54	55	60	508	T02-2013	315

SWIVEL UNION



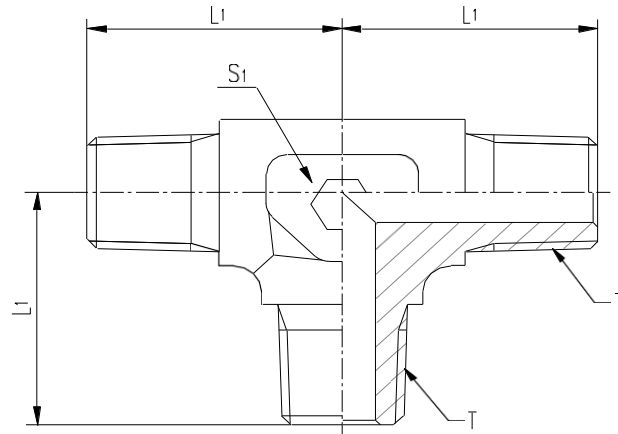
Series	Tube $\phi D1$	T	D3	L1	L2	S1	Weight g/1 piece	ITEM CODE	PN (bar)
L	6	M12x1,5	2.5	32	33	14	28	T02-2014	500
	8	M14x1,5	4.0	32	33	17	41	T02-2015	500
	10	M16x1,5	6.0	33	34	19	53	T02-2016	500
	12	M18x1,5	8.0	33	34	22	71	T02-2017	400
	15	M22x1,5	10.0	38	39	27	129	T02-2018	400
	18	M26x1,5	13.0	36	38	32	165	T02-2019	400
	22	M30x2	17.0	42	44	36	243	T02-2020	250
	28	M36x2	22.0	46	48	41	319	T02-2021	250
	35	M45x2	28.0	48	52	50	449	T02-2022	250
	42	M52x2	34.0	52	57	60	737	T02-2023	250
S	6	M14x1,5	2.5	32	33	17	41	T02-2024	800
	8	M16x1,5	4.0	33	34	19	54	T02-2025	800
	10	M18x1,5	6.0	33	35	22	74	T02-2026	800
	12	M20x1,5	8.0	36	38	24	95	T02-2027	630
	14	M22x1,5	9.0	39	41	27	131	T02-2028	630
	16	M24x1,5	11.0	39	42	30	172	T02-2029	630
	20	M30x2	14.0	44	48	36	261	T02-2030	420
	25	M36x2	18.0	46	53	46	477	T02-2031	420
	30	M42x2	23.0	52	62	50	605	T02-2032	420
	38	M52x2	30.0	52	67	60	826	T02-2033	420

MALE ADAPTER 90°



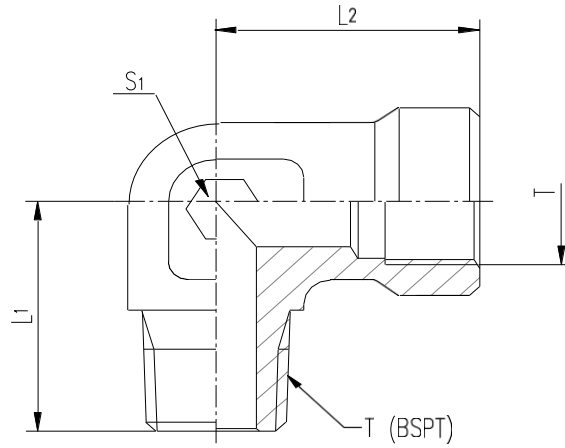
T (BSPT)	L1	S1	ITEM CODE	PN (Bar)
G 1/8	20	12	T02-2034	400
G 1/4	27	14	T02-2035	400
G 3/8	28	17	T02-2036	400
G 1/2	36	24	T02-2037	350
G 3/4	42	27	T02-2038	250
G 1	48	36	T02-2039	250
G 1 1/4	54	41	T02-2040	160
G 1 1/2	61	50	T02-2041	160

MALE STUD BRANCH TEE ADAPTER



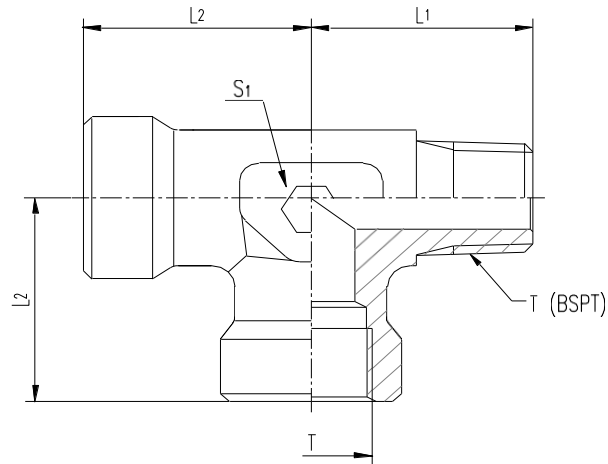
T (BSPT)	L1	S1	ITEM CODE	PN (Bar)
G 1/8	20	12	T02-2042	400
G 1/4	27	14	T02-2043	400
G 3/8	28	17	T02-2044	400
G 1/2	36	24	T02-2045	350
G 3/4	42	27	T02-2046	250
G 1	48	36	T02-2047	250
G 1 1/4	54	41	T02-2048	160
G 1 1/2	61	50	T02-2395	160

MALE STUD ADAPTER 90°



T	L1	L2	S1	ITEM CODE	PN (Bar)
G 1/8	20	24	17	T02-2049	400
G 1/4	27	25	19	T02-2050	400
G 3/8	28	26	22	T02-2051	400
G 1/2	36	34	27	T02-2052	350
G 3/4	42	42	36	T02-2053	250
G 1	48	45	41	T02-2054	250
G 1 1/4	54	59	50	T02-2055	160
G 1 1/2	-	-	-	T02-2056	160

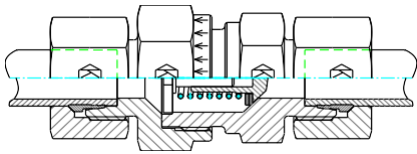
MALE STUD ADAPTER 90°



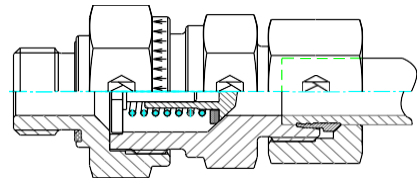
T	L1	L2	S1	ITEM CODE	PN (Bar)
G 1/8	20	24	17	T02-2057	400
G 1/4	27	25	19	T02-2058	400
G 3/8	28	26	22	T02-2059	400
G 1/2	36	34	27	T02-2060	350
G 3/4	42	42	36	T02-2061	250
G 1	48	45	41	T02-2062	250
G 1 1/4	54	59	50	T02-2063	160
G 1 1/2	-	-	-	T02-2064	160

