



**BEYOND FLUID**

Beyond Fluid

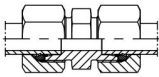
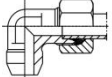
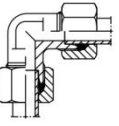
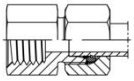
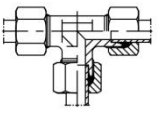
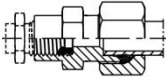
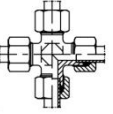
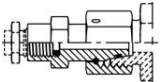
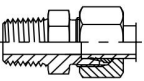
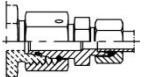
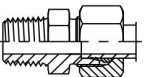
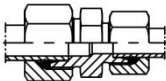
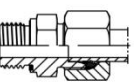
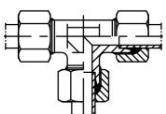
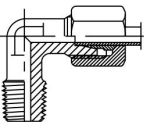
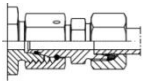
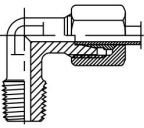
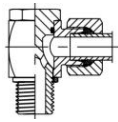
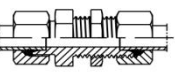
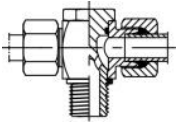
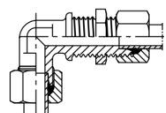
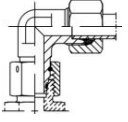
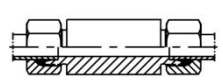
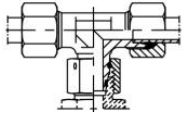
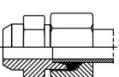
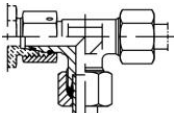
## **DIN 2353 Cutting-Ring Tube Fittings**

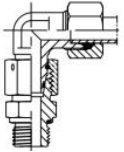

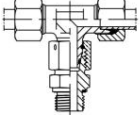

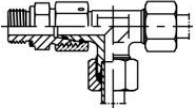

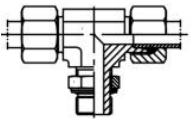

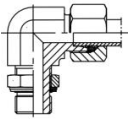
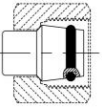
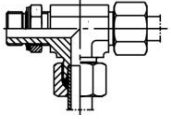
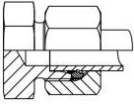
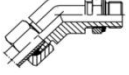
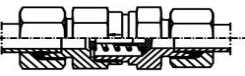
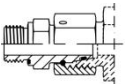
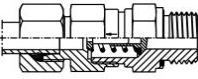
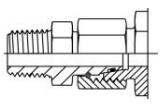
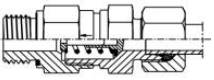
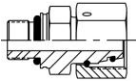
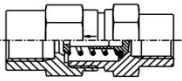
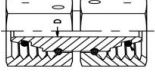
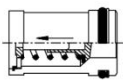
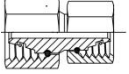
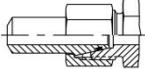


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**Web: [www.beyondfluid.com](http://www.beyondfluid.com)**

# Contents

Union -G 	01	Weld Elbow -WAS 	10
Union Elbow -W 	01	Female Connector -GAI-R/M 	11
Union Tee -T 	02	Gauge Connector -MAV 	12
Union Cross -K 	02	Gauge Swivel Connector -MAVE 	12
Male Connector - GE-R/M 	03	The End Reducer -RED-L/S 	13
Male Connector - GE-NPT 	04	Straight Reducer -GR 	15
Male Connector - GE-ED 	05	Tee Reducer -TR 	16
Male Elbow - WE-R/M 	07	Distance Piece Reducer -DA 	17
Male Elbow - WE-NPT 	08	High Pressure Banjo Elbow -WH 	17
Bulkhead Union -SV 	08	High Pressure Banjo Tee -TH 	18
Bulkhead Union Elbow -WSV 	09	Swivel Nut Elbow -EW 	19
Weld Bulkhead Union -ESV 	09	Swivel Nut Branch Tee -ET 	20
Weld Connector -AS 	10	Swivel Nut Run Tee -EL 	20

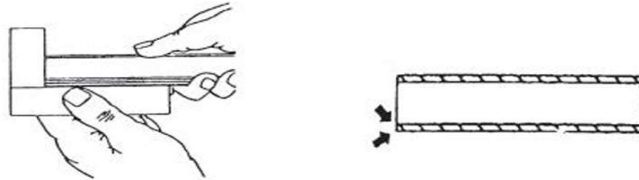
Swivel Elbow -EW-R/M-ED	21		Nut -M	33	
Swivel Branch Tee -ET-R/M-ED	22		Cutting Lock Ring -D/DPR	33	
Swivel Run Tee -EL-R/M-ED	23		Dual Function Nut -FM	34	
Adjustable Lock Nut Branch Tee -TEE	24		Soft Sealing Ring -DOZ	34	
Adjustable Lock Nut Branch Elbow -WEE	25		Fitting Cap -VKA	34	
Adjustable Lock Nut Run Tee -LEE	27		Tube End Plug -ROV	35	
Adjustable Lock Nut Branch 45°Elbow -VEE	28		No-return Valve Union -RHD	35	
Swivel Connector -EGE-R/M-ED	30		No-return Valve Male Connector -RHV	36	
Swivel Connector -EGE-NPT	31		No-return Valve Male Connector -RHZ	37	
Swivel Connector -EGEO	32		No-return Valve Female Union -RHDl	38	
Swivel Nut Union -GZ	32		Cartridge Valve -RVP	38	
Swivel Nut Union Reducer -GZR	32				
Weld Nipple -SKA	33				

## Installation Instructions

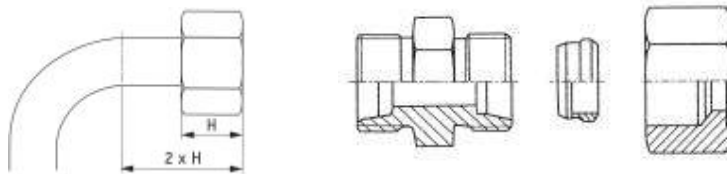
The nuts of Beyond Fluid hydraulic fittings are all silver plated, and spray nano lubricating layer with our own patent. In this way, the installation torque can be controlled within a reasonable range. Especially in the case of narrow space or suspended operation, it makes installation very easy. For proper assembly following assembly instruction shall be followed. Improper assembly may lead to malfunctions or impair safety.

### Assembly in fitting body

1. Cut the tube:  
1/2° angle tolerance to the tube axis is permissible. Tube cutter is not recommendable.

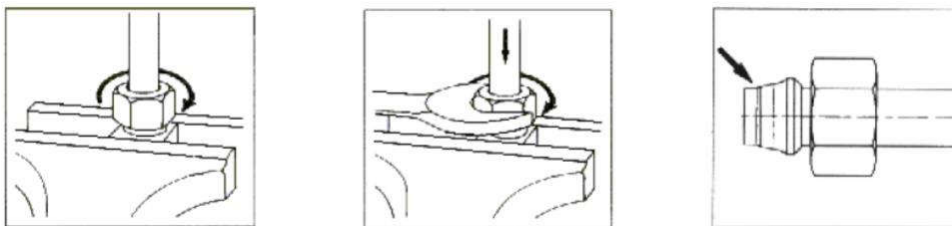


2. Lightly remove chips and particles from the inside and outside cut edges of tube. Bevel up to 0.2mm × 45° is permissible.
3. For tube bend, the minimum height from the straight pipe end to the bending radius must be at least twice the height of the nut.
4. Lubricate thread and cone of the fitting body, ring and thread of nut.



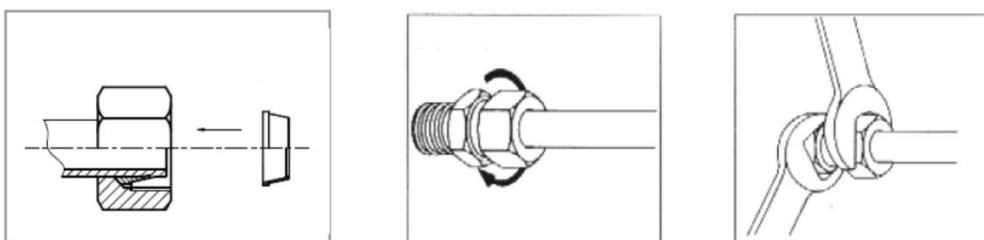
### Assembly

5. Slip nut and then ring onto the tube end. Ensure that the ring is placed correctly.
6. Screw nut manually onto fitting body until finger tight. Hold the tube against the shoulder in the cone of the fitting body.
7. Mark nut and tube for measuring the prescribed turns of the nut.
8. Tighten the nut 1 1/4 turns. Tube must not turn with tube. Stop edge of the ring limits over-tightening by increasing tightening torque.

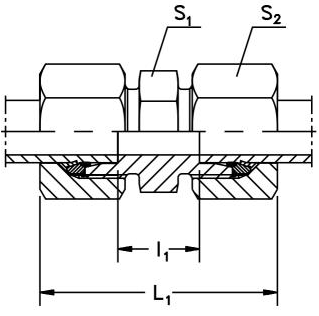


### Check & Final Assembly

9. Loosen nut and remove ring-mounted tube from fitting. And check if a visible collar has formed on the pipe in front of the first cutting edge. If not, tighten slightly more.
10. Insert the pre-assembled tube into the fitting.  
While holding fitting body with a wrench, tighten nut approx. 1/4 revolution beyond the point of a clearly perceptible resistance.

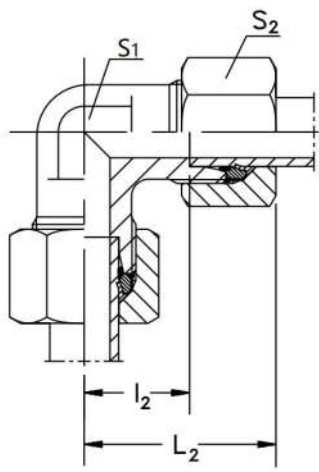


## Union - G



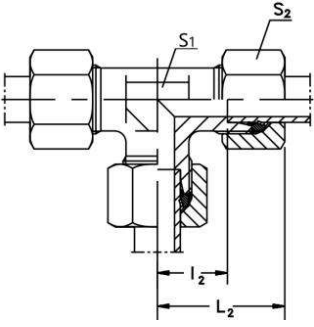
G Part NO.	Working Pressure (bar/psi)	Tube O.D.	l1	L1	S1	S2
-G04LL	<b>LL</b> very light 100 bar 1450psi	4	12	31	9	10
-G06LL		6	9	32	11	12
-G08LL		8	12	35	12	14
-G10LL		10	12	35	14	17
-G12LL		12	11	35	17	19
-G06L	<b>L</b> light 315 bar 4560psi	6	10	39	12	14
-G08L		8	11	40	14	17
-G10L		10	13	42	17	19
-G12L		12	14	43	19	22
-G15L		15	16	46	24	27
-G18L	160 bar 2320psi	18	16	48	27	32
-G22L		22	20	52	32	36
-G28L		28	21	54	41	41
-G35L		35	20	63	46	50
-G42L		42	21	66	55	60
-G06S	<b>S</b> heavy 630 bar 9130psi	6	16	45	14	17
-G08S		8	18	47	17	19
-G10S		10	17	49	19	22
-G12S		12	19	51	22	24
-G14S		14	22	57	24	27
-G16S	400 bar 5800psi	16	21	57	27	30
-G20S		20	23	66	32	36
-G25S		25	26	74	41	46
-G30S		30	27	80	46	50
-G38S		38	29	90	55	60

## Elbow Union - W



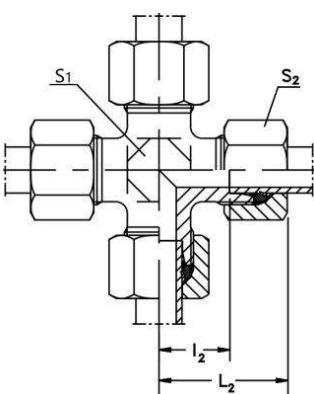
W Part NO.	Working Pressure (bar/psi)	Tube O.D.	l2	L2	S1	S2
-W04LL	<b>LL</b> very light 100 bar 1450psi	4	11	21	9	10
-W06LL		6	9.5	21	11	12
-W08LL		8	11.5	23	12	14
-W10LL		10	12.5	24	14	17
-W12LL		12	13	25	17	19
-W06L	<b>L</b> light 315 bar 4560psi	6	12	27	12	14
-W08L		8	14	29	14	17
-W10L		10	15	30	17	19
-W12L		12	17	32	19	22
-W15L		15	21	36	19	27
-W18L	160 bar 2320psi	18	23.5	40	24	32
-W22L		22	27.5	44	27	36
-W28L		28	30.5	47	36	41
-W35L		35	34.5	56	41	50
-W42L		42	40	63	50	60
-W06S	<b>S</b> heavy 630 bar 9130psi	6	16	31	14	17
-W08S		8	17	32	17	19
-W10S		10	17.5	34	19	22
-W12S		12	21.5	38	22	24
-W14S		14	22	40	19	27
-W16S	400 bar 5800psi	16	24.5	43	24	30
-W20S		20	26.5	48	27	36
-W25S		25	30	54	36	46
-W30S		30	35.5	62	41	50
-W38S		38	41	72	50	60

## Union Tee - T



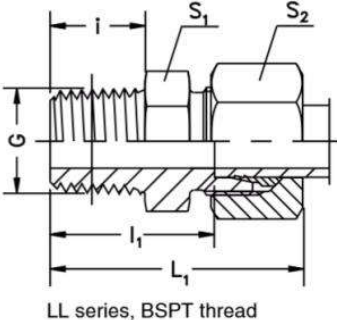
T Part NO.	Working Pressure (bar/psi)	Tube O.D.	I2	L2	S1	S2
-T04LL	<b>LL</b> very light 100 bar 1450psi	4	11	21	9	10
-T06LL		6	9.5	21	11	12
-T08LL		8	11.5	23	12	14
-T10LL		10	12.5	24	14	17
-T12LL		12	15	27	14	19
-T06L	<b>L</b> light 315 bar 4560psi	6	12	27	12	14
-T08L		8	14	29	14	17
-T10L		10	15	30	17	19
-T12L		12	17	32	17	22
-T15L		15	21	36	19	27
-T18L	160 bar 2320psi	18	23.5	40	24	32
-T22L		22	27.5	44	27	36
-T28L		28	30.5	47	36	41
-T35L		35	34.5	56	41	50
-T42L		42	40	63	50	60
-T06S	<b>S</b> heavy 630 bar 9130psi	6	16	31	14	17
-T08S		8	17	32	14	19
-T10S		10	17.5	34	17	22
-T12S		12	21.5	38	17	24
-T14S		14	22	40	19	27
-T16S	400 bar 5800psi	16	24.5	43	24	30
-T20S		20	26.5	48	27	36
-T25S		25	30	54	36	46
-T30S		30	35.5	62	41	50
-T38S		38	41	72	50	60

## Union Cross - K

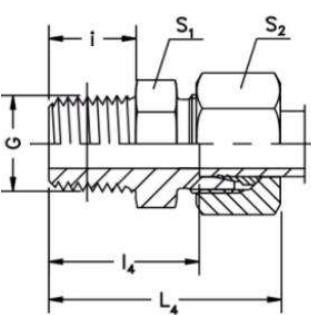


K Part NO.	Working Pressure (bar/psi)	Tube O.D.	I2	L2	S1	S2
-K04LL	<b>LL</b> very light 100 bar 1450psi	4	11	21	9	10
-K06LL		6	9.5	21	9	12
-K08LL		8	11.5	23	12	14
-K06L	<b>L</b> light 315 bar 4560psi	6	12	27	12	14
-K08L		8	14	29	12	17
-K10L		10	15	30	14	19
-K12L		12	17	32	17	22
-K15L		15	21	36	19	27
-K18L	160 bar 2320psi	18	23.5	40	24	32
-K22L		22	27.5	44	27	36
-K28L		28	30.5	47	36	41
-K35L		35	34.5	56	41	50
-K42L		42	40	63	50	60
-K06S	<b>S</b> heavy 630 bar 9130psi	6	16	31	12	17
-K08S		8	17	32	14	19
-K10S		10	17.5	34	17	22
-K12S		12	21.5	38	17	24
-K14S		14	22	40	19	27
-K16S	400 bar 5800psi	16	24.5	43	24	30
-K20S		20	26.5	48	27	36
-K25S		25	30	54	36	46
-K30S		30	35.5	62	41	50
-K38S		38	41	72	50	60

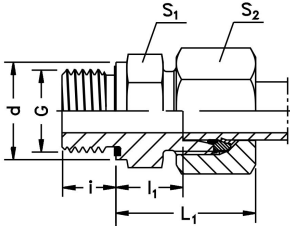
## Male Connector - GE-R

Male Connector - GE-R										
	GE-R	Working Pressure	Tube	G	i	I1	L1	S1	S2	
	Part NO.	(bar/psi)	O.D.	Male BSPT						
	-GE04LLR1/8	LL Very light 100 bar 1450 psi	4	R1/8	10	18.5	28	11	10	
	-GE06LLR1/8		6	R 1/8	10	16.5	28	11	12	
	-GE08LLR1/8		8	R 1/8	10	18.5	30	12	14	
	-GE06LR1/8	L Light 315 bar 4560psi	6	R 1/8	10	17	32	12	14	
	-GE06LR1/4		6	R 1/4	15	23	38	14	14	
	-GE08LR1/4		8	R 1/4	15	23	38	14	17	
	-GE10LR1/4		10	R 1/4	15	24	39	17	19	
	-GE10LR3/8		10	R 3/8	15.3	25	40	19	19	
	-GE12LR1/4		12	R 1/4	15	25	40	19	22	
	-GE12LR3/8		12	R 3/8	15.3	25	40	19	22	
	-GE12LR1/2		12	R 1/2	20	30	45	22	22	
	-GE15LR1/2		15	R 1/2	20	31	46	24	27	
	-GE18LR1/2		18	R 1/2	20	31.5	48	27	32	
	-GE22LR3/4		160bar 2320psi	22	R 3/4	20	33.5	50	32	36
	-GE28LR1			28	R 1	25	39.5	56	41	41
	-GE35LR11/4	35		R 1 1/4	25.5	40.5	62	46	50	
	-GE42LR11/2	42		R 1 1/2	26	42	65	55	60	
	-GE06SR1/4	S heavy 630bar 9130psi	6	R 1/4	15	28	43	17	17	
	-GE08SR1/4		8	R 1/4	15	28	43	17	19	
	-GE10SR1/4		10	R 1/4	15	27.5	44	19	22	
	-GE10SR3/8		10	R 3/8	15.3	27.5	44	19	22	
	-GE12SR1/4		12	R 1/4	15	29.5	46	22	24	
	-GE12SR3/8		12	R 3/8	15.3	29.5	46	22	24	
	-GE12SR1/2		12	R 1/2	20	34.5	51	22	24	
	-GE14SR1/2		14	R 1/2	20	36	54	24	27	
	-GE16SR1/2	400bar 5800psi	16	R 1/2	20	35.5	54	27	30	
	-GE20SR3/4		20	R 3/4	20	37.5	59	32	36	
	-GE25SR1		25	R 1	25	45	69	41	46	
	-GE30SR11/4		30	R 1 1/4	25.5	46.5	73	46	50	
	-GE38SR11/2	315bar 4560psi	38	R 1 1/2	26	49	80	55	56	

