

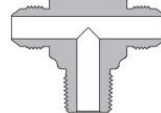
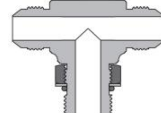
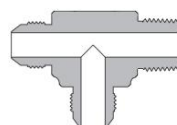
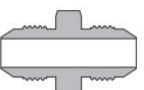
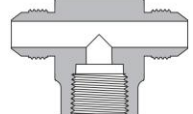
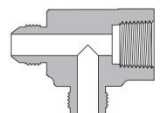
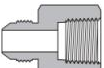
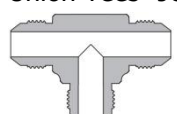
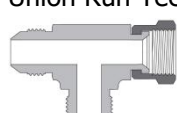
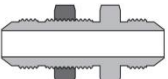
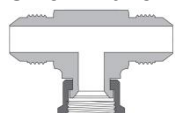
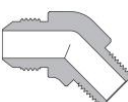
Flared Tube Fittings



ROKE
Valves and Fittings

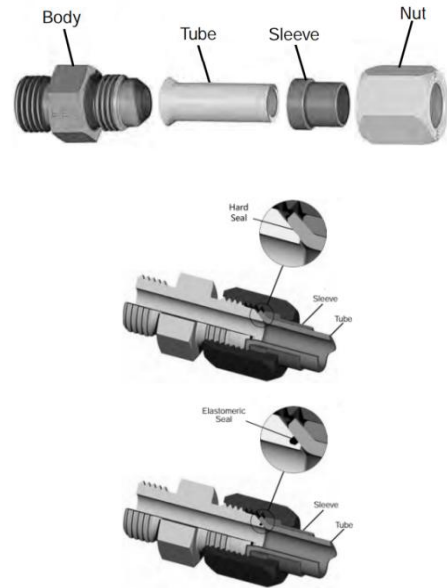
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How the Flared Fittings Work

- Tightening of the nut clamps the tube flare between the body nose (seat) producing a leak tight connection. This clamping on the 37° taper provides a measure of elasticity to the joint helping it to resist loosening under vibration. The clamping force results in a small radial load that tends to deform the fitting nose radially. The resistance of the nose to elastic deformation provides a constant preload (similar to a lockwasher) keeping it tight.
- The clamping force provided by the nut resists the opposing force of the fluid under pressure. The joint remains leak tight as long as the clamping force is higher than the opposing pressure load.
- Properly assembled the flared fittings with appropriate tube will seal consistently under pressure until tube bursts.
- Sealing in flared fittings takes place between two smooth metal surfaces, the fitting nose and inside of the tube flare.
- Therefore, the sealing surfaces have to be smooth, free of any nicks, scratches, spiral tool marks, splits or weld beads.
- Certain types of harder tubes that are not fully annealed may not be suitable for flaring due to the potential for immediate or long-term cracking of the tube flare. For specific tube type and wall thickness recommendations.



Materials

Designator	Material	Bar Stock	Forged
SS	Stainless Steel 316	ASTM A276	ASTM A182
S4	Stainless Steel 304	ASTM A276	ASTM A182
CS	Carbon Steel	ASTM A108	ASTM A105
B	Brass	ASTM B16/B453	ASTM B283
AL	Aluminum	ASTM B211	ASTM B247

Working Pressure

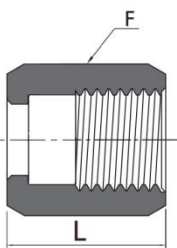
SAE Dash Size	Tube O.D.		Flare Fittings Thread	Working Pressure (PSIG/bar)
	Inch.	mm		
2	1/8	-	5/16-24	5000 / 345
3	3/16	-	3/8-24	5000 / 345
4	1/4	6	7/16-20	5000 / 345
5	5/16	8	1/2-20	5000 / 345
6	3/8	10	9/16-18	5000 / 345
8	1/2	12	3/4-16	4500 / 310
10	5/8	14/15/16	7/8-14	3500 / 241
12	3/4	18/20	1 1/6-12	3500 / 241
14	7/8	22	1 3/16-12	3000 / 207
16	1	25	1 5/16-12	3000 / 207
20	1 1/4	20/30/32	1 5/8-12	2500 / 172
24	1 1/2	35/38	1 7/8-12	2000 / 138
32	2	-	2 1/2-12	1500 / 103

Part NO. Discription

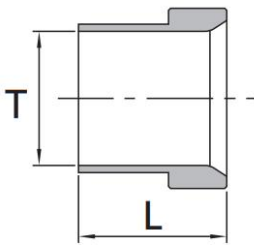
For Example: **SS-JMC-AN 8-MN 8**

Material	Series	AN: Male Flared AS: Female Flared	Flared Size	Thread Type :	Thread Size
SS: SS 316			2: 1/8"	FN: Female Npt	2: 1/8"
S9: SS 904L			4: 1/4"	MN: Male Npt	4: 1/4"
S4: SS 304			6: 3/8"	FR: Female BSPT	6: 3/8"
M4: Monle 400			8: 1/2"	MR: Male BSPT	8: 1/2"
B: Brass			12: 3/4"	SAE: UNF	12: 3/4"
CS: Carbon Steel			16: 1"		16: 1"

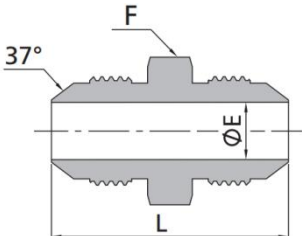
Nuts

	T-Tube O.D.		Basic Ordering Number	Dimension, in. (mm)	
	In.	mm		L	F (Hex)
	1/8	3	-JN-AN2	0.55(14.0)	0.37(9.5)
	3/16	4	-JN-AN3	0.61(15.5)	0.44(11.1)
	1/4	6	-JN-AN4	0.62(15.8)	0.56(14.3)
	5/16	8	-JN-AN5	0.68(17.3)	0.63(15.9)
	3/8	10	-JN-AN6	0.73(18.5)	0.69(17.5)
	1/2	12	--JN-AN8	0.85(21.6)	0.87(22.2)
	5/8	16	-JN-AN10	0.98(24.9)	1.00(25.4)
	3/4	18	-JN-AN12	1.03(26.2)	1.25(31.8)
	7/8	22	-JN-AN14	1.09(27.7)	1.37(34.9)
	1	25	-JN-AN16	1.13(28.7)	1.50(38.1)
	1 1/4	32	-JN-AN20	1.23(31.2)	2.00(50.8)
	1 1/2	38	-JN-AN24	1.42(36.1)	2.00(57.2)
	2	50	-JN-AN32	1.75(44.5)	2.87(73.0)

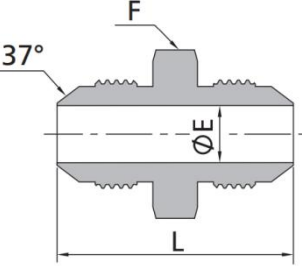
Sleeves

	T-Tube O.D.		Basic Ordering Number		L in. (mm)
	in.	mm	in.	mm	
	1/8	3	-JS-AN2	-SL-AN3M	0.34 (8.6)
	3/16	4	-JS-AN3	-SL-AN4M	0.34 (8.6)
	1/4	6	-JS-AN4	-SL-AN6M	0.41 (10.4)
	5/16	8	-JS-AN5	-SL-AN8M	0.44 (11.2)
	3/8	10	-JS-AN6	-SL-AN10M	0.50 (12.7)
	1/2	12	-JS-AN8	-SL-AN12M	0.56 (14.2)
	5/8	16	-JS-AN10	-SL-AN16M	0.66 (16.8)
	3/4	18	-JS-AN12	-SL-AN18M	0.68 (17.3)
	7/8	22	-JS-AN14	-SL-AN22M	0.76 (19.3)
	1	25	-JS-AN16	-SL-AN25M	0.78 (19.8)
	1 1/4	32	-JS-AN20	-SL-AN32M	0.91 (23.1)
	1 1/2	38	-JS-AN24	-SL-AN38M	1.12 (28.4)
	2	50	-JS-AN32	-SL-AN50M	1.19 (30.2)

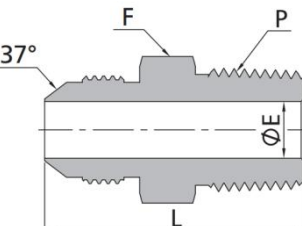
Unions

	T-Tube O.D.		Basic Ordering Number	Dimension, in. (mm)		
	In.	mm		L	E	F (Hex)
	1/8	3	-JU-AN2	1.17 (29.7)	0.06(1.6)	0.44 (11.1)
	3/16	4	-JU-AN3	1.23 (31.2)	0.13(3.2)	0.44 (11.1)
	1/4	6	-JU-AN4	1.37 (34.8)	0.17 (4.4)	0.50 (12.7)
	5/16	8	-JU-AN5	1.37 (34.8)	0.24 (6.0)	0.56 (14.3)
	3/8	10	-JU-AN6	1.41 (35.8)	0.30 (7.5)	0.63 (15.9)
	1/2	12	-JU-AN8	1.62 (41.1)	0.39 (9.9)	0.81 (20.6)
	5/8	16	-JU-AN10	1.88 (47.8)	0.48 (12.3)	0.94 (23.8)
	3/4	18	-JU-AN12	2.16 (54.9)	0.61 (15.5)	1.13 (28.6)
	7/8	22	-JU-AN14	2.21 (56.1)	0.72(18.0)	1.25 (31.8)
	1	25	-JU-AN16	2.25 (57.2)	0.85 (21.5)	1.37 (34.9)
	1 1/4	32	-JU-AN20	2.43 (61.7)	1.08 (27.5)	1.69 (42.9)
	1 1/2	38	-JU-AN24	2.75 (69.8)	1.30 (33.0)	2.00 (50.8)
	2	50	-JU-AN32	3.40 (86.4)	1.77 (45.0)	2.63 (66.7)