NON RETURN VALVES

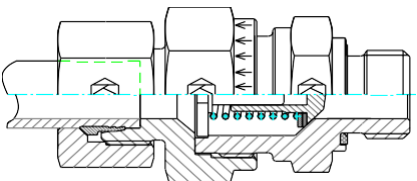
Non Return Valve



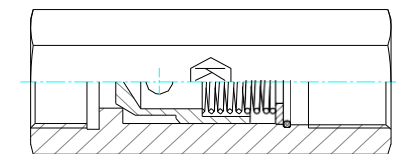
Non Return Valve



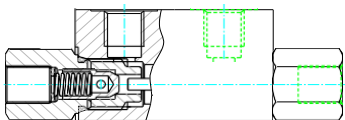
Non Return Valve



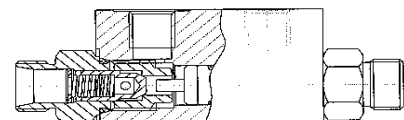
Non Return Valve



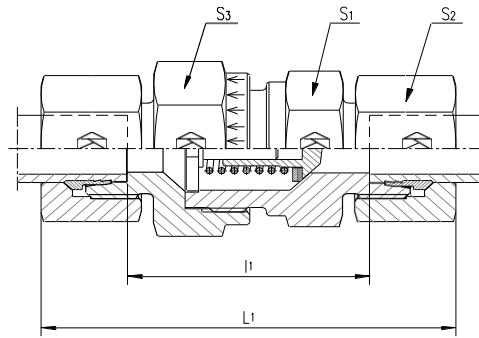
Check Valve



Check Valve

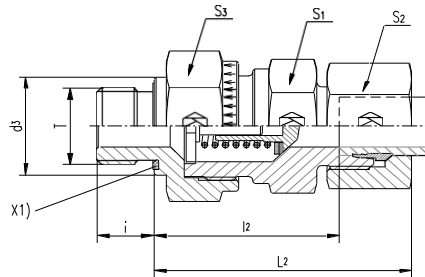


NON RETURN VALVES 24° CONE END



Series	Tube ØD1	I1	L1	S1	S2	S3	ITEM CODE	PN (bar)
L	6	29	58	17	14	17	T02-2065	250
	8	30	59	19	17	19	T02-2066	250
	10	40.5	69.5	22	19	24	T02-2067	250
	12	43.5	72.5	27	22	30	T02-2068	250
	15	47.5	77.5	27	27	32	T02-2069	250
	18	51.5	83.5	36	32	36	T02-2070	160
	22	61.5	93.5	41	36	46	T02-2071	160
	28	69.5	102.5	50	41	55	T02-2072	100
	35	74.5	117.5	60	50	60	T02-2073	100
	42	74	119	65	60	70	T02-2074	100
S	6	34.5	63.5	19	17	19	T02-2075	400
	8	34.5	63.5	19	19	19	T02-2076	400
	10	40.5	72.5	22	22	24	T02-2077	400
	12	42.5	74.5	24	24	27	T02-2078	400
	14	47.5	82.5	27	27	32	T02-2079	400
	16	50.5	86.5	32	30	36	T02-2080	400
	20	54.5	97.5	41	36	46	T02-2081	400
	25	58.5	106.5	46	46	50	T02-2082	250
	30	69.5	122.5	60	50	60	T02-2083	250
	38	75.5	136.5	65	60	70	T02-2084	250

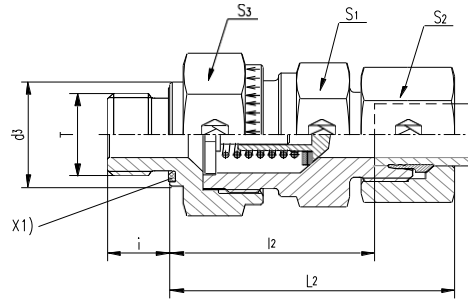
NON RETURN VALVES ED SEAL BSP



X1) Elastic-sealing ED

Series	Tube ØD1	T	i	d3	l2	L2	S1	S2	S3	ITEM CODE	PN (bar)
L	6	G 1/8A	8	13.9	26.5	41	17	14	17	T02-2085	250
	8	G 1/4A	12	18.9	28.5	43	19	17	19	T02-2086	250
	10	G 1/4A	12	18.9	38.5	53	22	19	24	T02-2087	250
	12	G 3/8A	12	21.9	40.5	55	27	22	30	T02-2088	250
	15	G 1/2A	14	26.9	42.5	57.5	27	27	32	T02-2089	250
	18	G 1/2A	14	26.9	48	64	36	32	36	T02-2090	160
	22	G 3/4A	16	31.9	56	72	41	36	46	T02-2091	160
	28	G 1A	18	39.9	64	80.5	50	41	55	T02-2092	100
	35	G 1 1/4A	20	49.9	70	91.5	60	50	60	T02-2093	100
	42	G 1 1/2A	22	54.9	70.5	93	65	60	70	T02-2094	100
S	6	G 1/4A	12	18.9	31.5	46	19	17	19	T02-2095	400
	8	G 1/4A	12	18.9	31.5	46	19	19	19	T02-2096	400
	10	G 3/8A	12	21.9	38	54	22	22	24	T02-2097	400
	12	G 3/8A	12	21.9	41	57	24	24	27	T02-2098	400
	14	G 1/2A	14	26.9	43.5	61	27	27	32	T02-2099	400
	16	G 1/2A	14	26.9	46	64	32	30	36	T02-2100	400
	20	G 3/4A	16	31.9	50	71.5	41	36	46	T02-2101	400
	25	G 1A	18	39.9	54.5	78.5	46	46	50	T02-2102	250
	30	G 1 1/4A	20	49.9	64	90.5	60	50	60	T02-2103	250
	38	G 1 1/2A	22	54.9	71.5	102	65	60	70	T02-2104	250

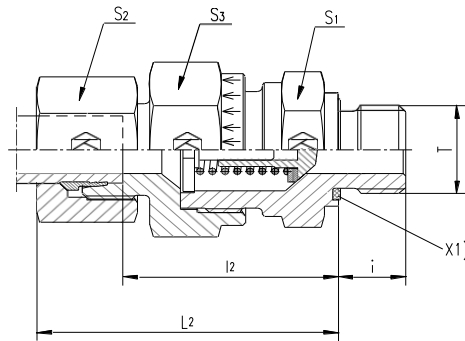
NON RETURN VALVES ED-SEAL MALE METRIC



X1) Elastic-sealing ED

Series	Tube ØD1	T	i	d3	l2	L2	S1	S2	S3	ITEM CODE	PN (bar)
L	6	M10x1	8	13.9	26.5	41	17	14	17	T02-2105	250
	8	M12x1.5	12	16.9	28.5	43	19	17	19	T02-2106	250
	10	M14x1.5	12	18.9	38.5	53	22	19	24	T02-2107	250
	12	M16x1.5	12	21.9	40.5	55	27	22	30	T02-2108	250
	15	M18x1.5	12	23.9	42.5	57.5	27	27	32	T02-2109	250
	18	M22x1.5	14	26.9	48	64	36	32	36	T02-2110	160
	22	M26x1.5	16	31.9	56	72	41	36	46	T02-2111	160
	28	M33x2	18	39.9	64	80.5	50	41	55	T02-2112	100
	35	M42x2	20	49.9	70	91.5	60	50	60	T02-2113	100
	42	M48x2	22	54.9	70.5	93	65	60	70	T02-2114	100
S	6	M12x1.5	12	16.9	31.5	46	19	17	19	T02-2115	400
	8	M14x1.5	12	18.9	31.5	46	19	19	19	T02-2116	400
	10	M16x1.5	12	21.9	38	54	22	22	24	T02-2117	400
	12	M18x1.5	12	23.9	41	57	24	24	27	T02-2118	400
	14	M20x1.5	14	25.9	43.5	61	27	27	32	T02-2119	400
	16	M22x1.5	14	26.9	46	64	32	30	36	T02-2120	400
	20	M27x2	16	31.9	50	71.5	41	36	46	T02-2121	400
	25	M33x2	18	39.9	54.5	78.5	46	46	50	T02-2122	250
	30	M42x2	20	49.9	64	90.5	60	50	60	T02-2123	250
	38	M48x2	22	54.9	71.5	102	65	60	70	T02-2124	250