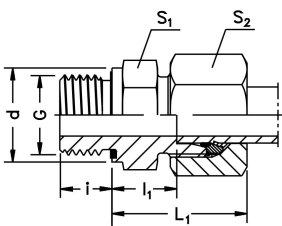
## Male Connector - GE-NPT

Male Connector - GE-NPT										
	<b>GE-NPT Part NO.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube O.D.</b>	<b>G Male NPT</b>	<b>i</b>	<b>I4</b>	<b>L4</b>	<b>S1</b>	<b>S2</b>	
	-GE04LL1/8NPT	<b>LL</b> Very light 100 bar 1450 psi	4	1/8-27 NPT	10	18.5	28	11	10	
	-GE06LL1/8NPT		6	1/8-27 NPT	10	16.5	28	11	12	
	-GE08LL1/8NPT		8	1/8-27 NPT	10	18.5	30	12	14	
	-GE06L1/8NPT	<b>L</b> Light 315 bar 4560psi	6	1/8-27 NPT	10	17	32	12	14	
	-GE06L1/4NPT		6	1/4-18 NPT	15	23	38	17	14	
	-GE08L1/4NPT		8	1/4-18 NPT	15	23	38	17	17	
	-GE10L1/4NPT		10	1/4-18 NPT	15	24	39	17	19	
	-GE10L3/8NPT		10	3/8-18 NPT	15.3	25	40	19	19	
	-GE12L1/4NPT		12	1/4-18 NPT	15	25	40	19	22	
	-GE12L3/8NPT		12	3/8-18 NPT	15.3	25	40	19	22	
	-GE12L1/2NPT		12	1/2-14 NPT	20	30	45	22	22	
	-GE15L1/2NPT		15	1/2-14 NPT	20	31	46	24	27	
	-GE18L1/2NPT		18	1/2-14 NPT	20	31.5	48	27	32	
	-GE22L3/4NPT		160bar 2320psi	22	3/4-14 NPT	20	33.5	50	32	36
	-GE28L1NPT			28	1-11.5 NPT	25	39.5	56	41	41
	-GE35L11/4NPT	35		1 1/4-11.5 NPT	25.5	40.5	62	46	50	
	-GE42L11/2NPT	42		1 1/2-11.5 NPT	26	42	65	55	60	
	-GE06S1/4NPT	<b>S</b> heavy 630bar 9130psi	6	1/4-18 NPT	15	28	43	17	17	
	-GE08S1/4NPT		8	1/4-18 NPT	15	28	43	17	19	
	-GE10S1/4NPT		10	1/4-18 NPT	15	27.5	44	19	22	
	-GE10S3/8NPT		10	3/8-18 NPT	15.3	27.5	44	19	22	
	-GE12S1/4NPT		12	1/4-18 NPT	15	29.5	46	22	24	
	-GE12S3/8NPT		12	3/8-18 NPT	15.3	29.5	46	22	24	
	-GE12S1/2NPT		12	1/2-14 NPT	20	34.5	51	22	24	
	-GE14S1/2NPT		14	1/2-14 NPT	20	36	54	24	27	
	-GE16S1/2NPT	400bar 5800psi	16	1/2-14 NPT	20	35.5	54	27	30	
	-GE20S3/4NPT		20	3/4-14 NPT	20	37.5	59	32	36	
	-GE25S1NPT		25	1-11.5 NPT	25	45	69	41	46	
	-GE30S11/4NPT		30	1 1/4-11.5 NPT	25.5	46.5	73	46	50	
	-GE38S11/2NPT	315bar 4560psi	38	1 1/2-11.5 NPT	26	49	80	55	56	

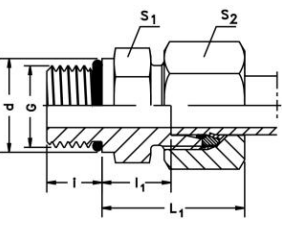
## Male Connector - GE-R-ED

Male Connector - GE-R-ED										
	<b>GE-R-ED Part NO.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube O.D.</b>	<b>G Male BSPP</b>	<b>d</b>	<b>i</b>	<b>I1</b>	<b>L1</b>	<b>S1</b>	<b>S2</b>
	-GE04LLRED	<b>LL</b> very light 100 bar 1450psi	4	G 1/8A	14	8	9.5	19	14	10
	-GE06LLRED		6	G 1/8A	14	8	8	20	14	12
	-GE06LRED	<b>L</b> light 315 bar 4560psi	6	G1/8A	14	8	8.5	23	14	14
	-GE06LR1/4ED		6	G1/4A	19	12	10	25	19	14
	-GE08LR1/8ED		8	G1/8A	14	8	9.5	24	14	17
	-GE08LRED		8	G1/4A	19	12	10	25	19	17
	-GE08LR3/8ED		8	G3/8A	22	12	11.5	26	22	17
	-GE10LRED		10	G1/4A	19	12	11	26	19	19
	-GE10LRED3/8ED		10	G3/8A	22	12	12.5	27	22	19
	-GE10LRED1/2ED		10	G1/2A	27	14	13	28	27	19
	-GE12LRED1/4ED		12	G1/4A	19	12	12	27	19	22
	-GE12LRED		12	G3/8A	22	12	12.5	27	22	22
	-GE12LR1/2ED		12	G1/2A	27	14	13	28	27	22
	-GE15LR3/8ED		15	G3/8A	22	12	13.5	29	24	27
	-GE15LRED		15	G1/2A	27	14	14	29	27	27
	-GE18LRED		18	G1/2A	27	14	14.5	31	27	32
	-GE18LR3/4ED		18	G3/4A	32	16	14.5	31	32	32
	-GE22LRED		160 bar 2320psi	22	G3/4A	32	16	16.5	33	32
	-GE28LRED	28		G1A	40	18	17.5	34	41	41
	-GE35LRED	35		G 1 1/4 A	50	20	17.5	39	50	50
	-GE42LRED	42		G 1 1/2 A	55	22	19	42	55	60
	-GE06SRED	<b>S</b> Heavy 630bar 9130psi	6	G 1/4A	19	12	13	28	19	17
	-GE08SRED		8	G 1/4A	19	12	15	30	19	19
	-GE08SR3/8ED		8	G 3/8A	22	12	15.5	30	22	19
	-GE10SR1/4ED		10	G 1/4A	19	12	14.5	31	19	22
	-GE10SRED		10	G 3/8A	22	12	15	31	22	22
	-GE10SR1/2ED		10	G 1/2A	27	14	17.5	34	27	22
	-GE12SR1/4ED		12	G 1/4A	19	12	16.5	33	22	24
	-GE12SRED		12	G 3/8A	22	12	17	33	22	24
	-GE12SR1/2ED		12	G 1/2A	27	14	17.5	34	27	24
	-GE14SRED		14	G 1/2A	27	14	19	37	27	27
	-GE16SR3/8ED	400bar 5800psi	16	G 3/8A	22	12	18	36	27	30
	-GE16SRED		16	G 1/2A	27	14	18.5	37	27	30
	-GE16SR3/4ED		16	G 3/4A	27	16	20.5	39	32	30
	-GE20SRED		20	G 3/4A	32	16	20.5	42	32	36
	-GE25SR1/2ED		25	G 1/2A	27	14	23	47	41	46
	-GE25SRED		25	G 1 A	40	18	23	47	41	46
	-GE30SRED		30	G 1 1/4A	50	20	23.5	50	50	50
	-GE38SRED	315bar 4560psi	38	G 1 1/2A	55	22	26	57	55	60

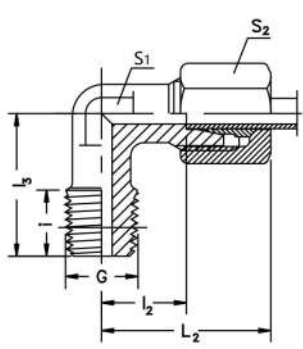
## Male Connector - GE-M-ED

	<b>GE-M-ED Part NO.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube O.D.</b>	<b>G Male Metric thread</b>	<b>d</b>	<b>i</b>	<b>I1</b>	<b>L1</b>	<b>S1</b>	<b>S2</b>
	-GE06LMED	<b>L light</b> 315 bar 4560psi	6	M10*1	14	8	8.5	23	14	14
	-GE08LMED		8	M12*1.5	17	12	10	25	17	17
	-GE10LMED		10	M14*1.5	19	12	11	26	19	19
	GE12LMED		12	M16*1.5	22	12	12.5	27	22	22
	-GE12LM18*1.5ED		12	M18*1.5	24	12	12.5	27	24	22
	-GE12LM22*1.5ED		12	M22*1.5	27	14	14	29	27	22
	-GE15LMED		15	M18*1.5	24	12	13.5	29	24	27
	-GE15LM22*1.5ED		15	M22*1.5	27	14	15	30	27	27
	-GE18LMED		18	M22*1.5	27	14	14.5	31	27	32
	-GE22LMED		160 bar	22	M26*1.5	32	16	16.5	33	32
	-GE28LMED	2320psi	28	M33*2	40	18	17.5	34	41	41
	-GE35LMED		35	M42*2	50	20	17.5	39	50	50
	-GE42LMED		42	M48*2	55	22	19	42	55	60
	-GE06SMED		<b>S Heavy</b> 630bar 9130psi	6	M12*1.5	17	12	13	28	17
	-GE08SMED	8		M14*1.5	19	12	15	30	19	19
	-GE10SMED	10		M16*1.5	22	12	15	31	22	22
	-GE12SMED	12		M18*1.5	24	12	17	33	22	24
	-GE14SMED	400bar	14	M20*1.5	26	14	19	37	27	27
	-GE16SMED		16	M22*1.5	27	14	18.5	37	27	30
	-GE20SMED		5800psi	20	M27*2	32	16	20.5	42	32
-GE25SMED	25			M33*2	40	18	23	47	41	46
-GE30SMED	30			M42*2	50	20	23.5	50	50	50
-GE38SMED	315bar 4560psi	38	M48*2	55	22	26	57	55	60	

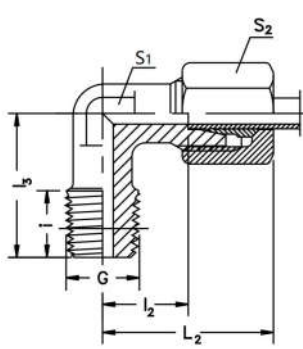
## Male Connector - GEO

	<b>GEO Part NO.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube O.D.</b>	<b>G Male Metric thread</b>	<b>d</b>	<b>i</b>	<b>I1</b>	<b>L1</b>	<b>S1</b>	<b>S2</b>	<b>O-ring ID&amp;Cross Section</b>	
	-GEO04LLM	<b>LL</b> Very light 100bar 1450psi	4	M8*1	11	6.5	9.5	19	11	10	6.1*1.6	
	-GEO04LLM10*1		4	M10*1	13	6.5	9.5	19	13	10	8.1*1.6	
	-GEO06LLM		6	M10*1	13	6.5	8	19.5	13	12	8.1*1.6	
	-GEO06LM	<b>L light</b> 315 bar 4560psi	6	M10*1	14	8.5	8.5	23	14	14	8.1*1.6	
	-GEO08LM		8	M12*1.5	17	11	10	25	17	17	9.3*2.2	
	-GEO10LM		10	M14*1.5	19	11	11	26	19	19	11.3*2.2	
	-GEO12LM		12	M16*1.5	22	11.5	12.5	27	22	22	13.3*2.2	
	-GEO15LM		15	M18*1.5	24	12.5	13.5	29	24	27	15.3*2.2	
	-GEO18LM		18	M22*1.5	27	13	14.5	31	27	32	19.3*2.2	
	-GEO22LM27*2	160bar	22	M27*1.5	32	16	16.5	33	32	36	23.6*2.9	
	-GEO28LM	2320psi	28	M33*2	41	16	17.5	34	41	41	29.6*2.9	
	-GEO35LM		35	M42*2	50	16	17.5	39	50	50	38.6*2.9	
	-GEO42LM		42	M48*2	55	17.5	19	42	55	60	44.6*2.9	
	-GEO06SM		<b>S Heavy</b> 630bar 9130psi	6	M12*1.5	17	11	13	28	17	17	9.3*2.2
	-GEO08SM	8		M14*1.5	19	11	15	30	19	19	11.3*2.2	
	-GEO10SM	10		M16*1.5	22	12.5	15	31	22	22	13.3*2.2	
	-GEO12SM	12		M18*1.5	24	14	17	33	22	24	15.3*2.2	
	-GEO16SM	400bar	16	M22*1.5	27	15	18.5	37	27	30	19.3*2.2	
	-GEO20SM		5800psi	20	M27*2	32	18.5	20.5	42	32	36	23.6*2.9
	-GEO25SM			25	M33*2	41	18.5	23	47	41	46	29.6*2.9
-GEO30SM	30			M42*2	50	19	23.5	50	50	50	38.6*2.9	
-GEO38SM	315bar 4560psi			38	M48*2	55	21.5	26	57	55	60	44.6*2.9

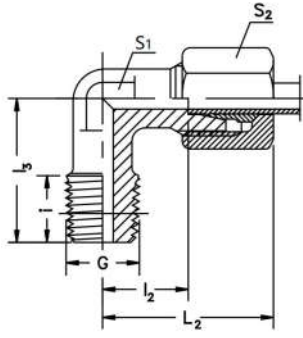
## Male Elbow - WE-R

	WE-R Part NO.	Working Pressure (bar / psi)	Tube O.d.	G Male BSPT	i	I2	I3	L2	S1	S2
		-WE04LLR	<b>LL</b> very light 100 bar 1450psi	4	R1/8 keg	9.5	11	17	21	11
-WE06LLR		6		R1/8 keg	9.5	9.5	17	21	11	12
-WE08LLR		8		R1/8 keg	9.5	12	20	23	12	14
-WE10LLR		10		R1/4keg	14	13	23	24	14	17
-WE12LLR		12	R1/4keg	14	13	23	25	17	19	
-WE06LR		<b>L</b> light 315 bar 4560psi	6	R1/8keg	8	12	20	27	12	14
-WE08LR			8	R1/4keg	12	14	26	29	14	17
-WE10LR			10	R1/4keg	12	15	27	30	17	19
-WE12LR			12	R3/8keg	12	17	28	32	19	22
-WE15LR			15	R1/2keg	14	21	34	36	19	27
-WE18LR			18	R1/2keg	17	24	36	40	24	32
-WE06SR		<b>S</b> heavy 400 bar 5800psi	6	R1/4keg	14	16	26	31	14	17
-WE08SR			8	R1/4keg	12	17	27	32	17	19
-WE10S			10	R3/8keg	12	18	28	34	19	22
-WE12S			12	R3/8keg	12	22	28	38	22	24
-WE14S			14	R1/2keg	14	22	32	30	19	27
-WE16S	16		R1/2keg	17	25	32	43	24	30	

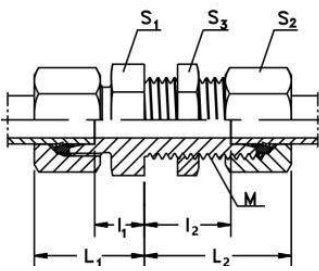
## Male Elbow - WE-M

	Working Pressure (bar / psi)	Tube O.D.	G Male metric thread	i	I2	I3	L2	S1	S2	
		<b>LL</b> very light 100 bar 1450psi	-WE04LLM	4	M8*1	9.5	11	17	21	11
-WE06LLM			6	M10*1	9.5	9.5	17	21	11	12
-WE08LLM			8	M10*1	9.5	12	20	23	12	14
<b>L</b> light 315 bar 4560psi		-WE06LM	6	M10*1	8	12	20	27	12	14
		-WE08LM	8	M12*1.5	12	14	26	29	14	17
		-WE10LM	10	M14*1.5	12	15	27	30	17	19
		-WE12LM	12	M16*1.5	12	17	28	32	19	22
		-WE15LM	15	M18*1.5	12	21	32	36	19	27
		-WE18LM	18	M22*1.5	17	24	36	40	24	32
<b>S</b> heavy 400 bar 5800psi		-WE06SM	6	M12*1.5	14	16	26	31	14	17
		-WE08SM	8	M14*1.5	12	17	27	32	17	19
		-WE10SM	10	M16*1.5	12	18	28	34	19	22
		-WE12SM	12	M18*1.5	12	22	28	38	22	24
		-WE14SM	14	M20*1.5	14	22	32	40	19	27
		-WE16SM	16	M22*1.5	17	25	32	43	24	30

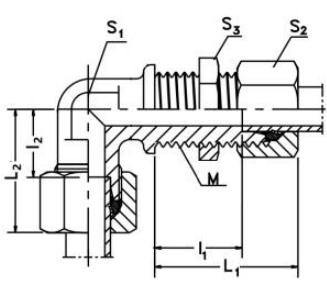
## Male Elbow - WE-NPT

	WE-NPT Part NO.	Working Pressure (bar/psi)	Tube O.D.	G Male NPT	i	I2	I3	L2	S1	S2
	-WE04LL1/8NPT	<b>LL</b>		4	1/8-27 NPT	10	11	17	21	11
-WE06LL1/8NPT	very light 100 bar 1450 psi		6	1/8-27 NPT	10	9.5	17	21	11	12
-WE08LL1/8NPT			8	1/8-27 NPT	10	11.5	20	23	12	14
-WE06L1/8NPT		<b>L light</b> 315 bar 4560 psi		6	1/8-27 NPT	10	12	20	27	12
-WE08L1/4NPT			8	1/4-18 NPT	15	14	26	29	14	17
-WE10L1/4NPT			10	1/4-18 NPT	15	15	27	30	17	19
-WE12L3/8NPT			12	3/8-18 NPT	15.3	17	28	32	19	22
-WE15L1/2NPT			15	1/2-14 NPT	20	21	34	36	19	27
-WE18L1/2NPT			18	1/2-14 NPT	20	23.5	36	40	24	32
-WE22L3/4NPT	160 bar 2320 psi		22	3/4-14 NPT	20	27.5	42	44	27	36
-WE28L1NPT			28	1-11.5 NPT	25	30.5	48	47	36	41
-WE35L11/4NPT			35	1 1/4-11.5 NPT	25.5	34.5	54	56	41	50
-WE42L11/2NPT			42	1 1/2-11.5 NPT	26	40	61	63	50	60
-WE06S1/4NPT	<b>S heavy</b> 630 bar 9130 psi		6	1/4-18 NPT	15	16	26	31	14	17
-WE08S1/4NPT			8	1/4-18 NPT	15	17	27	32	17	19
-WE10S3/8NPT			10	3/8-18 NPT	15.3	17.5	28	34	19	22
-WE12S3/8NPT			12	3/8-18 NPT	15.3	17	28	38	22	24
-WE14S1/2NPT			14	1/2-14 NPT	20	22	34	40	19	27
-WE16S1/2NPT		400 bar		16	1/2-14 NPT	20	24.5	36	43	24
-WE20S3/4NPT	5800 psi		20	3/4-14 NPT	20	26.5	42	48	27	36
-WE25S1NPT			25	1-11.5 NPT	25	30	48	54	36	46
-WE30S11/4NPT			30	1 1/4-11.5 NPT	25.5	35.5	54	62	41	50
-WE38S11/2NPT		315 bar 4560 psi		38	1 1/2-11.5 NPT	26	41	61	72	50

## Bulkhead Union - SV

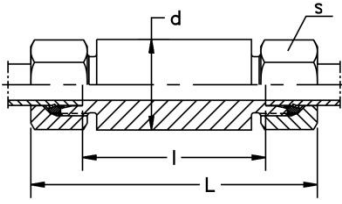
	SV Part NO.	Working Pressure (bar/psi)	Tube O.D.	M	I1	I2	L1	L2	S1	S2	S3
	-SV06L	<b>L light</b> 315 bar 4560 psi		6	M12 x 1.5	7	27	22	42	17	14
-SV08L			8	M14 x 1.5	8	27	23	42	19	17	19
-SV10L			10	M16 x 1.5	10	28	25	43	22	19	22
-SV12L			12	M18 x 1.5	10	29	25	44	24	22	24
-SV15L			15	M22 x 1.5	12	31	27	46	27	27	30
-SV18L			18	M26 x 1.5	13.5	32.5	30	49	32	32	36
-SV22L	160 bar 2320 psi		22	M30 x 2	16.5	34.5	33	51	36	36	41
-SV28L			28	M36 x 2	18.5	35.5	35	52	41	41	46
-SV35L			35	M45 x 2	18.5	36.5	40	58	50	50	55
-SV42L			42	M52 x 2	19	36	42	59	60	60	65
-SV06S	<b>S heavy</b> 630 bar 9130 psi		6	M14 x 1.5	12	29	27	44	19	17	19
-SV08S			8	M16 x 1.5	13	29	28	44	22	19	22
-SV10S			10	M18 x 1.5	14.5	29.5	31	46	24	22	24
-SV12S			12	M20 x 1.5	14.5	30.5	31	47	27	24	27
-SV14S			14	M22 x 1.5	17	32	35	50	30	27	30
-SV16S		400 bar		16	M24 x 1.5	16.5	31.5	35	50	32	30
-SV20S	5800 psi		20	M30 x 2	17.5	33.5	39	55	41	36	41
-SV25S			25	M36 x 2	20	35	44	59	46	46	46
-SV30S			30	M42 x 2	21.5	37.5	48	64	50	50	50
-SV38S		315 bar 4560 psi		38	M52 x 2	22	37	53	68	65	60

