

# 37° Flare Fittings (SAE J514)

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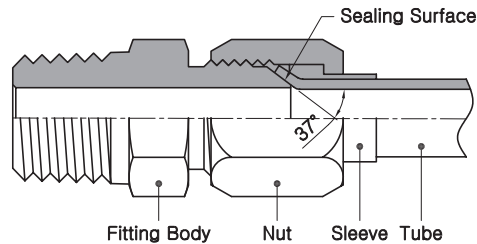


# 04



Catalogue No. S-LOK Jan.2023

## Design Standards



- S-LOK 37° flare fittings consists of body, sleeve and nut and meets the requirements of SAE J514 and ISO 8434-2 standards.
- Tapered threads meet the requirements of ASME B 1.20.1 (NPT), ISO 7/1, BS 21 (BSPT), JIS B 0203 (PT).
- Parallel threads meet the requirements of ASME B 1.1 (UN/UNF), ISO 228/1, BS 2799 (BSPP), JIS B 0202 (PF).

## Material Standards

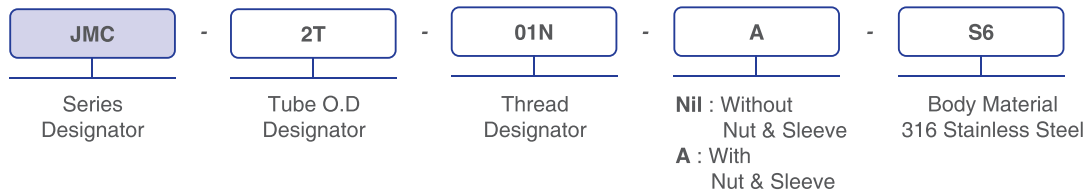
Materials / Material designator	Body		Nut & Sleeve	Applicable Tubing Spec.
	Bar Stock	Forging		
Stainless Steel 316/316L / S6	ASTM A276/A479 Type 316/316L	ASTM A182 F316/F316L	ASTM A276/A479 Type 316/316L	ASTM A269/A213
Carbon Steel / CS	ASTM A108 JIS G4051 S45C	ASTM A105 JIS G4051 S45C	ASTM A108 JIS G4051 S45C	ASTM A179/A161

## Working Pressure Ratings

SAE Dash Size	Tube O.D.		SAE Thread	Union & Bulkhead		Fitting with Female Swivel		Fitting with Pipe Thread	
	inch	mm		psi	bar	psi	bar	psi	bar
2	1/8	3	5/16 - 24	5000	345	5000	345	5000	345
3	3/16	4	3/8 - 24	5000	345	5000	345	5000	345
4	1/4	6	7/16 - 20	5000	345	4500	310	5000	345
5	5/16	8	1/2 - 20	5000	345	4000	275	5000	345
6	3/8	10	9/16 - 18	5000	345	4000	275	4000	275
8	1/2	12	3/4 - 16	4500	310	4000	275	3000	210
10	5/8	16	7/8 - 14	3500	240	3000	210	3000	210
12	3/4	18, 20	1 1/16 - 12	3500	240	3000	210	2500	170
14	7/8	22	1 3/16 - 12	3000	210	2500	170	2500	170
16	1	25	1 5/16 - 12	3000	210	2500	170	2000	140
20	1-1/4	32	1 5/8 - 12	2500	170	2000	140	1150	80
24	1-1/2	38	1 7/8 - 12	2000	140	1500	105	1000	70
32	2	50	2 1/2 - 12	1500	105	1125	80	1000	70

## Ordering Information

Selection the applicable options from designators listed.



### Tube O.D Designators

Tube O.D Size, 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	
2T	3T	4T	5T	6T	8T	10T	12T	14T	16T	20T	24T	32T	

Tube O.D Size, metric													
3	4	6	8	10	12	16	18	20	22	25	32	38	
3M	4M	6M	8M	10M	12M	16M	18M	20M	22M	25M	32M	38M	








### Pipe Thread Designators

Thread Type	Standard	Pipe Thread Size											
		1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2			
NPT	ASME B 1.20.1	01N	02N	03N	04N	06N	08N	10N	12N	16N			
PT	ISO 7-1, BS-21, JIS B0203	01R	02R	03R	04R	06R	08R	10R	12R	16R			
PF	ISO 228-1, BS 2779, JIS B 0202	01G	02G	03G	04G	06G	08G	10G	12G	16G			



### Unified Thread Designators

Standard	Unified Inch 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	
ASME B 1.1	02U	03U	04U	05U	06U	08U	10U	12U	14U	16U	20U	24U	32U	