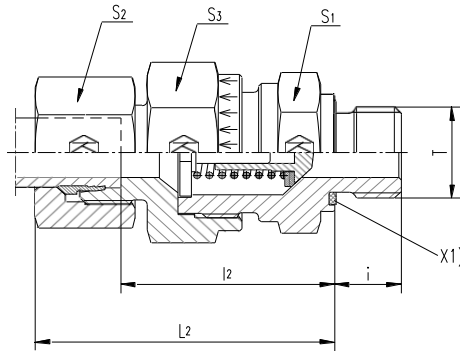
NON RETURN VALVES



X1) Elastic-sealing ED

Series	Tube ØD1	T	i	L2	L2	S1	S2	S3	ITEM CODE	PN (bar)
L	6	G 1/8A	8	28	42.5	17	14	17	T02-2125	250
	8	G 1/4A	12	30	44.5	19	17	19	T02-2126	250
	10	G 1/4A	12	38.5	53	22	19	24	T02-2127	250
	12	G 3/8A	12	42.5	57	27	22	30	T02-2128	250
	15	G 1/2A	14	45.5	60.5	27	27	32	T02-2129	250
	18	G 1/2A	14	50	66	36	32	36	T02-2130	160
	22	G 3/4A	16	55	71	41	36	46	T02-2131	160
	28	G 1A	18	63	79.5	50	41	55	T02-2132	100
	35	G 1 1/4A	20	69	90.5	60	50	60	T02-2133	100
	42	G 1 1/2A	22	68.5	91	65	60	70	T02-2134	100
S	6	G 1/4A	12	31.5	46	19	17	19	T02-2135	400
	8	G 1/4A	12	31.5	46	19	19	19	T02-2136	400
	10	G 3/8A	12	38	54	22	22	24	T02-2137	400
	12	G 3/8A	12	41	57	24	24	27	T02-2138	400
	14	G 1/2A	14	44.5	62	27	27	32	T02-2139	400
	16	G 1/2A	14	48	66	32	30	36	T02-2140	400
	20	G 3/4A	16	52	73.5	41	36	46	T02-2141	400
	25	G 1A	18	54.5	78.5	46	46	50	T02-2142	250
	30	G 1 1/4A	20	64	90.5	60	50	60	T02-2143	250
	38	G 1 1/2A	22	69.5	100	65	60	70	T02-2144	250

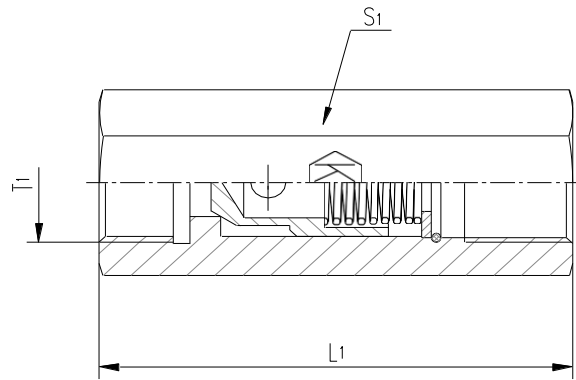
NON RETURN VALVES ED-SEAL MALE METRIC



X1) Elastic-sealing ED

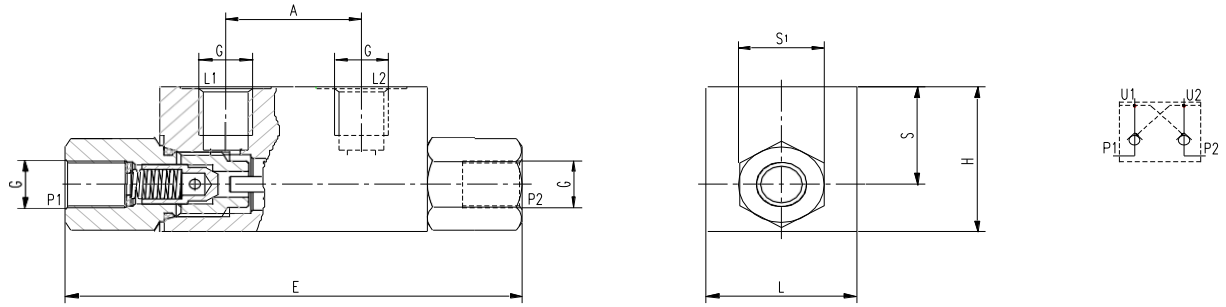
Series	Tube ØD1	T	i	l2	L2	S1	S2	S3	ITEM CODE	PN (bar)
L	6	M10x1	8	28	42.5	17	14	17	T02-2145	250
	8	M12x1.5	12	29	43.5	19	17	19	T02-2146	250
	10	M14x1.5	12	38.5	53	22	19	24	T02-2147	250
	12	M16x1.5	12	42.5	57	27	22	30	T02-2148	250
	15	M18x1.5	12	45.5	60.5	27	27	32	T02-2149	250
	18	M22x1.5	14	50	66	36	32	36	T02-2150	160
	22	M26x1.5	16	55	71	41	36	46	T02-2151	160
	28	M33x2	18	63	79.5	50	41	55	T02-2152	100
	35	M42x2	20	69	90.5	60	50	60	T02-2153	100
	42	M48x2	22	68.5	91	65	60	70	T02-2154	100
S	6	M12x1.5	12	31.5	46	19	17	19	T02-2155	400
	8	M14x1.5	12	31.5	46	19	19	19	T02-2156	400
	10	M16x1.5	12	38	54	22	22	24	T02-2157	400
	12	M18x1.5	12	41	57	24	24	27	T02-2158	400
	14	M20x1.5	14	44.5	62	27	27	32	T02-2159	400
	16	M22x1.5	14	48	66	32	30	36	T02-2160	400
	20	M27x2	16	52	73.5	41	36	46	T02-2161	400
	25	M33x2	18	54.5	78.5	46	46	50	T02-2162	250
	30	M42x2	20	64	90.5	60	50	60	T02-2163	250
	38	M48x2	22	69.5	100	65	60	70	T02-2164	250

NON RETURN VALVES



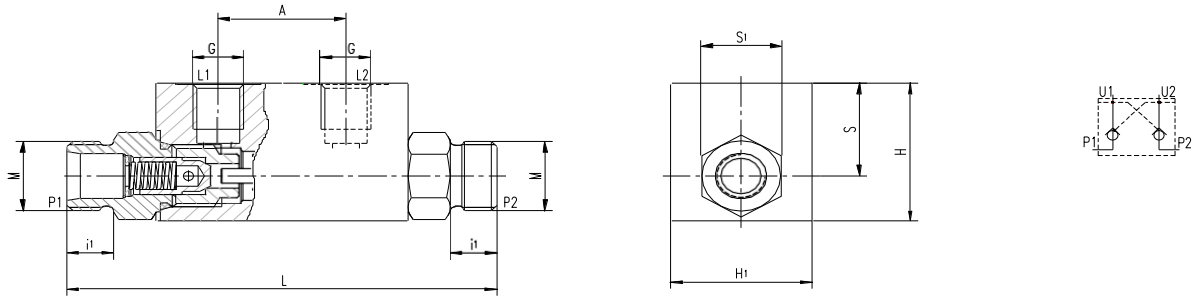
T1	L1	S1	ITEM CODE	PN (bar)
G 1/4	58	19	T02-2165	320
G 3/8	58	24	T02-2166	320
G 1/2	73	27	T02-2167	320

TWIN CHECK VALVE FEMALE



Type	A	S	E	H	L	G	ITEM CODE
G 1/4	30	25	130	40	30	G 1/4	T02-2168
G 3/8	30	25	130	40	30	G 3/8	T02-2169
G 1/2	35	30	165	50	35	G 1/2	T02-2170

TWIN CHECK VALVE



Type	A	M	i1	S	H	H1	L	G	ITEMCODE
G 1/4	30	M18x1.5	11	35	30	40	110	G 1/4	T02-2171
G 3/8	30	M18x1.5	11	35	30	40	110	G 3/8	T02-2172
G 1/2	35	M18x1.5	11	40	40	60	175	G 1/2	T02-2173