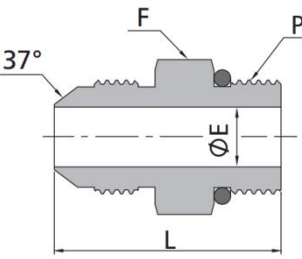
Large Hex Unions

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Hex)
	1/8	3	-LHU-AN2	1.17 (29.7)	0.06 (1.6)	0.56(14.3)
	3/16	4	-LHU-AN3	1.23 (31.2)	0.13 (3.2)	0.63 (15.9)
	1/4	6	-LHU-AN4	1.37 (34.8)	0.17 (4.4)	0.69 (17.5)
	5/16	8	-LHU-AN5	1.37 (34.8)	0.24 (6.0)	0.75 (19.1)
	3/8	10	-LHU-AN6	1.41 (35.8)	0.30 (7.5)	0.81 (20.6)
	1/2	12	-LHU-AN8	1.62 (41.1)	0.39 (9.9)	1.00 (25.4)
	5/8	16	-LHU-AN10	1.88 (47.8)	0.48 (12.3)	1.13 (28.6)
	3/4	18	-LHU-AN12	2.16 (54.9)	0.61 (15.5)	1.37 (34.9)
	7/8	22	-LHU-AN14	2.21 (56.1)	0.72 (18.3)	1.50 (38.1)
	1	25	-LHU-AN16	2.25 (57.2)	0.85 (21.5)	1.63 (41.3)
	1 1/4	32	-LHU-AN20	2.43 (61.7)	1.08 (27.5)	1.87 (47.6)
	1 1/2	38	-LHU-AN24	2.75 (69.8)	1.30 (33.0)	2.13 (54.0)
	2	50	-LHU-AN32	3.40 (86.4)	1.77 (45.0)	2.75 (69.9)

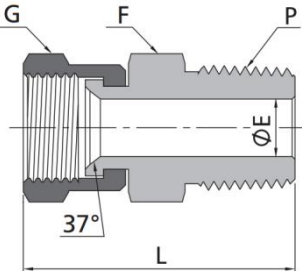
Male Connectors -NPT

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)		
	In.	mm			L	E	F (Hex)
	1/8	3	1/8	-JMC-AN2-MN2	1.11(28.2)	0.06(1.6)	0.44(11.1)
	3/16	4	1/8	-JMC-AN3-MN2	1.14(29.0)	0.13(3.2)	0.44(11.1)
	1/4	6	1/8	-JMC-AN4-MN2	1.22(31.0)	0.17 (4.4)	0.50(12.7)
	1/4	6	1/4	-JMC-AN4-MN4	1.42(36.0)	0.17 (4.4)	0.56(14.3)
	1/4	6	1/2	-JMC-AN4-MN8	1.68(42.7)	0.17 (4.4)	0.87(22.2)
	5/16	8	1/8	-JMC-AN5-MN2	1.22(31.0)	0.19 (4.8)	0.56(14.3)
	5/16	8	1/4	-JMC-AN5-MN4	1.42(36.1)	0.24(6.0)	0.56(14.3)
	3/8	10	1/8	-JMC-AN6-MN2	1.25(31.8)	0.19 (4.8)	0.63 (15.9)
	3/8	10	1/4	-JMC-AN6-MN4	1.43(36.3)	0.28(7.1)	0.63 (15.9)
	3/8	10	3/8	-JMC-AN6-MN6	1.42(36.1)	0.3(7.5)	0.75(19.1)
	3/8	10	1/2	JMC-AN6-MN8	1.67(42.5)	0.3(7.5)	0.87(22.2)
	1/2	12	1/4	-JMC-AN8-MN4	1.53(38.9)	0.28(7.1)	0.81(20.6)
	1/2	12	3/8	-JMC-AN8-MN6	1.53(38.9)	0.39(9.9)	0.81(20.6)
	1/2	12	1/2	-JMC-AN8-MN8	1.79 (45.5)	0.39(9.9)	0.87 (22.2)
	1/2	12	3/4	-JMC-AN8-MN2	1.85 (47.0)	0.39(9.9)	1.13 (28.6)
	5/8	16	3/8	-JMC-AN10-MN6	1.70 (43.1)	0.38 (9.6)	0.94 (23.8)
	5/8	16	1/2	-JMC-AN10-MN8	1.89 (48.0)	0.48 (12.3)	0.94 (23.8)
	5/8	16	3/4	-JMC-AN10-MN12	1.95 (49.5)	0.48 (12.3)	1.13 (28.6)
	3/4	18	3/4	-JMC-AN12-MN12	2.06 (52.3)	0.61(15.5)	1.13 (28.6)
	3/4	18	1	-JMC-AN12-MN16	2.25 (57.1)	0.61 (15.5)	1.37 (34.9)
	7/8	22	3/4	-JMC-AN14-MN12	2.09 (53.1)	0.62 (15.7)	1.25 (31.8)
	1	25	3/4	-JMC-AN16-MN12	2.11 (53.5)	0.62 (15.7)	1.37 (34.9)
	1	25	1	-JMC-AN16-MN16	2.30 (58.4)	0.85 (21.5)	1.37 (34.9)
	1 1/4	32	1	-JMC-AN20-MN16	2.42 (61.5)	0.88 (22.4)	1.69 (42.9)
	1 1/4	32	1 1/4	-JMC-AN20-MN20	2.45 (62.2)	1.08 (27.5)	1.69 (42.9)
	1 1/2	38	1 1/4	-JMC-AN24-MN20	2.68 (68.1)	1.13 (28.6)	2.00 (50.8)
	1 1/2	38	1 1/2	-JMC-AN24-MN24	2.68 (68.1)	1.30 (33.0)	2.00 (50.8)
	2	50	2	-JMC-AN32-MN32	3.11 (79.0)	1.77 (45.0)	2.63 (66.7)

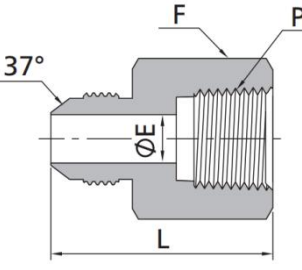
Male Connectors-SAE

	T-Tube O.D		P-SAE Thread Size	Basic Ordering Number	Dimension, in. (mm)		
	In.	mm			L	E	F (Hex)
	1/8	3	5/16-24	-JMC-AN2-ST5	1.06(26.9)	0.06(1.6)	0.44(11.1)
	3/16	4	3/8-24	-JMC-AN3-ST6	1.10(27.9)	0.13(3.2)	0.50(12.7)
	1/4	6	7/16-20	-JMC-AN4-ST7	1.23(31.2)	0.17 (4.4)	0.56(14.3)
	1/4	6	1/2-20	-JMC-AN4-ST8	1.23(31.2)	0.17 (4.4)	0.63 (15.9)
	1/4	6	9/16-18	-JMC-AN4-ST9	1.30(33.0)	0.17 (4.4)	0.69 (17.5)
	1/4	6	3/4-16	-JMC-AN4-ST12	1.37(34.8)	0.17 (4.4)	0.87 (22.2)
	5/16	8	1/2-20	-JMC-AN5-ST8	1.23(31.2)	0.24(6.0)	0.63 (15.9)
	3/8	10	9/16-18	-JMC-AN6-ST9	1.30(33.0)	0.30 (7.5)	0.69 (17.5)
	3/8	10	3/4-16	-JMC-AN6-ST12	1.38(35.1)	0.30 (7.5)	0.87 (22.2)
	3/8	10	7/8-14	-JMC-AN6-ST14	1.50(38.1)	0.30(7.5)	1.00 (25.4)
	1/2	12	9/16-18	-JMC-AN8-ST9	1.44(36.6)	0.30(7.5)	0.81 (20.6)
	1/2	12	3/4-16	-JMC-AN8-ST12	1.48(37.6)	0.39(9.9)	0.87 (22.2)
	1/2	12	7/8-14	-JMC-AN8-ST14	1.60(40.6)	0.39(9.9)	1.00 (25.4)
	1/2	12	1 1/16-12	-JMC-AN8-ST17	1.76(44.7)	0.39(9.9)	1.25 (31.8)
	5/8	16	3/4-16	-JMC-AN10-ST12	1.60(40.6)	0.42(10.7)	0.94 (23.8)
	5/8	16	7/8-14	-JMC-AN10-ST14	1.70(43.1)	0.48(12.3)	1.00 (25.4)
	5/8	16	1 1/16-12	-JMC-AN10-ST17	1.86(47.2)	0.48(12.3)	1.25 (31.8)
	3/4	18	3/4-16	-JMC-AN12-ST12	1.78(45.2)	0.42(10.7)	1.13 (28.6)
	3/4	18	7/8-14	-JMC-AN12-ST14	1.83(46.4)	0.50(12.7)	1.13 (28.6)
	3/4	18	1 1/16-12	-JMC-AN12-ST17	1.97(50.0)	0.61(15.5)	1.25 (31.8)
	3/4	18	1 5/16-12	-JMC-AN12-ST21	2.00(50.8)	0.61(15.5)	1.50(38.1)
	7/8	22	1 3/16-12	-JMC-AN14-ST19	1.99(50.5)	0.72(18.3)	1.37 (34.9)
	7/8	22	1 5/16-12	-JMC-AN14-ST21	2.02(51.3)	0.72(18.3)	1.50(38.1)
	1	25	1 1/16-12	-JMC-AN16-ST17	2.01(51.1)	0.66(16.7)	1.37 (34.9)
	1	25	1 3/16-12	-JMC-AN16-ST19	2.04(51.8)	0.72(18.3)	1.37 (34.9)
	1	25	1 5/16-12	-JMC-AN16-ST21	2.04(51.8)	0.85(21.5)	1.50(38.1)