## Bulkhead Union Elbow - WSV



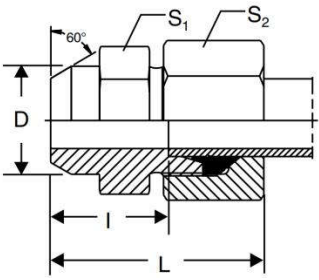
WSV Part NO.	Working Pressure (bar/psi)	Tube O.D.	M	I1	I2	L1	L2	S1	S2	S3
-WSV06L	L light 315 bar 4560 psi	6	M12 x 1.5	27	12	42	27	14	12	17
-WSV08L		8	M14 x 1.5	27	14	42	29	17	12	19
-WSV10L		10	M16 x 1.5	28	15	43	30	19	14	22
-WSV12L		12	M18 x 1.5	29	17	44	32	22	17	24
-WSV15L		15	M22 x 1.5	31	21	46	36	27	19	30
-WSV18L		18	M26 x 1.5	32.5	23.5	49	40	32	24	36
-WSV22L	160 bar 2320 psi	22	M30 x 2	34.5	27.5	51	44	36	27	41
-WSV28L		28	M36 x 2	35.5	30.5	52	47	41	36	46
-WSV35L		35	M45 x 2	36.5	34.5	58	56	50	41	55
-WSV42L		42	M52 x 2	36	40	59	63	60	50	65
-WSV06S	S heavy 630 bar 9130 psi	6	M14 x 1.5	29	16	44	31	17	12	19
-WSV08S		8	M16 x 1.5	29	17	44	32	19	14	22
-WSV10S		10	M18 x 1.5	29.5	17.5	46	34	22	17	24
-WSV12S		12	M20 x 1.5	30.5	21.5	47	38	24	17	27
-WSV14S		14	M22 x 1.5	32	22	50	40	27	19	30
-WSV16S	400 bar 5800 psi	16	M24 x 1.5	31.5	24.5	50	43	30	24	32
-WSV20S		20	M30 x 2	33.5	26.5	55	48	36	27	41
-WSV25S		25	M36 x 2	35	30	59	54	46	36	46
-WSV30S		30	M42 x 2	37.5	35.5	64	62	50	41	50
-WSV38S	315 bar 4560 psi	38	M52 x 2	37	41	68	72	60	50	65

## Weld Bulkhead Fitting - ESV

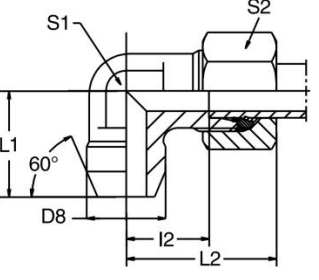


WSV Part NO.	Working Pressure (bar/psi)	Tube O.D.	d	I	L	S
-ESV06L	L light 315 bar 4560 psi	6	18	56	85	14
-ESV08L		8	20	56	85	17
-ESV10L		10	22	58	87	19
-ESV12L		12	25	58	87	22
-ESV15L		15	28	70	100	27
-ESV18L		18	32	69	101	32
-ESV22L	160 bar 2320 psi	22	36	73	105	36
-ESV28L		28	40	73	106	41
-ESV35L		35	50	71	114	50
-ESV42L		42	60	70	115	60
-ESV06S	S heavy 630 bar 9130 psi	6	20	60	89	17
-ESV08S		8	22	60	89	19
-ESV10S		10	25	59	91	22
-ESV12S		12	28	59	91	24
-ESV14S		14	30	72	107	27
-ESV16S	400 bar 5800 psi	16	35	71	107	30
-ESV20S		20	38	71	114	36
-ESV25S		25	45	72	120	46
-ESV30S		30	50	73	126	50
-ESV38S	315 bar 4560 psi	38	60	72	133	60

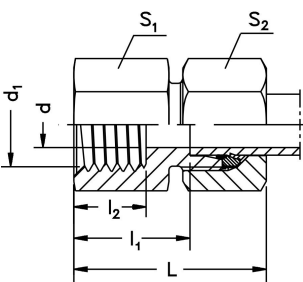
## Weld Connector - AS

	AS	Working Pressure (bar/psi)	Tube o.d.	D	I	L	S1	S2
	Part no.							
	-AS06L	L light 315 bar 4560 psi	6	10	14	29	12	14
	-AS08L		8	12	16	31	14	17
	-AS10L		10	14	18	33	17	19
	-AS12L		12	16	18	33	19	22
	-AS15L		15	19	22	37	22	27
	-AS18L		18	22	23.5	40	27	32
	-AS22L	160 bar 2320 psi	22	27	28.5	45	32	36
	-AS28L		28	32	30.5	47	41	41
	-AS35L		35	40	32.5	54	46	50
	-AS42L		42	46	35	58	55	60
	-AS06S	S heavy 630 bar 9130 psi	6	11	19	34	14	17
	-AS08S		8	13	21	36	17	19
	-AS10S		10	15	22.5	39	19	22
	-AS12S		12	17	24.5	41	22	24
	-AS14S		14	19	27	45	24	27
	-AS16S	400 bar 5800 psi	16	21	26.5	45	27	30
	-AS20S		20	26	29.5	51	32	36
	-AS25S		25	31	32	56	41	46
	-AS30S		30	36	35.5	62	46	50
	-AS38S	315 bar 4560 psi	38	44	38	69	55	60

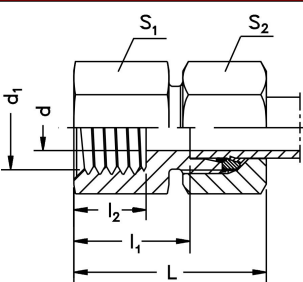
## Weld Elbow - WAS

	WAS	Working Pressure (bar/psi)	Tube O.D.	L1	L2	I2	S1	S2	D
	Part No.								
	-WAS06L	L light 315 bar 4560 psi	6	19	27	12	14	12	10
	-WAS08L		8	23	29	14	17	12	12
	-WAS10L		10	24	30	15	19	14	14
	-WAS12L		12	25	32	17	22	17	16
	-WAS15L		15	30	36	21	27	19	19
	-WAS18L		18	33	40	23.5	32	24	22
	-WAS22L	160 bar 2320 psi	22	37	44	27.5	36	27	27
	-WAS28L		28	42	47	30.5	41	36	32
	-WAS35L		35	49	56	34.5	50	41	40
	-WAS42L		42	57	63	40	60	50	46
	-WAS06S	S heavy 630 Bar 9130 psi	6	23	31	16	17	12	11
	-WAS08S		8	24	32	17	19	14	13
	-WAS10S		10	25	34	17.5	22	17	15
	-WAS12S		12	29	38	21.5	24	17	17
	-WAS14S		14	30	40	22	27	19	19
	-WAS16S	400 bar 5800 psi	16	33	43	24.5	30	24	21
	-WAS20S		20	37	48	26.5	36	27	26
	-WAS25S		25	42	54	30	46	36	31
	-WAS30S		30	49	62	35.5	50	41	36
	-WAS38S	315bar 4560psi	38	57	72	41	60	50	44

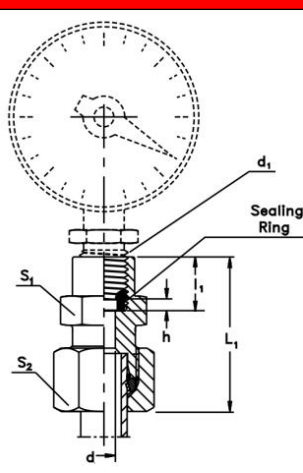
## Female Connector - GAI-R

GAI-R Part NO.	Workong Pressure (bar/psi)	Tube O.d.	d1 BSP	d	l1	l2	L	S1	S2		
	<b>L light</b> 315 bar 4560 psi	-GAI06LR	6	G 1/8	4	19	12	34	14	14	
		-GAI08LR	8	G 1/4	6	24	17	39	19	17	
		-GAI08LR3/8	8	G 3/8	6	25	17	40	24	17	
		-GAI08LR1/2	8	G 1/2	6	29	20	44	27	17	
		-GAI10LR	10	G 1/4	8	25	17	40	19	19	
		-GAI10LR3/8	10	G 3/8	8	26	17	41	24	19	
		-GAI10LR1/2	10	G 1/2	8	30	20	45	27	19	
		-GAI12LR	12	G 3/8	10	26	17	41	24	22	
		-GAI12LR1/2	12	G 1/2	10	30	20	45	27	22	
		-GAI15LR	15	G 1/2	12	31	20	46	27	27	
		-GAI18LR	18	G 1/2	15	30.5	20	47	27	32	
		-GAI22LR	<b>160 bar</b> 2320 psi	22	G 3/4	19	35.5	22	52	36	36
		-GAI28LR		28	G 1	24	38	24.5	55	41	41
		-GAI35LR		35	G 1 1/4	30	41	26.5	63	55	50
-GAI42LR	42	G 1 1/2		36	42.5	28.5	65	60	60		
<b>S heavy</b> 400 bar 5800 psi	-GAI06SR	6	G 1/4	4	26	17	41	19	17		
	-GAI08SR	8	G 1/4	5	26	17	41	19	19		
	-GAI10SR	10	G 3/8	7	26.5	17	43	24	22		
	-GAI12SR	12	G 3/8	8	26.5	17	43	24	24		
	-GAI14SR	14	G 1/2	10	32	20	50	30	27		
	-GAI16SR	16	G 1/2	12	31.5	20	50	30	30		
<b>315 bar</b> 4560 psi	-GAI20SR	20	G 3/4	16	34.5	22	56	36	36		
	-GAI25SR	25	G 1	20	37.5	24.5	62	41	46		
	-GAI30SR	30	G 1 1/4	25	42	26.5	69	55	50		
-GAI38SR	<b>250 bar</b> 3625 psi	38	G 1 1/2	32	43.5	28.5	74	60	60		

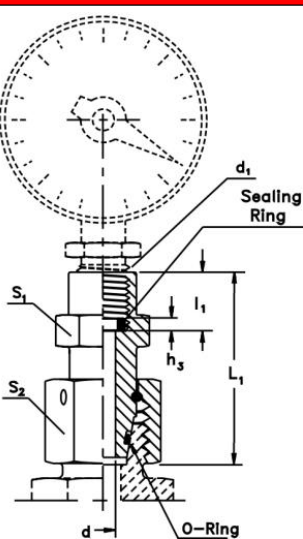
## Female Connector - GAI-M

GAI-M Part NO.	Workong Pressure (bar/psi)	Tube O.d.	d1 Metric Tread	d	l1	l2	L	S1	S2		
	<b>L light</b> 315 bar 4560 psi	-GAI06LM	6	M10x1	4	19.5	12.5	34	14	14	
		-GAI08LM	8	M12x1.5	6	24	17	39	17	17	
		-GAI10LM	10	M14x1.5	8	25	17	40	19	19	
		-GAI12LM	12	M16x1.5	10	26	17	41	22	22	
		-GAI15LM	15	M18x1.5	12	28	17	43	24	27	
		-GAI18LM	18	M22x1.5	15	29.5	19	46	30	32	
		-GAI22LM	<b>160 bar</b> 2320 psi	22	M26x1.5	19	34.5	21	51	32	36
		-GAI28LM		28	M33x2	24	37.5	24	54	41	41
		-GAI35LM		35	M42x2	30	40.5	26	62	55	50
		-GAI42LM		42	M48x2	36	42	28	65	60	60
		<b>S heavy</b> 400 bar 5800 psi	-GAI06SM	6	M12x1.5	4	26	17	41	17	17
			-GAI08SM	8	M14x1.5	5	26	17	41	17	19
			-GAI10SM	10	M16x1.5	7	26.5	17	43	22	22
			-GAI12SM	12	M18x1.5	8	27.5	17	44	24	24
-GAI14SM	14		M20x1.5	10	31	19	49	27	27		
-GAI16SM	16		M22x1.5	12	30.5	19	49	30	30		
<b>315 bar</b> 4560 psi	-GAI20SM	20	M27x2	16	34.5	22	56	36	36		
	-GAI25SM	25	M33x2	20	37	24	61	41	46		
	-GAI30SM	30	M42x2	25	41.5	26	68	55	50		
-GAI38SM	<b>250 bar</b> 3625 psi	38	M48x2	32	43	28	74	60	60		

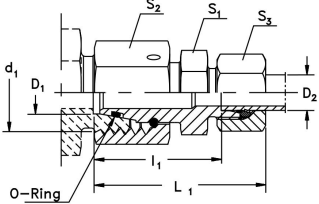
## BSPB Pressure Gauge Connector - MAV

	<b>MAV Part no.</b>	<b>Working Pressure (bar / psi)</b>	<b>Tube o.d.</b>	<b>d1 BSPP thread</b>	<b>d</b>	<b>h</b>	<b>l1</b>	<b>L1</b>	<b>S1</b>	<b>S2</b>
	-MAV04LLR	<b>LL</b> very light 100 bar 1450 psi	4	G 1/4	2.5	4.5	14.5	33	19	10
	-MAV06LR	<b>L</b> light 315 bar 4560 psi	6	G 1/4	2.5	4.5	14.5	37	19	14
	-MAV08LR		8	G 1/4	5.5	4.5	14.5	37	19	17
	-MAV10LR		10	G 1/4	5.5	4.5	14.5	38	19	19
	-MAV12LR		12	G 1/4	5.5	4.5	14.5	38	19	22
	-MAV06SR	<b>S</b> heavy 630 bar 9130 psi	6	G 1/2	3.5	5	20	46	27	17
	-MAV08SR		8	G 1/2	3.5	5	20	46	27	19
	-MAV10SR		10	G 1/2	7.5	5	20	47	27	22
	-MAV12SR		12	G 1/2	7.5	5	20	47	27	24

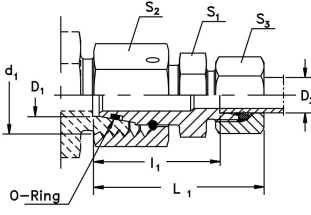
## BSPB Pressure Gauge Connector - MAVE

	<b>MAVE Part no.</b>	<b>Working Pressure (bar / psi)</b>	<b>Tube o.d.</b>	<b>d1 BSPP thread</b>	<b>d</b>	<b>h</b>	<b>l1</b>	<b>L1</b>	<b>S1</b>	<b>S2</b>	<b>O-ring</b>
	-MAVE06LR	<b>L</b> light 315 bar 4560 psi	6	G 1/4	2.5	4.5	14.5	35.5	19	14	4.5 x 1.5
	-MAVE08LR		8		4					17	6.5 x 1.5
	-MAVE10LR		10		5.5					19	8 x 1.5
	-MAVE12LR		12		5.5					22	10 x 1.5
	-MAVE06SR	<b>S</b> heavy 630 bar 9130 psi	6	G 1/2	2.5	5	20	42.5	27	17	4 x 1.5
	-MAVE08SR		8		4					19	6 x 1.5
	-MAVE10SR		10		6					22	7.5 x 1.5
	-MAVE12SR		12		7					24	9 x 1.5
	-MAVE06SR1/4	630 bar 9130 psi	6	G 1/4	2.5	4.5	14.5	35.5	19	17	4 x 1.5
	-MAVE08SR1/4		8		4					19	6 x 1.5
	-MAVE10SR1/4		10		7					22	7.5 x 1.5
	-MAVE12SR1/4		12		7					24	9 x 1.5

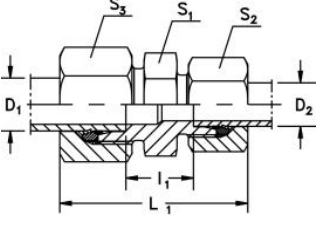
## Tube End Reducer - RED

Tube End Reducer - RED											
	RED Part no.	Working Pressure (bar/psi)	D1	D2	d1	l1	L1	S1	S2	S3	O-ring
	-RED06L/04LL	315	6	4	M12x1.5	24.5	34	9	14	10	4.5 x 1.5
	-RED08/06L		8	6	M14x1.5	23.5	38	12	17	14	6.5 x 1.5
	-RED10/06L	4560	10	6	M16x1.5	25	40	14	19	14	8 x 1.5
	-RED10/08L					8	25			40	
	-RED12/06L	315	12	6	M18x1.5	25	40	17	22	14	10 x 1.5
	-RED12/08L					8	25			40	
	-RED12/10L	4560		10		26	41			19	
	-RED15/06L	315	15	6	M22x1.5	28.5	43	19	27	14	12 x 2
	-RED15/08L					8	28.5			43	
	-RED15/10L	4560		10		29.5	44			19	
	-RED15/12L					12	29.5			44	
	-RED18/06L	315	18	6	M26x1.5	28	43	24	32	14	15 x 2
	-RED18/08L					8	28			43	
	-RED18/10L	4560		10		29	44			19	
	-RED18/12L					12	29			44	
	-RED18/15L			15		30	45			27	
	-RED22/06L	160	22	6	M30x2	32	47	27	36	14	20 x 2
	-RED22/08L					8	32			47	
	-RED22/10L	2320		10		33	48			19	
	-RED22/12L					12	33			48	
	-RED22/15L			15		34	49			27	
	-RED22/18L			18		33.5	50			32	
	-RED28/06L	160	28	6	M36x2	34	49	32	41	14	26 x 2
	-RED28/08L					8	34			49	
	-RED28/10L	2320		10		35	50			19	
	-RED28/12L					12	35			50	
	-RED28/15L			15		36	51			27	
	-RED28/18L			18		35.5	52			32	
	-RED28/22L			22		37.5	54			36	
	-RED35/12L	160	35	12	M45x2	38	53	41	50	22	32 x 2.5
	-RED35/15L					15	39			54	
	-RED35/18L	2320		18		38.5	55			32	
	-RED35/22L					22	40.5			57	
	-RED35/28L			28		40.5	57			41	
	-RED42/18L	160	42	18	M52x2	42	58	50	60	32	38 x 2.5
	-RED42/22L					22	44			60	
	-RED42/28L	2320		28		44	61			41	
	-RED42/35L					35	43			65	

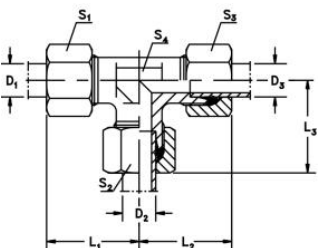
## Tube End Reducer - RED

Tube End Reducer - RED												
	RED Part no.	Working Pressure (bar / psi)	D1	D2	d1	l1	L1	S1	S2	S3	O-ring	
	-RED08/06S	630	8	6	M16x1.5	27	42	14	19	17	6 x 1.5	
	-RED10/06S	9130	10	6	M18x1.5	27.5	42	17	22	17	8 x 1.5	
	-RED10/08S			8		27.5	42			19		
	-RED12/06S	630	12	6	M20x1.5	29	44	17	24	17	9 x 1.5	
	-RED12/08S	9130		8		29	44	17		19		
	-RED12/10S			10		29.5	46	19		22		
	-RED14/06S	630	14	6	M22x1.5	31.5	46	19	27	17	11 x 2	
	-RED14/08S			8		31.5	46	19		19		
	-RED14/10S			9130		10	31	47		19		22
	-RED14/12S					12	31	47		22		24
	-RED16/06S	400	16	6	M24x1.5	32	47	22	30	17	13 x 2	
	-RED16/08S			8		32	47	22		19		
	-RED16/10S			5800		10	31.5	48		22		22
	-RED16/12S					12	31.5	48		22		24
	-RED16/14S					14	33	51		24		27
	-RED20/06S	400	20	6	M30x2	36	51	27	36	17	16 x 2.4	
	-RED20/08S			8		36	51			19		
	-RED20/10S			5800		10	35.5			52		22
	-RED20/12S					12	35.5			52		24
	-RED20/14S					14	37			55		27
	-RED20/16S					16	36.5			55		30
	-RED25/06S	400	25	6	M36x2	38.5	53	32	46	17	20 x 2.4	
	-RED25/08S			8		38.5	53			19		
	-RED25/10S			5800		10	38			54		22
	-RED25/12S					12	38			54		24
	-RED25/14S					14	39.5			57		27
	-RED25/16S					16	39			57		30
	-RED25/20S					20	39			61		36
	-RED30/08S	400	30	8	M42x2	44	59	41	50	19	25 x 2.4	
	-RED30/10S			10		43.5	60			22		
	-RED30/12S			5800		12	43.5			60		24
	-RED30/14S					14	45			63		27
	-RED30/16S					16	44.5			63		30
	-RED30/20S					20	44.5			66		36
	-RED30/25S					25	45			69		46
	-RED38/12S	315	38	12	M52x2	47	63	50	60	24	33 x 2.4	
	-RED38/16S			16		48	66			30		
	-RED38/20S			4560		20	48			70		36
	-RED38/25S					25	48.5			73		46
	-RED38/30S					30	49			76		50

