



SUPERLOK®

37° Flared Tube Fittings (SAE J514)



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Meets SAE Standard J514



Before tightening the nut



After tightening the nut

Figure.1

If required, see SAE Standard J514 for a complete list of dimensions. NPT Tapered Pipe Threads meet the requirements of ASME/ANSI B1.20.1.

All 37° Flared tube fittings 3 piece tube assembly, can be used with metric tube by using a metric 37° sleeve, instead of an inch sleeve. Each dimension table shows which metric sleeve should be used for every size.

Assembly Instructions

1. Cut the tube to the proper length.
2. Slide the nut and sleeve onto the tube. (See Fig.1).
3. With a special flaring tool, form the flare to 37° dimension according to SAE J533. (see page 3).
4. Screw the nut onto the body until finger tight.
5. From this position, tighten the nut with a wrench 1/4" turn in order to make a leakproof metal-to-metal connection.

Tubing Data For 37° Flare Three-Piece Tube Assembly

In order to ensure maximum fitting reliability and performance, please take great care when selecting the tube for each application. Tubing should be a fully annealed, seamless and drawn, suitable for bending and flaring, according to standard ASTM-269, AISI 316 or 304.

Tube Handling

Scratches on the tube might cause leaks. It is, therefore, important to handle the tube carefully to reduce the risk of leaks.

1. Tubes must not be dragged on the floor.
2. Tubes must not be dragged out of a tubing rack, especially in cases of large OD tubes.

Tube Cutter

To attain a leakfree connection, the tubing must be cut squarely. A good quality tube cutter with the appropriate blade for the tubing material is recommended. Do not try to reduce the time of cutting by taking deep cuts with each turn of the cutter. The end of the tube must be deburred to avoid damage to the fitting and to ensure that the tube reaches the bottom of the fitting.

Quality

Lengths of finished tubing should be reasonably straight and have smooth ends, free from burrs. Tubing should be free from scale and injurious defects, and it should have a workmanlike finish. Surface imperfections such as handling marks, die marks, or shallow pits will not be considered injurious defects provided the imperfections are within the tolerances specified for diameter and wall thickness. The removal of such imperfections is not required. (Quality SAE J524).

Tube Cutting

Two different methods can be used to cut tubes:

1. Tube cutter
2. Hacksaw

HACKSAW Cutting

In order to cut the tube with a hacksaw and to attain square ends, the tube must be cut with guide blocks. This method of cutting requires deburring of the tube ends.

Warning

Do not hold the tube in a vise in the place where it will be inserted into the fitting. The vise will leave a mark on the tube that may cause leaks and might cause ovality.

Ordering Information

Example	JMC		-	8T		-	04N		-	36L	
	1	2		3-1			3-2			4	

1. 37° Flared Tube Fitting

2. Type of Fitting - Refer to catalogue Index

3. Size of Fitting

3-1. Tube O.D

Fractional Tube	O.D (Inch)	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	2
	Designation	2T	3T	44	5T	6T	8T	10T	12T	14T	16T	20T	24T	32T
Metric Tube	O.D (mm)	2	3	6	8	10	12	16	18	22	25	32	38	50
	Designation	2MT	3MT	6MT	8MT	10MT	12MT	16MT	18MT	22MT	25MT	32MT	38MT	50MT

3-2. Pipe Thread Size or tube size

Size (inch)	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2
ISO Tapered	01R	02R	03R	04R	06R	08R	10R	12R
NPT	01N	02N	03N	04N	06N	08N	10N	12N
ISO Parallel	01G	02G	03G	04G	06G	08G	10G	12G
Unified Screw	02U	04U	06U	08U	12U	16U	20U	24U

4. Material

Material	316 Stainless Steel	316L Stainless Steel	Brass	Carbon Steel A105	Carbon Steel S45C
Identify	316	36L	B	15	S45C

Assembly Instructions

Perform flaring according to SAE J533. See Fig. 2.
See Table 1 below for dimensions .

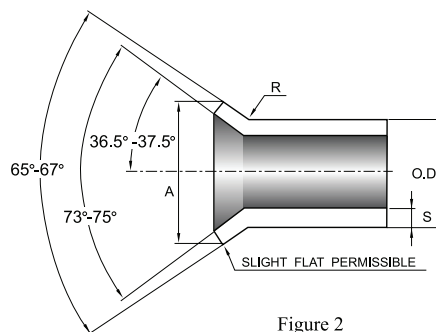


Figure 2

TABLE 1: Laring

Nominal Tube O.D.	A single flare diameter				R		S	
	in		mm		in	mm	in	mm
	Max	Min	Max	Min	±0.02	±0.5		
1/8	0.20	0.18	5.08	4.58	0.03	0.8	0.035	0.88
3/16	0.28	0.26	7.11	6.61	0.03	0.8	0.035	0.88
1/4	0.36	0.34	9.14	8.64	0.03	0.8	0.065	1.65
5/16	0.43	0.40	10.92	10.16	0.03	0.8	0.065	1.65
3/8	0.49	0.46	12.44	11.69	0.04	1.0	0.065	1.65
1/2	0.66	0.63	16.76	16.01	0.06	1.5	0.083	2.10
5/8	0.79	0.76	20.06	19.31	0.06	1.5	0.095	2.41
3/4	0.95	0.92	24.13	23.37	0.08	2.0	0.109	2.76
7/8	1.07	1.04	27.17	26.42	0.08	2.0	0.109	2.76
1	1.20	1.17	30.48	29.72	0.09	2.3	0.120	3.04
1 1/8	1.38	1.35	35.05	34.92	0.09	2.3	0.120	3.04
1 1/4	1.51	1.48	38.35	37.60	0.09	2.3	0.120	3.04
1 1/2	1.73	1.70	43.94	43.18	0.11	2.8	0.120	3.04

DEBURRING PRIOR TO FLARING

To ensure satisfactory flares are produced, it may be necessary to deburr the tube end prior to flaring. It is usually necessary to break the inside corner smoothly before single flaring, and some non-ferrous tubing to eliminate is normally required to eliminate the cutoff burr which might otherwise create leakage paths across a substantial portion of the flare. It is acceptable to smoothly break the outside corner prior to single flaring, or both outside and inside corners prior to double flaring, on any tube material to minimize splitting.

Dimensions are for reference only, and are subject to change without notice.

TABLE 2 : Allowable Working Pressure Ratings (Capable of 4" to 1" Min. Burst)

Nom.SAE Dash Size	Nom.Tube O.D Inches	37° Flare Straight Thread	Nom.Pipe Size	SAE St. Threads Union and Bulkhead (psi)	Fittings with Pipe Threads (psi)
2	1/8	5/16" - 24	1/8"	5000	5000
3	3/16	3/8" - 24	1/8"	5000	5000
4	1/4	7/16" - 20	1/8"	5000	5000
5	5/16	1/2" - 20	1/8"	5000	5000
6	3/8	9/16" - 18	1/4"	5000	5000
8	1/2	3/4" - 16	3/8"	4500	4000
10	5/8	7/8" - 14	1/2"	3500	3000
12	3/4	1 1/16" - 12	3/4"	3500	3000
14	7/8	1 3/16" - 12	3/4"	3000	2500
16	1	1 5/16" - 12	1"	3000	2000
20	1 1/4	1 5/8" - 12	1 1/4"	2500	1150
24	1 1/2	1 7/8" - 12	1 1/2"	2000	1000
32	2	2 1/2" - 12	2"	1500	1000

NOTE

Since many factors influence the pressure at which a system will or will not perform satisfactorily, values shown in Table 2 should not be construed as guaranteed minimum.

Design and Construction

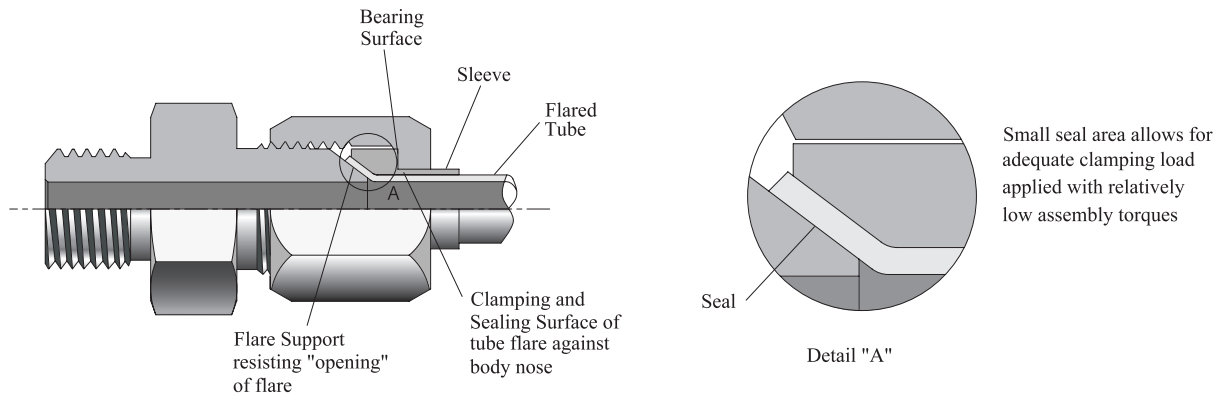


Figure 3.