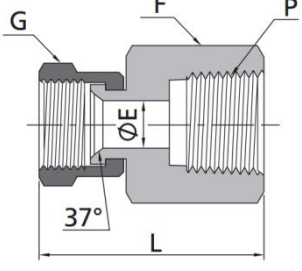
Swivel Male Connectors -NPT

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)			
	In.	mm			L	E	G	F (Hex)
	1/8	3	1/8	-JMC-AS2-MN2	1.18(30.0)	0.06(1.6)	0.44(11.1)	0.44(11.1)
	3/16	4	1/8	-JMC-AS3-MN2	1.26(32.0)	0.13 (3.2)	0.50 (12.7)	0.44(11.1)
	1/4	6	1/8	-JMCAS4-MN2	1.35(34.2)	0.17 (4.4)	0.56(14.3)	0.50(12.7)
	5/16	8	1/8	-JMC-AS5-MN2	1.38(35.0)	0.24 (6.0)	0.63(15.9)	0.56(14.3)
	3/8	10	1/4	-JMC-AS6-MN4	1.58(40.2)	0.30 (7.5)	0.69(17.5)	0.63(15.9)
	1/2	12	3/8	-JMC-AS8-MN6	1.68(42.7)	0.39 (9.9)	0.87(22.2)	0.81(20.6)
	5/8	16	1/2	-JMC-AS10-MN8	2.02(51.3)	0.48(12.3)	1.00(25.4)	0.94(23.8)
	3/4	18	3/4	-JMC-AS12-MN12	2.15(54.5)	0.61(15.5)	1.25(31.8)	1.13(28.6)
	7/8	22	3/4	-JMC-AS14-MN12	2.20(56.0)	0.71 (18.0)	1.37 (34.9)	1.25(31.8)
	1	25	1	-JMC-AS16-MN16	2.51(63.7)	0.85(21.5)	1.50 (38.1)	1.37(34.9)
	1 1/4	32	1 1/4	-JMC-AS20-MN20	2.71(68.9)	1.08 (27.5)	2.00 (50.8)	1.69(42.9)
	1 1/2	38	1 1/2	-JMC-AS24-MN24	3.06(77.6)	1.30 (33.0)	2.25 (57.2)	2.00(50.8)
	2	50	2	-JMC-AS32-MN32	3.66(92.9)	1.77 (45.0)	2.87 (73.0)	2.63(66.7)

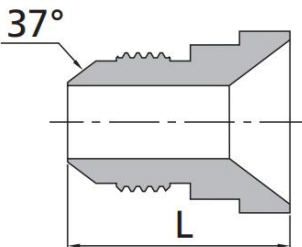
Female Connectors-NPT

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)		
	In.	mm			L	E	F (Hex)
1/8	3	3	1/8	-JFC-AN2-FN2	1.12(28.4)	0.06(1.6)	0.56(14.3)
3/16	4	4	1/8	-JFC-AN3-FN2	1.13 (28.7)	0.13(3.2)	0.56(14.3)
1/4	6	6	1/8	-JFC-AN4-FN2	1.13 (28.7)	0.17 (4.4)	0.56(14.3)
1/4	6	6	1/4	-JFC-AN4-FN4	1.39 (35.3)	0.17 (4.4)	0.75 (19.1)
5/16	8	8	1/8	-JFC-AN5-FN2	1.17 (29.7)	0.24 (6.0)	0.56(14.3)
5/16	8	8	1/4	-JFC-AN5-FN4	1.39 (35.3)	0.24 (6.0)	0.75 (19.1)
3/8	10	10	1/4	-JFC-AN6-FN4	1.40 (35.6)	0.30 (7.5)	0.75 (19.1)
3/8	10	10	3/8	-JFC-AN6-FN6	1.46 (37.1)	0.30 (7.5)	0.87 (22.2)
1/2	12	12	3/8	-JFC-AN8-FN6	1.56 (39.6)	0.39 (9.9)	0.87 (22.2)
1/2	12	12	1/2	-JFC-AN8-FN8	1.80 (45.6)	0.39 (9.9)	1.13 (28.6)
5/8	16	16	1/2	-CJFC-AN10-FN8	1.89 (48.0)	0.48(12.3)	1.13 (28.6)
3/4	18	18	1/2	-JFC-AN12-FN8	2.05 (52.1)	0.61(15.5)	1.13 (28.6)
3/4	18	18	3/4	-JFC-AN12-FN12	2.06 (52.3)	0.61(15.5)	1.37 (34.9)
7/8	22	22	3/4	-JFC-AN14-FN12	2.06 (52.3)	0.72(18.3)	1.37 (34.9)
1	25	25	1	-JFC-AN16-FN16	2.35 (59.7)	0.85 (21.5)	1.63 (41.3)
1 1/4	32	32	1 1/4	-JFC-AN20-FN20	2.49 (63.2)	1.08 (27.5)	2.00 (50.8)
1 1/2	38	38	1 1/2	-JFC-AN24-FN24	2.62 (66.5)	1.30 (33.0)	2.37 (60.3)
2	50	50	2	-JFC-AN32-FN32	2.97 (75.4)	1.77 (45.0)	2.87 (73.0)

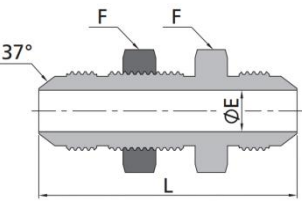
Swivel Female Connectors -NPT

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)			
	In.	mm			L	E	G	F (Hex)
1/8	3	3	1/8	-JFC-AS2-FN2	1.42 (36.1)	0.06(1.6)	0.44(11.1)	0.56(14.3)
3/16	4	4	1/8	-JFC-AS3-FN2	1.47 (37.3)	0.13(3.2)	0.50(12.7)	0.56(14.3)
1/4	6	6	1/8	-JFC-AS4-FN2	1.56 (39.7)	0.17 (4.4)	0.56(14.3)	0.56(14.3)
5/16	8	8	1/8	-JFC-AS5-FN4	1.59 (40.5)	0.24 (6.0)	0.63(15.9)	0.56(14.3)
3/8	10	10	1/4	-JFC-AS6-FN4	1.80 (45.8)	0.30 (7.5)	0.69(17.5)	0.75 (19.1)
1/2	12	12	3/8	-JFC-AS8-FN8	1.85 (47.0)	0.39 (9.9)	0.87(22.2)	0.87 (22.2)
5/8	16	16	1/2	-CJFC-AS10-FN8	2.03 (51.6)	0.48 (12.3)	1.00(25.4)	1.13 (28.6)
3/4	18	18	3/4	-JFC-AS12-FN12	2.62 (66.6)	0.61 (15.5)	1.25(31.8)	1.37 (34.9)
7/8	22	22	3/4	-JFC-AS14-FN12	2.67 (67.8)	0.71(18.0)	1.37(34.9)	1.37 (34.9)
1	25	25	1	-JFC-AS16-FN16	2.89 (73.5)	0.85 (21.5)	1.50(38.1)	1.63 (41.3)
1 1/4	32	32	1 1/4	-JFC-AS20-FN20	3.07 (78.1)	1.08 (27.5)	2.00(50.8)	2.00 (50.8)
1 1/2	38	38	1 1/2	-JFC-AS24-FN24	3.41 (86.7)	1.30 (33.0)	2.37(60.3)	2.37 (60.3)
2	50	50	2	-JFC-AS32-FN32	3.52 (89.3)	1.77 (45.0)	2.87(73.0)	2.87 (73.0)

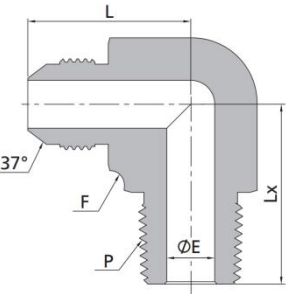
Reducing Adapters

	Tube O.D.		Basic Ordering Number	L in.(mm)
	in.-mm	in.-mm		
	3/8-10	1/4-6	-RA-AN6-AN4	0.97 (24.6)
	1/2-12	1/4-6	-RA-AN8-AN4	1.00 (25.4)
	1/2-12	3/8-10	-RA-AN8-AN6	1.00 (25.4)
	5/8-16	1/4-6	-RA-AN10-AN4	1.03 (26.2)
	5/8-16	3/8-10	-RA-AN10-AN6	1.03 (26.2)
	3/4-18	1/4-6	-RA-AN12-AN4	1.09 (27.7)
	3/4-18	3/8-10	-RA-AN12-AN6	1.09 (27.7)
	3/4-18	1/2-12	-RA-AN12-AN8	1.19 (30.2)
	7/8-22	3/8-10	-RA-AN14-AN6	1.13 (28.7)
	7/8-22	5/8-16	-RA-AN14-AN10	1.33 (33.7)
	1-25	1/4-6	-RA-AN16-AN4	1.22 (31.0)
	1-25	3/8-10	-RA-AN16-AN6	1.22 (31.0)
	1-25	1/2-12	-RA-AN16-AN8	1.27 (32.3)
	1-25	5/8-16	-RA-AN16-AN10	1.38 (35.1)
	1-25	3/4-18	-RA-AN16-AN12	1.47 (37.3)
	1 1/4-32	3/4-18	-RA-AN20-AN12	1.53 (38.8)
	1 1/4-32	1-25	-RA-AN20-AN16	1.59 (40.3)
	1 1/2-38	1/2-12	-RA-AN24-AN8	1.56 (39.6)
	1 1/2-38	3/4-18	-RA-AN24-AN12	1.63 (41.4)
	1 1/2-38	1-25	-RA-AN24-AN16	1.63 (41.4)
	2-50	1 1/2-38	-RA-AN32-AN24	1.91 (48.5)