**Tube to Tube Union**

<i>Union</i> <b>JU</b>		166
<i>Union Elbow</i> <b>JL</b>		166
<i>Union Tee</i> <b>JT</b>		167
<i>Union Cross</i> <b>JX</b>		167
<i>Bulkhead Union</i> <b>JUB</b>		168
<i>Weld Bulkhead Union</i> <b>JUBW</b>		168
<i>Bulkhead Union Elbow</i> <b>JBL</b>		169







**Tube to Male Pipe**

<i>Male Connector</i> <b>JMC</b>		169
<i>Male Elbow</i> <b>JLM</b>		170
<i>Male Elbow</i> <b>JTRM</b>		170
<i>Male Branch Tee</i> <b>JTBM</b>		171
<i>45° Male Elbow</i> <b>JLBM</b>		171

**Tube to Female Pipe**

<i>Female Connector</i> <b>JCF</b>		172
<i>Bulkhead Female Connector</i> <b>JCBF</b>		172
<i>Female Elbow</i> <b>JLF</b>		173
<i>Female Run Tee</i> <b>JTRF</b>		173
<i>Female Branch Tee</i> <b>JTBF</b>		174

**Tube to Straight Thread**

<i>O-Seal Male Connector (PF)</i> <b>JMCS-G</b>		174
<i>O-Seal Male Connector (UNF)</i> <b>JMCS-U</b>		175
<i>O-Seal Male Elbow (UNF)</i> <b>JLS-U</b>		175
<i>O-Seal 45° Male Elbow (UNF)</i> <b>JLBS-U</b>		176
<i>O-Seal Run Tee (UNF)</i> <b>JTRS-U</b>		176
<i>O-Seal Branch Tee (UNF)</i> <b>JTBS-U</b>		177

## Swivel Fittings

Swivel Connector

**JSMC**



177

O-Seal Swivel Connector (UNF)

**JSMCS-U**



178

Swivel Female Connector

**JSCF**



178

Swivel Elbow

**JSL**



179

Swivel Run Tee

**JSTR**



179

Swivel Branch Tee

**JSTB**



180

## Spare Parts

Nut

**JN**



180

Sleeve

**JS**



180

Plug

**JP**



181

Cap

**JCA**



181

Fitting Port Reducer

**JPR**



182

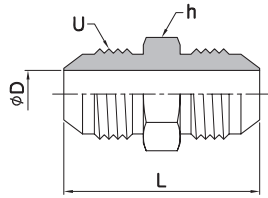
Bulkhead Lock Nut

**JLN**



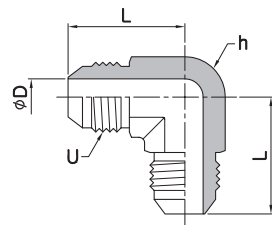
182

Union  
**JU**



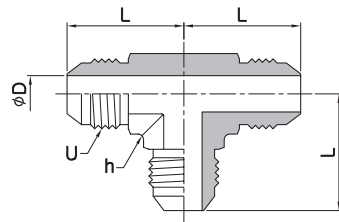
Part No.	Tube O.D		U (UN / UNF)	D	L	h (HEX)
	inch	mm				
JU-2T	1/8	3	5/16 - 24	1.6	29.7	11.1
JU-3T	3/16	4	3/8 - 24	3.2	31.2	11.1
JU-4T	1/4	6	7/16 - 20	4.4	34.8	12.7
JU-5T	5/16	8	1/2 - 20	6.0	34.8	14.3
JU-6T	3/8	10	9/16 - 18	7.5	35.8	15.8
JU-8T	1/2	12	3/4 - 16	9.9	41.1	20.6
JU-10T	5/8	16	7/8 - 14	12.3	47.8	23.8
JU-12T	3/4	18, 20	1 1/16 - 12	15.5	54.9	28.5
JU-14T	7/8	22	1 3/16 - 12	18.3	56.1	31.7
JU-16T	1	25	1 5/16 - 12	21.4	57.2	34.9
JU-20T	1-1/4	32	1 5/8 - 12	27.4	61.7	46.0
JU-24T	1-1/2	38	1 7/8 - 12	33.3	69.8	50.8
JU-32T	2	50	2 1/2 - 12	45.2	86.4	70.0