The SAE 37° Flared Tube Fittings design is simple. It uses an easily produced flare at the tube end to seal and hold fluid under high pressure. The fitting consists of three pieces: the body, sleeve and nut. The tube end is flared at a 37° angle (74° included angle) and held between the fitting nose (seat) and the sleeve (support) with the nut as shown in Fig. 3, providing a very effective (single) seal between the fitting nose and the tube flare.

The design of SAE 37° Flared Tube Fittings is very efficient. The fitting incorporates the smallest seal area of all fitting types. This seal area, as seen in Fig. 3, is only slightly larger than the fluid flow area. The small seal area results in a compact design, low assembly torque, and a relatively high-pressure capability.

The primary difference between a two-piece flare fitting and the three-piece design is the flare support sleeve. The support sleeve provides several key functions:

1. It provides a clamping surface for the tube flare.
2. It provides a bearing surface for the tube nut. The sleeve isolates the tube from the nut, minimizing the tube twist during assembly, a common problem of 2-piece flare fitting designs.
3. It provides support to the tube flare. The tapered fitting nose tends to wedge open the tube flare during assembly. The sleeve helps to resist this expansion, thus eliminating the possibility of tube flare and sleeve jamming inside the nut. This eliminates any waste of applied torque and allows for easy disassembly.
4. It makes the fitting adaptable to metric tube merely by changing its inside diameter.

Due to the popularity and simplicity of the 37° flare fitting, many manufacturers offer the product. Even though most manufacturers conform to the same dimensional standards, there are significant performance advantages with SUPERLOK SAE 37° Flared Tube Fittings due to SUPERLOK's optimized manufacturing methods and commitment to quality.

Thread Designator

Pipe Thread

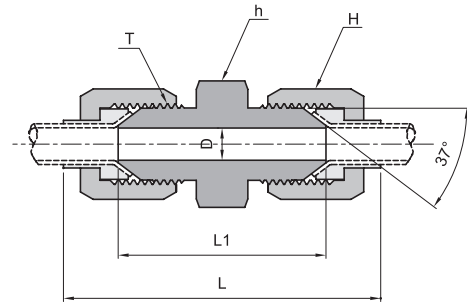
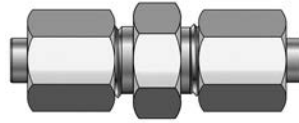
Thread Type	Thread Size								
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
NPT	01N	02N	03N	04N	06N	08N	10N	12N	16N
ISO/BSP Parallel	01G	02G	03G	04G	06G	08G	10G	12G	16G
ISO/BSP Tapered	01R	02R	03R	04R	06R	08R	10R	12R	16R

Unified Thread

Thread Type	Thread Size												
	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12
UNF/UN	02U	03U	04U	05U	06U	08U	10U	12U	14U	16U	20U	24U	32U

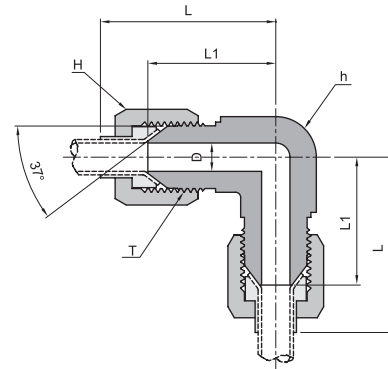
37° Flared Tube Fittings (SAE J514)

JU Union



Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric						
JU-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	45.3	29.7
JU-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	50.0	31.2
JU-4T	1/4	6	7/16 - 20	4.4	12.7	14.3	53.0	34.8
JU-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	55.6	34.8
JU-6T	3/8	10	9/16 - 18	7.5	15.9	17.5	59.6	35.8
JU-8T	1/2	12	3/4 - 16	9.9	20.6	22.2	66.5	41.1
JU-10T	5/8	16	7/8 - 14	12.3	23.8	25.4	81.0	47.8
JU-12T	3/4	18	1 1/16 - 12	15.5	28.6	31.8	85.9	54.9
JU-14T	7/8	22	1 3/16 - 12	18.3	31.8	34.9	91.3	56.1
JU-16T	1	25	1 5/16 - 12	21.4	34.9	38.1	95.2	57.2
JU-20T	1 1/4	32	1 5/8 - 12	27.4	42.9	50.8	109.0	61.7
JU-24T	1 1/2	38	1 7/8 - 12	33.3	50.8	57.2	123.2	69.8
JU-32T	2	50	2 1/2 - 12	45.2	66.7	73.0	141.4	86.4

JUE Union Elbow

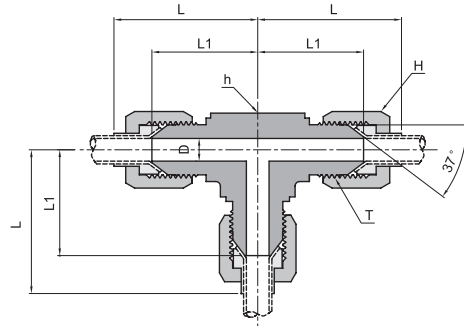
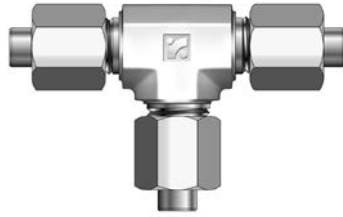


Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric						
JUE-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	27.4	19.6
JUE-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	30.5	21.1
JUE-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	31.7	22.6
JUE-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	34.5	24.1
JUE-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	38.8	26.9
JUE-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	44.5	31.8
JUE-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	53.4	36.8
JUE-12T	3/4	18	1 1/16 - 12	15.5	27.0	31.8	57.7	42.2
JUE-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	63.3	45.7
JUE-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	65.0	46.0
JUE-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	70.8	52.3
JUE-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	85.9	59.2
JUE-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	105.2	77.7

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JUT

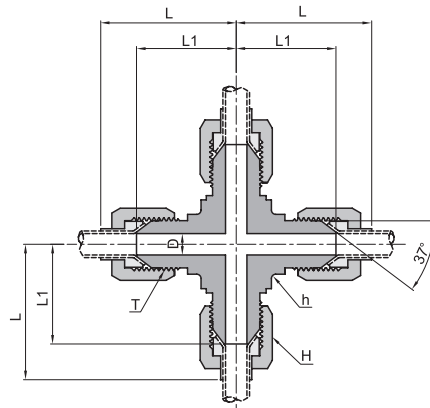
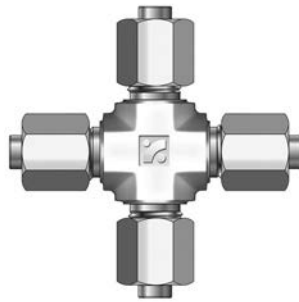
Union Tee



Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric						
JUT-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	27.4	19.6
JUT-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	30.5	21.1
JUT-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	31.7	22.6
JUT-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	34.5	24.1
JUT-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	38.8	26.9
JUT-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	44.5	31.8
JUT-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	53.4	36.8
JUT-12T	3/4	18	1 1/16 - 12	15.5	27.0	31.8	57.7	42.2
JUT-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	63.3	45.7
JUT-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	65.0	46.0
JUT-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	70.8	52.3
JUT-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	85.9	59.2
JUT-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	105.2	77.7

JUC

Union Cross

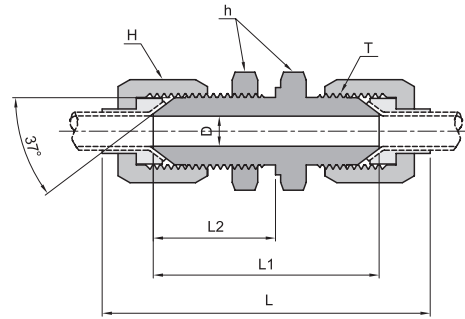


Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric						
JUC-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	27.4	19.6
JUC-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	30.5	21.1
JUC-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	31.7	22.6
JUC-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	34.5	24.1
JUC-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	38.8	26.9
JUC-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	44.5	31.8
JUC-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	53.4	36.8
JUC-12T	3/4	18	1 1/16 - 12	15.5	27.0	31.8	57.7	42.2
JUC-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	63.3	45.7
JUC-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	65.0	46.0
JUC-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	70.8	52.3
JUC-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	85.9	59.2
JUC-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	105.2	77.7

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JBHU

Bulkhead Union

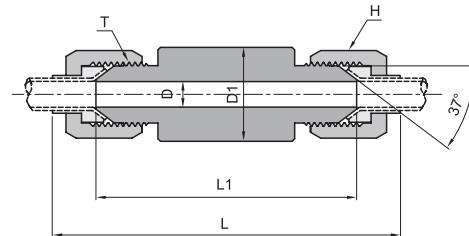


Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric							
JBHU-2T	1/8	3	5/16 - 24	1.6	14.3	9.5	63.1	47.5	28.2
JBHU-3T	3/16	4	3/8 - 24	3.2	15.9	11.1	67.1	48.3	28.2
JBHU-4T	1/4	6	7/16 - 20	4.4	17.5	14.3	70.8	52.6	30.5
JBHU-5T	5/16	8	1/2 - 20	6.0	19.1	15.9	73.4	52.6	30.5
JBHU-6T	3/8	10	9/16 - 18	7.5	20.6	17.5	79.2	55.4	32.5
JBHU-8T	1/2	12	3/4 - 16	9.9	25.4	22.2	87.4	62.0	36.6
JBHU-10T	5/8	16	7/8 - 14	12.3	28.6	25.4	102.8	69.6	40.1
JBHU-12T	3/4	18	1 1/16 - 12	15.5	34.9	31.8	109.5	78.5	44.4
JBHU-14T	7/8	22	1 3/16 - 12	18.3	38.1	34.9	114.4	79.2	44.4
JBHU-16T	1	25	1 5/16 - 12	21.4	41.3	38.1	117.8	79.8	44.4
JBHU-20T	1 1/4	32	1 5/8 - 12	27.4	47.6	50.8	121.1	84.1	45.7
JBHU-24T	1 1/2	38	1 7/8 - 12	33.3	54.0	57.2	142.8	89.4	46.0
JBHU-32T	2	50	2 1/2 - 12	45.2	69.9	73.0	161.7	106.7	53.1