## Straight Reducer - GR

Straight Reducer - GR									
	<b>GR Part NO.</b>	<b>Working Pressure (bar/psi)</b>	<b>D1 Tube O.d</b>	<b>D2 Tube O.d</b>	<b>I1</b>	<b>L1</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>
	-GR06/04LL	LL	6	4	10.5	32	11	10	12
	-GR08/04LL	very light 100 bar 1450 psi	8	4	12.5	34	12	10	14
	-GR08/06LL		8	6	11	34	12	12	14
	-GR08/06L	L light 315 bar 4560 psi	8	6	11	40	14	14	17
	-GR10/06L		10	6	12	41	17	14	19
	-GR10/08L		10	8	12	41	17	17	19
	-GR12/06L		12	6	13	42	19	14	22
	-GR12/08L		12	8	13	42	19	17	22
	-GR12/10L		12	10	14	43	19	19	22
	-GR15/10L		15	10	15	45	24	19	27
	-GR15/12L		15	12	15	45	24	22	27
	-GR18/10L		18	10	15.5	46	27	19	32
	-GR18/12L		18	12	15.5	46	27	22	32
	-GR18/15L	18	15	16.5	48	27	27	32	
	-GR22/12L	160 bar 2320 psi	22	12	17.5	48	32	22	36
	-GR22/15L		22	15	18.5	50	32	27	36
	-GR22/18L		22	18	18	50	32	32	36
	-GR28/18L		28	18	19	52	41	32	41
	-GR28/22L		28	22	21	54	41	36	41
	-GR35/22L		35	22	21	59	46	36	50
	-GR35/28L	35	28	21	59	46	41	50	
	-GR08/06S	S heavy 630 bar 9130 psi	8	6	18	47	17	17	19
	-GR10/06S		10	6	17.5	48	19	17	22
	-GR10/08S		10	8	17.5	48	19	19	22
	-GR12/06S		12	6	19.5	50	22	17	24
	-GR12/08S		12	8	19.5	50	22	19	24
	-GR12/10S		12	10	19	51	22	22	24
	-GR14/10S		14	10	20.5	54	24	22	27
	-GR14/12S		14	12	20.5	54	24	24	27
	-GR16/12S	400 bar 5800 psi	16	12	20	54	27	24	30
	-GR16/14S		16	14	21.5	57	27	27	30
	-GR20/10S		20	10	22	60	32	22	36
	-GR20/12S		20	12	22	60	32	24	36
	-GR20/16S		20	16	23	63	32	30	36
	-GR25/16S		25	16	25.5	68	41	30	46
	-GR25/20S		25	20	25.5	71	41	36	46
	-GR30/20S		30	20	26	74	46	36	50
	-GR30/25S		30	25	26.5	77	46	46	50
	-GR38/30S		315 bar 4560 psi	38	30	29.5	87	55	50

## Tee Reducer - TR

	TR Part NO.	Working Pressure (bar / psi)	Tube O.D.				L1	L2	L3	S1	S2	S3	S4
			D1	D2	D3								
	-TR04/08/04LL	LL 100bar 1450psi	4	8	4	23	23	23	10	14	10	12	
	-TR06/04/06LL		6	4	6	21	21	21	12	10	12	11	
	-TR06/08/06L		6	8	6	29	29	29	14	17	14	14	
	-TR08/06/08L		8	6	8	29	29	29	17	14	17	14	
	-TR06/10/06L		6	10	6	30	30	30	14	19	14	14	
	-TR08/10/08L		8	10	8	30	30	30	17	19	17	14	
	-TR10/06/10L		10	6	10	30	30	30	19	14	19	14	
	-TR10/08/10L		10	8	10	30	30	30	19	17	19	14	
	-TR10/10/06L		10	10	6	30	30	30	19	19	14	14	
	-TR08/12/08L		8	12	8	32	32	32	17	22	17	17	
	-TR12/06/12L	12	6	12	32	32	32	22	14	22	17		
	-TR12/08/08L	12	8	8	32	32	32	22	17	17	17		
	-TR12/08/12L	12	8	12	32	32	32	22	17	22	17		
	-TR12/10/10L	12	10	10	32	32	32	22	19	19	17		
	-TR12/10/12L	12	10	12	32	32	32	22	19	22	17		
	-TR12/12/10L	12	12	10	32	32	32	22	22	19	17		
	-TR10/15/10L	10	15	10	36	36	36	19	27	19	19		
	-TR12/15/12L	12	15	12	36	36	36	22	27	22	19		
	-TR15/06/15L	15	6	15	36	36	36	27	14	27	19		
	-TR15/10/15L	15	10	15	36	36	36	27	19	27	19		
	-TR15/12/12L	15	12	12	36	36	36	27	22	22	19		
	-TR15/12/15L	15	12	15	36	36	36	27	22	27	19		
	-TR15/15/12L	15	15	12	36	36	36	27	27	22	19		
	-TR12/18/12L	12	18	12	39	39	40	22	32	22	24		
	-TR18/10/10L	18	10	10	40	39	39	32	19	19	24		
	-TR18/10/18L	18	10	18	40	40	39	32	19	32	24		
	-TR18/12/18L	18	12	18	40	40	39	32	22	32	24		
	-TR18/15/18L	18	15	18	40	40	39	32	27	32	24		
	-TR18/18/10L	18	18	10	40	39	40	32	32	19	24		
	-TR22/10/22L	22	10	22	44	44	43	36	19	36	27		
	-TR22/12/22L	22	12	22	44	44	43	36	22	36	27		
	-TR22/15/15L	22	15	15	44	43	43	36	27	27	27		
	-TR22/15/22L	22	15	22	44	44	43	36	27	36	27		
	-TR22/18/18L	22	18	18	44	44	44	36	32	32	27		
	-TR22/18/22L	22	18	22	44	44	44	36	32	36	27		
	-TR22/22/18L	22	22	18	44	44	44	36	36	32	27		
	-TR28/10/28L	28	10	28	47	47	46	41	19	41	36		
	-TR28/12/28L	28	12	28	47	47	46	41	22	41	36		
	-TR28/15/28L	28	15	28	47	47	46	41	27	41	36		
	-TR28/18/28L	28	18	28	47	47	47	41	32	41	36		
	-TR28/22/22L	28	22	22	47	47	47	41	36	36	36		
	-TR28/22/28L	28	22	28	47	47	47	41	36	41	36		
	TR10/06/10S	S heavy 630 bar 9130 psii	10	6	10	34	34	33	22	17	22	17	
	TR12/08/08S		12	8	8	38	37	37	24	19	19	17	
	TR12/08/12S		12	8	12	38	38	37	24	19	24	17	
	TR12/10/12S		12	10	12	38	38	38	24	22	24	17	
	TR12/16/12S	S heavy 400 bar 5800 ps	12	16	12	42	42	43	24	30	24	24	
	TR16/06/16S		16	6	16	43	43	41	30	17	30	24	
	TR16/08/16S		16	8	16	43	43	41	30	19	30	24	
	TR16/10/16S		16	10	16	43	43	42	30	22	30	24	
	TR16/12/16S		16	12	16	43	43	42	30	24	30	24	
	TR16/20/16S		16	20	16	47	47	48	30	36	30	27	
	TR20/10/20S		20	10	20	48	48	46	36	22	36	27	
	TR20/12/20S		20	12	20	48	48	46	36	24	6	27	
	TR20/16/20S		20	16	20	48	48	47	36	30	36	27	
	TR20/25/20S		20	25	20	53	53	54	36	46	36	36	
	TR25/16/25S	25	16	25	54	54	52	46	30	46	36		
	TR25/20/25S	25	20	25	54	54	53	46	36	46	36		
	TR25/30/25S	25	30	25	61	61	62	46	50	46	41		

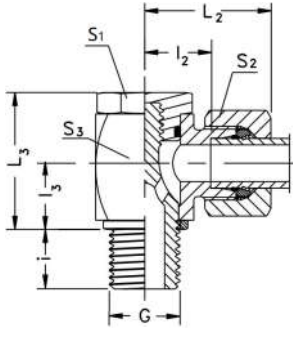
## Distance Piece Reducer - DA

	DA Part NO.	Working Pressure (bar/psi)	Tube O. D.	D/d	D1/d1	L1	L	S1	S2/S3	O-ring		
	-DA06L	L light 315 bar 4560 psi	6	9	M 12 X 1.5	51	36	12	14	OR4.5X1.5		
	-DA08L		8	8	M 14 X 1.5	51	36	14	17	OR6.5X1.5		
	-DA10L		10	10	M 16 X 1.5	51	36	17	19	OR8X1.5		
	-DA12L		12	12	M 18 X 1.5	51	36	19	22	OR10X1.5		
	-DA15L		15	15	M 22 X 1.5	51	36	24	27	OR12X2		
	-DA18L		18	18	M 26 X 1.5	52	36	27	32	OR15X2		
	-DA22L	160 bar 2320 psi	22	22	M 30 X 2	56	40	32	36	OR20X2		
	-DA28L		28	28	M 36 X 2	57	40	41	41	OR26X2		
	-DA35L		35	35	M 45 X 2	72	50	46	50	OR32X2.5		
	-DA42L		42	42	M 52 X 2	83	60	55	60	OR38X2.5		
	-DA06S	S heavy 630 bar 9130 psi	6	6	M 14 X 1.5	51	36	12	17	OR4.5X1.5		
	-DA08S		8	8	M 16 X 1.5	51	36	14	19	OR6.5X1.5		
	-DA10S		10	10	M 18 X 1.5	52	36	17	22	OR8X1.5		
	-DA12S		12	12	M 22 X 1.5	52	36	19	24	OR10X1.5		
	-DA14S		14	14	M 24 X 1.5	58	40	24	27	OR11X2		
	-DA16S		400 bar	16	16	M 26 X 1.5	58	40	27	30	OR13X2	
	-DA20S		5800 psi	20	20	M 30 X 2	68	46	32	36	OR16.3X2.4	
	-DA25S			25	25	M 36 X 2	74	50	41	46	OR20.3X2.4	
	-DA30S	315bar 4560psi	30	30	M 45 X 2	83	56	46	50	OR25.3X2.4		
-DA38S	38		38	M 52 X 2	91	60	55	60	OR33.3X2.4			

## High Pressure Banjo Elbow - WH-R

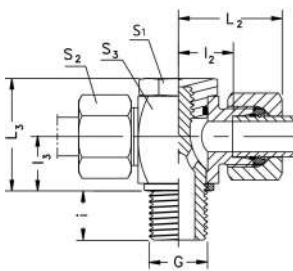
	WH-R Part NO.	Working Pressure (bar/psi)	Tube O.D.	G male BSPP	i	I2	I3	L2	L3	S1	S2	S3	
	WH06LR	L light 250 bar 3625 psi	6	G 1/8 A	8	12	10.5	27	24	17	14	17	
	WH08LR		8	G 1/4 A	12	14.5	14	29	30	19	17	22	
	WH10LR		10	G 1/4 A	12	15.5	14	30	30	19	19	22	
	WH12LR		12	G 3/8 A	12	18	16.5	33	36	24	22	27	
	WH15LR		15	G 1/2 A	14	21.5	21.5	37	45	30	27	32	
	WH18LR		18	G 1/2 A	14	21	21.5	37	45	30	32	32	
	WH22LR	160 bar 2320 psi	22	G 3/4 A	16	27.5	24	44	53	36	36	41	
	WH28LR		28	G 1A	18	32	30.5	49	66	46	41	50	
	WH35LR		35	G 1/4 A	20	36	35.5	58	76	55	50	60	
	WH42LR		42	G 1 1/2 A	22	40.5	40.5	63	87	60	60	70	
	WH06SR	S heavy 315 bar 4560 psi	6	G 1/4 A	12	16.5	14	31	30	19	17	22	
	WH08SR		8	G1/4 A	12	16.5	14	31	30	19	19	22	
	WH10SR		10	G 3/8 A	12	18.5	16.5	35	36	24	22	27	
	WH12SR		12	G 3/8 A	12	18.5	16.5	35	36	24	24	27	
	WH14SR		14	G 1/2 A	14	22.5	21.5	40	45	30	27	32	
	WH16SR		16	G 1/2 A	14	22	21.5	40	45	30	30	32	
	WH20SR		160 bar	20	G 3/4 A	16	26.5	24	48	53	36	36	41
	WH25SR		2320psi	25	G 1A	18	31.5	30.5	56	66	46	46	50
	WH30SR	30		G 1 1/4 A	20	37	34.5	64	76	55	50	60	
WH38SR	38	G 1 1/2 A		22	41.5	40.5	72	87	60	60	70		

## High Pressure Banjo Elbow - WH-M



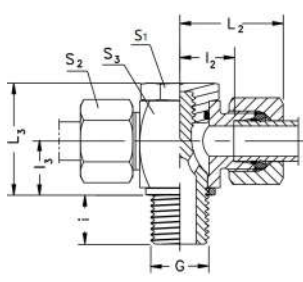
WH-M Part NO.	Working Pressure (bar/psi)	Tube O.D.	G Metric Tread	i	I2	I3	L2	L3	S1	S2	S3
WH06LM	L light 250 bar 3625 psi	6	M10x1	8	12	10.5	27	24	17	14	17
WH08LM		8	M12x1.5	12	14.5	14	29	30	19	17	22
WH10LM		10	M14x1.5	12	15.5	14	30	30	19	19	22
WH12LM		12	M16x1.5	12	18	16.5	33	36	24	22	27
WH15LM		15	M18x1.5	12	21.5	18.5	37	39.5	30	27	30
WH18LM		18	M22x1.5	14	21	21.5	37	45	30	32	32
WH22LM	160 bar 2320 psi	22	M26x1.5	16	27.5	24	44	53	36	36	41
WH28LM		28	M33x2	18	32	30.5	49	66	46	41	50
WH35LM		35	M42x2	20	36	35.5	58	76	55	50	60
WH42LM		42	M48x2	22	40.5	40.5	63	87	60	60	70
WH06SM	S heavy 315 bar 4560 psi	6	M12x1.5	12	16.5	14	31	30	19	17	22
WH08SM		8	M14x1.5	12	16.5	14	31	30	19	19	22
WH10SM		10	M16x1.5	12	18.5	16.5	35	36	24	22	27
WH12SM		12	M18x1.5	12	20	18.5	36	39.5	27	24	27
WH14SM		14	M20x1.5	14	22.5	20	40	43.5	30	27	32
WH16SM		16	M22x1.5	14	22	21.5	40	45	30	30	32
WH20SM	160 bar 2320 psi	20	M27x2	16	26.5	24	48	53	36	36	41
WH25SM		25	M33x2	18	31.5	30.5	56	66	46	46	50
WH30SM		30	M42x2	20	37	35.5	64	76	55	50	60
WH38SM		38	M48x2	22	41.5	40.5	72	87	60	60	70

## High Pressure Banjo Tee - TH-R



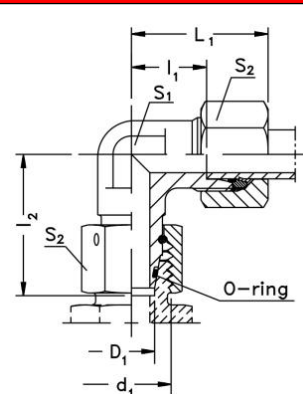
TH-R Part NO.	Working Pressure (bar/psi)	Tube O.D.	G male BSPP	i	I2	I3	L2	L3	S1	S2	S3
TH06LR	L light 250 bar 3625 psi	6	G 1/8A	8	12	10.5	27	24	17	14	17
TH08LR		8	G 1/4A	12	14.5	14	29	30	19	17	22
TH10LR		10	G 1/4A	12	15.5	14	30	30	19	19	22
TH12LR		12	G 3/8A	12	18	16.5	33	36	24	22	27
TH15LR		15	G 1/2A	14	21.5	21.5	37	45	30	27	32
TH18LR		18	G 1/2A	14	21	21.5	37	45	30	32	32
TH22LR	160 bar 2320 psi	22	G 3/4A	16	27.5	24	44	53	36	36	41
TH28LR		28	G 1A	18	32	30.5	49	66	46	41	50
TH35LR		35	G 1 1/4A	20	36	35.5	58	76	55	50	60
TH42LR		42	G 1 1/2A	22	40.5	40.5	63	87	60	60	70
TH06SR	S heavy 315 bar 4560 psi	6	G 1/4A	12	16.5	14	31	30	19	17	22
TH08SR		8	G 1/4A	12	16.5	14	31	30	19	19	22
TH10SR		10	G 3/8A	12	18.5	16.5	35	36	24	22	27
TH12SR		12	G 3/8A	12	18.5	16.5	35	36	24	24	27
TH14SR		14	G 1/2A	14	22.5	21.5	40	45	30	27	32
TH16SR		16	G 1/2A	14	22	21.5	40	45	30	30	32
TH20SR	160 bar 2320 psi	20	G 3/4A	16	26.5	24	48	53	36	36	41
TH25SR		25	G 1A	18	31.5	30.5	56	66	46	46	50
TH30SR		30	G 1 1/4A	20	37	35.5	64	76	55	50	60
TH38SR		38	G 1 1/2A	22	41.5	40.5	72	87	60	60	70

## High Pressure Banjo Tee - TH-M



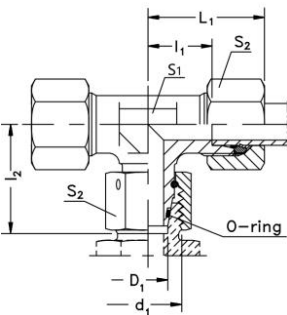
TH-M Part NO.	Working Pressure (bar/psi)	Tube O.D.	G Metric Tread	i	I2	I3	L2	L3	S1	S2	S3
TH06LM	L light 250 bar 3625 psi	6	M10x1	8	12	10.5	27	24	17	14	17
TH08LM		8	M12x1.5	12	14.5	14	29	30	19	17	22
TH10LM		10	M14x1.5	12	15.5	14	30	30	19	19	22
TH12LM		12	M16x1.5	12	18	16.5	33	36	24	22	27
TH15LM		15	M18x1.5	12	21.5	18.5	37	39.5	30	27	30
TH18LM		18	M22x1.5	14	21	21.5	37	45	30	32	32
TH22LM	160 bar 2320 psi	22	M26x1.5	16	27.5	24	44	53	36	36	41
TH28LM		28	M33x2	18	32	30.5	49	66	46	41	50
TH35LM		35	M42x2	20	36	35.5	58	76	55	50	60
TH42LM		42	M48x2	22	40.5	40.5	63	87	60	60	70
TH06SM	S heavy 315 bar 4560 psi	6	M12x1.5	12	16.5	14	31	30	19	17	22
TH08SM		8	M14x1.5	12	16.5	14	31	30	19	19	22
TH10SM		10	M16x1.5	12	18.5	16.5	35	36	24	22	27
TH12SM		12	M18x1.5	12	20	18.5	36	39.5	27	24	27
TH14SM		14	M20x1.5	14	22.5	20	40	43.5	30	27	32
TH16SM		16	M22x1.5	14	22	21.5	40	45	30	30	32
TH20SM	160 bar 2320 psi	20	M27x2	16	26.5	24	48	53	36	36	41
TH25SM		25	M33x2	18	31.5	30.5	56	66	46	46	50
TH30SM		30	M42x2	20	37	35.5	64	76	55	50	60
TH38SM		38	M48x2	22	41.5	40.5	72	87	60	60	70

## Swivel Nut Elbow Fitting - EW

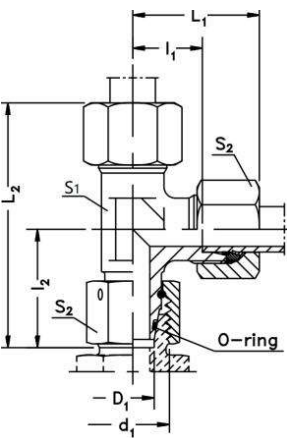


EW Part No.	Working Pressure (bar/psi)	Tube o.d.	d1 thread	I1	I2	L1	S1	S2	O-ring
EW06L	L Light 250 bar 4560 psi	6	M12 x1.5	12	26	27	12	14	OR4.5 x1.5
EW08L		8	M14x1.5	14	27.5	29	12	17	OR6.5 x1.5
EW10L		10	M16x1.5	15	29	30	14	19	OR8x1.5
EW12L		12	M18x1.5	17	29.5	32	17	22	OR10x1.5
EW15L		15	M22x1.5	21	32.5	36	19	27	OR12x2
EW18L		18	M26x1.5	23.5	35.5	40	24	32	OR15x2
EW22L	160 bar 2320psi	22	M30 x2	27.5	38.5	44	27	36	OR20x2
EW28L		28	M36 x2	30.5	41.5	47	36	41	OR26x2
EW35L		35	M45 x2	34.5	51	56	41	50	OR32x2.5
EW42L		42	M52 x2	40	56	63	50	60	OR38x2.5
EW06S	S Heavy 630bar 9130psi	6	M14x1.5	16	27	31	12	17	OR4.5x1.5
EW08S		8	M16x1.5	17	27.5	32	14	19	OR6.5x1.5
EW10S		10	M18x1.5	17.5	30	34	17	22	OR8x1.5
EW12S		12	M20x1.5	21.5	31	38	17	24	OR10x1.5
EW14S		14	M22x1.5	22	35	40	19	27	OR11x2
EW16S		400 bar 5800 psi	16	M24 x1.5	24.5	36.5	43	24	30
EW20S	20		M30 x2	26.5	44.5	48	27	36	OR16.3x2.4
EW25S	25		M36 x2	30	50	54	36	46	OR20.3x2.4
EW30S	30		M42 x2	35.5	55	62	41	50	OR25.3x2.4
EW38S	315 bar 4560 psi	38	M52 x2	41	63	72	50	60	OR33.3x2.4