Union Elbow  
**JL**



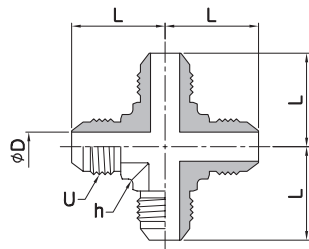
Part No.	Tube O.D		U (UN / UNF)	D	L	h (HEX)
	inch	mm				
JL-2T	1/8	3	5/16 - 24	1.6	19.6	11.1
JL-3T	3/16	4	3/8 - 24	3.2	21.1	11.1
JL-4T	1/4	6	7/16 - 20	4.4	22.6	11.1
JL-5T	5/16	8	1/2 - 20	6.0	24.1	14.3
JL-6T	3/8	10	9/16 - 18	7.5	26.9	14.3
JL-8T	1/2	12	3/4 - 16	9.9	31.8	19.0
JL-10T	5/8	16	7/8 - 14	12.3	36.8	22.2
JL-12T	3/4	18, 20	1 1/16 - 12	15.5	42.2	27.0
JL-14T	7/8	22	1 3/16 - 12	18.3	45.7	33.3
JL-16T	1	25	1 5/16 - 12	21.4	46.0	33.3
JL-20T	1-1/4	32	1 5/8 - 12	27.4	52.3	41.3
JL-24T	1-1/2	38	1 7/8 - 12	33.3	59.2	47.6
JL-32T	2	50	2 1/2 - 12	45.2	77.7	63.5

## Union Tee

**JT**

Part No.	Tube O.D.		U (UN / UNF)	D	L	h (HEX)
	inch	mm				
JT-2T	1/8	3	5/16 - 24	1.6	19.6	11.1
JT-3T	3/16	4	3/8 - 24	3.2	21.1	11.1
JT-4T	1/4	6	7/16 - 20	4.4	22.6	11.1
JT-5T	5/16	8	1/2 - 20	6.0	24.1	14.3
JT-6T	3/8	10	9/16 - 18	7.5	26.9	14.3
JT-8T	1/2	12	3/4 - 16	9.9	31.8	19.0
JT-10T	5/8	16	7/8 - 14	12.3	36.8	22.2
JT-12T	3/4	18, 20	1 1/16 - 12	15.5	42.2	27.0
JT-14T	7/8	22	1 3/16 - 12	18.3	45.7	33.3
JT-16T	1	25	1 5/16 - 12	21.4	46.0	33.3
JT-20T	1-1/4	32	1 5/8 - 12	27.4	52.3	41.3
JT-24T	1-1/2	38	1 7/8 - 12	33.3	59.2	47.6
JT-32T	2	50	2 1/2 - 12	45.2	77.7	63.5

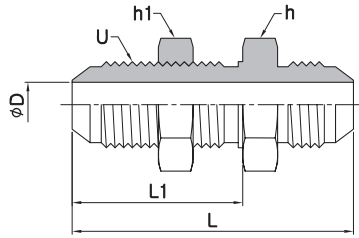
## Union Cross

**JX**

Part No.	Tube O.D.		U (UN / UNF)	D	L	h (HEX)
	inch	mm				
JX-2T	1/8	3	5/16 - 24	1.6	19.6	11.1
JX-3T	3/16	4	3/8 - 24	3.2	21.1	11.1
JX-4T	1/4	6	7/16 - 20	4.4	22.6	11.1
JX-5T	5/16	8	1/2 - 20	6.0	24.1	14.3
JX-6T	3/8	10	9/16 - 18	7.5	26.9	14.3
JX-8T	1/2	12	3/4 - 16	9.9	31.8	19.0
JX-10T	5/8	16	7/8 - 14	12.3	36.8	22.2
JX-12T	3/4	18, 20	1 1/16 - 12	15.5	42.2	27.0
JX-14T	7/8	22	1 3/16 - 12	18.3	45.7	33.3
JX-16T	1	25	1 5/16 - 12	21.4	46.0	33.3
JX-20T	1-1/4	32	1 5/8 - 12	27.4	52.3	41.3
JX-24T	1-1/2	38	1 7/8 - 12	33.3	59.2	47.6
JX-32T	2	50	2 1/2 - 12	45.2	77.7	63.5

Bulkhead Union

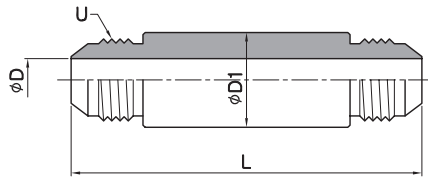
**JUB**



Part No.	Tube O.D		U (UN / UNF)	D	L	L1	h (HEX)	h1 (HEX)
	inch	mm						
JUB-2T	1/8	3	5/16 - 24	1.6	47.5	28.2	11.1	14.3
JUB-3T	3/16	4	3/8 - 24	3.2	48.3	28.2	11.1	15.8
JUB-4T	1/4	6	7/16 - 20	4.4	52.6	30.5	12.7	17.4
JUB-5T	5/16	8	1/2 - 20	6.0	52.6	30.5	14.3	19.0
JUB-6T	3/8	10	9/16 - 18	7.5	55.4	32.5	15.8	20.6
JUB-8T	1/2	12	3/4 - 16	9.9	62.0	36.6	20.6	25.4
JUB-10T	5/8	16	7/8 - 14	12.3	69.6	40.1	23.8	28.5
JUB-12T	3/4	18, 20	1 1/16 - 12	15.5	78.5	44.4	28.5	34.9
JUB-14T	7/8	22	1 3/16 - 12	18.3	79.2	44.4	31.7	38.1
JUB-16T	1	25	1 5/16 - 12	21.4	79.8	44.4	34.9	41.2
JUB-20T	1-1/4	32	1 5/8 - 12	27.4	84.1	45.7	46.0	47.6
JUB-24T	1-1/2	38	1 7/8 - 12	33.3	89.4	46.0	53.9	53.9
JUB-32T	2	50	2 1/2 - 12	45.2	106.7	53.1	70.0	69.8