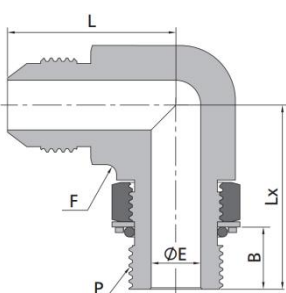
Bulkhead Unions

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Hex)
	3/16	4	-JBU-AN3	1.90 (48.3)	0.13 (3.2)	0.63 (15.9)
	1/4	6	-JBU-AN4	2.07 (52.6)	0.17 (4.4)	0.69 (17.5)
	5/16	8	-JBU-AN5	2.07 (52.6)	0.24 (6.0)	0.75 (19.1)
	3/8	10	-JBU-AN6	2.18 (55.4)	0.30 (7.5)	0.81 (20.6)
	1/2	12	-JBU-AN8	2.44 (62.0)	0.39 (9.9)	1.00 (25.4)
	5/8	16	-JBU-AN10	2.74 (69.6)	0.48 (12.3)	1.13 (28.6)
	3/4	18	-JBU-AN12	3.09 (78.5)	0.61 (15.5)	1.37 (34.9)
	7/8	22	-JBU-AN14	3.12 (79.2)	0.72 (18.3)	1.50 (38.1)
	1	25	-JBU-AN16	3.14 (79.8)	0.85 (21.5)	1.63 (41.3)
	1 1/4	32	-JBU-AN20	3.31 (84.1)	1.08 (27.5)	1.87 (47.6)
	1 1/2	38	-JBU-AN24	3.52 (89.4)	1.30 (33.0)	2.13 (54.0)
	2	50	-JBU-AN32	4.20 (106.7)	1.77 (45.0)	2.75 (69.9)

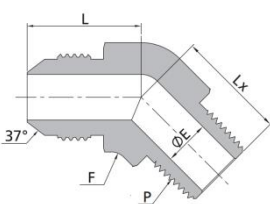
Male Elbows-NPT

	T-Tube O.D		P-NPT	Basic Ordering	Dimension, in. (mm)			
	In.	mm	Size	Number	L	E	F (Flat)	Lx
	1/8	3	1/8	-JME-AN2-MN2	0.77 (19.6)	0.06(1.6)	0.44(11.1)	0.72 (18.3)
	3/16	4	1/8	-JME-AN3-MN2	0.83 (21.1)	0.13(3.2)	0.44(11.1)	0.72(18.3)
	1/4	6	1/8	-JME-AN4-MN2	0.89 (22.6)	0.17(4.4)	0.50(12.7)	0.78 (19.8)
	1/4	6	1/4	-JME-AN4-MN4	1.06 (26.9)	0.17(4.4)	0.56(14.3)	1.09 (27.7)
	5/16	8	1/8	-JME-AN5-MN2	0.95 (24.1)	0.19(4.8)	0.56(14.3)	0.78 (19.8)
	5/16	8	1/4	-JME-AN5-MN4	1.06 (26.9)	0.24(6.0)	0.56(14.3)	1.09 (27.7)
	3/8	10	1/8	-JME-AN6-MN2	1.06 (26.9)	0.19(4.8)	0.56(14.3)	0.90 (22.8)
	3/8	10	1/4	-JME-AN6-MN4	1.06 (26.9)	0.28(7.1)	0.56(14.3)	1.09 (27.7)
	3/8	10	3/8	-JME-AN6-MN6	1.14 (29.0)	0.30(7.5)	0.69(17.5)	1.22 (31.0)
	3/8	10	1/2	-JME-AN6-MN8	1.23 (31.2)	0.30(7.5)	0.81(20.6)	1.47 (37.3)
	1/2	12	1/4	-JME-AN8-MN4	1.25 (31.8)	0.28(7.1)	0.81(20.6)	1.22 (31.0)
	1/2	12	3/8	-JME-AN8-MN6	1.25 (31.8)	0.39(9.9)	0.81(20.6)	1.22 (31.0)
	1/2	12	1/2	-JME-AN8-MN8	1.33 (33.7)	0.39(9.9)	0.81(20.6)	1.47 (37.3)
	1/2	12	3/4	-JME-AN8-MN12	1.42 (36.0)	0.35(9.0)	1.00(25.4)	1.59(40.4)
	5/8	16	3/8	-JME-AN10-MN6	1.45 (36.8)	0.39(9.9)	0.81(20.6)	1.30 (33.0)
	5/8	16	1/2	-JME-AN10-MN8	1.45 (36.8)	0.48(12.3)	0.81(20.6)	1.47 (37.3)
	5/8	16	3/4	-JME-AN10-MN12	1.53 (38.9)	0.48(12.3)	1.00(25.4)	1.59(40.4)
	3/4	18	3/4	-JME-AN12-MN12	1.66 (42.2)	0.61(15.5)	1.06(27.0)	1.59(40.4)
	3/4	18	1	-JME-AN12-MN16	1.66 (42.2)	0.61(15.5)	1.25(31.8)	1.98(50.4)
	7/8	22	3/4	-JME-AN14-MN12	1.80 (45.7)	0.72(18.3)	1.25(31.8)	1.69(42.9)
	1	25	3/4	-JME-AN16-MN12	1.81 (46.0)	0.72(18.3)	1.37(34.9)	1.78(45.2)
	1	25	1	-JME-AN16-MN16	1.81 (46.0)	0.85(21.5)	1.37 (34.9)	1.97 (50.0)
	1 1/4	32	1	-JME-AN20-MN16	2.06 (52.3)	0.94(23.8)	1.69(42.9)	2.35 (59.6)
	1 1/4	32	1 1/4	-JME-AN20-MN20	2.06 (52.3)	1.08(27.5)	1.69(42.9)	2.38 (60.5)
	1 1/2	38	1 1/2	-JME-AN24-MN24	2.33 (59.2)	1.30(33.0)	2.00(50.8)	2.64 (67.1)
	2	50	2	-JME-AN32-MN32	3.06 (77.7)	1.77 (45.0)	2.50(63.5)	3.00 (76.2)

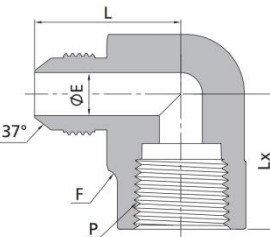
Adjustable Male Elbows-SAE

	T-Tube O.D		P-SAE	Basic	Dimension, in. (mm)				
	In.	mm	Thread Size	Ordering Number	L	E	F (Flat)	Lx	B
	1/8	3	5/16-24	-AME-AN2-ST5	0.77(19.6)	0.06(1.6)	0.44(11.1)	0.94(23.9)	0.33 (8.4)
	3/16	4	3/8-24	-AME-AN3-ST6	0.83(21.1)	0.13(3.2)	0.44(11.1)	0.94(23.9)	0.33 (8.4)
	1/4	6	7/16-20	-AME-AN4-ST7	0.89(22.6)	0.17(4.4)	0.50(12.7)	1.03(26.2)	0.39 (9.8)
	5/16	8	1/2-20	-AME-AN5-ST8	0.95(24.1)	0.24(6.0)	0.56(14.3)	1.13(28.7)	0.39 (9.8)
	3/8	10	9/16-18	-AME-AN6-ST9	1.06(26.9)	0.30(7.5)	0.63(15.9)	1.25(31.8)	0.43(11.0)
	1/2	12	3/4-16	-AME-AN8-ST12	1.25(31.8)	0.39(9.9)	0.81(20.6)	1.45(36.8)	0.49 (12.5)
	5/8	16	7/8-14	-AME-AN10-ST14	1.45(36.8)	0.48(12.3)	0.94(23.8)	1.70(43.2)	0.56 (14.2)
	3/4	18	1 1/16-12	-AME-AN12-ST17	1.66(42.2)	0.61(15.5)	1.25(31.8)	1.94(49.3)	0.65 (16.5)
	7/8	22	1 3/16-12	-AME-AN14ST19	1.80(45.7)	0.72(18.3)	1.25(31.8)	2.00(50.8)	0.65 (16.5)
	1	25	1 5/16-12	-AME-AN16-ST21	1.81(46.0)	0.85(21.5)	1.37(34.9)	2.05(52.1)	0.65 (16.5)
	1 1/4	32	1 5/8-12	-AME-AN20ST26	2.06(52.3)	1.08(27.5)	1.69(42.9)	2.25(57.2)	0.65 (16.5)
	1 1/2	38	1 7/8-12	-AME-AN24-ST30	2.33(59.2)	1.30(33.0)	2.00(50.8)	2.39(60.7)	0.65 (16.5)
	2	50	2 1/2-12	-AME-AN32-ST40	3.06(77.7)	1.77(45.0)	2.50(63.5)	2.89(73.4)	0.65 (16.5)

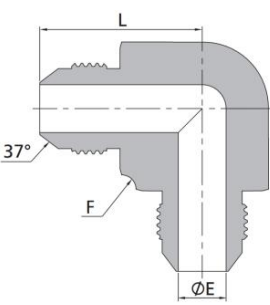
45° Male Elbows-NPT

	T-Tube O.D		P-NPT	Basic Ordering	Dimension, in. (mm)			
	In.	mm	Size	Number	L	E	F (Flat)	Lx
	1/8	3	1/8	-JMV-AN2-MN2	0.69 (17.5)	0.06 (1.6)	0.44 (11.1)	0.52 (13.2)
	3/16	4	1/8	-JMV-AN3-MN2	0.69 (17.5)	0.13 (3.2)	0.44 (11.1)	0.52 (13.2)
	1/4	6	1/8	-JMV-AN4-MN2	0.72 (18.3)	0.17 (4.4)	0.50 (12.7)	0.64 (16.3)
	5/16	8	1/8	-JMV-AN5-MN2	0.77 (19.6)	0.19 (4.8)	0.56 (14.3)	0.64 (16.3)
	3/8	10	1/4	-JMV-AN6-MN4	0.83 (21.1)	0.28 (7.1)	0.56 (14.3)	0.86 (21.8)
	1/2	12	3/8	-JMV-AN8-MN6	0.98 (24.9)	0.39 (9.9)	0.69 (17.5)	0.95 (24.1)
	5/8	16	1/2	-JMV-AN10-MN8	1.11 (28.2)	0.48 (12.3)	0.81 (20.6)	1.17 (29.7)
	3/4	18	3/4	-JMV-AN12-MN12	1.28 (32.5)	0.61 (15.5)	1.06 (27.0)	1.20 (30.5)
	7/8	22	3/4	-JMV-AN14-MN12	1.45 (36.8)	0.72 (18.3)	1.25 (31.8)	1.30 (33.0)
	1	25	1	-JMV-AN16-MN16	1.47 (37.3)	0.85 (21.5)	1.37 (34.9)	1.48 (37.6)
	1 1/4	32	1 1/4	-JMV-AN20-MN20	1.59 (40.4)	1.08 (27.5)	1.69 (42.9)	1.67 (42.4)
	1 1/2	38	1 1/2	-JMV-AN24-MN24	1.78 (45.2)	1.30(33.0)	2.00 (50.8)	1.77 (45.0)
	2	50	2	-JMV-AN32-MN32	2.22 (56.4)	1.77 (45.0)	2.50 (63.5)	2.11 (53.6)