SEALING COMPONENTS

Elastic Soft Seal



O-Ring o Fittings 24° DKO Swivel



Sealing ring for Pressure Gauge Connectors



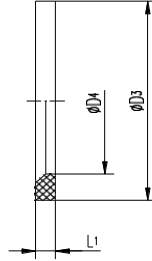
Bonded Seals



Soft Sealing Ring for Banjo Fittings

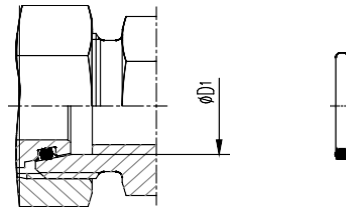


SOFT SEAL



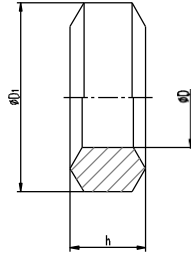
T1	T1	D3	D4	L1	Weight g/1 piece	ITEM CODE	ITEM NAME	ITEM CODE	ITEM NAME
M 8x1	-	9.9	6.5	1.0	0.1	T02-2174	PLXM8X1	-	-
M 10x1	G 1/8A	11.9	8.4	1.0	0.1	T02-2175	PLXM10X1	T02-2187	PLX1/8"
M 12x1.5	-	14.4	9.8	1.5	0.2	T02-2176	PLXM12X1.5	-	-
M14x1.5	G 1/4A	16.5	11.6	1.5	0.2	T02-2177	PLXM14X1.5	T02-2188	PLX1/4"
M16x1.5	-	18.9	13.8	1.5	0.1	T02-2178	PLXM16X1.5	-	-
-	G 3/8A	18.9	14.7	1.5	0.2	-	-	T02-2189	PLX3/8"
M18x1.5	-	20.9	15.7	1.5	0.1	T02-2179	PLXM18X1.5	-	-
M 20x1.5	-	22.9	17.8	1.5	0.2	T02-2180	PLXM20X1.5	-	-
-	G 1/2A	23.9	18.5	1.5	0.3	-	-	T02-2190	PLX1/2"
M 22x1.5	-	24.3	19.6	1.5	0.2	T02-2181	PLXM22X1.5	-	-
M 26x1.5	G 3/4A	29.2	23.9	1.5	0.4	T02-2182	PLXM26X1.5	T02-2191	PLX3/4"
M 27x2	-	29.2	23.9	1.5	0.4	T02-2183	PLXM27X2	-	-
M 33x2	G 1A	35.7	29.7	2.0	0.7	T02-2184	PLXM33X2	T02-2192	PLX1"
M 42x2	G 1 1/4A	45.8	38.8	2.0	0.9	T02-2185	PLXM42X2	T02-2193	PLX1 1/4"
M 48x2	G 1 1/2A	50.7	44.7	2.0	1.0	T02-2186	PLXM48X2	T02-2194	PLX1 1/2"

O-RING



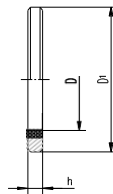
Series	Tube ØD1	ITEM CODE	O-ring NBR Shore-hardness approx. 90	ITEM CODE	O-ring FKM Shore-hardness approx. 90
L	6	T02-2195	OR4.5X1.5	T02-2215	OR4.5X1.5VIT
	8	T02-2196	OR6.5X1.5	T02-2216	OR6.5X1.5VIT
	10	T02-2197	OR8.5X1.5	T02-2217	OR8X1.5VIT
	12	T02-2198	OR10.5X1.5	T02-2218	OR10X1.5VIT
	15	T02-2199	OR12.5X2	T02-2219	OR12X2VIT
	18	T02-2200	OR16X2	T02-2220	OR15X2VIT
	22	T02-2201	OR20X2	T02-2221	OR20X2VIT
	28	T02-2202	OR26X2	T02-2222	OR26X2VIT
	35	T02-2203	OR32X2.5	T02-2223	OR32X2.5VIT
	42	T02-2204	OR39X2.5	T02-2224	OR38X2.5VIT
S	6	T02-2205	OR4.5X1.5	T02-2225	OR4.5X1.5VIT
	8	T02-2206	OR6.5X1.5	T02-2226	OR6.5X1.5VIT
	10	T02-2207	OR8.5X1.5	T02-2227	OR8X1.5VIT
	12	T02-2208	OR10.5X1.5	T02-2228	OR10X1.5VIT
	14	T02-2209	OR12X2	T02-2229	OR11X2VIT
	16	T02-2210	OR14X2	T02-2230	OR13X2VIT
	20	T02-2211	OR17X2.5	T02-2231	OR16.3X2.4VIT
	25	T02-2212	OR22X2.5	T02-2232	OR20.3X2.4VIT
	30	T02-2213	OR27X2.5	T02-2233	OR25.3X2.4VIT
	38	T02-2214	OR35X2.5	T02-2234	OR33.3X2.4VIT

SEALING RING FOR PRESSURE GAUGE CONNECTORS



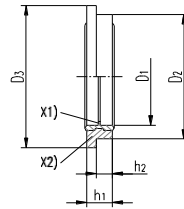
T	D1	D	h	Weight g/1 piece	ITEM CODE
G 1/4A	11.3	6	4.5	2.5	T02-2235
G 1/2A	18.5	12	5	5	T02-2236

BONDED SEALS



T	D	D1	h	Weight g/1 piece	ITEMCODE
G 1/8A	10.37	15.88	2	0.11	T02-2237
G 1/4A	13.8	20.57	2	0.20	T02-2238
G 3/8A	17.28	23.8	2	0.20	T02-2239
G 1/2A	21.54	28.58	2.5	0.20	T02-2240
G 3/4A	21.7	34.93	2.5	0.20	T02-2241
G 1A	33.9	42.8	2.5	0.20	T02-2242
G 1 1/4A	42.93	52.38	3.2	0.65	T02-2243
G 1 1/2A	48.5	58.6	3.2	0.65	T02-2244
G 2A	60.58	73.03	3.2	0.90	T02-2245

SOFT SEALING RING FOR BANJO FITTINGS

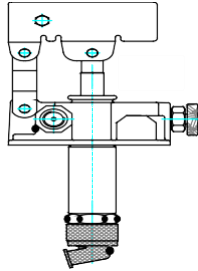


X1) NBR sealing
X2) Supporting-ring (steel)

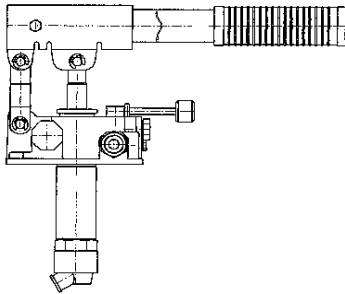
T	T	D1	D2	D3	h1	h2	Weight g/1 piece	ITEM CODE
M10x1	G 1/8A	10.3	14.9	16.0	2.5	1.1	2	T02-2246
M14x1.5	G 1/4A	14.3	18.9	20.0	3.0	1.6	2	T02-2247
M16x1.5	G 3/8A	17.0	21.9	24.0	3.0	2.1	3	T02-2248
M22x1.5	G 1/2A	22.3	26.9	30.0	4.5	2.6	7	T02-2249
M27x2	G 3/4A	27.3	32.9	38.0	3.5	2.6	8	T02-2250
M33x2	G 1A	33.6	39.9	42.0	3.5	2.6	10	T02-2251
M42x2	G 1 1/4A	42.4	49.9	49.9	3.5	-	12	T02-2252
M48x2	G 1 1/2A	48.4	55.9	60.0	3.5	2.6	16	T02-2253