Weld Bulkhead Union

**JUBW**

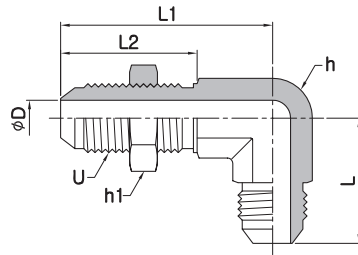


Part No.	Tube O.D		U (UN / UNF)	D	D1	L
	inch	mm				
JUBW-2T	1/8	3	5/16 - 24	1.6	11.0	70.0
JUBW-3T	3/16	4	3/8 - 24	3.2	11.0	70.0
JUBW-4T	1/4	6	7/16 - 20	4.4	14.0	80.0
JUBW-5T	5/16	8	1/2 - 20	6.0	16.0	100.0
JUBW-6T	3/8	10	9/16 - 18	7.5	17.0	100.0
JUBW-8T	1/2	12	3/4 - 16	9.9	22.0	100.0
JUBW-10T	5/8	16	7/8 - 14	12.3	25.0	110.0
JUBW-12T	3/4	18, 20	1 1/16 - 12	15.5	30.0	120.0
JUBW-14T	7/8	22	1 3/16 - 12	18.3	32.0	130.0
JUBW-16T	1	25	1 5/16 - 12	21.4	40.0	130.0
JUBW-20T	1-1/4	32	1 5/8 - 12	27.4	46.0	140.0
JUBW-24T	1-1/2	38	1 7/8 - 12	33.3	50.0	140.0
JUBW-32T	2	50	2 1/2 - 12	45.2	70.0	150.0



Bulkhead Union Elbow

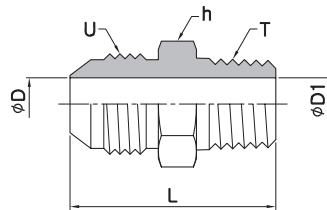
**JBL**



Part No.	Tube O.D		U (UN / UNF)	D	L	L1	L2	h (HEX)	h1 (HEX)
	inch	mm							
JBL-2T	1/8	3	5/16 - 24	1.6	22.4	38.1	23.4	11.1	14.3
JBL-3T	3/16	4	3/8 - 24	3.2	23.9	38.1	23.4	11.1	15.8
JBL-4T	1/4	6	7/16 - 20	4.4	24.6	40.4	25.9	11.1	17.4
JBL-5T	5/16	8	1/2 - 20	6.0	26.9	43.7	25.9	14.3	19.0
JBL-6T	3/8	10	9/16 - 18	7.5	27.7	46.0	27.7	14.3	20.6
JBL-8T	1/2	12	3/4 - 16	9.9	34.5	53.6	31.8	19.0	25.4
JBL-10T	5/8	16	7/8 - 14	12.3	39.6	60.7	35.3	22.2	28.5
JBL-12T	3/4	18, 20	1 1/16 - 12	15.5	45.2	67.8	39.6	27.0	34.9
JBL-14T	7/8	22	1 3/16 - 12	18.3	48.8	71.1	39.6	33.3	38.1
JBL-16T	1	25	1 5/16 - 12	21.4	49.3	71.1	39.6	33.3	41.2
JBL-20T	1-1/4	32	1 5/8 - 12	27.4	55.1	79.2	40.9	41.3	47.6
JBL-24T	1-1/2	38	1 7/8 - 12	33.3	59.4	86.9	41.1	47.6	53.9
JBL-32T	2	50	2 1/2 - 12	45.2	73.4	104.4	48.5	63.5	69.8