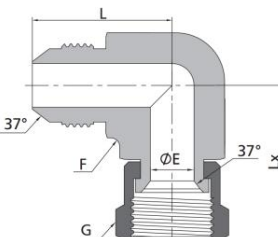
Female Elbows -NPT

	T-Tube O.D		P-NPT	Basic Ordering	Dimension, in. (mm)			
	In.	mm	Size	Number	L	E	F (Flat)	Lx
	1/8	3	1/8	-JFE-AN2-FN2	1.00(25.4)	0.06 (1.6)	0.56 (14.3)	0.66(16.8)
	3/16	4	1/8	-JFE-AN3-FN2	1.03(26.2)	0.13(3.2)	0.56 (14.3)	0.66(16.8)
	1/4	6	1/8	-JFE-AN4-FN2	1.08 (27.4)	0.17 (4.4)	0.56 (14.3)	0.66(16.8)
	1/4	6	1/4	-JFE-AN4-FN4	1.22 (30.9)	0.17 (4.4)	0.81 (20.6)	0.88(22.4)
	5/16	8	1/8	-JFE-AN5-FN2	1.08 (27.4)	0.24 (6.0)	0.56 (14.3)	0.66(16.8)
	5/16	8	1/4	-JFE-AN5-FN4	1.22 (30.9)	0.24 (6.0)	0.81 (20.6)	0.88(22.4)
	3/8	10	1/8	-JFE-AN6-FN2	1.06 (26.9)	0.30 (7.5)	0.63 (15.9)	0.66 (16.8)
	3/8	10	1/4	-JFE-AN6-FN4	1.23 (31.2)	0.30 (7.5)	0.81 (20.6)	0.88(22.4)
	3/8	10	3/8	-JFE-AN6-FN6	1.31 (33.2)	0.30 (7.5)	0.94(23.8)	1.02(25.9)
	1/2	12	1/4	-JFE-AN8-FN4	1.24(31.6)	0.39 (9.9)	0.81 (20.6)	0.88 (22.4)
	1/2	12	3/8	-JFE-AN8-FN6	1.42 (36.1)	0.39 (9.9)	0.94 (23.8)	1.02 (25.9)
	1/2	12	1/2	-JFE-AN8-FN8	1.42 (36.1)	0.39 (9.9)	1.06 (27.0)	1.23 (31.2)
	5/8	16	1/2	-JFE-AN10-FN8	1.64 (41.7)	0.48(12.3)	1.06(27.0)	1.23(31.2)
	3/4	18	1/2	-JFE-AN12-FN8	1.66(42.1)	0.61(15.5)	1.25 (31.8)	1.23 (31.2)
	3/4	18	3/4	-JFE-AN12-FN12	1.89 (48.0)	0.61(15.5)	1.37 (34.9)	1.36 (34.5)
	7/8	22	3/4	-JFE-AN14-FN12	1.86(47.2)	0.72(18.3)	1.37 (34.9)	1.42 (36.1)
	1	25	1	-JFE-AN16-FN16	2.17 (55.1)	0.85(21.5)	1.69 (42.9)	1.62 (41.1)
	1 1/4	32	1 1/4	-JFE-AN20-FN20	2.33(59.2)	1.08(27.5)	2.00 (50.8)	1.70 (43.2)
	1 1/2	38	1 1/2	-JFE-AN24-FN24	2.89 (73.4)	1.30(33.0)	2.50 (63.5)	2.08 (52.8)
	2	50	2	-JFE-AN32-FN32	3.30 (83.8)	1.77(45.0)	2.50 (63.5)	2.39 (60.7)

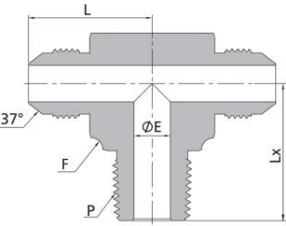
Union Elbows

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Flat)
	1/8	3	-JUE-AN2	0.77 (19.6)	0.06 (1.6)	0.44 (11.1)
	3/16	4	-JUE-AN3	0.83 (21.1)	0.13 (3.2)	0.44 (11.1)
	1/4	6	-JUE-AN4	0.89 (22.6)	0.17 (4.4)	0.50 (12.7)
	5/16	8	-JUE-AN5	0.95 (24.1)	0.24 (6.0)	0.56 (14.3)
	3/8	10	-JUE-AN6	1.06 (26.9)	0.30 (7.5)	0.56 (14.3)
	1/2	12	-JUE-AN8	1.25 (31.8)	0.39 (9.9)	0.81 (20.6)
	5/8	16	-JUE-AN10	1.45 (36.8)	0.48 (12.3)	0.81 (20.6)
	3/4	18	-JUE-AN12	1.66 (42.2)	0.61 (15.5)	1.06 (27.0)
	7/8	22	-JUE-AN14	1.80 (45.7)	0.72 (18.3)	1.25 (31.8)
	1	25	-JUE-AN16	1.81 (46.0)	0.85 (21.5)	1.37 (34.9)
	1 1/4	32	-JUE-AN20	2.06 (52.3)	1.08 (27.5)	1.69 (42.9)
	1 1/2	38	-JUE-AN24	2.33 (59.2)	1.30 (33.0)	2.00 (50.8)
	2	50	-JUE-AN32	3.06 (77.7)	1.77 (45.0)	2.50 (63.5)

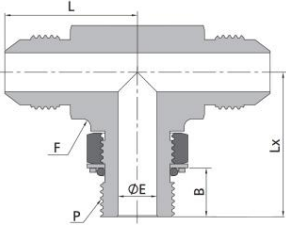
Union Swivel Elbows

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)				
	in.	m		L	E	F (Flat)	Lx	G (Hex)
	1/8	3	-USE-AN2-AS2	0.77(19.6)	0.06(1.6)	0.44(11.1)	0.97(24.6)	0.44(11.1)
	3/16	4	-USE-AN3-AS3	0.83(19.6)	0.13(3.2)	0.44(11.1)	1.00(25.4)	0.50(12.7)
	1/4	6	-USE-AN4-AS4	0.89(22.6)	0.17(4.4)	0.50(12.7)	1.00(25.4)	0.56(14.3)
	5/16	8	-USE-AN5-AS5	0.95(24.1)	0.24(6.0)	0.56(14.3)	1.06(26.9)	0.63(15.9)
	3/8	10	-USE-AN6-AS5	1.06(26.9)	0.30(7.5)	0.56(14.3)	1.25(31.8)	0.69(17.5)
	1/2	12	-USE-AN8-AS8	1.25(31.8)	0.39(9.9)	0.81(20.6)	1.38(35.1)	0.87(22.2)
	5/8	16	-USE-AN10-AS10	1.45(36.8)	0.48(12.3)	0.81(20.6)	1.62(41.1)	1.00(25.4)
	3/4	18	-USE-AN12-AS12	1.66(42.2)	0.61(15.5)	1.06(26.9)	1.75(44.4)	1.25(31.8)
	7/8	22	-USE-AN14-AS14	1.80(45.7)	0.72(18.3)	1.25(31.8)	1.78(45.2)	1.06(26.9)
	1	25	-USE-AN16-AS16	1.81(46.0)	0.85(21.5)	1.37(34.9)	2.00(50.8)	1.50(38.1)
	1 1/4	32	-USE-AN20-AS20	2.06(52.3)	1.08(27.5)	1.69(42.9)	2.31(58.7)	2.00(50.8)
	1 1/2	38	-USE-AN24-AS24	2.33(59.2)	1.30(33.0)	2.00(50.8)	2.59(65.8)	2.37(60.3)
	2	50	-USE-AN32-AS32	3.06(77.7)	1.77(45.0)	2.50(63.5)	3.38(85.9)	2.87(73.0)