HAND PUMPS

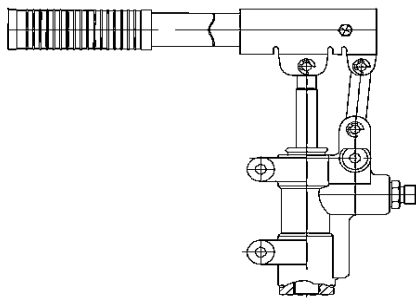
Single Action Hand Pumps For Oil



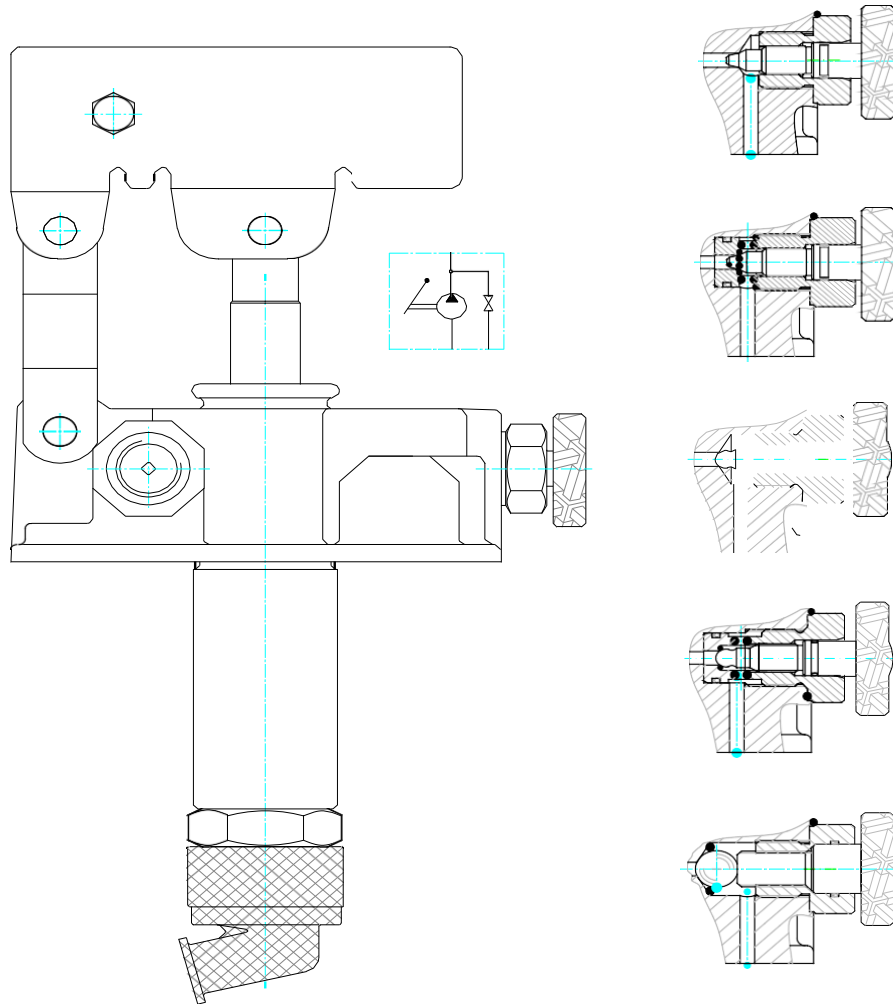
Double Action Hand Pumps For Oil Tanks



Wall Type Hand Pumps

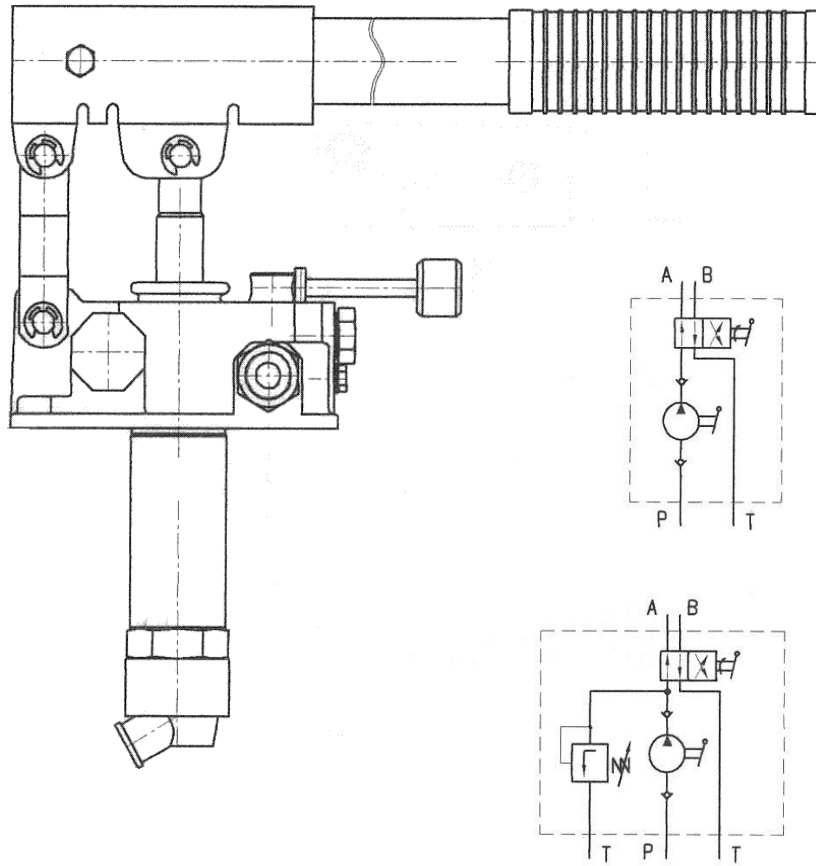


SINGLE ACTION HAND PUMP FOR OIL TANK



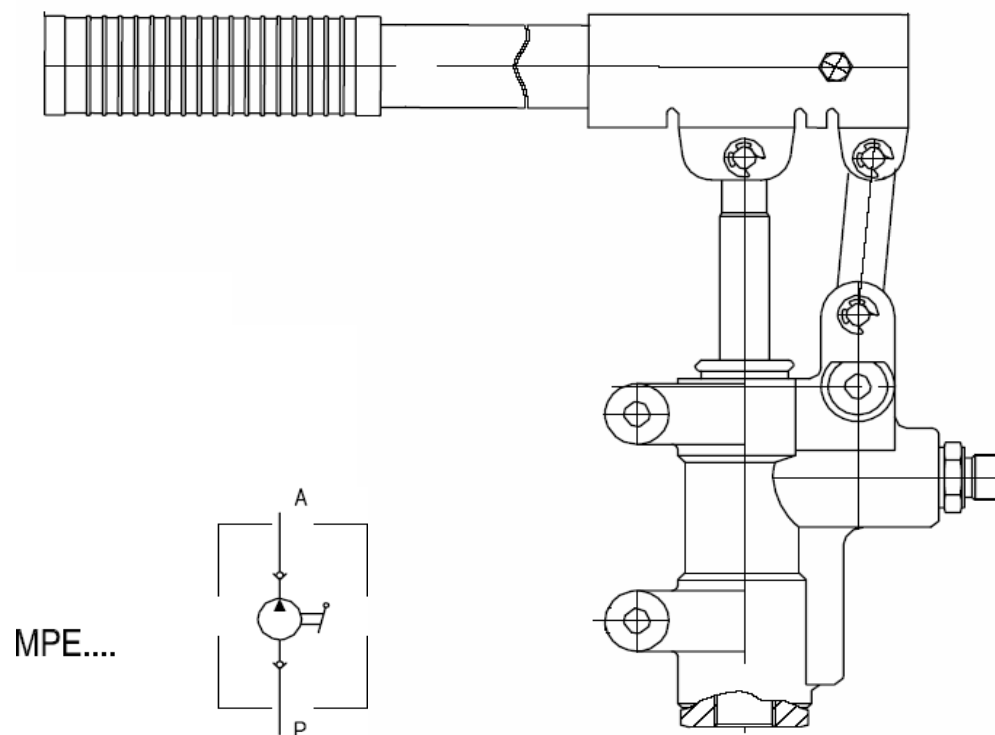
Type	Pres.Max (Bar)	Vol.Cm3	Weight Kg	ITEM CODE
ELP12	380	12cm ³	3,5	T02-2254
ELP25	350	25cm ³	4	T02-2255
ELP45	280	45cm ³	7,5	T02-2256

DOUBLE ACTION HAND PUMP FOR OIL TANK



Type	Pres.Max (Bar)	Vol.Cm3	Weight Kg	ITEM CODE
ELP/C12	380	12cm ³	3,5	T02-2257
ELP/C25	350	25cm ³	4	T02-2258
ELP/C45	280	45cm ³	7,5	T02-2259

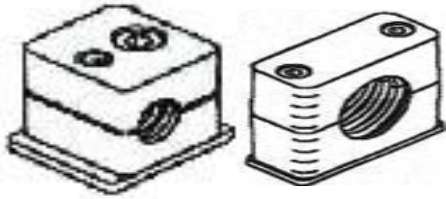
DOUBLE ACTION HAND PUMP FOR OIL TANK



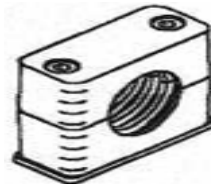
Type	Pres.Max (Bar)	Vol.Cm3	Weight Kg	ITEM CODE
ELP-20	350	20	3,9	T02-2260