Male Connector

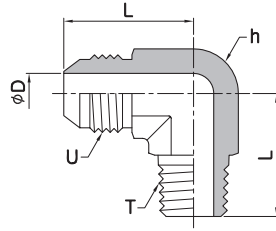
**JMC**



Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	D1	L	h (HEX)
	inch	mm						
JMC-2T-01N	1/8	3	5/16 - 24	1/8	1.6	4.8	28.2	11.1
JMC-3T-01N	3/16	4	3/8 - 24	1/8	3.2	4.8	29.0	11.1
JMC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	4.8	31.0	12.7
JMC-5T-01N	5/16	8	1/2 - 20	1/8	6.0	4.8	31.0	14.3
JMC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	7.0	36.3	15.8
JMC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	10.3	38.9	20.6
JMC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	13.5	48.0	23.8
JMC-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	18.3	52.3	28.5
JMC-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	18.3	53.1	31.7
JMC-16T-08N	1	25	1 5/16 - 12	1	21.4	23.8	58.4	34.9
JMC-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	31.7	62.2	46.0
JMC-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	38.0	68.1	50.8
JMC-32T-16N	2	50	2 1/2 - 12	2	45.2	49.0	79.0	70.0

Male Elbow

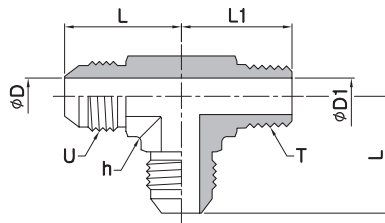
**JLM**



Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	D1	L	L1	h (HEX)
	inch	mm							
JLM-2T-01N	1/8	3	5/16 - 24	1/8	1.6	4.8	19.6	18.3	11.1
JLM-3T-01N	3/16	4	3/8 - 24	1/8	3.2	4.8	21.1	18.3	11.1
JLM-4T-01N	1/4	6	7/16 - 20	1/8	4.4	4.8	22.6	19.8	11.1
JLM-5T-01N	5/16	8	1/2 - 20	1/8	6.0	4.8	24.1	19.8	14.3
JLM-6T-02N	3/8	10	9/16 - 18	1/4	7.5	7.0	26.9	27.7	14.3
JLM-8T-03N	1/2	12	3/4 - 16	3/8	9.9	10.3	31.8	31.0	19.0
JLM-10T-04N	5/8	16	7/8 - 14	1/2	12.3	13.5	36.8	37.3	22.2
JLM-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	18.3	42.2	40.4	27.0
JLM-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	18.3	45.7	42.9	33.3
JLM-16T-08N	1	25	1 5/16 - 12	1	21.4	23.8	46.0	50.0	33.3
JLM-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	31.7	52.3	60.5	41.3
JLM-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	38.0	59.2	67.1	47.6
JLM-32T-16N	2	50	2 1/2 - 12	2	45.2	49.0	77.7	76.2	63.5

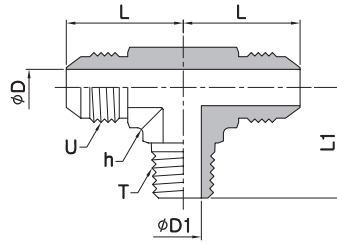
Male Run Tee

**JTRM**



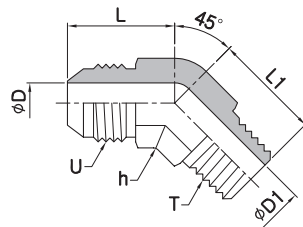
Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	D1	L	L1	h (HEX)
	inch	mm							
JTRM-2T-01N	1/8	3	5/16 - 24	1/8	1.6	4.8	19.6	18.3	11.1
JTRM-3T-01N	3/16	4	3/8 - 24	1/8	3.2	4.8	21.1	18.3	11.1
JTRM-4T-01N	1/4	6	7/16 - 20	1/8	4.4	4.8	22.6	19.8	11.1
JTRM-5T-01N	5/16	8	1/2 - 20	1/8	6.0	4.8	24.1	19.8	14.3
JTRM-6T-02N	3/8	10	9/16 - 18	1/4	7.5	7.0	26.9	27.7	14.3
JTRM-8T-03N	1/2	12	3/4 - 16	3/8	9.9	10.3	31.8	31.0	19.0
JTRM-10T-04N	5/8	16	7/8 - 14	1/2	12.3	13.5	36.8	37.3	22.2
JTRM-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	18.3	42.2	40.4	27.0
JTRM-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	18.3	45.7	42.9	33.3
JTRM-16T-08N	1	25	1 5/16 - 12	1	21.4	23.8	46.0	50.0	33.3
JTRM-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	31.7	52.3	60.5	41.3
JTRM-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	38.0	59.2	67.1	47.6
JTRM-32T-16N	2	50	2 1/2 - 12	2	45.2	49.0	77.7	76.2	63.5