Male Branch Tee -NPT

	T-Tube O.D		P-NPT	Basic Ordering	Dimension, in. (mm)			
	In.	mm	Size	Number	L	E	F (Flat)	Lx
	1/8	3	1/8	-MBT-AN2-MN2	0.77 (19.6)	0.06 (1.6)	0.44 (11.1)	0.72 (18.3)
	3/16	4	1/8	-MBT-AN3-MN2	0.83 (21.1)	0.13 (3.2)	0.44 (11.1)	0.72 (18.3)
	1/4	6	1/8	MBT-AN4-MN2	0.89 (22.6)	0.17 (4.4)	0.50 (12.7)	0.78 (19.8)
	1/4	6	1/4	-MBT-AN4-MN4	1.06 (26.9)	0.17 (4.4)	0.56 (14.3)	1.09 (27.7)
	5/16	8	1/8	-MBT-AN5-MN2	0.95 (24.1)	0.19 (4.8)	0.56 (14.3)	0.78 (19.8)
	5/16	8	1/4	-MBT-AN5-MN4	1.06 (26.9)	0.24 (6.0)	0.56 (14.3)	1.09 (27.7)
	3/8	10	1/8	-MBT-AN6-MN2	1.06 (26.9)	0.19 (4.8)	0.56 (14.3)	0.90 (22.8)
	3/8	10	1/4	-MBT-AN6-MN4	1.06 (26.9)	0.28 (7.1)	0.56 (14.3)	1.09 (27.7)
	3/8	10	3/8	-MBT-AN6-MN6	1.14 (29.0)	0.30 (7.5)	0.69 (17.5)	1.22 (31.0)
	3/8	10	1/2	-MBT-AN6-MN8	1.23 (31.2)	0.30 (7.5)	0.81 (20.6)	1.47 (37.3)
	1/2	12	1/4	-MBT-AN8-MN4	1.25 (31.8)	0.28 (7.1)	0.81 (20.6)	1.22 (31.0)
	1/2	12	3/8	-MBT-AN8-MN6	1.25 (31.8)	0.39 (9.9)	0.81 (20.6)	1.22 (31.0)
	1/2	12	1/2	-MBT-AN8-MN8	1.33 (33.7)	0.39 (9.9)	0.81 (20.6)	1.47 (37.3)
	1/2	12	3/4	-MBT-AN8-MN12	1.42 (36.0)	0.39 (9.9)	1.00 (25.4)	1.59 (40.4)
	5/8	16	3/8	-MBT-AN10-MN6	1.45 (36.8)	0.39 (9.9)	0.81 (20.6)	1.30 (33.0)
	5/8	16	1/2	-MBT-AN10-MN8	1.45 (36.8)	0.48 (12.3)	0.81 (20.6)	1.47 (37.3)
	5/8	16	3/4	-MBT-AN10-MN12	1.53 (38.9)	0.48 (12.3)	1.00 (25.4)	1.59 (40.4)
	3/4	18	3/4	-MBT-AN12-MN12	1.66 (42.2)	0.61 (15.5)	1.06 (27.0)	1.59 (40.4)
	3/4	18	1	-MBT-AN12-MN16	1.66 (42.2)	0.61 (15.5)	1.25 (31.8)	1.98 (50.4)
	7/8	22	3/4	-MBT-AN14-MN12	1.80 (45.7)	0.72 (18.3)	1.25 (31.8)	1.69 (42.9)
	1	25	3/4	-MBT-AN16-MN12	1.81 (46.0)	0.72 (18.3)	1.37 (34.9)	1.78 (45.2)
	1	25	1	MBT-AN16-MN16	1.81 (46.0)	0.85 (21.5)	1.37 (34.9)	1.97 (50.0)
	1 1/4	32	1	MBT-AN20-MN16	2.06 (52.3)	0.94 (23.8)	1.69 (42.9)	2.35 (59.6)
	1 1/4	32	1 1/4	MBT-AN20-MN20	2.06 (52.3)	1.08 (27.5)	1.69 (42.9)	2.38 (60.5)
	1 1/2	38	1 1/2	MBT-AN24-MN24	2.33 (59.2)	1.30 (33.0)	2.00 (50.8)	2.64 (67.1)
	2	50	2	MBT-AN32-MN32	3.06 (77.7)	1.77 (45.0)	2.50 (63.5)	3.00 (76.2)

Adjustable Male Branch Tees

	T-Tube O.D		P-SAE Thread Size	Basic Ordering Number	Dimension, in. (mm)				
	In.	mm			L	E	F (Flat)	Lx	B
	1/8	3	5/16-24	-AMB-AN2-ST5	0.77(19.6)	0.06(1.6)	0.44(11.1)	0.94(23.9)	0.33 (8.4)
	3/16	4	3/8-24	-AMB-AN3-ST6	0.83(21.1)	0.13(3.2)	0.44(11.1)	0.94(23.9)	0.33 (8.4)
	1/4	6	7/16-20	-AMB-AN4-ST7	0.89(22.6)	0.17(4.4)	0.50(12.7)	1.03(26.2)	0.39 (9.8)
	5/16	8	1/2-20	-AMB-AN5-ST8	0.95(24.1)	0.24(6.0)	0.56(14.3)	1.13(28.7)	0.39 (9.8)
	3/8	10	9/16-18	-AMB-AN6-ST9	1.06(26.9)	0.30(7.5)	0.63(15.9)	1.25(31.8)	0.43(11.0)
	1/2	12	3/4-16	-AMB-AN8-ST12	1.25(31.8)	0.39(9.9)	0.81(20.6)	1.45(36.8)	0.49 (12.5)
	5/8	16	7/8-14	-AMB-AN10-ST14	1.45(36.8)	0.48(12.3)	0.94(23.8)	1.70(43.2)	0.56 (14.2)
	3/4	18	1 1/16-12	-AMB-AN12-ST17	1.66(42.2)	0.61(15.5)	1.25(31.8)	1.94(49.3)	0.65 (16.5)
	7/8	22	1 3/16-12	-AMB-AN14-ST19	1.80(45.7)	0.72(18.3)	1.25(31.8)	2.00(50.8)	0.65 (16.5)
	1	25	1 5/16-12	-AMB-AN16-ST21	1.81(46.0)	0.85(21.5)	1.37(34.9)	2.05(52.1)	0.65 (16.5)
	1 1/4	32	1 5/8-12	-AMB-AN20-ST26	2.06(52.3)	1.08(27.5)	1.69(42.9)	2.25(57.2)	0.65 (16.5)
	1 1/2	38	1 7/8-12	-AME-AN24-ST30	2.33(59.2)	1.30(33.0)	2.00(50.8)	2.39(60.7)	0.65 (16.5)
	2	50	2 1/2-12	-AME-AN32-ST40	3.06(77.7)	1.77(45.0)	2.50(63.5)	2.89(73.4)	0.65 (16.5)

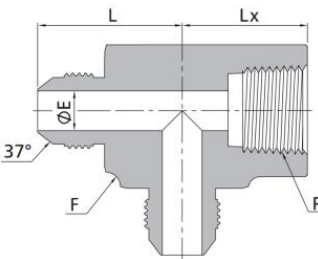
Male Run Tees

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)			
	In.	mm			L	E	F (Flat)	Lx
	1/8	3	1/8	-MRT-AN2-MN2	0.77 (19.6)	0.06 (1.6)	0.44 (11.1)	0.72(18.3)
	3/16	4	1/8	-MRT-AN3-MN2	0.83 (21.1)	0.13 (3.2)	0.44 (11.1)	0.72(18.3)
	1/4	6	1/8	-MRT-AN4-MN2	0.89 (22.6)	0.17 (4.4)	0.50 (12.7)	0.78(19.8)
	1/4	6	1/4	-MRT-AN4-MN4	1.06 (26.9)	0.17 (4.4)	0.56 (14.3)	1.09(27.7)
	5/16	8	1/8	-MRT-AN5-MN2	0.95 (24.1)	0.19 (4.8)	0.56 (14.3)	0.78(19.8)
	5/16	8	1/4	-MRT-AN5-MN4	1.06 (26.9)	0.24 (6.0)	0.56 (14.3)	1.09(27.7)
	3/8	10	1/8	-MRT-AN6-MN2	1.06 (26.9)	0.19 (4.8)	0.56 (14.3)	0.90(22.8)
	3/8	10	1/4	-MRT-AN6-MN4	1.06 (26.9)	0.28 (7.1)	0.56 (14.3)	1.09(27.7)
	3/8	10	3/8	-MRT-AN6-MN6	1.14 (29.0)	0.30 (7.5)	0.69 (17.5)	1.22(31.0)
	3/8	10	1/2	-MRT-AN6-MN8	1.23 (31.2)	0.30 (7.5)	0.81 (20.6)	1.47(37.3)
	1/2	12	1/4	-MRT-AN8-MN4	1.25 (31.8)	0.28 (7.1)	0.81 (20.6)	1.22(31.0)
	1/2	12	3/8	-MRT-AN8-MN6	1.25 (31.8)	0.39 (9.9)	0.81 (20.6)	1.22(31.0)
	1/2	12	1/2	-MRT-AN8-MN8	1.33 (33.7)	0.39 (9.9)	0.81 (20.6)	1.47(37.3)
	1/2	12	3/4	-MRT-AN8-MN12	1.42 (36.0)	0.39 (9.9)	1.00 (25.4)	1.59 (40.4)
	5/8	16	3/8	-MRT-AN10-MN6	1.45 (36.8)	0.39 (9.9)	0.81 (20.6)	1.30(33.0)
	5/8	16	1/2	-MRT-AN10-MN8	1.45 (36.8)	0.48(12.3)	0.81 (20.6)	1.47(37.3)
	5/8	16	3/4	-MRT-AN10-MN12	1.53 (38.9)	0.48(12.3)	1.00 (25.4)	1.59(40.4)
	3/4	18	3/4	-MRT-AN12-MN12	1.66 (42.2)	0.61(15.5)	1.06 (27.0)	1.59(40.4)
	3/4	18	1	-MRT-AN12-MN16	1.66 (42.2)	0.61(15.5)	1.25 (31.8)	1.98(50.4)
	7/8	22	3/4	-MRT-AN14-MN12	1.80 (45.7)	0.72(18.3)	1.25 (31.8)	1.69(42.9)
	1	25	3/4	-MRT-AN16-MN12	1.81 (46.0)	0.72 (18.3)	1.37 (34.9)	1.78(45.2)
	1	25	1	-MRT-AN16-MN16	1.81 (46.0)	0.85 (21.5)	1.37 (34.9)	1.97(50.0)
	1 1/4	32	1	-MRT-AN20-MN16	2.06 (52.3)	0.94 (23.8)	1.69 (42.9)	2.35(59.6)
	1 1/4	32	1 1/4	-MRT-AN20-MN20	2.06 (52.3)	1.08 (27.5)	1.69 (42.9)	2.38(60.5)
	1 1/2	38	1 1/2	-MRT-AN24-MN24	2.33 (59.2)	1.30 (33.0)	2.00 (50.8)	2.64(67.1)
	2	50	2	-MRT-AN32-MN32	3.06 (77.7)	1.77 (45.0)	2.50 (63.5)	3.00(76.2)