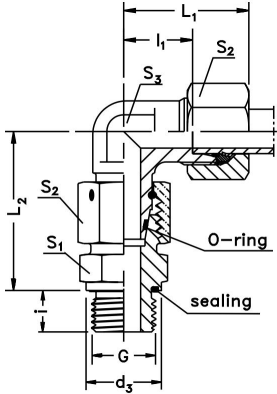
## Swivel Nut Branch Tee Fitting - ET

	ET Part No.	Working Pressure (bar/psi)	Tube o.d.	d1 thread	l1	l2	L1	S1	S2	O-ring
	ET06L	<b>L</b> Light 250 bar 4560 psi	6	M12 x1.5	12	26	27	12	14	OR4.5 x1.5
	ET08L		8	M14x1.5	14	27.5	29	12	17	OR6.5 x1.5
	ET10L		10	M16x1.5	15	29	30	14	19	OR8x1.5
	ET12L		12	M18x1.5	17	29.5	32	17	22	OR10x1.5
	ET15L		15	M22x1.5	21	32.5	36	19	27	OR12x2
	ET18L		18	M26x1.5	23.5	35.5	40	24	32	OR15x2
	ET22L	160 bar 2320psi	22	M30 x2	27.5	38.5	44	27	36	OR20x2
	ET28L		28	M36 x2	30.5	41.5	47	36	41	OR26x2
	ET35L		35	M45 x2	34.5	51	56	41	50	OR32x2.5
	ET42L		42	M52 x2	40	56	63	50	60	OR38x2.5
	ET06S	<b>S</b> Heavy 630bar 9130psi	6	M14x1.5	16	27	31	12	17	OR4.5x1.5
	ET08S		8	M16x1.5	17	27.5	32	14	19	OR6.5x1.5
	ET10S		10	M18x1.5	17.5	30	34	17	22	OR8x1.5
	ET12S		12	M20x1.5	21.5	31	38	17	24	OR10x1.5
	ET14S		14	M22x1.5	22	35	40	19	27	OR11x2
	ET16S		16	M24 x1.5	24.5	36.5	43	24	30	OR13x2
	ET20S	400 bar 5800 psi	20	M30 x2	26.5	44.5	48	27	36	OR16.3x2.4
	ET25S		25	M36 x2	30	50	54	36	46	OR20.3x2.4
	ET30S		30	M42 x2	35.5	55	62	41	50	OR25.3x2.4
	ET38S	315 bar 4560 psi	38	M52 x2	41	63	72	50	60	OR33.3x2.4

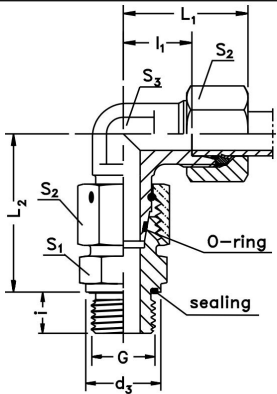
## Swivel Nut Run Tee Fitting - EL

	EL Part No.	Working Pressure (bar/psi)	Tube o.d.	d1 thread	l1	l2	L1	S1	S2	O-ring
	EL06L	<b>L</b> Light 250 bar 4560 psi	6	M12 x1.5	12	26	27	53	14	OR4.5 x1.5
	EL08L		8	M14x1.5	14	27.5	29	56	17	OR6.5 x1.5
	EL10L		10	M16x1.5	15	29	30	59	19	OR8x1.5
	EL12L		12	M18x1.5	17	29.5	32	61	22	OR10x1.5
	EL15L		15	M22x1.5	21	32.5	36	69	27	OR12x2
	EL18L		18	M26x1.5	23.5	35.5	40	75	32	OR15x2
	EL22L	160 bar 2320psi	22	M30 x2	27.5	38.5	44	82	36	OR20x2
	EL28L		28	M36 x2	30.5	41.5	47	89	41	OR26x2
	EL35L		35	M45 x2	34.5	51	56	107	50	OR32x2.5
	EL42L		42	M52 x2	40	56	63	119	60	OR38x2.5
	EL06S	<b>S</b> Heavy 630bar 9130psi	6	M14x1.5	16	27	31	58	17	OR4.5x1.5
	EL08S		8	M16x1.5	17	27.5	32	59	19	OR6.5x1.5
	EL10S		10	M18x1.5	17.5	30	34	64	22	OR8x1.5
	EL12S		12	M20x1.5	21.5	31	38	69	24	OR10x1.5
	EL14S		14	M22x1.5	22	35	40	75	27	OR11x2
	EL16S		16	M24 x1.5	24.5	36.5	43	79	30	OR13x2
	EL20S	400 bar 5800 psi	20	M30 x2	26.5	44.5	48	93	36	OR16.3x2.4
	EL25S		25	M36 x2	30	50	54	104	46	OR20.3x2.4
	EL30S		30	M42 x2	35.5	55	62	117	50	OR25.3x2.4
	EL38S	315 bar 4560 psi	38	M52 x2	41	63	72	135	60	OR33.3x2.4

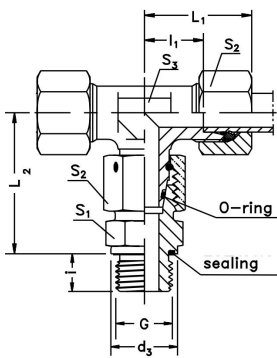
## Assembled Adjustable Swivel Elbow - EW-R-ED

Assembled Adjustable Swivel Elbow - EW-R-ED												
	EW-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male BSPP	d3	i	l1	L1	L2	S1	S2	S3
		EW06LRED	L Light 315 bar 4560 psi	6	G 1/8A	14	8	12	27	34.5	14	14
EW08LRED		8		G 1/4A	19	12	14	29	37.5	19	17	12
EW10LRED		10		G 1/4A	19	12	15	30	40	19	19	14
EW12LRED		12		G 3/8A	22	12	17	32	42	22	22	17
EW15LRED		15		G 1/2A	27	12	21	36	46.5	27	27	19
EW18LRED		18		G 1/2A	27	14	23.5	40	50	27	32	24
EW22LRED		22		G 3/4A	32	16	27.5	44	55	32	36	27
EW28LRED		28	G 1A	40	18	30.5	47	59	41	41	36	
EW35LRED		35	G 1 1/4A	50	20	34.5	56	68.5	50	50	41	
EW42LRED		42	G 1 1/2A	55	22	40	63	75	55	60	50	
EW06SRED		S Heavy 630 bar 9130 psi	6	G 1/4A	19	12	16	31	40	19	17	12
EW08SRED			8	G 1/4A	19	12	17	32	42.5	19	19	14
EW10SRED			10	G 3/8A	22	12	17.5	34	45	22	22	17
EW12SRED			12	G 3/8A	22	12	21.5	38	48	22	24	17
EW14SRED			14	G 1/2A	27	14	22	40	54	27	27	19
EW16SRED			16	G 1/2A	27	14	24.5	43	55	27	30	24
EW20SRED			20	G 3/4A	32	16	26.5	48	65	32	36	27
EW25SRED		25	G 1A	40	18	30	54	73	41	46	36	
EW30SRED		30	G 1 1/4A	50	20	35.5	62	78.5	50	50	41	
EW38SRED		38	G 1 1/2A	55	22	41	72	89	55	60	50	

## Assembled Adjustable Swivel Elbow - EW-M-ED

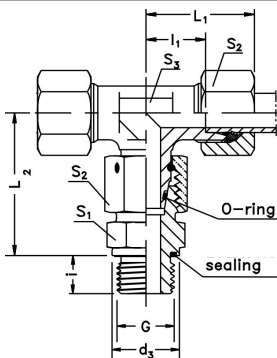
Assembled Adjustable Swivel Elbow - EW-M-ED												
	EW-M Part NO	Working Pressure (bar/psi)	Tube O.d	G male thread	d3	i	l1	L1	L2	S1	S2	S3
		EW06LMED	L Light 315 bar 4560 psi	6	M10 x1	14	8	12	27	34.5	14	14
EW08LMED		8		M12x1.5	19	12	14	29	37.5	19	17	12
EW10LMED		10		M14x1.5	19	12	15	30	40	19	19	14
EW12LMED		12		M16x1.5	22	12	17	32	42	22	22	17
EW15LMED		15		M18x1.5	27	12	21	36	46.5	27	27	19
EW18LMED		18		M22x1.5	27	14	23.5	40	50	27	32	24
EW22LMED		22		M26x1.5	32	16	27.5	44	55	32	36	27
EW28LMED		28	M33x2	40	18	30.5	47	59	41	41	36	
EW35LMED		35	M42x2	50	20	34.5	56	68.5	50	50	41	
EW42LMED		42	M48x2	55	22	40	63	75	55	60	50	
EW06SMED		S Heavy 630 bar 9130 psi	6	M12x1.5	19	12	16	31	40	19	17	12
EW08SMED			8	M14x1.5	19	12	17	32	42.5	19	19	14
EW10SMED			10	M16x1.5	22	12	17.5	34	45	22	22	17
EW12SMED			12	M18x1.5	22	12	21.5	38	48	22	24	17
EW14SMED			14	M20x1.5	27	14	22	40	54	27	27	19
EW16SMED			16	M22x1.5	27	14	24.5	43	55	27	30	24
EW20SMED			20	M27 x2	32	16	26.5	48	65	32	36	27
EW25SMED		25	M33x2	40	18	30	54	73	41	46	36	
EW30SMED		30	M42x2	50	20	35.5	62	78.5	50	50	41	
EW38SMED		38	M48x2	55	22	41	72	89	55	60	50	

## Assembled Adjustable Swivel Branch Tee - ET-R-ED



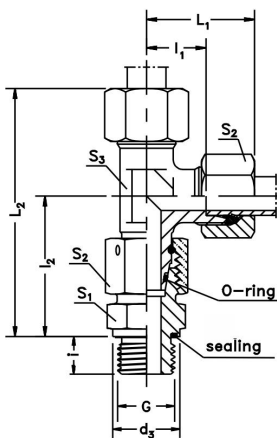
ET-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male BSPP	d3	i	l1	L1	L2	S1	S2	S3
ET06LRED	L Light 315 bar 4560 psi	6	G 1/8A	14	8	12	27	34.5	14	14	12
ET08LRED		8	G 1/4A	19	12	14	29	37.5	19	17	12
ET10LRED		10	G 1/4A	19	12	15	30	40	19	19	14
ET12LRED		12	G 3/8A	22	12	17	32	42	22	22	17
ET15LRED		15	G 1/2A	27	12	21	36	46.5	27	27	19
ET18LRED		18	G 1/2A	27	14	23.5	40	50	27	32	24
ET22LRED	160 bar 2320psi	22	G 3/4A	32	16	27.5	44	55	32	36	27
ET28LRED		28	G 1A	40	18	30.5	47	59	41	41	36
ET35LRED		35	G 1 1/4A	50	20	34.5	56	68.5	50	50	41
ET42LRED		42	G 1 1/2A	55	22	40	63	75	55	60	50
ET06SRED	S Heavy 630 bar 9130 psi	6	G 1/4A	19	12	16	31	40	19	17	12
ET08SRED		8	G 1/4A	19	12	17	32	42.5	19	19	14
ET10SRED		10	G 3/8A	22	12	17.5	34	45	22	22	17
ET12SRED		12	G 3/8A	22	12	21.5	38	48	22	24	17
ET14SRED		14	G 1/2A	27	14	22	40	54	27	27	19
ET16SRED		16	G 1/2A	27	14	24.5	43	55	27	30	24
ET20SRED	400 bar 5800 psi	20	G 3/4A	32	16	26.5	48	65	32	36	27
ET25SRED		25	G 1A	40	18	30	54	73	41	46	36
ET30SRED		30	G 1 1/4A	50	20	35.5	62	78.5	50	50	41
ET38SRED	315 bar 4560 psi	38	G 1 1/2A	55	22	41	72	89	55	60	50

## Assembled Adjustable Swivel Branch Tee - ET-M-ED



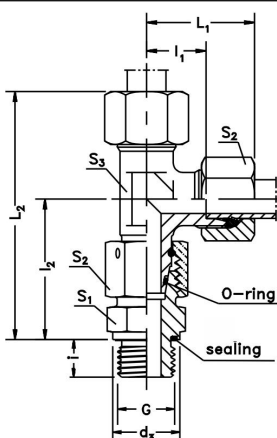
ET-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male thread	d3	i	l1	L1	L2	S1	S2	S3
ET06LMED	L Light 315 bar 4560 psi	6	M10 x1	14	8	12	27	34.5	14	14	12
ET08LMED		8	M12x1.5	19	12	14	29	37.5	19	17	12
ET10LMED		10	M14x1.5	19	12	15	30	40	19	19	14
ET12LMED		12	M16x1.5	22	12	17	32	42	22	22	17
ET15LMED		15	M18x1.5	27	12	21	36	46.5	27	27	19
ET18LMED		18	M22x1.5	27	14	23.5	40	50	27	32	24
ET22LMED	160 bar 2320psi	22	M26x1.5	32	16	27.5	44	55	32	36	27
ET28LMED		28	M33x2	40	18	30.5	47	59	41	41	36
ET35LMED		35	M42x2	50	20	34.5	56	68.5	50	50	41
ET42LMED		42	M48x2	55	22	40	63	75	55	60	50
ET06SMED	S Heavy 630 bar 9130 psi	6	M12x1.5	19	12	16	31	40	19	17	12
ET08SMED		8	M14x1.5	19	12	17	32	42.5	19	19	14
ET10SMED		10	M16x1.5	22	12	17.5	34	45	22	22	17
ET12SMED		12	M18x1.5	22	12	21.5	38	48	22	24	17
ET14SMED		14	M20x1.5	27	14	22	40	54	27	27	19
ET16SMED		16	M22x1.5	27	14	24.5	43	55	27	30	24
ET20SMED	400 bar 5800 psi	20	M27 x2	32	16	26.5	48	65	32	36	27
ET25SMED		25	M33x2	40	18	30	54	73	41	46	36
ET30SMED		30	M42x2	50	20	35.5	62	78.5	50	50	41
ET38SMED	315 bar 4560 psi	38	M48x2	55	22	41	72	89	55	60	50

## Assembled Adjustable Swivel Run Tee - EL-R-ED



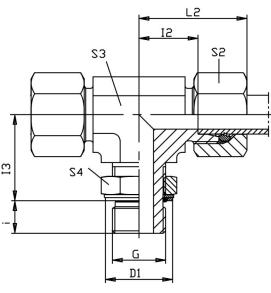
EL-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male BSPP	d3	i	l1	L1	L2	S1	S2	S3
EL06LRED	L Light 315 bar 4560 psi	6	G 1/8A	8	12	34.5	27	34.5	14	14	12
EL08LRED		8	G 1/4A	12	14	37.5	29	37.5	19	17	12
EL10LRED		10	G 1/4A	12	15	40	30	40	19	19	14
EL12LRED		12	G 3/8A	12	17	42	32	42	22	22	17
EL15LRED		15	G 1/2A	14	21	46.5	36	46.5	27	27	19
EL18LRED		18	G 1/2A	14	23.5	50	40	50	27	32	24
EL22LRED	160 bar 2320psi	22	G 3/4A	16	27.5	55	44	55	32	36	27
EL28LRED		28	G 1A	18	30.5	59	47	59	41	41	36
EL35LRED		35	G 1 1/4A	20	34.5	68.5	56	68.5	50	50	41
EL42LRED		42	G 1 1/2A	22	40	75	63	75	55	60	50
EL06SRED	S Heavy 630 bar 9130 psi	6	G 1/4A	12	16	40	31	40	19	17	12
EL08SRED		8	G 1/4A	12	17	42.5	32	42.5	19	19	14
EL10SRED		10	G 3/8A	12	17.5	45	34	45	22	22	17
EL12SRED		12	G 3/8A	12	21.5	48	38	48	22	24	17
EL14SRED		14	G 1/2A	14	22	54	40	54	27	27	19
EL16SRED		16	G 1/2A	14	24.5	55	43	55	27	30	24
EL20SRED	400 bar 5800 psi	20	G 3/4A	16	26.5	65	48	65	32	36	27
EL25SRED		25	G 1A	18	30	73	54	73	41	46	36
EL30SRED		30	G 1 1/4A	20	35.5	78.5	62	78.5	50	50	41
EL38SRED	315 bar 4560 psi	38	G 1 1/2A	22	41	89	72	89	55	60	50

## Assembled Adjustable Swivel Run Tee - EL-M-ED



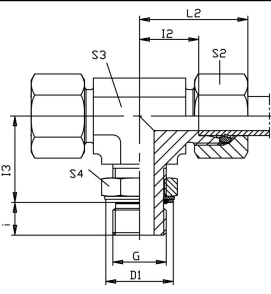
EL-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male thread	d3	i	l1	L1	L2	S1	S2	S3
EL06LMED	L Light 315 bar 4560 psi	6	M10 x1	14	8	12	27	34.5	14	14	12
EL08LMED		8	M12 x1.5	19	12	14	29	37.5	19	17	12
EL10LMED		10	M14x1.5	19	12	15	30	40	19	19	14
EL12LMED		12	M16x1.5	22	12	17	32	42	22	22	17
EL15LMED		15	M18x1.5	27	12	21	36	46.5	27	27	19
EL18LMED		18	M22x1.5	27	14	23.5	40	50	27	32	24
EL22LMED	160 bar 2320psi	22	M26x1.5	32	16	27.5	44	55	32	36	27
EL28LMED		28	M33x2	40	18	30.5	47	59	41	41	36
EL35LMED		35	M42x2	50	20	34.5	56	68.5	50	50	41
EL42LMED		42	M48x2	55	22	40	63	75	55	60	50
EL06SMED	S Heavy 630 bar 9130 psi	6	M12 x1.5	19	12	16	31	40	19	17	12
EL08SMED		8	M14x1.5	19	12	17	32	42.5	19	19	14
EL10SMED		10	M16x1.5	22	12	17.5	34	45	22	22	17
EL12SMED		12	M18x1.5	22	12	21.5	38	48	22	24	17
EL14SMED		14	M20x1.5	27	14	22	40	54	27	27	19
EL16SMED		16	M22x1.5	27	14	24.5	43	55	27	30	24
EL20SMED	400 bar 5800 psi	20	M27 x2	32	16	26.5	48	65	32	36	27
EL25SMED		25	M33x2	40	18	30	54	73	41	46	36
EL30SMED		30	M42x2	50	20	35.5	62	78.5	50	50	41
EL38SMED	315 bar 4560 psi	38	M48x2	55	22	41	72	89	55	60	50

## Adjustable Lock Nut Branch Tee - TEE-M



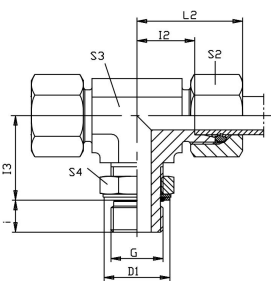
TEE-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male thread	L2	I2	I3	i	D1	S2	S3	S4
TEE06LM	L light 315 bar 4560psi	6	M10x1	29	14	20	7	15	14	14	14
TEE08LM		8	M12x1.5	31	16	22	10	18	17	14	17
TEE10LM		10	M14x1.5	32	17	25	9	20	19	19	19
TEE12LM		12	M16x1.5	34	19	26	9	23	22	19	22
TEE15LM		15	M18x1.5	36	21	30	11	25	27	22	24
TEE18LM	250bar 3625psi	18	M22x1.5	40	24	33	11	28	32	27	27
TEE22LM	160 bar 2320psi	22	M27x2	44	28	35	14	33	36	30	32
TEE28LM		28	M33x2	47	31	38	14	41	41	36	41
TEE35LM		35	M42x2	59	38	48	14	51	50	50	50
TEE42LM		42	M48x2	61	38	49	16	56	60	50	55
TEE06SM		S heavy 315 bar 4650psi	6	M12x1.5	30	15	22	10	18	17	14
TEE08SM	8		M14x1.5	32	17	26	10	20	19	19	19
TEE10SM	10		M16x1.5	34	18	27	11	23	22	19	22
TEE12SM	12		M18x1.5	38	22	31	12	25	24	22	24
TEE16SM	250bar 3625psi		16	M22x1.5	43	25	35	14	28	30	27
TEE20SM	160 bar 2320 psi	20	M27x2	49	28	39	16	33	36	30	32
TEE25SM		25	M33x2	54	30	44	16	41	46	36	41
TEE30SM		30	M42x2	62	36	51	17	51	50	50	50
TEE38SM		38	M48x2	65	34	54	19	56	60	50	55