## Male Branch Tee

**JTBM**

Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	D1	L	L1	h (HEX)
	inch	mm							
JTBM-2T-01N	1/8	3	5/16 - 24	1/8	1.6	4.8	19.6	18.3	11.1
JTBM-3T-01N	3/16	4	3/8 - 24	1/8	3.2	4.8	21.1	18.3	11.1
JTBM-4T-01N	1/4	6	7/16 - 20	1/8	4.4	4.8	22.6	19.8	11.1
JTBM-5T-01N	5/16	8	1/2 - 20	1/8	6.0	4.8	24.1	19.8	14.3
JTBM-6T-02N	3/8	10	9/16 - 18	1/4	7.5	7.0	26.9	27.7	14.3
JTBM-8T-03N	1/2	12	3/4 - 16	3/8	9.9	10.3	31.8	31.0	19.0
JTBM-10T-04N	5/8	16	7/8 - 14	1/2	12.3	13.5	36.8	37.3	22.2
JTBM-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	18.3	42.2	40.4	27.0
JTBM-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	18.3	45.7	42.9	33.3
JTBM-16T-08N	1	25	1 5/16 - 12	1	21.4	23.8	46.0	50.0	33.3
JTBM-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	31.7	52.3	60.5	41.3
JTBM-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	38.0	59.2	67.1	47.6
JTBM-32T-16N	2	50	2 1/2 - 12	2	45.2	49.0	77.7	76.2	63.5

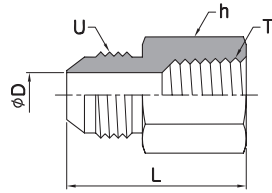
## 45° Male Elbow

**JLBM**

Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	D1	L	L1	h (HEX)
	inch	mm							
JLBM-2T-01N	1/8	3	5/16 - 24	1/8	1.6	4.8	17.5	13.2	11.1
JLBM-3T-01N	3/16	4	3/8 - 24	1/8	3.2	4.8	17.5	13.2	11.1
JLBM-4T-01N	1/4	6	7/16 - 20	1/8	4.4	4.8	18.3	16.3	11.1
JLBM-5T-01N	5/16	8	1/2 - 20	1/8	6.0	4.8	19.6	16.3	14.3
JLBM-6T-02N	3/8	10	9/16 - 18	1/4	7.5	7.0	21.1	21.8	14.3
JLBM-8T-03N	1/2	12	3/4 - 16	3/8	9.9	10.3	24.9	24.1	19.0
JLBM-10T-04N	5/8	16	7/8 - 14	1/2	12.3	13.5	28.2	29.7	22.2
JLBM-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	18.3	32.5	30.5	27.0
JLBM-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	18.3	36.8	33.0	33.3
JLBM-16T-08N	1	25	1 5/16 - 12	1	21.4	23.8	37.3	37.6	33.3
JLBM-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	31.7	40.4	42.4	41.3
JLBM-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	38.0	45.2	45.0	47.6
JLBM-32T-16N	2	50	2 1/2 - 12	2	45.2	49.0	56.4	53.6	63.5

Female Connector

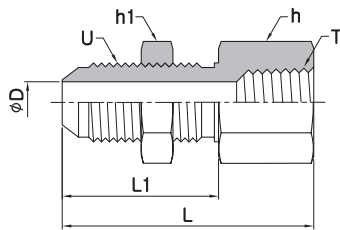
**JCF**



Part No.	Tube O.D.		U (UN / UNF)	T (NPT)	D	L	h (HEX)
	inch	mm					
JCF-2T-01N	1/8	3	5/16 - 24	1/8	1.6	28.4	14.3
JCF-3T-01N	3/16	4	3/8 - 24	1/8	3.2	28.7	14.3
JCF-4T-01N	1/4	6	7/16 - 20	1/8	4.4	30.2	14.3
JCF-5T-01N	5/16	8	1/2 - 20	1/8	6.0	29.7	14.3
JCF-6T-02N	3/8	10	9/16 - 18	1/4	7.5	35.6	19.0
JCF-8T-03N	1/2	12	3/4 - 16	3/8	9.9	39.6	22.2
JCF-10T-04N	5/8	16	7/8 - 14	1/2	12.3	48.0	28.5
JCF-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	52.3	34.9
JCF-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	52.3	34.9
JCF-16T-08N	1	25	1 5/16 - 12	1	21.4	59.7	41.2
JCF-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	63.2	50.8
JCF-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	66.5	60.3
JCF-32T-16N	2	50	2 1/2 - 12	2	45.2	75.4	73.0