JBUW

Weld

Bulkhead Union

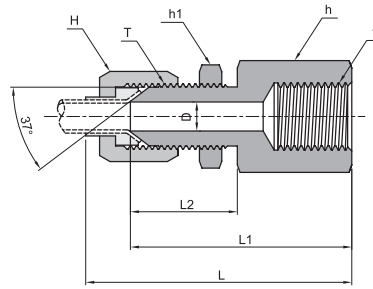
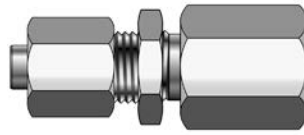


Part Number	Tube O.D.		T (UNF/UN)	D	D1	H (HEX)	L	L1
	Inch	Metric						
JBUW-2T	1/8	3	5/16 - 24	1.6	11.0	9.5	85.6	70.0
JBUW-3T	3/16	4	3/8 - 24	3.2	11.0	11.1	88.8	70.0
JBUW-4T	1/4	6	7/16 - 20	4.4	14.0	14.3	98.2	80.0
JBUW-5T	5/16	8	1/2 - 20	6.0	16.0	15.9	120.8	100.0
JBUW-6T	3/8	10	9/16 - 18	7.5	17.0	17.5	123.8	100.0
JBUW-8T	1/2	12	3/4 - 16	9.9	22.0	22.2	125.4	100.0
JBUW-10T	5/8	16	7/8 - 14	12.3	25.0	25.4	143.2	110.0
JBUW-12T	3/4	18	1 1/16 - 12	15.5	30.0	31.8	151.0	120.0
JBUW-14T	7/8	22	1 3/16 - 12	18.3	32.0	34.9	165.0	130.0
JBUW-16T	1	25	1 5/16 - 12	21.4	40.0	38.1	168.0	130.0
JBUW-20T	1 1/4	32	1 5/8 - 12	27.4	46.0	50.8	177.0	140.0
JBUW-24T	1 1/2	38	1 7/8 - 12	33.3	50.0	57.2	193.4	140.0
JBUW-32T	2	50	2 1/2 - 12	45.2	70.0	73.0	205.0	150.0

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JBFC

Bulkhead Female Connector

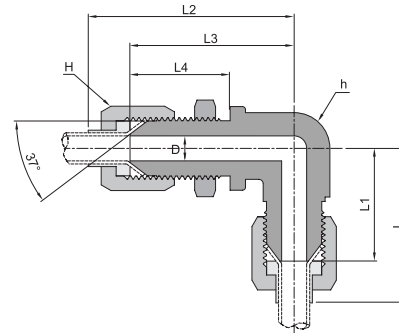
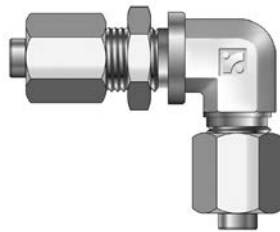


Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	h1 (HEX)	H (HEX)	L	L1	L2
	Inch	Metric									
JBFC-2T-01N	1/8	3	5/16 - 24	1/8	1.6	14.3	14.3	9.5	49.0	41.2	28.2
JBFC-3T-01N	3/16	4	3/8 - 24	1/8	3.2	14.3	15.9	11.1	50.6	41.2	28.2
JBFC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	14.3	17.5	14.3	52.6	43.5	30.5
JBFC-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	19.1	15.9	53.9	43.5	30.5
JBFC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	19.1	20.6	17.5	62.5	50.5	32.5
JBFC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	22.2	25.4	22.2	69.3	56.6	36.6
JBFC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	28.6	28.6	25.4	82.7	66.1	40.1
JBFC-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	34.9	34.9	31.8	86.0	71.4	44.4
JBFC-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	34.9	38.1	34.9	89.0	71.4	44.4
JBFC-16T-08N	1	25	1 5/16 - 12	1	21.4	41.3	41.3	38.1	94.4	75.4	44.4
JBFC-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	50.8	47.6	50.8	99.2	80.7	45.7
JBFC-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	60.3	54.0	57.2	107.7	81.0	46.0
JBFC-32T-16N	2	50	2 1/2 - 12	2	45.2	73.0	69.9	73.0	120.6	93.1	53.1

*ISO Taper Threads are available upon request.

JBUE

Bulkhead Union Elbow

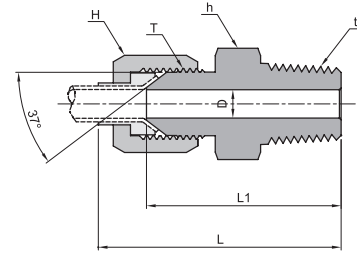
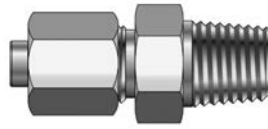


Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	L	L1	L2	L3	L4
	Inch	Metric									
JBUE-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	30.2	22.4	45.9	38.1	23.4
JBUE-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	33.3	23.9	47.5	38.1	23.4
JBUE-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	33.7	24.6	49.5	40.4	25.9
JBUE-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	37.3	26.9	54.1	43.7	25.9
JBUE-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	39.6	27.7	57.9	46.0	27.7
JBUE-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	47.2	34.5	66.3	53.6	31.8
JBUE-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	56.2	39.6	77.3	60.7	35.8
JBUE-12T	3/4	18	1 1/16 - 12	15.5	27.0	31.8	60.7	45.2	83.1	67.6	39.6
JBUE-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	66.4	48.8	88.7	71.1	39.6
JBUE-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	68.3	49.3	90.1	71.1	39.6
JBUE-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	73.6	55.1	97.7	79.2	40.9
JBUE-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	86.1	59.4	113.6	86.9	41.1
JBUE-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	100.9	73.4	131.9	104.4	48.5

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JMC

Male Connector

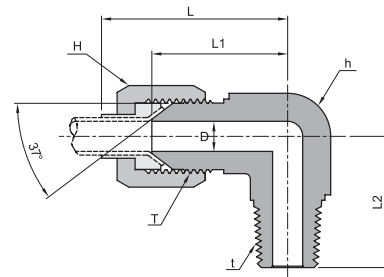


Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric							
JMC-2T-01N	1/8	3	5/16 - 24	1/8	1.6	11.1	9.5	36.0	28.2
JMC-3T-01N	3/16	4	3/8 - 24	1/8	3.2	11.1	11.1	38.4	29.0
JMC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	12.7	14.3	40.1	31.0
JMC-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	41.4	31.0
JMC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	15.9	17.5	48.2	36.3
JMC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	20.6	22.2	51.6	38.9
JMC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	23.8	25.4	64.6	48.0
JMC-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	28.6	31.8	67.8	52.3
JMC-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	31.8	34.9	70.7	53.1
JMC-16T-08N	1	25	1 5/16 - 12	1	21.4	34.9	38.1	77.4	58.4
JMC-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	42.9	50.8	80.7	62.2
JMC-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	50.8	57.2	94.8	67.8
JMC-32T-16N	2	50	2 1/2 - 12	2	45.2	66.7	73.0	106.5	79.0

*ISO Taper Threads are available upon request.

JME

Male Elbow



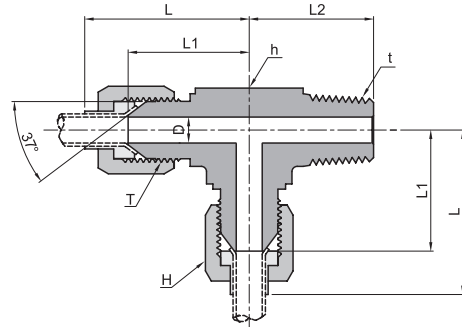
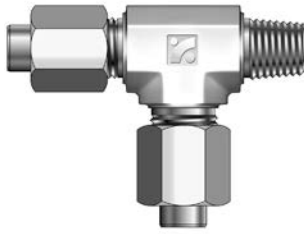
Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JME-2T-01N	1/8	3	5/16 - 24	1/8	1.6	11.1	9.5	27.4	19.6	18.3
JME-3T-01N	3/16	4	3/8 - 24	1/8	3.2	11.1	11.1	30.5	21.1	18.3
JME-4T-01N	1/4	6	7/16 - 20	1/8	4.4	11.1	14.3	31.7	22.6	19.8
JME-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	34.5	24.1	19.8
JME-6T-02N	3/8	10	9/16 - 18	1/4	7.5	14.3	17.5	38.8	26.9	27.7
JME-8T-03N	1/2	12	3/4 - 16	3/8	9.9	19.0	22.2	44.5	31.8	31.0
JME-10T-04N	5/8	16	7/8 - 14	1/2	12.3	22.2	25.4	53.4	36.8	37.3
JME-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	27.0	31.8	57.7	42.2	40.4
JME-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	63.3	45.7	42.9
JME-16T-08N	1	25	1 5/16 - 12	1	21.4	33.3	38.1	65.0	46.0	50.0
JME-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	41.3	50.8	70.8	52.3	60.5
JME-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	47.6	57.2	85.9	59.2	67.1
JME-32T-16N	2	50	2 1/2 - 12	2	45.2	63.5	73.0	105.2	77.7	76.2

*ISO Taper Threads are available upon request.