HYDRAULIC TUBE CLAMPS

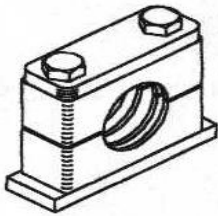
Standard Type Series A - DIN 3015/1



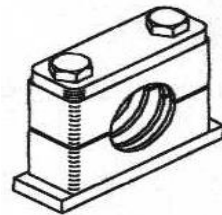
Standard Type Series A - DIN 3015/1



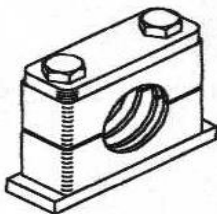
Double Support Type Series A – DIN 3015/1



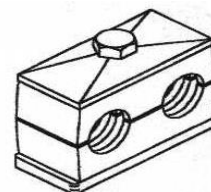
Heavy Type Series – DIN 3015/2



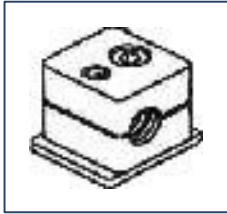
Heavy Type Series C – DIN 3015/2



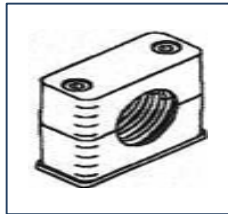
Twin Type Series B – DIN 3015/3



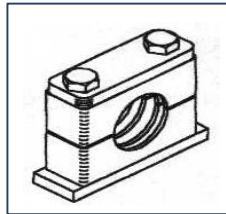
HYDRAULIC TUBE CLAMPS



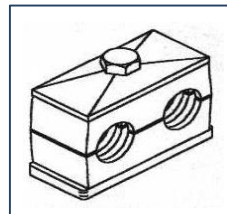
Standard Type



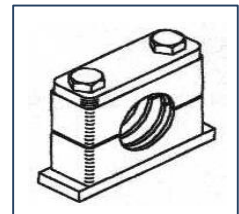
Standard Type



Double Support Type



Twin Type



Heavy Type

Properties	Polypropilen	Polyamid	Aluminium
MECHANICAL PROPERTIES			
Density (gr/Cm ³)	0.906	1.12 - 1.15	2.65
Bending Resistance (N/mm ²)	36	130 - 200	70
Impact Resistance (kJ/m ²)	● ●	60	○
Press Resistance (N/mm ²)	90	120	600
Elasticity Modulus (N/mm ²)	1.150	3.000	70.000
Pull Resistance (N/mm ²)	28	140	180
THERMAL PROPERTIES			
Thermal Resistance (°C)	-30.....+90	-40.....+120	400
Expansion Coefficient (°C)		2.5x10	24x10 -5
Thermal Conductivity (kcal/mh °C)	0.19	0.25	180
ELECTRICAL PROPERTIES			
Spesifik Resistance (Ω Cm)	10 18	4.5x10	4.6x10 16
Dielectric Coefficient (KV/mm)	2,3	2,3	-
Cundactivity	KA 3c	KA 3b	KA 3b
CHEMICAL PROPERTIES			
Poor Acits	●	●	○
Thinners	●	●	○
Gas and mineral oils	●	● ●	●
Alcohol and other oils	● ●	● ●	●
Sea Water (Salty Water)	● ●	● ●	○
Alcalies	● ●	● ●	○

● ● Resistant

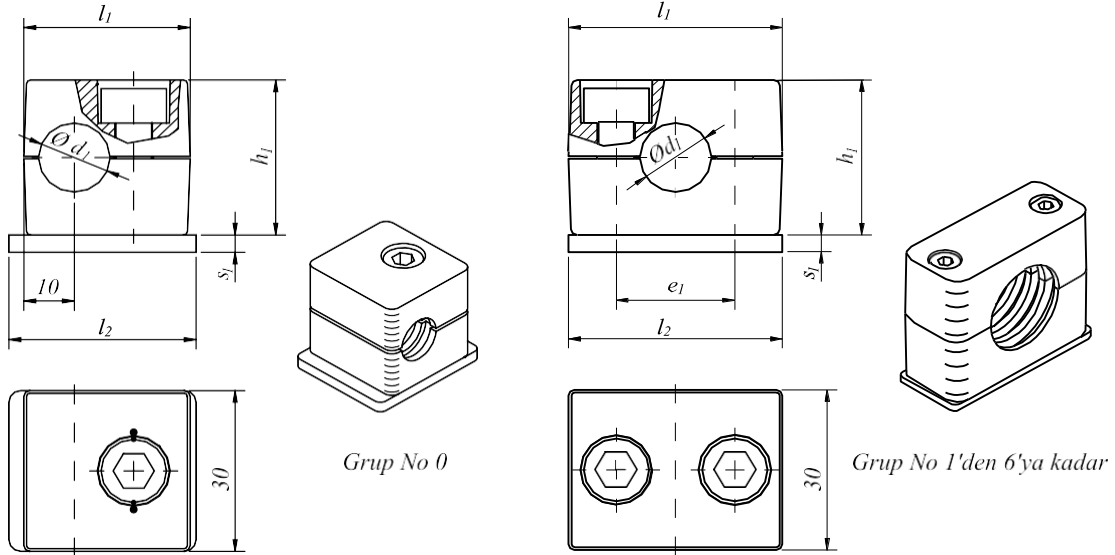
● Resistant depent on enviroment

○ Not Resistant

HYDRAULIC TUBE CLAMPS STANDARD TYPE

DIN 3015/1

Malzeme: Polipropilen
Material : Polypropilen

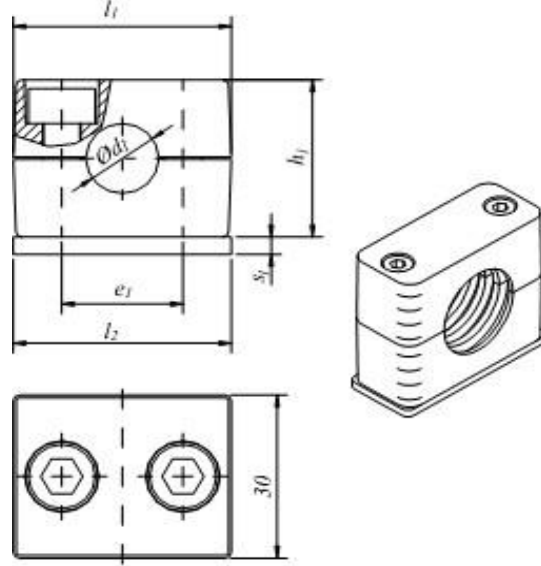


Grup No	d ₁		e ₁	h ₁	l ₁	l ₂	s ₁	ITEM CODE
0	6		-	27	28	31,5	3	T02-2261
	8							T02-2262
	10	1/8"						T02-2263
	12							T02-2264
1	6		20		37	36		T02-2265
	8							T02-2266
	10	1/8"						T02-2267
	12							T02-2268
2	13,5	1/4"	26	33	42	42		T02-2269
	14							T02-2270
	15							T02-2271
	16							T02-2272
	17,2	3/8"						T02-2273
	18							T02-2274
3	20		33	35	50	50		T02-2275
	21,3	1/2"						T02-2276
	22							T02-2277
	25							T02-2278
4	26,9	3/4"	40	42	59	60		T02-2279
	28							T02-2280
	30							T02-2281
5	32		52	58	71	71		T02-2282
	33,7	1"						T02-2283
	35							T02-2284
	38							T02-2285
	42	1 1/4"						T02-2286
6	44,5		66	66	86	88		T02-2287
	48,3	1 1/2"						T02-2288
	50,8						T02-2289	