## Adjustable Lock Nut Branch Tee - TEE-R



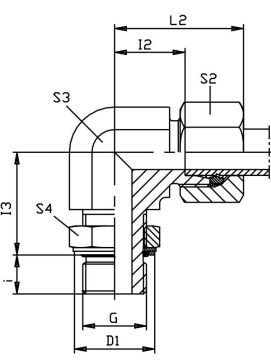
Part NO.	Working Pressure (bar/psi)	Tube O.d	G male BSPP	L2	I2	I3	i	D1	S2	S3	S4
TEE06LR	L light 315 bar 4560psi	6	G 1/8A	29	14	20	7	15	14	14	14
TEE08LR		8	G 1/4A	31	16	22	10	18	17	14	17
TEE10LR		10	G 1/4A	32	17	25	9	20	19	19	19
TEE12LR		12	G 3/8A	34	19	26	9	23	22	19	22
TEE15LR		15	G 1/2A	36	21	30	11	25	27	22	24
TEE18LR	250bar 3625psi	18	G 1/2A	40	24	33	11	28	32	27	27
TEE22LR	160 bar 2320psi	22	G 3/4A	44	28	35	14	33	36	30	32
TEE28LR		28	G1A	47	31	38	14	41	41	36	41
TEE35LR		35	G1 1/4A	59	38	48	14	51	50	50	50
TEE42LR		42	G1 1/2A	61	38	49	16	56	60	50	55
TEE06SR		S heavy 315 bar 4650psi	6	G 1/4A	30	15	22	10	18	17	14
TEE08SR	8		G 1/4A	32	17	26	10	20	19	19	19
TEE10SR	10		G 3/8A	34	18	27	11	23	22	19	22
TEE12SR	12		G 3/8A	38	22	31	12	25	24	22	24
TEE16SR	250bar 3625psi		16	G 1/2A	43	25	35	14	28	30	27
TEE20SR	160 bar 2320 psi	20	G 3/4A	49	28	39	16	33	36	30	32
TEE25SR		25	G 1A	54	30	44	16	41	46	36	41
TEE30SR		30	G1 1/4A	62	36	51	17	51	50	50	50
TEE38SR		38	G1 1/2A	65	34	54	19	56	60	50	55

## Adjustable Lock Nut Branch Tee - TEE-UNF



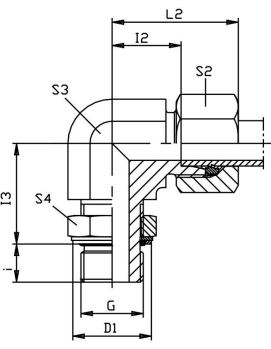
TEE-UNF Part NO.	Working Pressure (bar/psi)	Tube O.d	G male UNF	L2	I2	I3	i	D1	S2	S3	S4
TEE06L7/16UNF	L light 315 bar 4560psi	6	7/16-20	29	14	19	10	17	14	14	14
TEE08L7/16UNF		8	7/16-20	31	16	19	10	18	17	14	14
TEE10L9/16UNF		10	9/16-18	32	17	24	10	20	19	19	17
TEE12L9/16UNF		12	9/16-18	34	19	25	11	26	22	19	17
TEE12L3/4UNF		12	3/4-16	34	19	25	13	26	22	19	22
TEE15L3/4UNF		15	3/4-16	36	21	28	13	29	27	22	22
TEE15L7/8UNF		15	7/8-14	36	21	28	15	29	27	22	27
TEE18L7/8UNF		18	7/8-14	40	24	32	15	29	32	27	27
TEE18L11/16UN		18	1 1/16-12	40	24	32	17	29	32	30	32
TEE22L11/16UN		22	1 1/16-12	44	28	35	17	37	36	30	32
TEE28L15/16UN	28	1 5/16-12	47	31	42	17	44	41	36	41	
TEE35L15/8UN	35	1 5/8-12	59	38	46	17	55	50	50	50	
TEE42L17/8UN	42	1 7/8-12	61	38	47	17	55	60	50	55	
TEE06S7/16UNF	S heavy 400 bar 5800psi	6	7/16-20	30	15	20	12	17	17	14	14
TEE08S9/16UNF		8	9/16-18	32	17	25	12	18	19	19	17
TEE10S9/16UNF		10	9/16-18	34	18	26	12	20	22	19	17
TEE12S3/4UNF		12	3/4-16	38	22	30	14	26	24	22	22
TEE16S7/8UNF		16	7/8-14	43	25	34	16	29	30	27	27
TEE20S11/16UN		20	1 1/16-12	49	28	37	19	37	36	30	32
TEE25S11/16UN		25	1 1/16-12	54	30	50	19	44	46	36	32
TEE30S15/8UN		30	1 5/8-12	62	36	50	19	55	50	50	50
TEE38S17/8UN	38	1 7/8-12	65	34	51	19	55	60	50	55	

## Adjustable Lock Nut Elbow - WEE-M



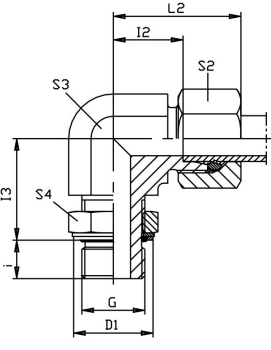
WEE-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male thread	L2	I2	I3	i	D1	S2	S3	S4
WEE06LM	L light 315 bar 4560psi	6	M10x1	29	14	20	7	15	14	14	14
WEE08LM		8	M12x1.5	31	16	22	10	18	17	14	17
WEE10LM		10	M14x1.5	32	17	25	9	20	19	19	19
WEE12LM		12	M16x1.5	34	19	26	9	23	22	19	22
WEE15LM		15	M18x1.5	36	21	30	11	25	27	22	24
WEE18LM	18	M22x1.5	40	24	33	11	28	32	27	27	
WEE22LM	22	M27x2	44	28	35	14	33	36	30	32	
WEE28LM	28	M33x2	47	31	38	14	41	41	36	41	
WEE35LM	35	M42x2	59	38	48	14	51	50	50	50	
WEE42LM	42	M48x2	61	38	49	16	56	60	50	55	
WEE06SM	S heavy 315 bar 4650psi	6	M12x1.5	30	15	22	10	18	17	14	17
WEE08SM		8	M14x1.5	32	17	26	10	20	19	19	19
WEE10SM		10	M16x1.5	34	18	27	11	23	22	19	22
WEE12SM		12	M18x1.5	38	22	31	12	25	24	22	24
WEE16SM		16	M22x1.5	43	25	35	14	28	30	27	27
WEE20SM		20	M27x2	49	28	39	16	33	36	30	32
WEE25SM		25	M33x2	54	30	44	16	41	46	36	41
WEE30SM		30	M42x2	62	36	51	17	51	50	50	50
WEE38SM	38	M48x2	65	34	54	19	56	60	50	55	

## Adjustable Lock Nut Elbow - WEE-R



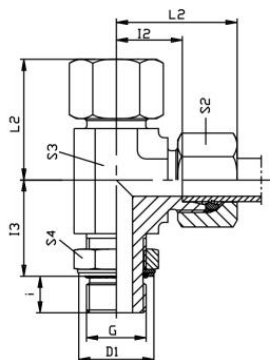
WEE-R Part NO.	Working Pressure (bar/psi)	Tube O.d	G male BSSP	L2	I2	I3	i	D1	S2	S3	S4
WEE06LR	<b>L light</b> 315 bar 4560psi	6	G 1/8A	29	14	20	7	15	14	14	14
WEE08LR		8	G 1/4A	31	16	22	10	18	17	14	17
WEE10LR		10	G 1/4A	32	17	25	9	20	19	19	19
WEE12LR		12	G 3/8A	34	19	26	9	23	22	19	22
WEE15LR		15	G 1/2A	36	21	30	11	25	27	22	24
WEE18LR	250bar 3625psi	18	G 1/2A	40	24	33	11	28	32	27	27
WEE22LR	<b>L light</b> 160 bar 2320psi	22	G 3/4A	44	28	35	14	33	36	30	32
WEE28LR		28	G1A	47	31	38	14	41	41	36	41
WEE35LR		35	G1 1/4A	59	38	48	14	51	50	50	50
WEE42LR		42	G1 1/2 A	61	38	49	16	56	60	50	55
WEE06SR	<b>S heavy</b> 315 bar 4650psi	6	G 1/4A	30	15	22	10	18	17	14	17
WEE08SR		8	G 1/4A	32	17	26	10	20	19	19	19
WEE10SR		10	G 3/8A	34	18	27	11	23	22	19	22
WEE12SR		12	G 3/8A	38	22	31	12	25	24	22	24
WEE16SR	250bar	16	G 1/2A	43	25	35	14	28	30	27	27
WEE20SR	3625psi	20	G 3/4A	49	28	39	16	33	36	30	32
WEE25SR	160 bar	25	G 1A	54	30	44	16	41	46	36	41
WEE30SR	2320 psi	30	G 1 1/4A	62	36	51	17	51	50	50	50
WEE38SR		38	G1 1/2A	65	34	54	19	56	60	50	55

## Adjustable Lock Nut Elbow - WEE-UNF

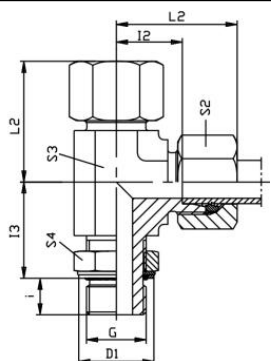


WEE-UNF Part	Working Pressure (bar/psi)	Tube O.d	G male UNF	L2	I2	I3	i	D1	S2	S3	S4
WEE06L7/16UNF	<b>L light</b> 315 bar 4560psi	6	7/16-20	29	14	19	10	17	14	14	14
WEE08L7/16UNF		8	7/16-20	31	16	19	10	18	17	14	14
WEE10L9/16UNF		10	9/16-18	32	17	24	10	20	19	19	17
WEE12L9/16UNF		12	9/16-18	34	19	25	11	26	22	19	17
WEE12L3/4UNF		12	3/4-16	34	19	25	13	26	22	19	22
WEE15L3/4UNF		15	3/4-16	36	21	28	13	29	27	22	22
WEE15L7/8UNF		15	7/8-14	36	21	28	15	29	27	22	27
WEE18L7/8UNF		18	7/8-14	40	24	32	15	29	32	27	27
WEE18L11/16UN		18	1 1/16-12	40	24	32	17	29	32	30	32
WEE22L11/16UN	<b>L light</b> 160 bar 2320psi	22	1 1/16-12	44	28	35	17	37	36	30	32
WEE28L15/16UN		28	1 5/16-12	47	31	42	17	44	41	36	41
WEE35L15/8UN		35	1 5/8-12	59	38	46	17	55	50	50	50
WEE42L17/8UN		42	1 7/8-12	61	38	47	17	55	60	50	55
WEE06S7/16UNF	<b>S heavy</b> 400 bar 5800psi	6	7/16-20	30	15	20	12	17	17	14	14
WEE08S9/16UNF		8	9/16-18	32	17	25	12	18	19	19	17
WEE10S9/16UNF		10	9/16-18	34	18	26	12	20	22	19	17
WEE12S3/4UNF		12	3/4-16	38	22	30	14	26	24	22	22
WEE16S7/8UNF		16	7/8-14	43	25	34	16	29	30	27	27
WEE20S11/16UN		20	1 1/16-12	49	28	37	19	37	36	30	32
WEE25S11/16UN		25	1 1/16-12	54	30	50	19	44	46	36	32
WEE30S15/8UN	250bar	30	1 5/8-12	62	36	50	19	55	50	50	50
WEE38S17/8UN	3625psi	38	1 7/8-12	65	34	51	19	55	60	50	55

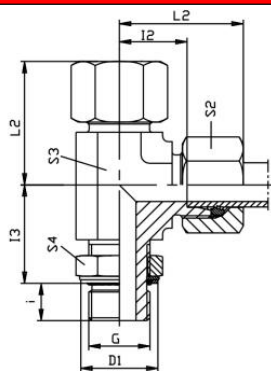
## Adjustable Lock Nut Run Tee - LEE-M

Adjustable Lock Nut Run Tee - LEE-M												
	LEE-M Part NO.	Working Pressure (bar/psi)	Tube O.d	G male thread	L2	I2	I3	i	D1	S2	S3	S4
	LEE06LM	<b>L</b> light 315 bar 4560psi	6	M10x1	29	14	20	7	15	14	14	14
	LEE08LM		8	M12x1.5	31	16	22	10	18	17	14	17
	LEE10LM		10	M14x1.5	32	17	25	9	20	19	19	19
	LEE12LM		12	M16x1.5	34	19	26	9	23	22	19	22
	LEE15LM		15	M18x1.5	36	21	30	11	25	27	22	24
	LEE18LM	250bar 3625psi	18	M22x1.5	40	24	33	11	28	32	27	27
	LEE22LM	160 bar 2320psi	22	M27x2	44	28	35	14	33	36	30	32
	LEE28LM		28	M33x2	47	31	38	14	41	41	36	41
	LEE35LM		35	M42x2	59	38	48	14	51	50	50	50
	LEE42LM		42	M48x2	61	38	49	16	56	60	50	55
	LEE06SM	<b>S</b> heavy 315 bar 4650psi	6	M12x1.5	30	15	22	10	18	17	14	17
	LEE08SM		8	M14x1.5	32	17	26	10	20	19	19	19
LEE10SM	10		M16x1.5	34	18	27	11	23	22	19	22	
LEE12SM	12		M18x1.5	38	22	31	12	25	24	22	24	
LEE16SM	250bar	16	M22x1.5	43	25	35	14	28	30	27	27	
LEE20SM	3625psi	20	M27x2	49	28	39	16	33	36	30	32	
LEE25SM	160 bar	25	M33x2	54	30	44	16	41	46	36	41	
LEE30SM	2320 psi	30	M42x2	62	36	51	17	51	50	50	50	
LEE38SM		38	M48x2	65	34	54	19	56	60	50	55	

## Adjustable Lock Nut Run Tee - LEE-R

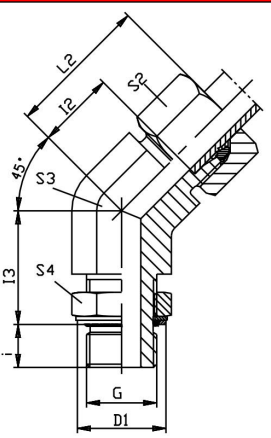
Adjustable Lock Nut Run Tee - LEE-R												
		Working Pressure (bar/psi)	Tube O.d	G male BSP	L2	I2	I3	i	D1	S2	S3	S4
	LEE06LR	<b>L</b> light 315 bar 4560psi	6	G 1/8A	29	14	20	7	15	14	14	14
	LEE08LR		8	G 1/4A	31	16	22	10	18	17	14	17
	LEE10LR		10	G 1/4A	32	17	25	9	20	19	19	19
	LEE12LR		12	G 3/8A	34	19	26	9	23	22	19	22
	LEE15LR		15	G 1/2A	36	21	30	11	25	27	22	24
	LEE18LR	250bar 3625psi	18	G 1/2A	40	24	33	11	28	32	27	27
	LEE22LR	160 bar 2320psi	22	G 3/4A	44	28	35	14	33	36	30	32
	LEE28LR		28	G1A	47	31	38	14	41	41	36	41
	LEE35LR		35	G1 1/4 A	59	38	48	14	51	50	50	50
	LEE42LR		42	G1 1/2 A	61	38	49	16	56	60	50	55
	LEE06SR	<b>S</b> heavy 315 bar 4650psi	6	G 1/4A	30	15	22	10	18	17	14	17
	LEE08SR		8	G 1/4A	32	17	26	10	20	19	19	19
LEE10SR	10		G 3/8A	34	18	27	11	23	22	19	22	
LEE12SR	12		G 3/8A	38	22	31	12	25	24	22	24	
LEE16SR	250bar	16	G 1/2A	43	25	35	14	28	30	27	27	
LEE20SR	3625psi	20	G 3/4A	49	28	39	16	33	36	30	32	
LEE25SR	160 bar	25	G 1A	54	30	44	16	41	46	36	41	
LEE30SR	2320 psi	30	G 1 1/4A	62	36	51	17	51	50	50	50	
LEE38SR		38	G1 1/2A	65	34	54	19	56	60	50	55	

## Adjustable Lock Nut Run Tee - LEE-UNF



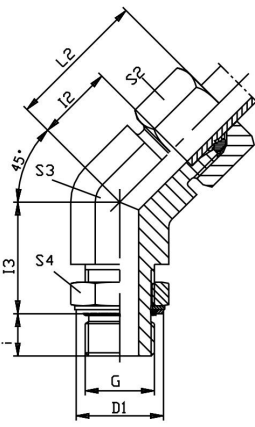
LEE-UNF Part NO.	Working Pressure (bar/psi)	Tube O.d	G male UNF	L2	I2	I3	i	D1	S2	S3	S4
LEE06L7/16UNF	<b>L light</b> 315 bar 4560psi	6	7/16-20	29	14	19	10	17	14	14	14
LEE08L7/16UNF		8	7/16-20	31	16	19	10	18	17	14	14
LEE10L9/16UNF		10	9/16-18	32	17	24	10	20	19	19	17
LEE12L9/16UNF		12	9/16-18	34	19	25	11	26	22	19	17
LEE12L3/4UNF		12	3/4-16	34	19	25	13	26	22	19	22
LEE15L3/4UNF		15	3/4-16	36	21	28	13	29	27	22	22
LEE15L7/8UNF		15	7/8-14	36	21	28	15	29	27	22	27
LEE18L7/8UNF		18	7/8-14	40	24	32	15	29	32	27	27
LEE18L11/16UN		18	1 1/16-12	40	24	32	17	29	32	30	32
LEE22L11/16UN	<b>160 bar</b> 2320psi	22	1 1/16-12	44	28	35	17	37	36	30	32
LEE28L15/16UN		28	1 5/16-12	47	31	42	17	44	41	36	41
LEE35L15/8UN		35	1 5/8-12	59	38	46	17	55	50	50	50
LEE42L17/8UN		42	1 7/8-12	61	38	47	17	55	60	50	55
LEE06S7/16UNF	<b>S heavy</b> 400 bar 5800psi	6	7/16-20	30	15	20	12	17	17	14	14
LEE08S9/16UNF		8	9/16-18	32	17	25	12	18	19	19	17
LEE10S9/16UNF		10	9/16-18	34	18	26	12	20	22	19	17
LEE12S3/4UNF		12	3/4-16	38	22	30	14	26	24	22	22
LEE16S7/8UNF		16	7/8-14	43	25	34	16	29	30	27	27
LEE20S11/16UN		20	1 1/16-12	49	28	37	19	37	36	30	32
LEE25S11/16UN		25	1 1/16-12	54	30	50	19	44	46	36	32
LEE30S15/8UN	250bar	30	1 5/8-12	62	36	50	19	55	50	50	50
LEE38S17/8UN	3625psi	38	1 7/8-12	65	34	51	19	55	60	50	55