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

37° Flared Tube Fittings (SAE J514)

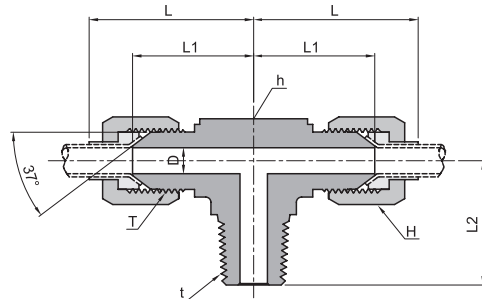
JMRT Male Run Tee



Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JMRT-2T-01N	1/8	3	5/16 - 24	1/8	1.6	11.1	9.5	27.4	19.6	18.3
JMRT-3T-01N	3/16	4	3/8 - 24	1/8	3.2	11.1	11.1	30.5	21.1	18.3
JMRT-4T-01N	1/4	6	7/16 - 20	1/8	4.4	11.1	14.3	31.7	22.6	19.8
JMRT-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	34.5	24.1	19.8
JMRT-6T-02N	3/8	10	9/16 - 18	1/4	7.5	14.3	17.5	38.8	26.9	27.7
JMRT-8T-03N	1/2	12	3/4 - 16	3/8	9.9	19.0	22.2	44.5	31.8	31.0
JMRT-10T-04N	5/8	16	7/8 - 14	1/2	12.3	22.2	25.4	53.4	36.8	37.3
JMRT-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	27.0	31.8	57.7	42.2	40.4
JMRT-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	63.3	45.7	42.9
JMRT-16T-08N	1	25	1 5/16 - 12	1	21.4	33.3	38.1	65.0	46.0	50.0
JMRT-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	41.3	50.8	70.8	52.3	60.5
JMRT-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	47.6	57.2	85.9	59.2	67.1
JMRT-32T-16N	2	50	2 1/2 - 12	2	45.2	63.5	73.0	105.2	77.7	76.2

*ISO Taper Threads are available upon request.

JMBT Male Branch Tee



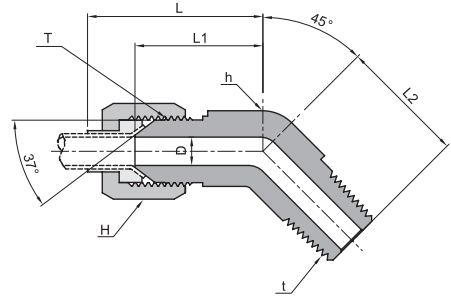
Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JMBT-2T-01N	1/8	3	5/16 - 24	1/8	1.6	11.1	9.5	27.4	19.6	18.3
JMBT-3T-01N	3/16	4	3/8 - 24	1/8	3.2	11.1	11.1	30.5	21.1	18.3
JMBT-4T-01N	1/4	6	7/16 - 20	1/8	4.4	11.1	14.3	31.7	22.6	19.8
JMBT-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	34.5	24.1	19.8
JMBT-6T-02N	3/8	10	9/16 - 18	1/4	7.5	14.3	17.5	38.8	26.9	27.7
JMBT-8T-03N	1/2	12	3/4 - 16	3/8	9.9	19.0	22.2	44.5	31.8	31.0
JMBT-10T-04N	5/8	16	7/8 - 14	1/2	12.3	22.2	25.4	53.4	36.8	37.3
JMBT-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	27.0	31.8	57.7	42.2	40.4
JMBT-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	63.3	45.7	42.9
JMBT-16T-08N	1	25	1 5/16 - 12	1	21.4	33.3	38.1	65.0	46.0	50.0
JMBT-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	41.3	50.8	70.8	52.3	60.5
JMBT-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	47.6	57.2	85.9	59.2	67.1
JMBT-32T-16N	2	50	2 1/2 - 12	2	45.2	63.5	73.0	105.2	77.7	76.2

*ISO Taper Threads are available upon request.

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JHME

45° Male Elbow

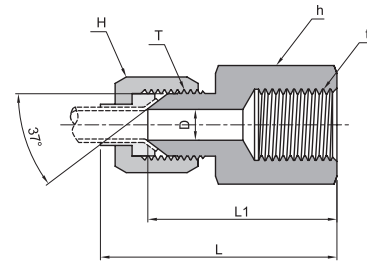


Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JHME-2T-01N	1/8	3	5/16 - 24	1/8	1.6	11.1	9.5	25.3	17.5	13.2
JHME-3T-01N	3/16	4	3/8 - 24	1/8	3.2	11.1	11.0	26.9	17.5	13.2
JHME-4T-01N	1/4	6	7/16 - 20	1/8	4.4	11.1	14.3	27.4	18.3	16.3
JHME-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	30.0	19.6	16.3
JHME-6T-02N	3/8	10	9/16 - 18	1/4	7.5	14.3	17.5	33.0	21.1	21.8
JHME-8T-03N	1/2	12	3/4 - 16	3/8	9.9	19.0	22.2	37.6	24.9	24.1
JHME-10T-04N	5/8	16	7/8 - 14	1/2	12.3	22.2	25.4	44.8	28.2	29.7
JHME-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	27.0	31.8	48.0	32.5	30.5
JHME-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	54.4	36.8	33.0
JHME-16T-08N	1	25	1 5/16 - 12	1	21.4	33.3	38.1	56.3	37.3	37.6
JHME-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	41.3	50.8	58.9	40.4	42.4
JHME-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	47.6	57.2	71.9	45.2	45.0
JHME-32T-16N	2	50	2 1/2 - 12	2	45.2	63.5	73.0	83.9	56.4	53.6

*ISO Taper Threads are available upon request.

JFC

Female Connector

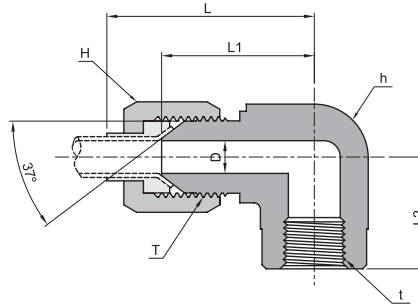


Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric							
JFC-2T-01N	1/8	3	5/16 - 24	1/8	1.6	14.3	9.5	36.2	28.4
JFC-3T-01N	3/16	4	3/8 - 24	1/8	3.2	14.3	11.1	38.1	28.7
JFC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	14.3	14.3	39.3	30.2
JFC-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	40.1	29.7
JFC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	19.1	17.5	47.5	35.6
JFC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	22.2	22.2	52.3	39.6
JFC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	28.6	25.4	64.6	48.0
JFC-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	34.9	31.8	67.8	52.3
JFC-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	34.9	34.9	69.9	52.3
JFC-16T-08N	1	25	1 5/16 - 12	1	21.4	41.3	38.1	78.7	59.7
JFC-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	50.8	50.8	81.7	63.2
JFC-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	60.3	57.2	93.2	66.5
JFC-32T-16N	2	50	2 1/2 - 12	2	45.2	73.0	73.0	102.9	75.4

*ISO Taper Threads are available upon request.

37° Flared Tube Fittings (SAE J514)

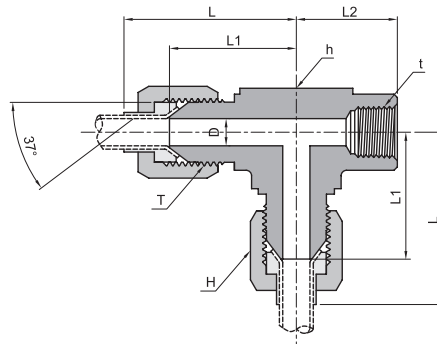
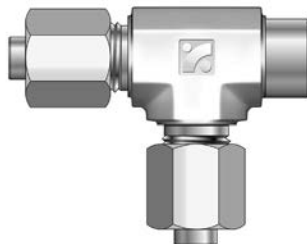
JFE Female Elbow



Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JFE-2T-01N	1/8	3	5/16 - 24	1/8	1.6	14.3	9.5	33.2	25.4	16.8
JFE-3T-01N	3/16	4	3/8 - 24	1/8	3.2	14.3	11.1	35.6	26.2	16.8
JFE-4T-01N	1/4	6	7/16 - 20	1/8	4.4	14.3	14.3	36.5	27.4	16.8
JFE-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	37.8	27.4	16.8
JFE-6T-02N	3/8	10	9/16 - 18	1/4	7.5	19.0	17.5	43.1	31.2	22.4
JFE-8T-03N	1/2	12	3/4 - 16	3/8	9.9	22.2	22.2	48.8	36.1	25.9
JFE-10T-04N	5/8	16	7/8 - 14	1/2	12.3	27.0	25.4	58.3	41.7	31.2
JFE-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	33.3	31.8	63.5	48.0	34.5
JFE-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	64.8	47.2	36.1
JFE-16T-08N	1	25	1 5/16 - 12	1	21.4	41.3	38.1	74.1	55.1	41.1
JFE-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	47.6	50.8	77.7	59.2	43.2
JFE-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	65.1	57.2	100.1	73.4	52.8
JFE-32T-16N	2	50	2 1/2 - 12	2	45.2	71.4	73.0	111.3	83.8	60.7

*ISO Taper Threads are available upon request.