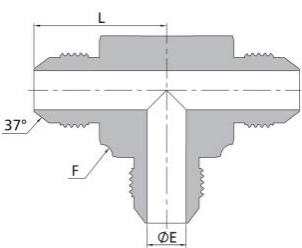
Female Branch Tees

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)			
	In.	mm			L	E	F (Flat)	Lx
	1/8	3	1/8	-FBT-AN2-FN2	1.00 (25.4)	0.06 (1.6)	0.56 (14.3)	0.66 (16.8)
	3/16	4	1/8	-FBT-AN3-FN2	1.03 (26.2)	0.13 (3.2)	0.56 (14.3)	0.66 (16.8)
	1/4	6	1/8	-FBT-AN4-FN2	1.08 (27.4)	0.17 (4.4)	0.56 (14.3)	0.66 (16.8)
	1/4	6	1/4	-FBT-AN4-FN4	1.22 (30.9)	0.17 (4.4)	0.81 (20.6)	0.88 (22.4)
	5/16	8	1/8	-FBT-AN5-FN2	1.08 (27.4)	0.24 (6.0)	0.56 (14.3)	0.66 (16.8)
	5/16	8	1/4	-FBT-AN5-FN4	1.22 (30.9)	0.24 (6.0)	0.81 (20.6)	0.88 (22.4)
	3/8	10	1/8	-FBT-AN6-FN2	1.06 (26.9)	0.30 (7.5)	0.63 (15.9)	0.66 (16.8)
	3/8	10	1/4	-FBT-AN6-FN4	1.23 (31.2)	0.30 (7.5)	0.81 (20.6)	0.88 (22.4)
	3/8	10	3/8	-FBT-AN6-FN6	1.31 (33.2)	0.30 (7.5)	0.94 (23.8)	1.02 (25.9)
	1/2	12	1/4	-FBT-AN8-FN4	1.24 (31.6)	0.39 (9.9)	0.81 (20.6)	0.88 (22.4)
	1/2	12	3/8	-FBT-AN8-FN6	1.42 (36.1)	0.39 (9.9)	0.94 (23.8)	1.02 (25.9)
	1/2	12	1/2	-FBT-AN8-FN8	1.42 (36.1)	0.39 (9.9)	1.06 (27.0)	1.23 (31.2)
	5/8	16	1/2	-FBT-AN10-FN8	1.64 (41.7)	0.48 (12.3)	1.06 (27.0)	1.23 (31.2)
	3/4	18	1/2	-FBT-AN12-FN8	1.66 (42.1)	0.61 (15.5)	1.25 (31.8)	1.23 (31.2)
	3/4	18	3/4	-FBT-AN12-FN12	1.89 (48.0)	0.61 (15.5)	1.37 (34.9)	1.36 (34.5)
	7/8	22	3/4	-FBT-AN14-FN12	1.86 (47.2)	0.72 (18.3)	1.37 (34.9)	1.42 (36.1)
	1	25	1	-FBT-AN16-FN16	2.17 (55.1)	0.85 (21.5)	1.69 (42.9)	1.62 (41.1)
	1 1/4	32	1 1/4	-FBT-A20-FN20	2.33 (59.2)	1.08 (27.5)	2.00 (50.8)	1.70 (43.2)
	1 1/2	38	1 1/2	-FBT-AN24-FN24	2.89 (73.4)	1.30(33.0)	2.50 (63.5)	2.08 (52.8)
	2	50	2	-FBT-AN32-FN32	3.30 (83.8)	1.77(45.0)	2.50 (63.5)	2.39 (60.7)

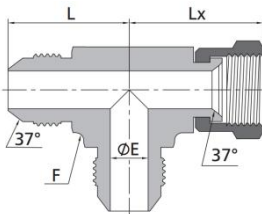
Female Run Tees

	T-Tube O.D		P-NPT Size	Basic Ordering Number	Dimension, in. (mm)			
	In.	mm			L	E	F (Flat)	Lx
1/8	3	3	1/8	-FRT-AN2-FN2	1.00 (25.4)	0.06 (1.6)	0.56 (14.3)	0.66(16.8)
3/16	4	4	1/8	-FRT-AN3-FN2	1.03 (26.2)	0.13 (3.2)	0.56 (14.3)	0.66(16.8)
1/4	6	6	1/8	-FRT-AN4-FN2	1.08 (27.4)	0.17 (4.4)	0.56 (14.3)	0.66(16.8)
1/4	6	6	1/4	-FRT-AN4-FN4	1.22 (30.9)	0.17 (4.4)	0.81 (20.6)	0.88(22.4)
5/16	8	8	1/8	-FRT-AN5-FN2	1.08 (27.4)	0.24 (6.0)	0.56 (14.3)	0.66(16.8)
5/16	8	8	1/4	-FRT-AN5-FN4	1.22 (30.9)	0.24 (6.0)	0.81 (20.6)	0.88(22.4)
3/8	10	10	1/8	-FRT-AN6-FN2	1.06 (26.9)	0.30 (7.5)	0.63 (15.9)	0.66 (16.8)
3/8	10	10	1/4	-FRT-AN6-FN4	1.23 (31.2)	0.30 (7.5)	0.81 (20.6)	0.88 (22.4)
3/8	10	10	3/8	-FRT-AN6-FN6	1.31 (33.2)	0.30 (7.5)	0.94 (23.8)	1.02 (25.9)
1/2	12	12	1/4	-FRT-AN8-FN4	1.24 (31.6)	0.39 (9.9)	0.81 (20.6)	0.88 (22.4)
1/2	12	12	3/8	-FRT-AN8-FN6	1.42 (36.1)	0.39 (9.9)	0.94 (23.8)	1.02 (25.9)
1/2	12	12	1/2	-FRT-AN8-FN8	1.42 (36.1)	0.39 (9.9)	1.06 (27.0)	1.23 (31.2)
5/8	16	16	1/2	-FRT-AN10-FN8	1.64 (41.7)	0.48 (12.3)	1.06 (27.0)	1.23 (31.2)
3/4	18	18	1/2	-FRT-AN12-FN8	1.66 (42.1)	0.61 (15.5)	1.25 (31.8)	1.23 (31.2)
3/4	18	18	3/4	-FRT-AN12-FN12	1.89 (48.0)	0.61 (15.5)	1.37 (34.9)	1.36 (34.5)
7/8	22	22	3/4	-FRT-AN14-FN12	1.86 (47.2)	0.72 (18.3)	1.37 (34.9)	1.42 (36.1)
1	25	25	1	-FRT-AN16-FN16	2.17 (55.1)	0.85 (21.5)	1.69 (42.9)	1.62 (41.1)
1 1/4	32	32	1 1/4	-FRT-A20-FN20	2.33 (59.2)	1.08 (27.5)	2.00 (50.8)	1.70 (43.2)
1 1/2	38	38	1 1/2	-FRT-AN24-FN24	2.89 (73.4)	1.30(33.0)	2.50 (63.5)	2.08(52.8)
2	50	50	2	-FRT-AN32-FN32	3.30 (83.8)	1.77(45.0)	2.50 (63.5)	2.39(60.7)

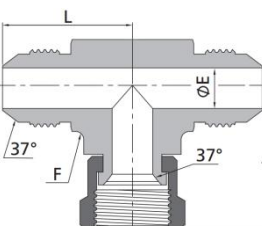
Union Tees

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Flat)
1/8	3	3	-JUT-AN2	0.77 (19.6)	0.06 (1.6)	0.44 (11.1)
3/16	4	4	-JUT-AN3	0.83 (21.1)	0.13 (3.2)	0.44 (11.1)
1/4	6	6	-JUT-AN4	0.89 (22.6)	0.17 (4.4)	0.50 (12.7)
5/16	8	8	-JUT-AN5	0.95 (24.1)	0.24 (6.0)	0.56 (14.3)
3/8	10	10	-JUT-AN6	1.06 (26.9)	0.30 (7.5)	0.56 (14.3)
1/2	12	12	-JUT-AN8	1.25 (31.8)	0.39 (9.9)	0.81 (20.6)
5/8	16	16	-JUT-AN10	1.45 (36.8)	0.48 (12.3)	0.81 (20.6)
3/4	18	18	-JUT-AN12	1.66 (42.2)	0.61 (15.5)	1.06 (27.0)
7/8	22	22	-JUT-AN14	1.80 (45.7)	0.72 (18.3)	1.25 (31.8)
1	25	25	-JUT-AN16	1.81 (46.0)	0.85 (21.5)	1.37 (34.9)
1 1/4	32	32	-JUT-AN20	2.06 (52.3)	1.08 (27.5)	1.69 (42.9)
1 1/2	38	38	-JUT-AN24	2.33 (59.2)	1.30 (33.0)	2.00 (50.8)
2	50	50	-JUT-AN32	3.06 (77.7)	1.77 (45.0)	2.50 (63.5)

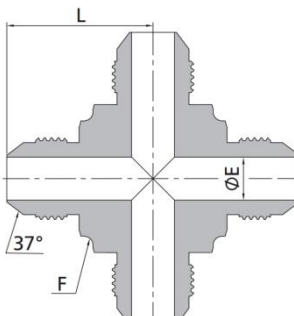
Union Run Tee

	T-Tube O.D		Basic Ordering Number	Dimension, in. (mm)			
	In.	mm		L	E	F (Flat)	Lx
	1/8	3	-URT-AN2-AS2- AN2	0.77(19.6)	0.06(1.6)	0.44(11.1)	0.97(24.6)
	3/16	4	-URT-AN3-AS3-AN3	0.83(21.1)	0.13 (3.2)	0.44(11.1)	1.00(25.4)
	1/4	6	-URT-AN4-AS4-AN4	0.89(22.6)	0.17 (4.4)	0.50(12.7)	1.00(25.4)
	5/16	8	-URT-AN5-AS5-AN5	0.95(24.1)	0.24 (6.0)	0.56(14.3)	1.06(26.9)
	3/8	10	-URT-AN6-AS6-AN6	1.06(26.9)	0.30 (7.5)	0.56(14.3)	1.25(31.8)
	1/2	12	-URT-AN8-AS8-AN8	1.25(31.8)	0.39(9.9)	0.81(20.6)	1.38(35.1)
	5/8	16	-URT-AN10-AS10-AN10	1.45(36.8)	0.48(12.3)	0.81(20.6)	1.62(41.1)
	3/4	18	-URT-AN12-AS12-AN12	1.66(42.2)	0.61(15.5)	1.06(27.0)	1.75(44.4)
	7/8	22	-URT-AN14-AS14-AN14	1.80(45.7)	0.72(18.3)	1.25(31.8)	1.78(45.2)
	1	25	-URT-AN16-AS16-AN16	1.81(46.0)	0.85(21.5)	1.37(34.9)	2.00(50.8)
	1 1/4	32	-URT-AN20-AS20-AN20	2.06(52.3)	1.08(27.5)	1.69(42.9)	2.31(58.7)
	1 1/2	38	-URT-AN24-AS24-AN24	2.33(59.2)	1.30(33.0)	2.00(50.8)	2.59(65.8)
	2	50	-URT-AN32-AS32-AN32	3.06(77.7)	1.77(45.0)	2.50(63.5)	3.38(85.9)