## Adjustable Lock Nut 45° Elbow - VEE-M

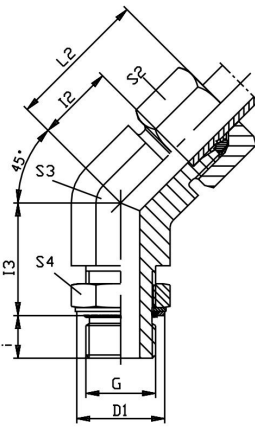


	Working Pressure (bar/psi)	Tube O.d	G male thread	L2	I2	I3	i	D1	S2	S3	S4
VEE06LM	<b>L light</b> 315 bar 4560psi	6	M10x1	24	9	21	7	15	14	14	14
VEE08LM		8	M12x1.5	27	12	19	10	18	17	14	17
VEE10LM		10	M14x1.5	27	12	24	9	20	19	19	19
VEE12LM		12	M16x1.5	28	14	25	9	23	22	19	22
VEE15LM		15	M18x1.5	32	17	24	11	25	27	22	24
VEE18LM		250bar 3625psi	18	M22x1.5	33	17	31	11	28	32	27
VEE22LM	<b>160 bar</b> 2320psi	22	M27x2	35	19	31	14	33	36	30	32
VEE28LM		28	M33x2	40	23	35	14	41	41	36	41
VEE35LM		35	M42x2	48	27	37	14	51	50	50	50
VEE42LM		42	M48x2	49	26	37	16	56	60	50	55
VEE06SM	<b>S heavy</b> 315 bar 4650psi	6	M12x1.5	24	9	19	10	18	17	14	17
VEE08SM		8	M14x1.5	27	12	19	10	20	19	19	19
VEE10SM		10	M16x1.5	29	13	23	11	23	22	19	22
VEE12SM		12	M18x1.5	33	17	25	12	25	24	22	24
VEE16SM	250bar	16	M22x1.5	34	16	30	14	28	30	27	27
VEE20SM	3625psi	20	M27x2	38	16	35	16	33	36	30	32
VEE25SM	160 bar	25	M33x2	43	19	37	16	41	46	36	41
VEE30SM	2320 psi	30	M42x2	50	24	37	17	51	50	50	50
VEE38SM		38	M48x2	50	9	38	19	56	60	50	55

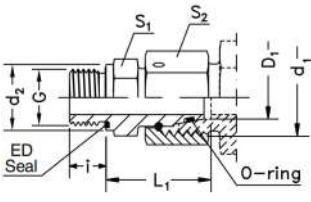
## Adjustable Lock Nut 45° Elbow - VEE-R

	<b>VEE-R Part NO.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube O.d</b>	<b>G male BSSP</b>	<b>L2</b>	<b>I2</b>	<b>I3</b>	<b>i</b>	<b>D1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>
	VEE06LR	L light 315 bar 4560psi	6	G 1/8A	24	9	21	7	15	14	14	14
	VEE08LR		8	G 1/4A	27	12	19	10	18	17	14	17
	VEE10LR		10	G 1/4A	27	12	24	9	20	19	19	19
	VEE12LR		12	G3/8A	28	14	25	9	23	22	19	22
	VEE15LR		15	G1/2A	32	17	24	11	25	27	22	24
	VEE18LR	250bar 3625psi	18	G1/2A	33	17	31	11	28	32	27	27
	VEE22LR	160 bar 2320psi	22	G 3/4A	35	19	31	14	33	36	30	32
	VEE28LR		28	G 1 A	40	23	35	14	41	41	36	41
	VEE35LR		35	G11/4A	48	27	37	14	51	50	50	50
	VEE42LR		42	G11/2A	49	26	37	16	56	60	50	55
	VEE06SR	S heavy 315 bar 4650psi	6	G 1/4A	24	9	19	10	18	17	14	17
	VEE08SR		8	G 1/4A	27	12	19	10	20	19	19	19
	VEE10SR		10	G 3/8A	29	13	23	11	23	22	19	22
	VEE12SR		12	G 3/8A	33	17	25	12	25	24	22	24
	VEE16SR	250bar	16	G1/2A	34	16	30	14	28	30	27	27
	VEE20SR	3625psi	20	G 3/4A	38	16	35	16	33	36	30	32
	VEE25SR	160 bar	25	G 1 A	43	19	37	16	41	46	36	41
	VEE30SR	2320 psi	30	G11/4A	50	24	37	17	51	50	50	50
	VEE38LR		38	G11/2A	50	9	38	19	56	60	50	55

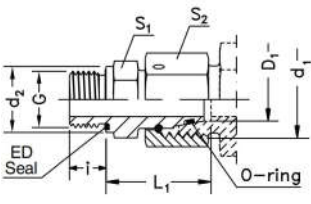
## Adjustable Lock Nut 45° Elbow - VEE-UNF

	<b>VEE-UNF Part</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube O.d</b>	<b>G male UNF</b>	<b>L2</b>	<b>I2</b>	<b>I3</b>	<b>i</b>	<b>D1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>
	VEE06L7/16UNF	L light 315 bar 4560psi	6	7/16-20	29	14	19	10	17	14	14	14
	VEE08L7/16UNF		8	7/16-20	31	16	19	10	18	17	14	14
	VEE10L7/16UNF		10	9/16-18	32	17	24	10	20	19	19	17
	VEE12L9/16UNF		12	9/16-18	34	19	25	11	26	22	19	17
	VEE12L3/4UNF		12	3/4-16	34	19	25	13	26	22	19	22
	VEE15L3/4UNF		15	3/4-16	36	21	28	13	29	27	22	22
	VEE15L7/8UNF		15	7/8-14	36	21	28	15	29	27	22	27
	VEE18L7/8UNF		18	7/8-14	40	24	32	15	29	32	27	27
	VEE18L11/16UN		18	1 1/16-12	40	24	32	17	29	32	30	32
	VEE22L11/16UN	160 bar 2320psi	22	1 1/16-12	44	28	35	17	37	36	30	32
	VEE28L15/16UN		28	1 5/16-12	47	31	42	17	44	41	36	41
	VEE35L15/8UN		35	1 5/8-12	59	38	46	17	55	50	50	50
	VEE42L17/8UN		42	1 7/8-12	61	38	47	17	55	60	50	55
	VEE06S7/16UNF	S heavy 400 bar 5800psi	6	7/16-20	30	15	20	12	17	17	14	14
	VEE08S9/16UNF		8	9/16-18	32	17	25	12	18	19	19	17
	VEE10S9/16UNF		10	9/16-18	34	18	26	12	20	22	19	17
	VEE12S3/4UNF		12	3/4-16	38	22	30	14	26	24	22	22
	VEE16S7/8UNF		16	7/8-14	43	25	34	16	29	30	27	27
	VEE20S11/16UN		20	1 1/16-12	49	28	37	19	37	36	30	32
	VEE25S11/16UN		25	1 1/16-12	54	30	50	19	44	46	36	32
	VEE30S15/8UN	250bar	30	1 5/8-12	62	36	50	19	55	50	50	50
	VEE38S17/8UN	3625psi	38	1 7/8-12	65	34	51	19	55	60	50	55

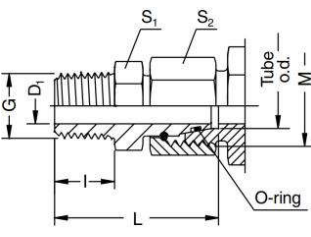
## Swivel Connector - EGE-R-ED

	EGE-R-ED Part NO.	Working Pressure (bar/psi)	D1 Tube o.d.	G male BSPP	d1	d2	i	L1	S1	S2
	EGE06LRED	L light 315 bar 4560 psi	6	G 1/8A	M12 x1.5	14	8	24.5	14	14
	EGE08LRED		8	G 1/4A	M14x1.5	19	12	29.5	19	17
	EGE10LRED		10	G 1/4A	M16x1.5	19	12	27.5	19	19
	EGE12LRED		12	G3/8A	M18x1.5	22	12	34	22	22
	EGE15LRED		15	G1/2A	M22x1.5	27	14	32	27	27
	EGE18LRED		18	G1/2A	M26x1.5	27	14	31.5	27	32
	EGE22LRED	160 bar 2320 psi	22	G 3/4A	M30 x2	32	16	32.5	32	36
	EGE28LRED		28	G 1A	M36 x2	40	18	35	41	41
	EGE35LRED		35	G11/4A	M45 x2	50	20	42.5	50	50
	EGE42LRED		42	G11/2A	M52 x2	55	22	46.5	55	60
	EGE06SRED	S heavy 630 bar 9130 psi	6	G 1/4A	M14x1.5	19	12	27	19	17
	EGE08SRED		8	G 1/4A	M16x1.5	19	12	29.5	19	19
	EGE10SRED		10	G 3/8A	M18x1.5	22	12	32	22	22
	EGE12SRED		12	G 3/8A	M20x1.5	22	12	34	22	24
	EGE14SRED		14	G1/2A	M22x1.5	27	14	36.5	27	27
	EGE16SRED		16	G1/2A	M24 x1.5	27	14	37	27	30
	EGE20SRED	400 bar 5800 psi	20	G 3/4A	M30 x2	32	16	43	32	36
	EGE25SRED		25	G 1A	M36 x2	40	51	48	41	46
	EGE30SRED		30	G11/4A	M42 x2	50	20	51	50	50
	EGE38SRED		38	G11/2A	M52 x2	55	22	60	55	60

## Swivel Connector - EGE-M-ED

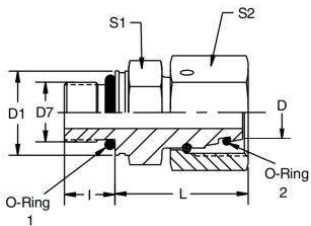
	EGE-M-ED Part NO.	Working Pressure (bar/psi)	D1 Tube o.d.	G male thread	d1	d2	i	L1	S1	S2
	EGE06LRED	L light 315 bar 4560 psi	6	M10x1	M12 x1.5	14	8	24.5	14	14
	EGE08LRED		8	M12x1.5	M14x1.5	19	12	29.5	19	17
	EGE10LRED		10	M14x1.5	M16x1.5	19	12	27.5	19	19
	EGE12LRED		12	M16x1.5	M18x1.5	22	12	34	22	22
	EGE15LRED		15	M18x1.5	M22x1.5	27	14	32	27	27
	EGE18LRED		18	M22x1.5	M26x1.5	27	14	31.5	27	32
	EGE22LRED	160 bar 2320 psi	22	M26x1.5	M30 x2	32	16	32.5	32	36
	EGE28LRED		28	M33x2	M36 x2	40	18	35	41	41
	EGE35LRED		35	M42x2	M45 x2	50	20	42.5	50	50
	EGE42LRED		42	M48x2	M52 x2	55	22	46.5	55	60
	EGE06SRED	S heavy 630 bar 9130 psi	6	M12x1.5	M14x1.5	19	12	27	19	17
	EGE08SRED		8	M14x1.5	M16x1.5	19	12	29.5	19	19
	EGE10SRED		10	M16x1.5	M18x1.5	22	12	32	22	22
	EGE12SRED		12	M18x1.5	M20x1.5	22	12	34	22	24
	EGE14SRED		14	M20x1.5	M22x1.5	27	14	36.5	27	27
	EGE16SRED		16	M22x1.5	M24 x1.5	27	14	37	27	30
	EGE20SRED	400 bar 5800 psi	20	M27x2	M30 x2	32	16	43	32	36
	EGE25SRED		25	M33x2	M36 x2	40	51	48	41	46
	EGE30SRED		30	M42x2	M42 x2	50	20	51	50	50
	EGE38SRED		38	M48x2	M52 x2	55	22	60	55	60

## Swivel Connector - EGE-NPT



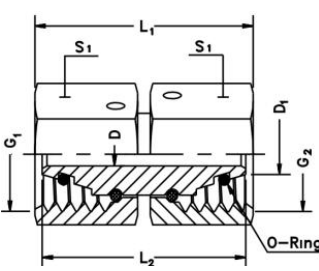
EGE-NPT Part NO.	Working Pressure (bar/psi)	Tube o.d.	M	G male thread	D1	i	L	S1	S2
EGE06L1/8NPT	L light 315 bar 4560 psi	6	M12x1.5	1/8 NPT	2.5	10	31.5	11	14
EGE08L1/4NPT		8	M14x1.5	1/4 NPT	4	15	37.5	14	17
EGE10L1/4NPT		10	M16x1.5	1/4 NPT	6	15	38	14	19
EGE12L3/8NPT		12	M18x1.5	3/8 NPT	8	15.3	40	19	22
EGE15L1/2NPT		15	M22x1.5	1/2 NPT	10	20	49.5	22	27
EGE18L1/2NPT		18	M26x1.5	1/2 NPT	12	20	49	24	32
EGE22L3/4NPT	160 bar 2320psi	22	M30 x 2	3/4 NPT	16	20	52	27	36
EGE28L1NPT		28	M36 x 2	1 NPT	22	25	61	36	41
EGE35L11/4NPT		35	M45 x 2	1 1/4NPT	28	25.5	65.5	46	50
EGE42L11/2NPT		42	M52 x 2	1 1/2NPT	34	26	68.5	50	60
EGE06S1/4NPT	S heavy 630 bar 9130psi	6	M14x1.5	1/4 NPT	2.5	15	37.5	14	17
EGE08S1/4NPT		8	M16x1.5	1/4 NPT	4	15	38	14	19
EGE10S3/8NPT		10	M18x1.5	3/8 NPT	6	15.3	40.5	19	22
EGE12S3/8NPT		12	M20x1.5	1/2 NPT	8	15.3	42	19	24
EGE14S1/2NPT		14	M22x1.5	1/2 NPT	9	20	50.5	33	27
EGE16S1/2NPT		16	M24x1.5	1/2 NPT	11	20	51	24	30
EGE20S3/4NPT	400 bar 5800psi	20	M30 x 2	3/4 NPT	14	20	54	27	36
EGE25S1NPT		25	M36 x 2	1 NPT	18	25	63.5	36	46
EGE30S11/4NPT		30	M42 x 2	1 1/4NPT	23	25.5	70.5	46	50
EGE38S11/2NPT		38	M52 x 2	1 1/2NPT	30	26	73.5	50	60

## Swivel Connector - EGEO

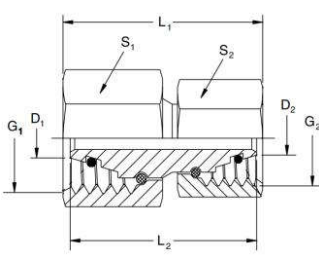


EGEO Part no.	Working Pressure (bar/psi)	Tube o.d.	D7 male thread	D1	I	L	S1	S2
EGEO06LM	L light 315 bar 4560 psi	6	M12x1.5	13.8	8.5	24.5	14	14
EGEO08LM		8	M14x1.5	16.8	11.0	26.5	17	17
EGEO10LM		10	M16x1.5	18.8	11.0	27.5	19	19
EGEO12LM		12	M18x1.5	21.8	11.5	30.5	22	22
EGEO15LM		15	M22x1.5	23.8	12.5	31.5	24	27
EGEO18LM		18	M26x1.5	26.8	13.0	31.5	27	32
EGEO22LM	160 bar 2320 psi	22	M30x2	31.8	16.0	32.5	32	36
EGEO28LM		28	M36x2	40.8	16.0	35	41	41
EGEO35LM		35	M45x2	49.8	16.0	42.5	50	50
EGEO08SM	S heavy 630 bar 9130 psi	8	M16x1.5	18.8	11.0	29.5	19	19
EGEO10SM		10	M18x1.5	21.8	12.5	32	22	22
EGEO12SM		12	M20x1.5	23.8	14.0	34	24	24
EGEO16SM	400 bar 5800 psi	16	M24x1.5	26.8	15.0	37	27	30
EGEO20SM		20	M30x2	31.8	18.5	43	32	36
EGEO25SM		25	M36x2	40.8	18.5	48	41	46
EGEO30SM		30	M42x2	49.8	19.0	51	50	50

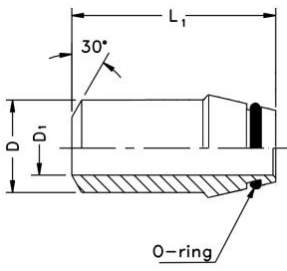
## Swivel Union - GZ

	<b>GZ Part no.</b>	<b>Working Pressure (bar/psi)</b>	<b>D1 Tube o.d.</b>	<b>G1, G2 Metric Thread</b>	<b>L1</b>	<b>L2</b>	<b>S1</b>	<b>D</b>
	GZ06L	<b>L light</b> 315 bar 4570 psi		6	M12x1.5	33	32	14
GZ08L	8			M14x1.5	33	32	17	4
GZ10L	10			M16x1.5	34	33	19	6
GZ12L	12			M18x1.5	34	33	22	8
GZ15L	15			M22x1.5	39	38	27	10
GZ18L	18			M26x1.5	38	36	32	13
GZ22L	160 bar 2320 psi		22	M30x2	44	42	36	17
GZ28L			28	M36x2	48	46	41	22
GZ35L			35	M45x2	52	48	50	28
GZ42L			42	M52x2	57	52	60	34
GZ06S	<b>S heavy</b> 630 bar 9135 psi		6	M14x1.5	33	32	17	2.5
GZ08S			8	M16x1.5	34	33	19	4
GZ10S			10	M18x1.5	35	33	22	6
GZ12S			12	M20x1.5	38	36	24	8
GZ14S			14	M22x1.5	41	39	27	9
GZ16S			400 bar 5800 psi		16	M24x1.5	42	39
GZ20S	20	M30x2			48	44	36	14
GZ25S	25	M36x2			53	46	46	18
GZ30S	30	M42x2			62	52	50	23
GZ38S	38	M52x2			67	52	60	30

## Swivel Union - GZR

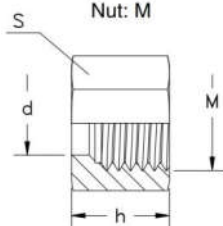
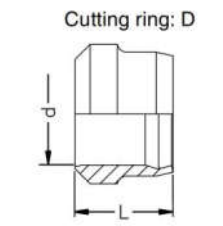
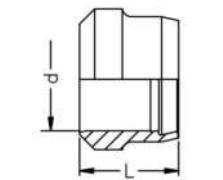
	<b>GZR Part no.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube o.d.</b>		<b>Metric Thread</b>		<b>L1</b>	<b>L2</b>	<b>S1</b>	<b>S2</b>
				<b>D1</b>	<b>D2</b>	<b>G1</b>	<b>G2</b>			
GZR06L/06S	<b>L light</b> 315 bar 4565 psi		6	6	M14X1.5	M12X1.5	33	32	17	14
GZR08L/08S			8	8	M16X1.5	M14X1.5	34	33	19	17
GZR10L/10S			10	10	M18X1.5	M16X1.5	34.5	33	22	19
GZR12L/12S			12	12	M20X1.5	M18X1.5	37.5	36	24	22
GZR18L/16S			18	16	M26X1.5	M24X1.5	41.5	39	32	30
GZR22L/20S			160 bar	22	20	M30X2	M30X2	47	44	36
GZR28L/25S	2320 psi		28	25	M36X2	M36X2	50.5	46	41	46
GZR35L/30S			35	30	M45X2	M42X2	59	52	50	50
GZR42L/38S			42	38	M52X2	M52X2	62	52	60	60
GZR16S/15L	<b>S heavy</b> 315 bar 4565 psi		16	15	M24X1.5	M22X1.5	41	39	30	27
GZR20S/18L			20	18	M30X2	M26X1.5	47	44	36	32
GZR25S/22L	160 bar	25	22	M36X2	M30X2	50.5	46	46	36	
GZR30S/28L	2320 psi		30	28	M42X2	M36X2	58	52	50	41
GZR38S/35L			38	35	M52X2	M45X2	61.5	52	60	50

## Swivel Connector - SKA

	SKA Part no.	Working Pressure (bar/psi)		D Tube o.d.	O-ring	D	D1	L	L1
	SKA10x1	249	3610	10x1	8x1.5	10	8	33.5	32.5
SKA10x1.5	358	5190	10x1.5	7					
SKA10x2	460	6670	10x2	6					
SKA12x1.5	305	4420	12x1.5	10x1.5	12	9	33.5	32.5	
SKA12x2	393	5700	12x2			8			
SKA12x2.5	476	6900	12x2.5			7			
SKA16x1.5	234	3400	16x1.5	13x2	16	13	40.5	39	
SKA16x2	305	4420	16x2			12			
SKA16x2.5	372	5400	16x2.5			11			
SKA16x3	435	6310	16x3			10			
SKA20x2	249	3610	20x2	16.3x24	20	16	47	45	
SKA20x2.5	305	4420	20x2.5			15			
SKA20x3	358	5190	20x3			14			
SKA20x4	460	6670	20x4			12			
SKA25x3	294	4260	25x3	20.3x2.4	25	19	53	49.5	
SKA25x4	379	5500	25x4			17			
SKA25x5	460	6670	25x5			15			
SKA30x3	249	3610	30x3	25.3x2.4	30	24	57	52	
SKA30x4	323	4680	30x4			22			
SKA30x5	393	5700	30x5			20			
SKA30x6	460	6670	30x6			18			
SKA38x4	261	3785	38x4	33.3x2.4	38	30	64	56.5	
SKA38x5	319	4625	38x5			28			
SKA38x6	375	5440	38x6			26			
SKA38x7	429	6220	38x7			24			