JFRT Female Run Tee



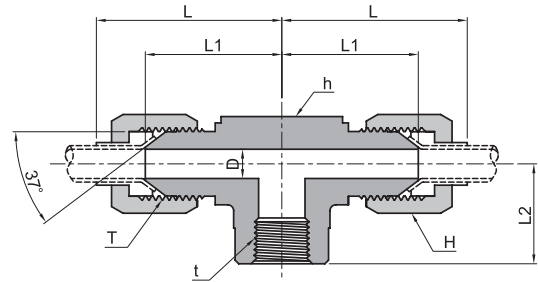
Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JFRT-2T-01N	1/8	3	5/16 - 24	1/8	1.6	14.3	9.5	33.2	25.4	16.8
JFRT-3T-01N	3/16	4	3/8 - 24	1/8	3.2	14.3	11.1	35.6	26.2	16.8
JFRT-4T-01N	1/4	6	7/16 - 20	1/8	4.4	14.3	14.3	36.5	27.4	16.8
JFRT-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	37.8	27.4	16.8
JFRT-6T-02N	3/8	10	9/16 - 18	1/4	7.5	19.0	17.5	43.1	31.2	22.4
JFRT-8T-03N	1/2	12	3/4 - 16	3/8	9.9	22.2	22.2	48.8	36.1	25.9
JFRT-10T-04N	5/8	16	7/8 - 14	1/2	12.3	27.0	25.4	58.3	41.7	31.2
JFRT-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	33.3	31.8	63.5	48.0	34.5
JFRT-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	64.8	47.2	36.1
JFRT-16T-08N	1	25	1 5/16 - 12	1	21.4	41.3	38.1	74.1	55.1	41.1
JFRT-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	47.6	50.8	77.7	59.2	43.2
JFRT-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	65.1	57.2	100.1	73.4	52.8
JFRT-32T-16N	2	50	2 1/2 - 12	2	45.2	71.4	73.0	111.3	83.8	60.7

*ISO Taper Threads are available upon request.

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JFBT

Female Branch Tee

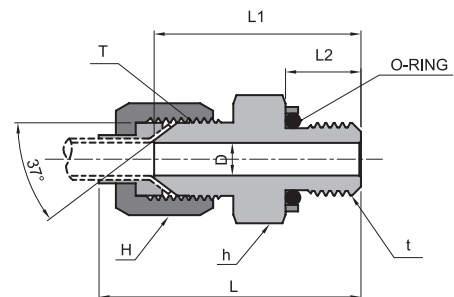
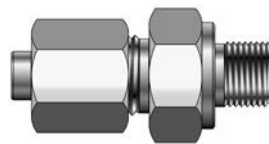


Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JFBT-2T-01N	1/8	3	5/16 - 24	1/8	1.6	14.3	9.5	33.2	25.4	16.8
JFBT-3T-01N	3/16	4	3/8 - 24	1/8	3.2	14.3	11.1	35.6	26.2	16.8
JFBT-4T-01N	1/4	6	7/16 - 20	1/8	4.4	14.3	14.3	36.5	27.4	16.8
JFBT-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	37.8	27.4	16.8
JFBT-6T-02N	3/8	10	9/16 - 18	1/4	7.5	19.0	17.5	43.1	31.2	22.4
JFBT-8T-03N	1/2	12	3/4 - 16	3/8	9.9	22.2	22.2	48.8	36.1	25.9
JFBT-10T-04N	5/8	16	7/8 - 14	1/2	12.3	27.0	25.4	58.3	41.7	31.2
JFBT-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	33.3	31.8	63.5	48.0	34.5
JFBT-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	33.3	34.9	64.8	47.2	36.1
JFBT-16T-08N	1	25	1 5/16 - 12	1	21.4	41.3	38.1	74.1	55.1	41.1
JFBT-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	47.6	50.8	77.7	59.2	43.2
JFBT-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	65.1	57.2	100.1	73.4	52.8
JFBT-32T-16N	2	50	2 1/2 - 12	2	45.2	71.4	73.0	111.3	83.8	60.7

*ISO Taper Threads are available upon request.

JMC-GO

O-Ring Seal Male Connector(PF)

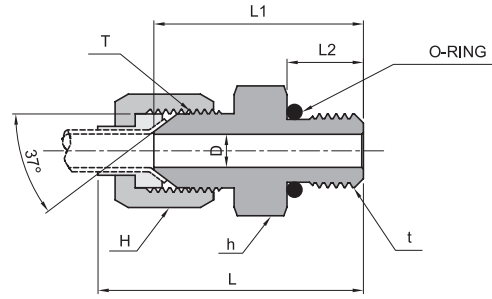
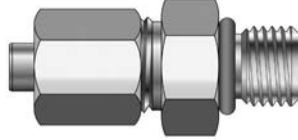


Part Number	Tube O.D.		T (UNF/UN)	t (PF)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JMC-2T-01GO	1/8	3	5/16 - 24	1/8	1.6	11.1	9.5	35.3	27.5	8.0
JMC-3T-01GO	3/16	4	3/8 - 24	1/8	3.2	12.7	11.1	37.9	28.5	8.0
JMC-4T-01GO	1/4	6	7/16 - 20	1/8	4.4	14.2	14.3	39.3	30.2	8.0
JMC-5T-01GO	5/16	8	1/2 - 20	1/8	6.0	15.8	15.9	40.6	30.2	8.0
JMC-6T-02GO	3/8	10	9/16 - 18	1/4	7.5	17.4	17.5	46.9	35.0	12.0
JMC-8T-03GO	1/2	12	3/4 - 16	3/8	9.9	22.2	22.2	51.4	38.7	12.0
JMC-10T-04GO	5/8	16	7/8 - 14	1/2	12.3	25.4	25.4	61.1	44.5	14.0
JMC-12T-06GO	3/4	18	1 1/16 - 12	3/4	15.5	31.7	31.8	66.4	50.9	16.0
JMC-14T-06GO	7/8	22	1 3/16 - 12	3/4	18.3	34.9	34.9	69.0	51.4	16.0
JMC-16T-08GO	1	25	1 5/16 - 12	1	21.4	38.0	38.1	71.7	52.7	18.0
JMC-20T-10GO	1 1/4	32	1 5/8 - 12	1 1/4	27.4	42.8	50.8	78.5	60.0	20.0
JMC-24T-12GO	1 1/2	38	1 7/8 - 12	1 1/2	33.3	55.0	57.2	92.8	66.1	21.0
JMC-32T-16GO	2	50	2 1/2 - 12	2	45.2	70.0	73.0	108.0	80.5	25.0

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JMC-U

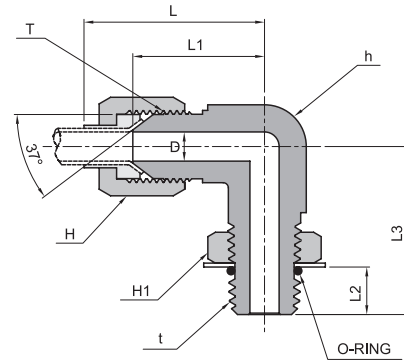
O-Ring Seal
Male Connector (UNF/UN)



Part Number	Tube O.D.		T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JMC-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	11.1	9.5	34.7	26.9	7.5
JMC-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	12.7	11.1	37.3	27.9	7.5
JMC-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	14.2	14.3	40.3	31.2	9.1
JMC-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	15.8	15.9	41.6	31.2	9.1
JMC-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	17.4	17.5	44.9	33.0	9.9
JMC-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	22.2	22.2	50.3	37.6	11.1
JMC-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	25.4	25.4	59.8	43.2	12.7
JMC-12T-12U	3/4	18	1 1/16 - 12	1 1/16 - 12	15.5	31.7	31.8	65.5	50.0	15.1
JMC-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	34.9	34.9	68.1	50.5	15.1
JMC-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	38.1	38.1	70.8	51.8	15.1
JMC-20T-20U	1 1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	47.6	50.8	73.6	55.1	15.1
JMC-24T-24U	1 1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	53.9	57.2	86.9	60.2	15.1
JMC-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	69.8	73.0	98.1	70.6	15.1

JPME-U

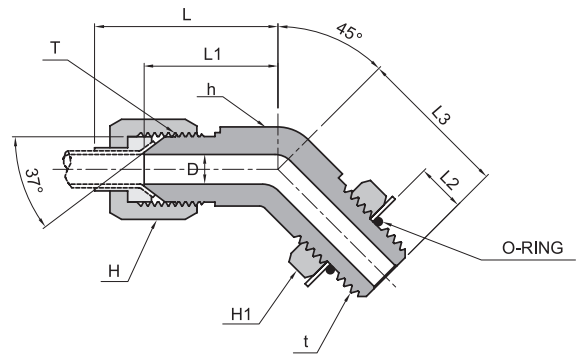
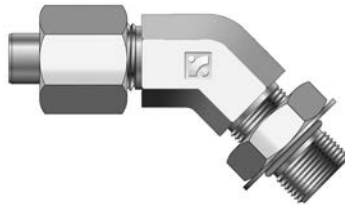
Positionable Male Elbow