HYDRAULIC TUBE CLAMPS ALUMINIUM

DIN 3015/1

Malzeme: Alüminyum
Material : Aluminium

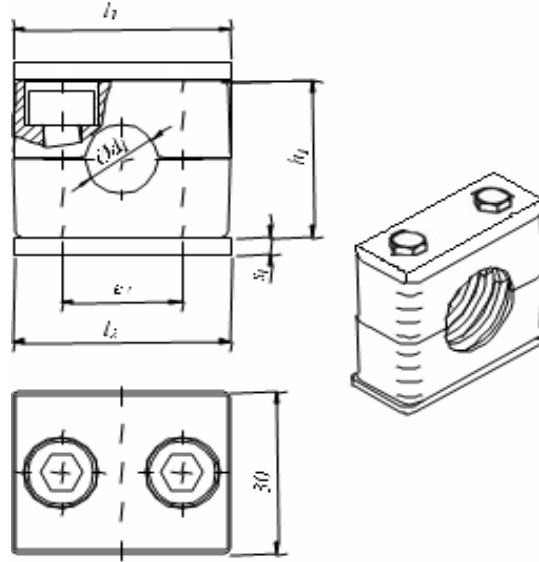


Grup No	d ₁		e ₁	h ₁	l ₁	l ₂	s ₁	ITEM CODE					
1	6	1/8"	20	27	37	36	3	T02-2290					
	8							T02-2291					
	10							T02-2292					
	12							T02-2293					
2	14	1/4"	26	33	42	42		T02-2294					
	15							T02-2295					
	16							T02-2296					
	18	3/8"	33	35	50	50		T02-2297					
3	20	1/2"						T02-2298					
	22							T02-2299					
	25	1/2"	3/4"						T02-2300				
4	28	40							T02-2301				
	30							42					
5	32	1"	52	58	71	71							
	35							T02-2304					
	38							T02-2305					
	42	1 1/4"						T02-2306					
	48,3	1 1/2"	66	66	86	88		T02-2307					

HYDRAULIC TUBE CLAMPS DOUBLE SUPPORT TYPE SERIES A

DIN 3015/1

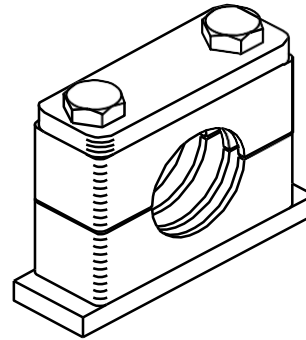
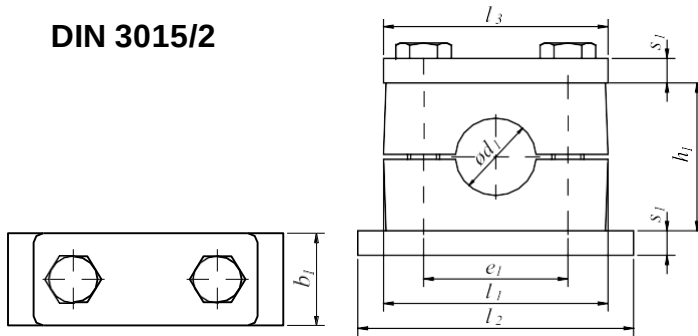
Malzeme: Polipropilen
Material : Polypropilen



Grup No	d ₁		e ₁	h ₁	l ₁	l ₂	s ₁	ITEM CODE								
1	6	1/8"	20	27	37	36	3	T02-2308								
	8							T02-2309								
	10							T02-2310								
	12							T02-2311								
2	14	1/4"	26	33	42	42		T02-2312								
	15							T02-2313								
	16							T02-2314								
	18	3/8"						33	35	50	50	T02-2315				
20	1/2"		40	42	59	60						T02-2316				
22		3/4"										52	58	71	71	T02-2317
25	1"															66
28		1 1/4"						71	86	99	107					
30			1 1/2"	86	99	107										
35												1 3/4"	99	107	115	
38	2"															107
42		2 1/4"						115	123	131	T02-2323					
50,8			2 1/2"	123	131	139	T02-2324									
54							2 3/4"				131	139	147	T02-2325		
58	3"													139	147	155
62		3 1/4"						147	155	163						
66			3 1/2"	155	163	171										
70							3 3/4"				163	171	179			
74	4"													171	179	187
78		4 1/4"						179	187	195						
82			4 1/2"	187	195	203										
86							4 3/4"				195	203	211			
90	5"													203	211	219
94		5 1/4"						211	219	227						
98			5 1/2"	219	227	235										
102							5 3/4"				227	235	243			
106	6"													235	243	251
110		6 1/4"						243	251	259						
114			6 1/2"	251	259	267										
118							6 3/4"				259	267	275			
122	7"													267	275	283
126		7 1/4"						275	283	291						
130			7 1/2"	283	291	300										
134							7 3/4"				291	300	309			
138	8"													300	309	318
142		8 1/4"						309	318	327						
146			8 1/2"	318	327	336										
150							8 3/4"				327	336	345			
154	9"													336	345	354
158		9 1/4"						345	354	363						
162			9 1/2"	354	363	372										
166							9 3/4"				363	372	381			
170	10"													372	381	390
174		10 1/4"						381	390	399						
178			10 1/2"	390	399	408										
182							10 3/4"				399	408	417			
186	11"													408	417	426
190		11 1/4"						417	426	435						
194			11 1/2"	426	435	444										
198							11 3/4"				435	444	453			
202	12"													444	453	462
206		12 1/4"						453	462	471						
210			12 1/2"	462	471	480										
214							12 3/4"				471	480	489			
218	13"													480	489	498
222		13 1/4"						489	498	507						
226			13 1/2"	498	507	516										
230							13 3/4"				507	516	525			
234	14"													516	525	534
238		14 1/4"						525	534	543						
242			14 1/2"	534	543	552										
246							14 3/4"				543	552	561			
250	15"													552	561	570
254		15 1/4"						561	570	579						
258			15 1/2"	570	579	588										
262							15 3/4"				579	588	597			
266	16"													588	597	606
270		16 1/4"						597	606	615						
274			16 1/2"	606	615	624										
278							16 3/4"				615	624	633			
282	17"													624	633	642
286		17 1/4"						633	642	651						
290			17 1/2"	642	651	660										
294							17 3/4"				651	660	669			
298	18"													660	669	678
302		18 1/4"						669	678	687						
306			18 1/2"	678	687	696										
310							18 3/4"				687	696	705			
314	19"													696	705	714
318		19 1/4"						705	714	723						
322			19 1/2"	714	723	732										
326							19 3/4"				723	732	741			
330	20"													732	741	750
334		20 1/4"						741	750	759						
338			20 1/2"	750	759	768										
342							20 3/4"				759	768	777			
346	21"													768	777	786
350		21 1/4"						777	786	795						
354			21 1/2"	786	795	804										
358							21 3/4"				795	804	813			
362	22"													804	813	822
366		22 1/4"						813	822	831						
370			22 1/2"	822	831	840										
374							22 3/4"				831	840	849			
378	23"													840	849	858
382		23 1/4"						849	858	867						
386			23 1/2"	858	867	876										
390							23 3/4"				867	876	885			
394	24"													876	885	894
398		24 1/4"						885	894	903						
402			24 1/2"	894	903	912										
406							24 3/4"				903	912	921			
410	25"													912	921	930
414		25 1/4"						921	930	939						
418			25 1/2"	930	939	948										
422							25 3/4"				939	948	957			
426	26"													948	957	966
430		26 1/4"						957	966	975						
434			26 1/2"	966	975	984										
438							26 3/4"				975	984	993			
442	27"													984	993	1002
446		27 1/4"						993	1002	1011						
450			27 1/2"	1002	1011	1020										
454							27 3/4"				1011	1020	1029			
458	28"													1020	1029	1038
462		28 1/4"						1029	1038	1047						
466			28 1/2"	1038	1047	1056										
470							28 3/4"				1047	1056	1065			
474	29"													1056	1065	1074
478		29 1/4"						1065	1074	1083						
482			29 1/2"	1074	1083	1092										
486							29 3/4"				1083	1092	1101			
490	30"													1092	1101	1110
494		30 1/4"						1101	1110	1119						
498			30 1/2"	1110	1119	1128										
502							30 3/4"				1119	1128	1137			
506	31"													1128	1137	1146
510		31 1/4"						1137	1146	1155						
514			31 1/2"	1146	1155	1164										
518							31 3/4"				1155	1164	1173			
522	32"													1164	1173	1182
526		32 1/4"						1173	1182	1191						
530			32 1/2"	1182	1191	1200										
534							32 3/4"				1191	1200	1209			
538	33"													1200	1209	1218
542		33 1/4"						1209	1218	1227						
546			33 1/2"	1218	1227	1236										
550							33 3/4"				1227	1236	1245			
554	34"													1236	1245	1254
558		34 1/4"						1245	1254	1263						
562			34 1/2"	1254	1263	1272										
566							34 3/4"				1263	1272	1281			
570	35"													1272	1281	1290
574		35 1/4"						1281	1290	1299						
578			35 1/2"	1290	1299	1308										
582							35 3/4"				1299	1308	1317			
586	36"													1308	1317	1326
590		36 1/4"						1317	1326	1335						
594			36 1/2"	1326	1335	1344										
598							36 3/4"				1335	1344	1353			
602	37"													1344	1353	1362
606		37 1/4"						1353	1362	1371						
610			37 1/2"	1362	1371	1380										
614							37 3/4"				1371	1380	1389			
618	38"													1380	1389	1398
622		38 1/4"						1389	1398	1407						
626			38 1/2"	1398	1407	1416										
630							38 3/4"				1407	1416	1425			
634	39"													1416	1425	1434
638		39 1/4"						1425	1434	1443						
642			39 1/2"	1434	1443	1452										
646							39 3/4"				1443	1452	1461			
650	40"													1452	1461	1470
654		40 1/4"						1461	1470	1479						
658			40 1/2"	1470	1479	1488										
662							40 3/4"				1479	1488	1497			
666	41"													1488	1497	1506
670		41 1/4"						1497	1506	1515						
674			41 1/2"	1506	1515	1524										
678							41 3/4"				1515	1524	1533			
682	42"													1524	1533	1542
686		42 1/4"						1533	1542	1551						
690			42 1/													