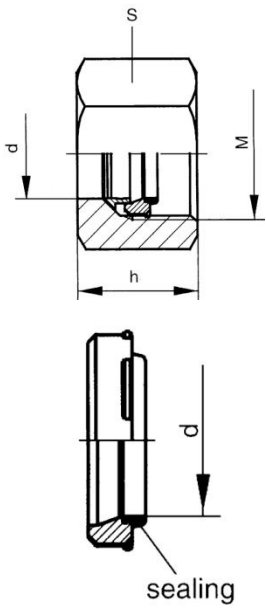
## Nut - M

## Cutting Lock Ring - D / Progressive Ring - DPR

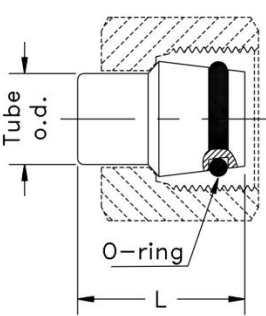
	Nut Part No.	Series	d Tube o.d.	M	S	h	L	Cutting ring and Progressive ring Part No.
	M04LL	LL Very light	4	M8 x 1	10	11	6	D04LL
	M06LL		6	M10x1	12	11.5	7	D06LL
	M08LL		8	M12x1	14	13	7	D08LL
	M10LL		10	M14x1	17	13	7	D10LL
	M12LL		12	M16x1	19	13	7.5	D12LL
	M06L	L Light	6	M12x1.5	14	15	9.5	DPR06L
	M08L		8	M14x1.5	17	15	9.5	DPR08L
	M10L		10	M16x1.5	19	16	10.5	DPR10L
	M12L		12	M18x1.5	22	16	10	DPR12L
	M15L		15	M22x1.5	27	17.5	10	DPR15L
	M18L		18	M26x1.5	32	18.5	10	DPR18L
	M22L		22	M30x2	36	20.5	10.5	DPR22L
	M28L		28	M36x2	41	21	10.5	DPR28L
M35L	35	M45x2	50	24	13.5	DPR35L		
	M42L	42	M52x2	60	24	13.5	DPR42L	
	M06S	S Heavy	6	M14x1.5	17	17	9.5	DPR06
	M08S		8	M16x1.5	19	17	9.5	DPR08
	M10S		10	M18x1.5	22	18	10	DPR10L
	M12S		12	M20x1.5	24	18	10	DPR12L
	M14S		14	M22x1.5	27	21	10	DPR14S
	M16S		16	M24x1.5	30	21	10.5	DPR16S
	M20S		20	M30x2	36	24.5	12.5	DPR20S
	M25S		25	M36x2	46	27	12.5	DPR25S
	M30S		30	M42x2	50	29	13	DPR30S
M38S	38		M52x2	60	32.5	13.5	DPR38S	

## Dual Function Nut - FM

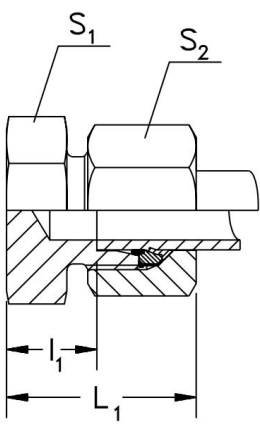
### Soft Sealing Ring - DOZ

	FM Part No.	Series	d Tube o.d.	M	S	DOZ Part No.
	-FM06L	L light		6	M12x1.5	14
-FM08L	8			M14x1.5	17	DOZ08L
-FM10L	10			M16x1.5	19	DOZ10L
-FM12L	12			M18x1.5	22	DOZ12L
-FM15L	15			M22x1.5	27	DOZ15L
-FM18L	18			M26x1.5	32	DOZ18L
-FM22L	22			M30x2	36	DOZ22L
-FM28L	28			M36x2	41	DOZ28L
-FM35L	35			M45x2	50	DOZ35L
-FM42L	42			M52x2	60	DOZ42L
-FM06S	S heavy		6	M12x1.5	17	DOZ06
-FM08S			8	M14x1.5	19	DOZ08
-FM10S			10	M16x1.5	22	DOZ10L
-FM12S			12	M18x1.5	24	DOZ12L
-FM14S			14	M22x1.5	27	DOZ14S
-FM16S			16	M24x1.5	30	DOZ16S
-FM20S			20	M30x2	36	DOZ20S
-FM25S			25	M36x2	46	DOZ25S
-FM30S			30	M45x2	50	DOZ30S
-FM38S			38	M52x2	60	DOZ38S

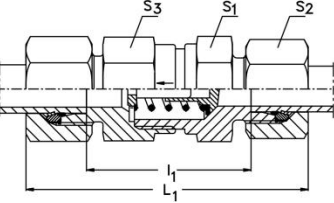
## Fitting Cap - VKA

	VKA Part no.	Working Pressure (bar/psi)	Tube o.d.	L	O-Ring
	VKA06	L Light 315 bar 4560 psi		6	18.5
VKA08	8			18.5	6.5 x 1.5
VKA10	10			20	8 x 1.5
VKA12	12			20.5	10 x 1.5
VKA15	15			20.5	12 x 2
VKA18	18			22.5	15 x 2
VKA22	S Heavy 630 bar 9130 psi		22	25	20 x 2
VKA28			28	25.5	26 x 2
VKA35			35	30	32 x 2.5
VKA42			42	30	38 x 2.5
VKA06	400 bar 5800 psi		6	18.5	4.5 x 1.5
VKA08			8	18.5	6.5 x 1.5
VKA10			10	20	8 x 1.5
VKA12			12	20.5	10 x 1.5
VKA14			14	22.5	11 x 2
VKA16			16	23.5	13 x 2
VKA20			20	28.5	16.3 x 2.4
VKA25	25	29	20.3 x 2.4		
VKA30	30	30.5	25.3 x 2.4		
VKA38	315 bar/4560 psi		38	33	33.3 x 2.4

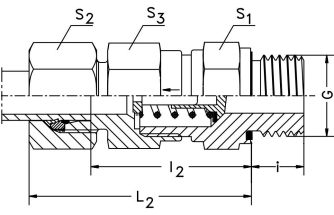
## Tube End Plug - ROV

	ROV	Working Pressure	Tube	l1	L1	S1	S2
	Part no.	(bar / psi)	o.d.				
	ROV06L	<b>L Light</b> 315 bar 4560 psi	6	7	22	12	14
	ROV08L		8	8	23	14	17
	ROV10L		10	9	24	17	19
	ROV12L		12	10	25	19	22
	ROV15L		15	11	26	24	27
	ROV18L		18	11.5	28	27	32
	ROV22L	160 bar	22	13.5	30	32	36
	ROV28L	2320 psi	28	14.5	31	41	41
	ROV35L		35	14.5	36	46	50
	ROV42L		42	16	39	55	60
	ROV06S	<b>S Heavy</b> 630 bar 9130 psi	6	11	26	14	17
	ROV08S		8	13	28	17	19
	ROV10S		10	12.5	29	19	22
	ROV12S		12	14.5	31	22	24
	ROV14S		14	16	34	24	27
	ROV16S			16	15.5	34	27
	ROV20S	400 bar	20	17.5	39	32	36
	ROV25S	5800 psi	25	20	44	41	46
ROV30S		30	20.5	47	46	50	
ROV38S	315 bar 4560 psi	38	23	54	55	60	

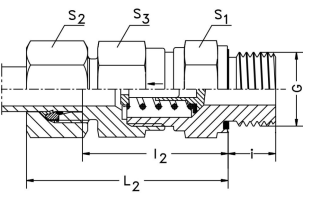
## Non-Return Valve - RHD

	RHD	Working Pressure	Tube	S1	S2	S3	L1	l1	DN	
	Part no.	(bar / psi)	o.d.						Size	
	RHD06L	<b>L Light</b> 250 bar 3625 psi	6	17	14	17	58	29	4	
	RHD08L		8	19	17	19	59	30	6	
	RHD10L		10	22	19	24	69.5	40.5	8	
	RHD12L		12	27	22	30	72.5	43.5	10	
	RHD15L		15	27	27	32	77.5	47.5	12	
	RHD18L		160 bar	18	36	32	36	83.5	51.5	16
	RHD22L	2320 psi	22	41	36	46	93.5	61.5	20	
	RHD28L	100 bar	28	50	41	55	102.5	69.5	25	
	RHD35L	1450 psi	35	60	50	60	117.5	74.5	32	
	RHD42L		42	65	60	70	119	74	32	
	RHD06S	<b>S Heavy</b> 400 bar 5800 psi	6	19	17	19	63.5	34.5	3	
	RHD08S		8	19	19	19	63.5	34.5	4	
	RHD10S		10	22	22	24	72.5	40.5	6	
	RHD12S		12	24	24	27	74.5	42.5	8	
	RHD14S		315 bar	14	27	27	32	82.5	47.5	10
	RHD16S		4560 psi	16	32	30	36	86.5	50.5	12
	RHD20S	250 bar	20	41	36	46	97.5	54.5	16	
	RHD25S	3625 psi	25	46	46	50	106.5	58.5	20	
RHD30S		30	60	50	60	122.5	69.5	25		
RHD38S		38	65	60	70	136.5	75.5	32		

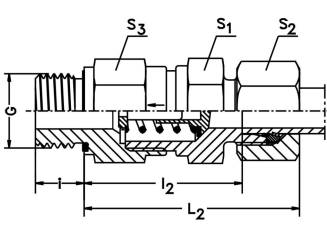
## Non-Return Valve - RHV-R-ED

	<b>RHD-R</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube o.d.</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>L2</b>	<b>I2</b>	<b>I</b>	<b>G Male BSP</b>
	<b>Part no.</b>									
	RHV06LRED	<b>L Light</b> 250 bar 3625 psi	6	17	14	17	42.5	29	8	G 1/8A
	RHV08LRED		8	19	17	19	44.5	30	12	G 1/4A
	RHV10LRED		10	22	19	24	53	40.5	12	G 1/4A
	RHV12LRED		12	27	22	30	57	43.5	12	G 3/8A
	RHV15LRED		15	27	27	32	60.5	47.5	14	G 1/2A
	RHV18LRED	160 bar	18	36	32	36	66	51.5	14	G 1/2A
	RHV22LRED	2320 psi	22	41	36	46	71	61.5	16	G 3/4A
	RHV28LRED	100 bar	28	50	41	55	79.5	69.5	18	G 1 A
	RHV35LRED	1450 psi	35	60	50	60	90.5	74.5	20	G 1 1/4A
	RHV42LRED		42	65	60	70	91	74	22	G 1 1/2A
	RHV06SRED	<b>S Heavy</b> 400 bar 5800 psi	6	19	17	19	46	34.5	12	G 1/4A
	RHV08SRED		8	19	19	19	46	34.5	12	G 1/4A
	RHV10SRED		10	22	22	24	54	40.5	12	G 3/8A
	RHV12SRED		12	24	24	27	57	42.5	12	G 3/8A
	RHV14SRED	315 bar	14	27	27	32	62	47.5	14	G 1/2A
	RHV16SRED	4560 psi	16	32	30	36	66	50.5	14	G 1/2A
	RHV20SRED	250 bar	20	41	36	46	73.5	54.5	16	G 3/4A
	RHV25SRED	3625 psi	25	46	46	50	78.5	58.5	18	G 1 A
	RHV30SRED		30	60	50	60	90.5	69.5	20	G 1 1/4A
	RHV38SRED		38	65	60	70	100	75.5	22	G 1 1/2A

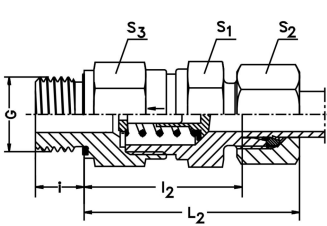
## Non-Return Valve - RHV-M-ED

	<b>RHV-M</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube o.d.</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>L2</b>	<b>I2</b>	<b>I</b>	<b>G Male Thread</b>
	<b>Part no.</b>									
	RHV06LMED	<b>L Light</b> 250 bar 3625 psi	6	17	14	17	42.5	28	8	M 10x1
	RHV08LMED		8	19	17	19	44.5	29	12	M 12X1.5
	RHV10LMED		10	22	19	24	53	38.5	12	M 14X1.5
	RHV12LMED		12	27	22	30	57	42.5	12	M 16X1.5
	RHV15LMED		15	27	27	32	60.5	45.5	12	M 18X1.5
	RHV18LMED	160 bar	18	36	32	36	66	50	14	M 22X1.5
	RHV22LMED	2320 psi	22	41	36	46	71	55	16	M 26X1.5
	RHV28LMED	100 bar	28	50	41	55	79.5	63	18	M 33X2
	RHV35LMED	1450 psi	35	60	50	60	90.5	69	20	M 42X2
	RHV42LMED		42	65	60	70	91	68.5	22	M 48X2
	RHV06SMED	<b>S Heavy</b> 400 bar 5800 psi	6	19	17	19	46	31.5	12	M 12X1.5
	RHV08SMED		8	19	19	19	46	31.5	12	M 14X1.5
	RHV10SMED		10	22	22	24	54	38	12	M 16X1.5
	RHV12SMED		12	24	24	27	57	41	12	M 18X1.5
	RHV14SMED	315 bar	14	27	27	32	62	44.5	14	M 20X1.5
	RHV16SMED	4560 psi	16	32	30	36	66	48	14	M 22X1.5
	RHV20SMED	250 bar	20	41	36	46	73.5	52	16	M 27X2
	RHV25SMED	3625 psi	25	46	46	50	78.5	54.5	18	M 33X2
	RHV30SMED		30	60	50	60	90.5	64	20	M 42X2
	RHV38SMED		38	65	60	70	100	69.5	22	M 48X2

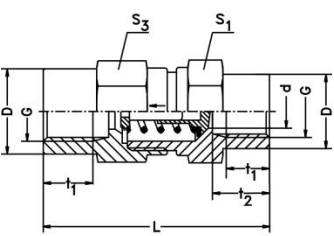
## Non-Return Valve - RHZ-R-ED

	<b>RHZ-R Part no.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube o.d.</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>L2</b>	<b>I2</b>	<b>I</b>	<b>G Male BSP</b>
	RHZ06LRED	<b>L Light</b> 250 bar 3625 psi	6	17	14	17	41	26.5	8	G 1/8A
	RHZ08LRED		8	19	17	19	43	28.5	12	G 1/4A
	RHZ10LRED		10	22	19	24	53	38.5	12	G 1/4A
	RHZ12LRED		12	27	22	30	55	40.5	12	G 3/8A
	RHZ15LRED		15	27	27	32	57.5	42.5	14	G 1/2A
	RHZ18LRED	160 bar	18	36	32	36	64	48	14	G 1/2A
	RHZ22LRED	2320 psi	22	41	36	46	72	56	16	G 3/4A
	RHZ28LRED	100 bar	28	50	41	55	80.5	64	18	G 1 A
	RHZ35LRED	1450 psi	35	60	50	60	91.5	70	20	G 1 1/4A
	RHZ42LRED		42	65	60	70	93	70.5	22	G 1 1/2A
	RHZ06SRED	<b>S Heavy</b> 400 bar 5800 psi	6	19	17	19	46	31.5	12	G 1/4A
	RHZ08SRED		8	19	19	19	46	31.5	12	G 1/4A
	RHZ10SRED		10	22	22	24	54	38	12	G 3/8A
	RHZ12SRED		12	24	24	27	57	41	12	G 3/8A
	RHZ14SRED	315 bar	14	27	27	32	61	43.5	14	G 1/2A
	RHZ16SRED	4560 psi	16	32	30	36	64	46	14	G 1/2A
	RHZ20SRED	250 bar	20	41	36	46	71.5	50	16	G 3/4A
	RHZ25SRED	3625 psi	25	46	46	50	78.5	54.5	18	G 1 A
	RHZ30SRED		30	60	50	60	90.5	64	20	G 1 1/4A
RHZ38SRED		38	65	60	70	102	71.5	22	G 1 1/2A	

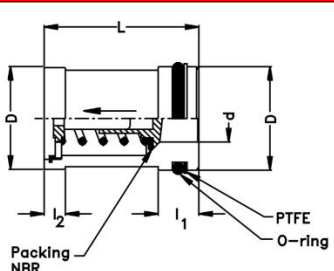
## Non-Return Valve - RHZ-M-ED

	<b>RHZ-M Part no.</b>	<b>Working Pressure (bar/psi)</b>	<b>Tube o.d.</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>L2</b>	<b>I2</b>	<b>I</b>	<b>G Male Thread</b>
	RHZ06LMED	<b>L Light</b> 250 bar 3625 psi	6	17	14	17	41	26.5	8	M 10x1
	RHZ08LMED		8	19	17	19	43	28.5	12	M 12X1.5
	RHZ10LMED		10	22	19	24	53	38.5	12	M 14X1.5
	RHZ12LMED		12	27	22	30	55	40.5	12	M 16X1.5
	RHZ15LMED		15	27	27	32	57.5	42.5	12	M 18X1.5
	RHZ18LMED	160 bar	18	36	32	36	64	48	14	M 22X1.5
	RHZ22LMED	2320 psi	22	41	36	46	72	56	16	M 26X1.5
	RHZ28LMED	100 bar	28	50	41	55	80.5	64	18	M 33X2
	RHZ35LMED	1450 psi	35	60	50	60	91.5	70	20	M 42X2
	RHZ42LMED		42	65	60	70	93	70.5	22	M 48X2
	RHZ06SMED	<b>S Heavy</b> 400 bar 5800 psi	6	19	17	19	46	31.5	12	M 12X1.5
	RHZ08SMED		8	19	19	19	46	31.5	12	M 14X1.5
	RHZ10SMED		10	22	22	24	54	38	12	M 16X1.5
	RHZ12SMED		12	24	24	27	57	41	12	M 18X1.5
	RHZ14SMED	315 bar	14	27	27	32	61	43.5	14	M 20X1.5
	RHZ16SMED	4560 psi	16	32	30	36	64	46	14	M 22X1.5
	RHZ20SMED	250 bar	20	41	36	46	71.5	50	16	M 27X2
	RHZ25SMED	3625 psi	25	46	46	50	78.5	54.5	18	M 33X2
	RHZ30SMED		30	60	50	60	90.5	64	20	M 42X2
RHZ38SMED		38	65	60	70	102	71.5	22	M 48X2	

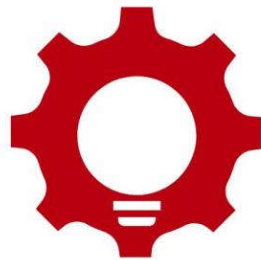
## Non-Return Valve - RHDI

	<b>RHDI Part no.</b>	<b>Working Pressure (bar/psi)</b>	<b>G</b>	<b>S1</b>	<b>S3</b>	<b>L</b>	<b>t1</b>	<b>t2</b>	<b>D</b>	<b>d</b>
	RHDI-1/8	400 bar	G1/8	19	19	42.5	8	12	19	3.5
	RHDI-1/4	5800 psi	G1/4	19	19	51	12	16	19	3.5
	RHDI-3/8		G3/8	24	27	60	12	17	24	7.5
	RHDI-1/2	315 bar 4560 psi	G1/2	32	36	72	15	20	32	11.5
	RHDI-3/4	250 bar	G3/4	42	46	84	16.5	22	41	15
	RHDI-1	3625 psi	G 1	46	50	95	19	25.5	46	19
	RHDI-1 1/4		G1 1/4	60	60	110	21.5	28	60	24
	RHDI-1 1/2		G1 1/2	65	70	114	22	28.5	65	29

## Non-Return Valve - RVP

	<b>RVP Part no.</b>	<b>Working Pressure (bar/psi)</b>	<b>L</b>	<b>d</b>	<b>l1</b>	<b>l2</b>	<b>D</b>	<b>D1</b>	<b>O-ring</b>
	RVP13	400 bar	23	3.5	9.5	6	13	13	8.3*2.4
	RVP16	5800 psi	26.5	5.5	9.5	6.5	16	16	11.3*2.4
	RVP20		30	7.5	9.5	6.5	20	20	15.3*2.4
	RVP24	315 bar	35	9.5	12	7.5	24	24	18.2*3
	RVP27	4560 psi	38	11.5	12	7.5	27	27	21.2*3
	RVP35	250 bar	44.5	15.3	12	9.5	35	35	29.2*3
	RVP40	3625 psi	50.5	19.3	12	11	40	40	34.2*3
	RVP47		60	24.3	13	13	47	47	41.2*3
	RVP55		70	29.4	16	13	55	55	44.2*5.7

Cartridge Valve



# BEYOND FLUID

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Beyond Fluid

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