Part Number	Tube O.D.		T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	L2	L3
	Inch	Metric										
JPME-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	11.1	9.5	11.1	27.4	19.6	8.4	23.9
JPME-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	11.1	11.1	12.7	30.5	21.1	8.4	23.9
JPME-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	11.1	14.3	14.3	31.7	22.6	9.8	26.2
JPME-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	14.3	15.9	15.9	34.5	24.1	9.8	28.7
JPME-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	14.3	17.5	17.5	38.8	26.9	9.9	31.8
JPME-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	19.0	22.2	22.2	44.5	31.8	11.0	36.8
JPME-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	22.2	25.4	25.4	53.4	36.8	12.5	43.2
JPME-12T-12U	3/4	18	1 1/16 - 12	1 1/16 - 12	15.5	27.0	31.8	31.8	57.7	42.2	16.5	49.3
JPME-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	33.3	34.9	34.9	63.3	45.7	16.5	50.8
JPME-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	33.3	38.1	38.1	65.0	46.0	16.5	52.1
JPME-20T-20U	1 1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	41.3	50.8	47.6	70.8	52.3	16.5	57.2
JPME-24T-24U	1 1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	47.6	57.2	53.9	85.9	59.2	16.5	60.7
JPME-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	63.5	73.0	69.8	105.2	77.7	16.5	73.4

JPHME-U

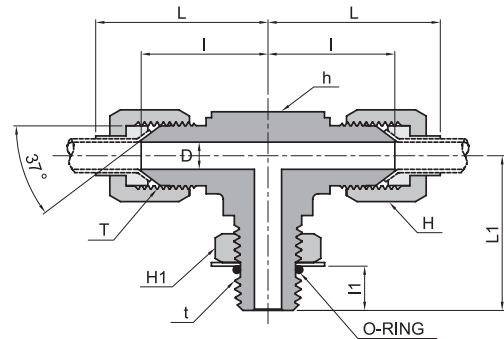
Positionable
45° Male Elbow



Part Number	Tube O.D.		T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	L2	L3
	Inch	Metric										
JPHME-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	11.1	9.5	11.1	25.3	17.5	8.4	23.9
JPHME-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	11.1	11.1	12.7	26.9	17.5	8.4	23.9
JPHME-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	11.1	14.3	14.3	27.4	18.3	9.8	23.9
JPHME-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	14.3	15.9	15.9	30.3	19.6	9.8	25.4
JPHME-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	14.3	17.5	17.5	33.0	21.1	9.9	28.4
JPHME-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	19.0	22.2	22.2	37.6	24.9	11.0	32.5
JPHME-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	22.2	25.4	25.4	44.8	28.2	12.5	36.6
JPHME-12T-12U	3/4	18	1 1/16 - 12	1 1/16 - 12	15.5	27.0	31.8	31.8	48.0	32.5	16.5	43.9
JPHME-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	33.3	34.9	34.9	54.4	36.8	16.5	45.7
JPHME-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	33.3	38.1	38.1	56.3	37.3	16.5	47.2
JPHME-20T-20U	1 1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	41.3	50.8	47.6	58.9	40.4	16.5	48.5
JPHME-24T-24U	1 1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	47.6	57.2	53.9	71.9	45.2	16.5	48.5
JPHME-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	63.5	73.0	69.8	83.9	56.4	16.5	47.2

JPMBT-U

Positionable
Male Branch Tee

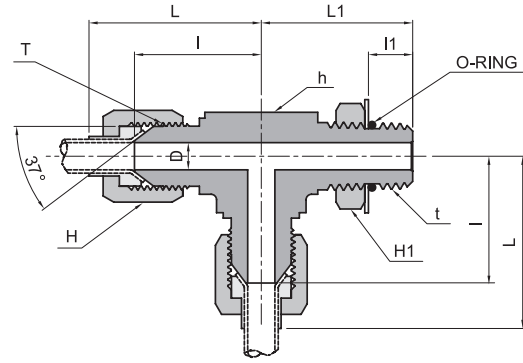
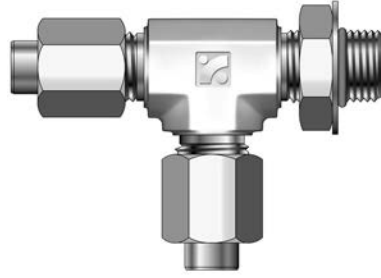


Part Number	Tube O.D.		T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	I	I1
	Inch	Metric										
JPMBT-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	11.1	9.5	11.1	27.4	23.9	19.6	8.4
JPMBT-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	11.1	11.1	12.7	30.5	23.9	21.1	8.4
JPMBT-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	11.1	14.3	14.3	31.7	26.2	22.6	9.8
JPMBT-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	14.3	15.9	15.9	34.5	28.7	24.1	9.8
JPMBT-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	14.3	17.5	17.5	38.8	31.8	26.9	9.9
JPMBT-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	19.0	22.2	22.2	44.5	36.8	31.8	11.0
JPMBT-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	22.2	25.4	25.4	53.4	43.2	36.8	12.5
JPMBT-12T-12U	3/4	18	1 1/16 - 12	1 1/16 - 12	15.5	27.0	31.8	31.8	57.7	49.3	42.2	16.5
JPMBT-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	33.3	35.0	34.9	63.3	50.8	45.7	16.5
JPMBT-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	33.3	38.0	38.1	65.0	52.1	46.0	16.5
JPMBT-20T-20U	1 1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	41.3	50.8	47.6	70.8	57.2	52.3	16.5
JPMBT-24T-24U	1 1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	47.6	57.2	53.9	85.9	60.7	59.2	16.5
JPMBT-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	63.5	73.0	69.8	105.2	73.4	77.7	16.5

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JPMRT-U

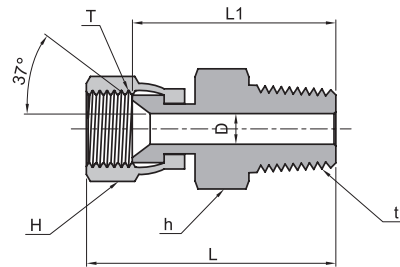
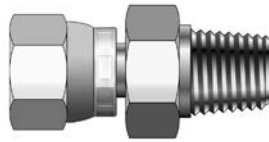
Positionable
Male Run Tee



Part Number	Tube O.D.		T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	I	I1
	Inch	Metric										
JPMRT-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	11.1	9.5	11.1	27.4	23.9	19.6	8.4
JPMRT-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	11.1	11.1	12.7	30.5	23.9	21.1	8.4
JPMRT-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	11.1	14.3	14.3	31.7	26.2	22.6	9.8
JPMRT-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	14.3	15.9	15.9	34.5	28.7	24.1	9.8
JPMRT-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	14.3	17.5	17.5	38.8	31.8	26.9	9.9
JPMRT-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	19.0	22.2	22.2	44.5	36.8	31.8	11.0
JPMRT-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	22.2	25.4	25.4	53.4	43.2	36.8	12.5
JPMRT-12T-12U	3/4	18	1 1/16 - 12	1 1/16 - 12	15.5	27.0	31.8	31.8	57.7	49.3	42.2	16.5
JPMRT-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	33.3	34.9	34.9	63.3	50.8	45.7	16.5
JPMRT-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	33.3	38.1	38.1	65.0	52.1	46.0	16.5
JPMRT-20T-20U	1 1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	41.3	50.8	47.6	70.8	57.2	52.3	16.5
JPMRT-24T-24U	1 1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	47.6	57.2	53.9	85.9	60.7	59.2	16.5
JPMRT-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	63.5	73.0	69.8	105.2	73.4	77.7	16.5

JMSC

Male Swivel Connector



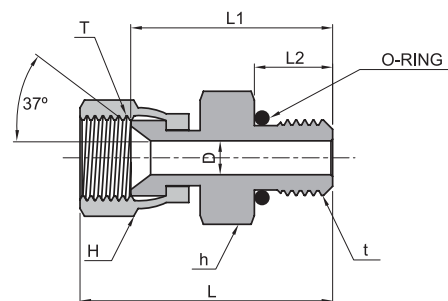
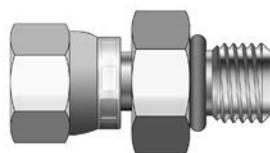
Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric							
JMSC-2T-01N	1/8	3	5/16 - 24	1/8	1.6	11.1	11.1	30.0	22.0
JMSC-3T-01N	3/16	4	3/8 - 24	1/8	3.2	11.1	12.7	32.0	23.5
JMSC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	12.7	14.3	34.2	25.5
JMSC-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.2	15.9	35.0	25.5
JMSC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	16.0	17.5	40.2	30.7
JMSC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	21.0	22.2	42.7	32.0
JMSC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	23.8	25.4	51.3	38.6
JMSC-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	29.0	31.8	54.5	40.2
JMSC-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	32.0	34.9	56.0	41.2
JMSC-16T-08N	1	25	1 5/16 - 12	1	21.4	36.0	38.1	63.7	48.6
JMSC-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	46.0	50.8	68.9	53.0
JMSC-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	50.0	57.2	77.6	59.0
JMSC-32T-16N	2	50	2 1/2 - 12	2	45.2	66.7	73.0	92.9	69.1

*ISO Taper Threads are available upon request.