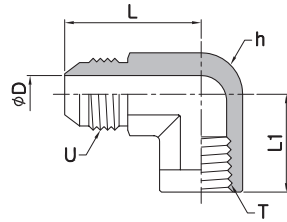
Bulkhead Female Connector

**JCBF**



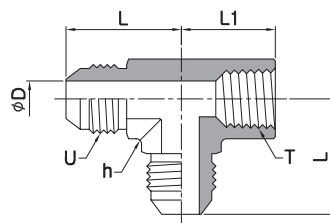
Part No.	Tube O.D.		U (UN / UNF)	T (NPT)	D	L	L1	h (HEX)	h1 (HEX)
	inch	mm							
JCBF-2T-01N	1/8	3	5/16 - 24	1/8	1.6	41.2	28.2	14.3	14.3
JCBF-3T-01N	3/16	4	3/8 - 24	1/8	3.2	41.2	28.2	14.3	15.8
JCBF-4T-01N	1/4	6	7/16 - 20	1/8	4.4	46.7	30.5	14.3	17.4
JCBF-5T-01N	5/16	8	1/2 - 20	1/8	6.0	43.5	30.5	14.3	19.0
JCBF-6T-02N	3/8	10	9/16 - 18	1/4	7.5	52.3	32.5	19.0	20.6
JCBF-8T-03N	1/2	12	3/4 - 16	3/8	9.9	54.4	36.6	22.2	25.4
JCBF-10T-04N	5/8	16	7/8 - 14	1/2	12.3	67.5	40.1	28.5	28.5
JCBF-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	73.9	44.4	34.9	34.9
JCBF-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	73.4	44.4	34.9	38.1
JCBF-16T-08N	1	25	1 5/16 - 12	1	21.4	78.5	44.4	41.2	41.2
JCBF-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	80.7	45.7	50.8	47.6
JCBF-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	85.1	46.0	60.3	53.9
JCBF-32T-16N	2	50	2 1/2 - 12	2	45.2	93.1	53.1	73.0	69.8

## Female Elbow

**JLF**

Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	L	L1	h (HEX)
	inch	mm						
JLF-2T-01N	1/8	3	5/16 - 24	1/8	1.6	25.4	16.8	14.3
JLF-3T-01N	3/16	4	3/8 - 24	1/8	3.2	26.2	16.8	14.3
JLF-4T-01N	1/4	6	7/16 - 20	1/8	4.4	27.4	16.8	14.3
JLF-5T-01N	5/16	8	1/2 - 20	1/8	6.0	27.4	16.8	14.3
JLF-6T-02N	3/8	10	9/16 - 18	1/4	7.5	31.2	22.4	19.0
JLF-8T-03N	1/2	12	3/4 - 16	3/8	9.9	36.1	25.9	22.2
JLF-10T-04N	5/8	16	7/8 - 14	1/2	12.3	41.7	31.2	27.0
JLF-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	48.0	34.5	33.3
JLF-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	47.2	36.1	33.3
JLF-16T-08N	1	25	1 5/16 - 12	1	21.4	55.1	41.1	41.3
JLF-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	59.2	43.2	47.6
JLF-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	73.4	52.8	65.1
JLF-32T-16N	2	50	2 1/2 - 12	2	45.2	83.8	60.7	71.4

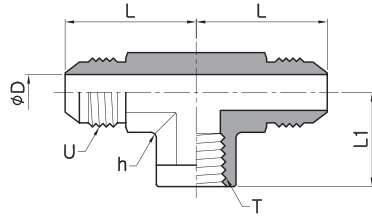
## Female Run Tee

**JTRF**

Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	L	L1	h (HEX)
	inch	mm						
JTRF-2T-01N	1/8	3	5/16 - 24	1/8	1.6	25.4	16.8	14.3
JTRF-3T-01N	3/16	4	3/8 - 24	1/8	3.2	26.2	16.8	14.3
JTRF-4T-01N	1/4	6	7/16 - 20	1/8	4.4	27.4	16.8	14.3
JTRF-5T-01N	5/16	8	1/2 - 20	1/8	6.0	27.4	16.8	14.3
JTRF-6T-02N	3/8	10	9/16 - 18	1/4	7.5	31.2	22.4	19.0
JTRF-8T-03N	1/2	12	3/4 - 16	3/8	9.9	36.1	25.9	22.2
JTRF-10T-04N	5/8	16	7/8 - 14	1/2	12.3	41.7	31.2	27.0
JTRF-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	48.0	34.5	33.3
JTRF-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	47.2	36.1	33.3
JTRF-16T-08N	1	25	1 5/16 - 12	1	21.4	55.1	41.1	41.3
JTRF-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	59.2	43.2	47.6
JTRF-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	73.4	52.8	65.1
JTRF-32T-16N	2	50	2 1/2 - 12	2	45.2	83.8	60.7	71.4