HYDRAULIC TUBE CLAMPS HEAVY TYPE

DIN 3015/2



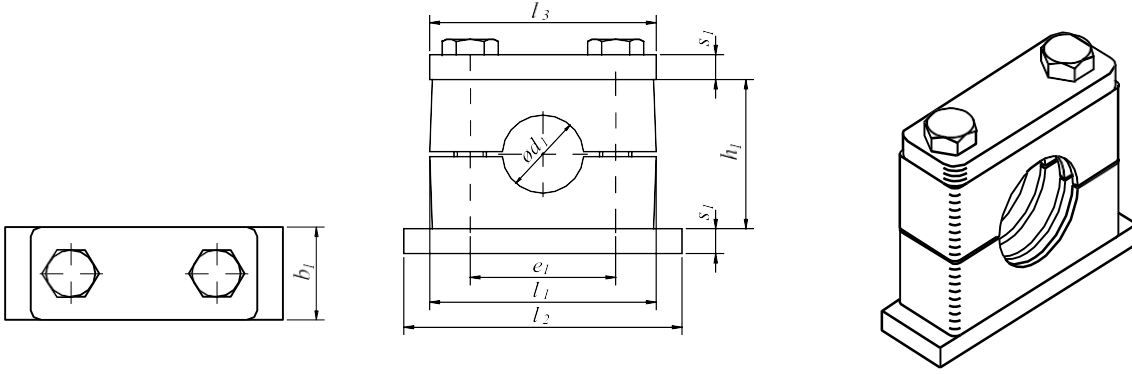
Malzeme: Polipropilen
Material : Polypropilen

Grup No	b1	d1	e1	h1	l1	l2	l3	s1	ITEM CODE
1	30	6	33	32	55	74	55	8	T02-2325
		8							T02-2326
		10							T02-2327
		12							T02-2328
		13,5							T02-2329
		14							T02-2330
		15							T02-2331
		16							T02-2332
		17,2							T02-2333
		18							T02-2334
2	30	20	45	48	70	86	70	8	T02-2335
		21,3							T02-2336
		22							T02-2337
		25							T02-2338
		26,9							T02-2339
		28							T02-2340
3	30	30	60	60	85	100	85	8	T02-2341
		32							T02-2342
		33,7							T02-2343
		35							T02-2344
		38							T02-2345
		40							T02-2346
4	45	38	90	89	115	140	115	10	T02-2347
		42							T02-2348
		48,3							T02-2349
		50							T02-2350
		55							T02-2351
		60,3							T02-2352
		65							T02-2353
		70							-
5	60	70	122	120	154	180	154	10	-
		75							-
		76,1							-
		80							-
		88,9							-
6	80	90	168	168	206	226	206	15	-
		88,9							-
		100							-
		102							-
		114,3							-
		127							-

HYDRAULIC TUBE CLAMPS HEAVY TYPE

DIN 3015/2

Malzeme: Alüminyum
Material : Aluminium

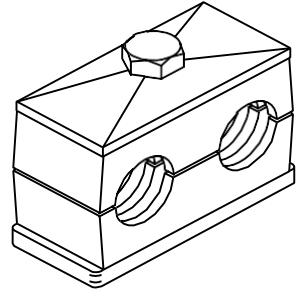
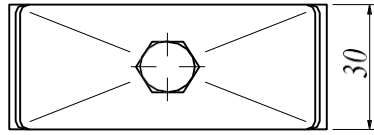
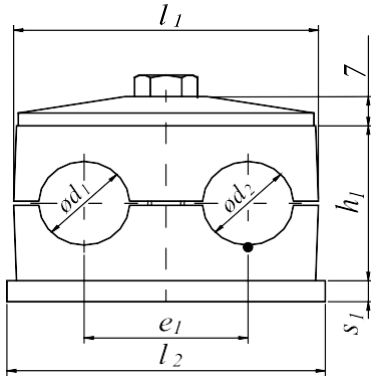


Grup No	b1	d1	e1	h1	l1	l2	l3	s1	ITEM CODE
1	30	6	33	32	55	74	55	8	T02-2354
		8							T02-2355
		10							T02-2356
		12							T02-2357
		14							T02-2358
		15							T02-2359
		16							T02-2360
		18							T02-2361
		20							T02-2362
2	30	21,3	45	48	70	86	70	8	T02-2363
		22							T02-2364
		25							T02-2365
		28							T02-2366
3	30	30	60	60	85	100	85	8	T02-2367
		32							T02-2368
		33,7							T02-2369
		35							T02-2370
		38							T02-2371
4	45	40	90	89	115	140	115	10	T02-2372
		38							T02-2373
		42							T02-2374
		48,3							T02-2375
		50							T02-2376
		55							T02-2377
		60,3							T02-2378
		65							T02-2379
5	60	70	122	120	154	180	154	15	T02-2380
		76,1							-
		80							-
		88,9							-
6	60	114,3	168	170	205	225	205	15	-

HYDRAULIC TUBE CLAMPS HEAVY TYPE

DIN 3015/3

Malzeme: Polipropilen
Material : Polypropilen



Grup No	d ₁ d ₂		e ₁	h ₁	l ₁	l ₂	s ₁	ITEM CODE
1	6	1/8"	20	27	36	37	3	T02-2381
	8							T02-2382
	10							T02-2383
	12							T02-2384
2	14	1/4"	29	26	53	55	5	T02-2385
	15							T02-2386
	16	3/8"						T02-2387
	18							T02-2388
3	20	1/2"	36	37	67	70		T02-2389
	22							T02-2390
	25							T02-2391
4	28	3/4"	45	41	82	85		T02-2392
	30							T02-2393
5	35	1"	56	54	106	110		T02-2394

HYDREX

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