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JMSC-U

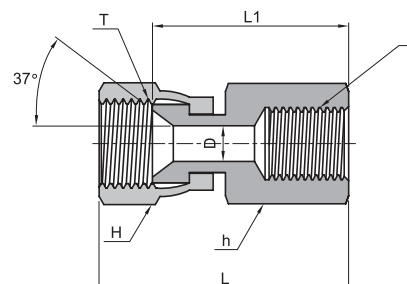
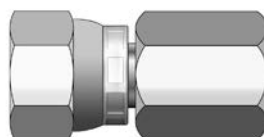
O-Ring Seal Male Swivel Connector



Part Number	Tube O.D.		T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	L	L1	L2
	Inch	Metric								
JMSC-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	11.1	11.1	30.4	22.5	7.5
JMSC-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	12.7	12.7	31.0	22.7	7.5
JMSC-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	14.2	14.3	33.9	25.2	9.1
JMSC-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	15.8	15.9	35.7	26.2	9.1
JMSC-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	17.4	17.5	37.4	27.9	9.9
JMSC-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	22.2	22.2	41.6	30.9	11.1
JMSC-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	25.4	25.4	47.6	34.9	12.7
JMSC-12T-12U	3/4	18	1 1/16 - 12	1 1/16 - 12	15.5	31.8	31.8	54.4	40.1	15.1
JMSC-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	34.9	34.9	55.6	40.9	15.1
JMSC-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	38.1	38.1	56.8	41.7	15.1
JMSC-20T-20U	1 1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	47.6	50.8	63.2	47.3	15.1
JMSC-24T-24U	1 1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	54.0	57.2	71.3	52.7	15.1
JMSC-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	70.0	73.0	72.5	58.7	15.1

JFSC

Female Swivel Connector



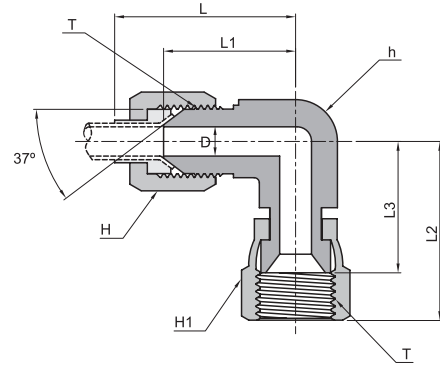
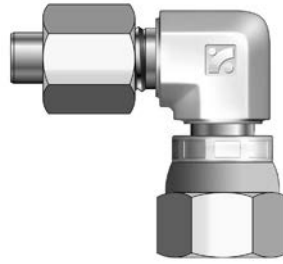
Part Number	Tube O.D.		T (UNF/UN)	*t (NPT)	D	h (HEX)	H (HEX)	L	L1
	Inch	Metric							
JFSC-2T-01N	1/8	3	5/16 - 24	1/8	1.6	14.3	11.1	36.1	28.2
JFSC-3T-01N	3/16	4	3/8 - 24	1/8	3.2	14.3	12.7	37.3	29.0
JFSC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	14.3	14.3	39.7	31.0
JFSC-5T-01N	5/16	8	1/2 - 20	1/8	6.0	14.3	15.9	40.5	31.0
JFSC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	19.1	17.5	45.8	36.3
JFSC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	22.2	22.2	47.0	38.9
JFSC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	28.6	25.4	51.6	48.0
JFSC-12T-06N	3/4	18	1 1/16 - 12	3/4	15.5	34.9	31.8	66.6	52.3
JFSC-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	34.9	34.9	67.8	53.1
JFSC-16T-08N	1	25	1 5/16 - 12	1	21.4	41.3	38.1	73.5	58.4
JFSC-20T-10N	1 1/4	32	1 5/8 - 12	1 1/4	27.4	50.8	50.8	78.1	62.2
JFSC-24T-12N	1 1/2	38	1 7/8 - 12	1 1/2	33.3	60.3	57.2	86.7	68.1
JFSC-32T-16N	2	50	2 1/2 - 12	2	45.2	73.0	73.0	89.3	65.5

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* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

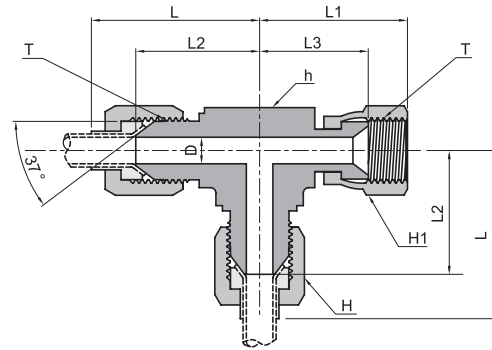
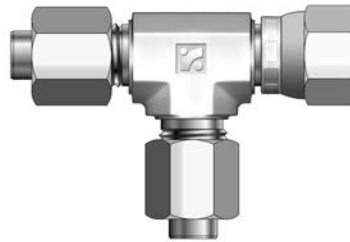
37° Flared Tube Fittings (SAE J514)

JSE Swivel Elbow



Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	L2	L3
	Inch	Metric									
JSE-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	11.1	27.4	19.6	24.6	16.7
JSE-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	12.7	30.5	21.1	25.4	17.1
JSE-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	14.3	31.7	22.6	25.4	16.7
JSE-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	15.9	34.5	24.1	26.9	17.4
JSE-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	17.5	38.8	26.9	31.8	22.3
JSE-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	22.2	44.5	31.8	35.1	24.4
JSE-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	25.4	53.4	36.8	41.1	28.4
JSE-12T	3/4	18	1 1/16 - 12	15.5	27.0	31.8	31.8	57.7	42.2	44.4	30.1
JSE-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	34.9	63.3	45.7	45.2	30.5
JSE-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	38.1	65.0	46.0	50.8	35.7
JSE-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	50.8	70.8	52.3	58.7	42.8
JSE-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	57.2	85.9	59.2	65.8	47.2
JSE-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	73.0	105.2	77.7	85.9	62.1

JSRT Swivel Run Tee

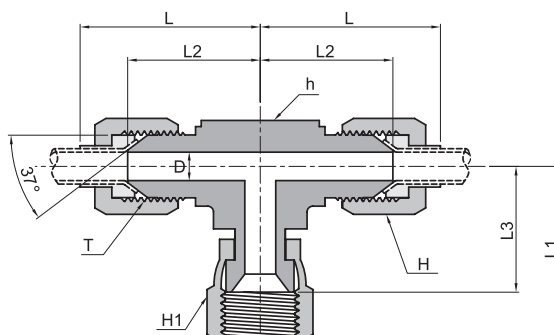


Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	L2	L3
	Inch	Metric									
JSRT-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	11.1	27.4	24.6	19.6	16.7
JSRT-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	12.7	30.5	25.4	21.1	17.1
JSRT-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	14.3	31.7	25.4	22.6	16.7
JSRT-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	15.9	34.5	26.9	24.1	17.4
JSRT-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	17.5	38.8	31.8	26.9	22.3
JSRT-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	22.2	44.5	35.1	31.8	24.4
JSRT-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	25.4	53.4	41.1	36.8	28.4
JSRT-12T	3/4	18	1 1/16 - 12	15.5	27.0	31.8	31.8	57.7	44.4	42.2	30.1
JSRT-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	34.9	63.3	45.2	45.7	30.5
JSRT-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	38.1	65.0	50.8	46.0	35.7
JSRT-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	50.8	70.8	58.7	52.3	42.8
JSRT-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	57.2	85.9	65.8	59.2	47.2
JSRT-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	73.0	105.2	85.9	77.7	62.1

* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

JSBT

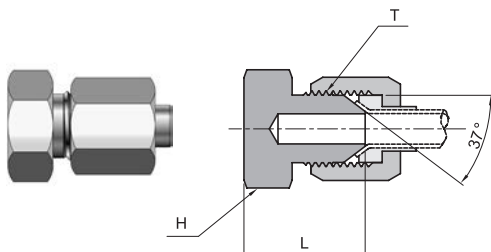
Swivel Branch Tee



Part Number	Tube O.D.		T (UNF/UN)	D	h (HEX)	H (HEX)	H1 (HEX)	L	L1	L2	L3
	Inch	Metric									
JSBT-2T	1/8	3	5/16 - 24	1.6	11.1	9.5	11.1	27.4	24.6	19.6	16.7
JSBT-3T	3/16	4	3/8 - 24	3.2	11.1	11.1	12.7	30.5	25.4	21.1	17.1
JSBT-4T	1/4	6	7/16 - 20	4.4	11.1	14.3	14.3	31.7	25.4	22.6	16.7
JSBT-5T	5/16	8	1/2 - 20	6.0	14.3	15.9	15.9	34.5	26.9	24.1	17.4
JSBT-6T	3/8	10	9/16 - 18	7.5	14.3	17.5	17.5	38.8	31.8	26.9	22.3
JSBT-8T	1/2	12	3/4 - 16	9.9	19.0	22.2	22.2	44.5	35.1	31.8	24.4
JSBT-10T	5/8	16	7/8 - 14	12.3	22.2	25.4	25.4	53.4	41.1	36.8	28.4
JSBT-12T	3/4	18	1 1/16 - 12	15.5	27.0	38.1	31.8	57.7	44.4	42.2	30.1
JSBT-14T	7/8	22	1 3/16 - 12	18.3	33.3	34.9	34.9	63.3	45.2	45.7	30.5
JSBT-16T	1	25	1 5/16 - 12	21.4	33.3	38.1	38.1	65.0	50.8	46.0	35.7
JSBT-20T	1 1/4	32	1 5/8 - 12	27.4	41.3	50.8	50.8	70.8	58.7	52.3	42.8
JSBT-24T	1 1/2	38	1 7/8 - 12	33.3	47.6	57.2	57.2	85.9	65.8	59.2	47.2
JSBT-32T	2	50	2 1/2 - 12	45.2	63.5	73.0	73.0	105.2	85.9	77.7	62.1