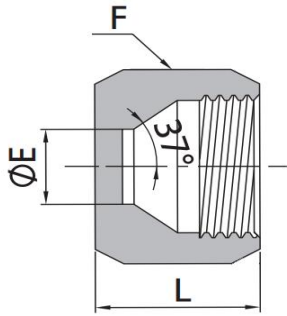
Union Branch Tee

	T-Tube O.D		Basic Ordering Number	Dimension, in. (mm)			
	In.	mm		L	E	F (Flat)	Lx
	1/8	3	-UBT-AN2-AN2- AS2	0.77(19.6)	0.06(1.6)	0.44(11.1)	0.97(24.6)
	3/16	4	-UBT-AN3-AN3-AS3	0.83(21.1)	0.13 (3.2)	0.44(11.1)	1.00(25.4)
	1/4	6	-UBT-AN4-AN4-AS4	0.89(22.6)	0.17 (4.4)	0.50(12.7)	1.00(25.4)
	5/16	8	-UBT-AN5-AN5-AS5	0.95(24.1)	0.24 (6.0)	0.56(14.3)	1.06(26.9)
	3/8	10	-UBT-AN6-AN6-AS6	1.06(26.9)	0.30 (7.5)	0.56(14.3)	1.25(31.8)
	1/2	12	-UBT-AN8-AN8-AS8	1.25(31.8)	0.39(9.9)	0.81(20.6)	1.38(35.1)
	5/8	16	-UBT-AN10-AN10-AS10	1.45(36.8)	0.48(12.3)	0.81(20.6)	1.62(41.1)
	3/4	18	-UBT-AN12-AN12-AS12	1.66(42.2)	0.61(15.5)	1.06(27.0)	1.75(44.4)
	7/8	22	-UBT-AN14-AN14-AS14	1.80(45.7)	0.72(18.3)	1.25(31.8)	1.78(45.2)
	1	25	-UBT-AN16-AN16-AS16	1.81(46.0)	0.85(21.5)	1.37(34.9)	2.00(50.8)
	1 1/4	32	-UBT-AN20-AN20-AS20	2.06(52.3)	1.08(27.5)	1.69(42.9)	2.31(58.7)
	1 1/2	38	-UBT-AN24-AN24-AS24	2.33(59.2)	1.30(33.0)	2.00(50.8)	2.59(65.8)
	2	50	-UBT-AN32-AN32-AS32	3.06(77.7)	1.77(45.0)	2.50(63.5)	3.38(85.9)

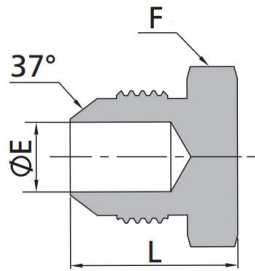
Union Crosses

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Flat)
	1/8	3	-JUC-AN2	0.77(19.6)	0.06(1.6)	0.44(11.1)
	3/16	4	-JUC-AN3	0.83(21.1)	0.13 (3.2)	0.44 (11.1)
	1/4	6	-JUC-AN4	0.89 (22.6)	0.17 (4.4)	0.50 (12.7)
	5/16	8	-JUC-AN5	0.95 (24.1)	0.24 (6.0)	0.56 (14.3)
	3/8	10	-JUC-AN6	1.06 (26.9)	0.30 (7.5)	0.56 (14.3)
	1/2	12	-JUC-AN8	1.25 (31.8)	0.39 (9.9)	0.81 (20.6)
	5/8	16	-JUC-AN10	1.45 (36.8)	0.48 (12.3)	0.81 (20.6)
	3/4	18	-JUC-AN12	1.66 (42.2)	0.61 (15.5)	1.06 (27.0)
	7/8	22	-JUC-AN14	1.80 (45.7)	0.72 (18.3)	1.25 (31.8)
	1	25	-JUC-AN16	1.81 (46.0)	0.85 (21.5)	1.37 (34.9)
	1 1/4	32	-JUC-AN20	2.06 (52.3)	1.08 (27.5)	1.69 (42.9)
	1 1/2	38	-JUC-AN24	2.33 (59.2)	1.30 (33.0)	2.00 (50.8)
	2	50	-JUC-AN32	3.06 (77.7)	1.77 (45.0)	2.50 (63.5)

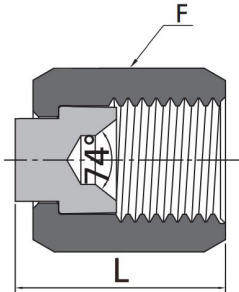
Tube Caps

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Hex)
	1/8	3	-JTC-AN2	0.50 (12.7)	0.06 (1.6)	0.37 (9.5)
	3/16	4	-JTC-AN3	0.56 (14.3)	0.13 (3.2)	0.44 (11.1)
	1/4	6	-JTC-AN4	0.59 (15.1)	0.17 (4.4)	0.56 (14.3)
	5/16	8	-JTC-AN5	0.61 (15.5)	0.24 (6.0)	0.63 (15.9)
	3/8	10	-JTC-AN6	0.63 (15.9)	0.30 (7.5)	0.69 (17.5)
	1/2	12	-JTC-AN8	0.75 (19.1)	0.39 (9.9)	0.87 (22.2)
	5/8	16	-JTC-AN10	0.84 (21.4)	0.48 (12.3)	1.00 (25.4)
	3/4	18	-JTC-AN12	0.91 (23.0)	0.61 (15.5)	1.25 (31.8)
	7/8	22	-JTC-AN14	0.97 (24.6)	0.72 (18.3)	1.37 (34.9)
	1	25	-JTC-AN16	1.02 (25.8)	0.85 (21.5)	1.50 (38.1)
	1 1/4	32	-JTC-AN20	1.06 (27.0)	1.08 (27.5)	2.00 (50.8)
	1 1/2	38	-JTC-AN24	1.19 (30.2)	1.30 (33.0)	2.25 (57.2)
	2	50	-JTC-AN32	1.44 (36.5)	1.77 (45.0)	2.87 (73.0)

Tube Plugs

	Tube O.D.		Basic Ordering Number	Dimensions, in. (mm)		
	in.	mm		L	E	F (Hex)
	1/8	3	-JTP-AN2	0.70 (17.8)	0.06 (1.6)	0.44 (11.1)
	3/16	4	-JTP-AN3	0.73 (18.5)	0.13 (3.2)	0.44 (11.1)
	1/4	6	-JTP-AN4	0.80 (20.3)	0.17 (4.4)	0.50 (12.7)
	5/16	8	-JTP-AN5	0.80 (20.3)	0.24 (6.0)	0.56 (14.3)
	3/8	10	-JTP-AN6	0.84 (21.3)	0.30 (7.5)	0.63 (15.9)
	1/2	12	-JTP-AN8	0.94 (23.9)	0.39 (9.9)	0.81 (20.6)
	5/8	16	-JTP-AN10	1.10 (27.9)	0.48 (12.3)	0.94 (23.8)
	3/4	18	-JTP-AN12	1.28 (32.5)	0.61 (15.5)	1.13 (28.6)
	7/8	22	-JTP-AN14	1.31 (33.3)	0.72 (18.3)	1.25 (31.8)
	1	25	-JTP-AN16	1.33 (33.8)	0.85 (21.5)	1.37 (34.9)
	1 1/4	32	-JTP-AN20	1.45 (36.8)	1.08 (27.5)	1.69 (42.9)
	1 1/2	38	-JTP-AN24	1.65 (41.9)	1.30 (33.0)	2.00 (50.8)
	2	50	-JTP-AN32	2.05 (52.1)	1.77 (45.0)	2.63 (66.7)

Tube cap assembly

	T-Tube O.D		Basic Ordering Number	Dimension, in. (mm)	
	In.	mm		L	F (Hex)
	1/8	3	-TCA-AN2	0.6(15.3)	0.37(9.5)
	3/16	4	-TCA-AN3	0.66(16.8)	0.44(11.1)
	1/4	6	-TCA-AN4	0.67(17.1)	0.56(14.3)
	5/16	8	-TCA-AN5	0.77(19.5)	0.63(15.9)
	3/8	10	-TCA-AN6	0.81(20.5)	0.69(17.5)
	1/2	12	-TCA-AN8	0.94(23.9)	0.87(22.2)
	5/8	16	-TCA-AN10	1.07(27.1)	1.00(25.4)
	3/4	18	-TCA-AN12	1.24(31.6)	1.25(31.8)
	7/8	22	-TCA-AN14	1.26(32.0)	1.37(34.9)
	1	25	-TCA-AN16	1.29(32.8)	1.50(38.1)
	1 1/4	32	-TCA-AN20	1.39(35.4)	2.00(50.8)
	1 1/2	38	-TCA-AN24	1.70(43.2)	2.00(57.2)
	2	50	-TCA-AN32	2.07(52.6)	2.87(73.0)

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