JP

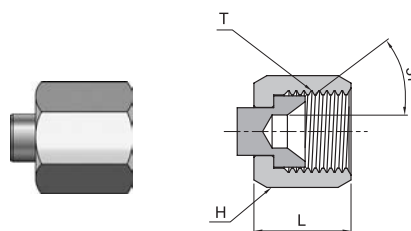
Plug



Part Number	Tube O.D.		T (UNF/UN)	H (HEX)	L
	Inch	Metric			
JP-2T	1/8	3	5/16 - 24	11.1	17.8
JP-3T	3/16	4	3/8 - 24	11.1	18.5
JP-4T	1/4	6	7/16 - 20	12.7	20.3
JP-5T	5/16	8	1/2 - 20	14.3	20.3
JP-6T	3/8	10	9/16 - 18	15.9	21.3
JP-8T	1/2	12	3/4 - 16	20.6	23.9
JP-10T	5/8	16	7/8 - 14	25.4	27.9
JP-12T	3/4	18	1 1/16 - 12	28.6	32.5
JP-14T	7/8	22	1 3/16 - 12	31.8	33.3
JP-16T	1	25	1 5/16 - 12	34.9	33.8
JP-20T	1 1/4	32	1 5/8 - 12	42.9	36.8
JP-24T	1 1/2	38	1 7/8 - 12	50.8	41.9
JP-32T	2	50	2 1/2 - 12	66.7	52.1

JC

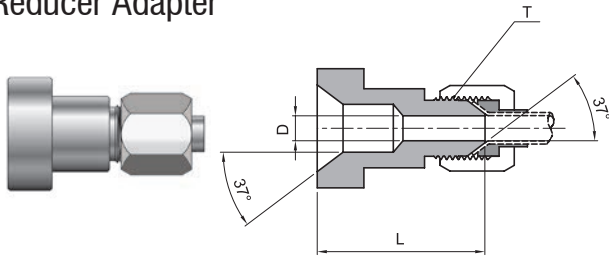
Tube Cap



Part Number	Tube O.D.		T (UNF/UN)	H (HEX)	L
	Inch	Metric			
JC-2T	1/8	3	5/16 - 24	9.5	13.7
JC-3T	3/16	4	3/8 - 24	11.1	15.2
JC-4T	1/4	6	7/16 - 20	14.3	15.5
JC-5T	5/16	8	1/2 - 20	15.9	17.0
JC-6T	3/8	10	9/16 - 18	17.5	18.3
JC-8T	1/2	12	3/4 - 16	22.2	21.3
JC-10T	5/8	16	7/8 - 14	25.4	24.6
JC-12T	3/4	18	1 1/16 - 12	31.8	25.9
JC-14T	7/8	22	1 3/16 - 12	34.9	27.4
JC-16T	1	25	1 5/16 - 12	38.1	28.4
JC-20T	1 1/4	32	1 5/8 - 12	50.8	31.0
JC-24T	1 1/2	38	1 7/8 - 12	57.2	35.8
JC-32T	2	50	2 1/2 - 12	73.0	44.2

JRA

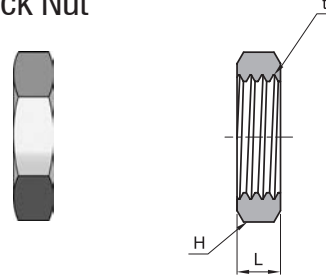
Reducer Adapter



Part Number	Reducing Tube O.D.		T (UNF/UN)	D	L
	Inch	Metric			
JRA-6T-4T	3/8 x 1/4		7/16 - 20	4.4	24.6
JRA-8T-4T	1/2 x 1/4		7/16 - 20	4.4	25.4
JRA-8T-6T	1/2 x 3/8		9/16 - 18	7.5	25.4
JRA-10T-4T	5/8 x 1/4		7/16 - 20	4.4	26.2
JRA-10T-6T	5/8 x 3/8		9/16 - 18	7.5	26.2
JRA-12T-4T	3/4 x 1/4		7/16 - 20	4.4	27.7
JRA-12T-6T	3/4 x 3/8		9/16 - 18	7.5	27.7
JRA-12T-8T	3/4 x 1/2		3/4 - 16	10.0	30.2
JRA-16T-12T	1 x 3/4		1 1/16 - 12	15.5	37.3
JRA-20T-12T	1 1/4 x 3/4		1 1/16 - 12	15.5	38.3
JRA-20T-16T	1 1/4 x 1		1 5/16 - 12	21.5	40.3
JRA-24T-20T	1 1/2 x 1 1/4		1 5/8 - 12	27.5	42.9

JLN

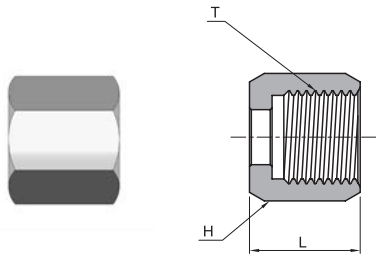
Bulkhead Lock Nut



Part Number	Tube O.D.		T (UNF/UN)	H (HEX)	L
	Inch	Metric			
JLN-2T	1/8	3	5/16 - 24	14.3	5.6
JLN-3T	3/16	4	3/8 - 24	15.9	5.6
JLN-4T	1/4	6	7/16 - 20	17.5	7.1
JLN-5T	5/16	8	1/2 - 20	19.1	7.1
JLN-6T	3/8	10	9/16 - 18	20.6	6.9
JLN-8T	1/2	12	3/4 - 16	25.4	7.9
JLN-10T	5/8	16	7/8 - 14	28.6	9.1
JLN-12T	3/4	18	1 1/16 - 12	34.9	10.4
JLN-14T	7/8	22	1 3/16 - 12	38.1	10.4
JLN-16T	1	25	1 5/16 - 12	41.3	10.4
JLN-20T	1 1/4	32	1 5/8 - 12	47.6	10.4
JLN-24T	1 1/2	38	1 7/8 - 12	54.0	10.4
JLN-32T	2	50	2 1/2 - 12	69.9	10.4

JN

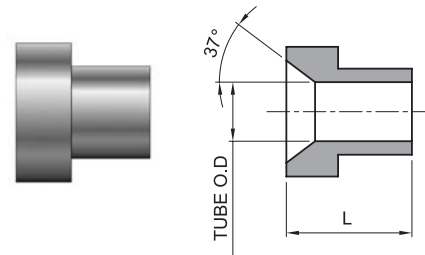
Nut



Part Number	Tube O.D.		T (UNF/UN)	H (HEX)	L
	Inch	Metric			
JN-2T	1/8	3	5/16 - 24	9.5	14.0
JN-3T	3/16	4	3/8 - 24	11.1	15.5
JN-4T	1/4	6	7/16 - 20	14.3	15.8
JN-5T	5/16	8	1/2 - 20	15.9	17.3
JN-6T	3/8	10	9/16 - 18	17.5	18.5
JN-8T	1/2	12	3/4 - 16	22.2	21.6
JN-10T	5/8	16	7/8 - 14	25.4	24.9
JN-12T	3/4	18	1 1/16 - 12	31.8	26.2
JN-14T	7/8	22	1 3/16 - 12	34.9	27.7
JN-16T	1	25	1 5/16 - 12	38.1	28.7
JN-20T	1 1/4	32	1 5/8 - 12	50.8	31.2
JN-24T	1 1/2	38	1 7/8 - 12	57.2	36.1
JN-32T	2	50	2 1/2 - 12	73.0	44.5

JS

Sleeve



Part Number		Tube O.D.		L	
Inch	Metric	Inch	Metric	Inch	Metric
JS-2T	JS-2MT	1/8	-	8.6	-
JS-3T	JS-3MT	3/16	-	8.6	-
JS-4T	JS-6MT	1/4	6	10.4	10.4
JS-5T	JS-8MT	5/16	8	11.2	11.2
JS-6T	JS-10MT	3/8	10	12.7	12.7
JS-8T	JS-12MT	1/2	12	14.2	14.2
JS-10T	JS-16MT	5/8	16	16.8	16.8
JS-12T	JS-18MT	3/4	18	17.3	17.3
JS-14T	JS-22MT	7/8	22	19.3	19.3
JS-16T	JS-25MT	1	25	19.8	19.8
JS-20T	JS-32MT	1 1/4	32	23.1	23.1
JS-24T	JS-38MT	1 1/2	38	28.4	28.4
JS-32T	JS-50MT	2	50	30.2	30.2

※ Metric Sleeves are used with standard nuts & bodies



37° Flared Tube Fittings (SAE J514)