Female Branch Tee

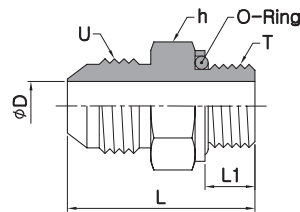
**JTBF**



Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	L	L1	h (HEX)
	inch	mm						
JTBF-2T-01N	1/8	3	5/16 - 24	1/8	1.6	25.4	16.8	14.3
JTBF-3T-01N	3/16	4	3/8 - 24	1/8	3.2	26.2	16.8	14.3
JTBF-4T-01N	1/4	6	7/16 - 20	1/8	4.4	27.4	16.8	14.3
JTBF-5T-01N	5/16	8	1/2 - 20	1/8	6.0	27.4	16.8	14.3
JTBF-6T-02N	3/8	10	9/16 - 18	1/4	7.5	31.2	22.4	19.0
JTBF-8T-03N	1/2	12	3/4 - 16	3/8	9.9	36.1	25.9	22.2
JTBF-10T-04N	5/8	16	7/8 - 14	1/2	12.3	41.7	31.2	27.0
JTBF-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	48.0	34.5	33.3
JTBF-14T-06N	7/8	22	1 3/16 - 12	3/4	18.3	47.2	36.1	33.3
JTBF-16T-08N	1	25	1 5/16 - 12	1	21.4	55.1	41.1	41.3
JTBF-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	59.2	43.2	47.6
JTBF-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	73.4	52.8	65.1
JTBF-32T-16N	2	50	2 1/2 - 12	2	45.2	83.8	60.7	71.4

O-Seal Male Connector (PF)

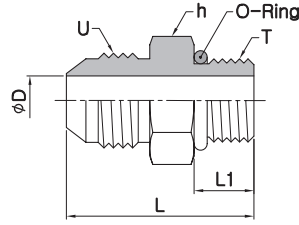
**JMCS-G**



Part No.	Tube O.D		U (UN / UNF)	T (PF)	D	L	L1	h (HEX)
	inch	mm						
JMCS-4T-01G	1/4	6	7/16 - 20	1/8	4.4	28.7	6.2	17.0
JMCS-5T-01G	5/16	8	1/2 - 20	1/8	6.0	28.7	6.2	17.0
JMCS-6T-02G	3/8	10	9/16 - 18	1/4	7.5	32.0	9.3	19.1
JMCS-8T-03G	1/2	12	3/4 - 16	3/8	9.9	36.0	9.3	22.2
JMCS-10T-04G	5/8	16	7/8 - 14	1/2	12.3	43.9	12.6	30.0
JMCS-12T-06G	3/4	18, 20	1 1/16 - 12	3/4	15.5	47.5	12.6	36.0
JMCS-16T-08G	1	25	1 5/16 - 12	1	21.4	53.6	15.9	46.0
JMCS-20T-10G	1-1/4	32	1 5/8 - 12	1-1/4	27.4	56.4	15.9	50.0
JMCS-24T-12G	1-1/2	38	1 7/8 - 12	1-1/2	33.3	61.0	15.9	55.0
JMCS-32T-16G	2	50	2 1/2 - 12	2	45.2	80.5	25.0	70.0

O-Seal Male Connector (UNF)

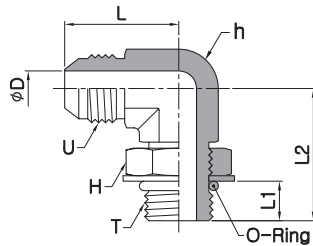
**JMCS-U**



Part No.	Tube O.D		U (UN / UNF)	T (UN / UNF)	D	L	L1	h (HEX)
	inch	mm						
JMCS-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	26.9	7.5	11.1
JMCS-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	27.9	7.5	12.7
JMCS-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	31.2	9.1	14.3
JMCS-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	31.2	9.1	15.8
JMCS-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	33.0	9.9	17.4
JMCS-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	37.6	11.1	22.2
JMCS-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	43.2	12.7	25.4
JMCS-12T-12U	3/4	18, 20	1 1/16 - 12	1 1/16 - 12	15.5	50.0	15.1	31.7
JMCS-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	50.5	15.1	34.9
JMCS-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	51.8	15.1	38.1
JMCS-20T-20U	1-1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	55.1	15.1	47.6
JMCS-24T-24U	1-1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	60.2	15.1	53.9
JMCS-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	70.6	15.1	69.8

O-seal Male Elbow (UNF)

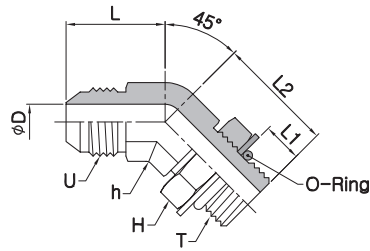
**JLS-U**



Part No.	Tube O.D		U (UN / UNF)	T (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm								
JLS-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	19.6	8.4	23.9	11.1	14.3
JLS-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	21.1	8.5	23.9	11.1	15.8
JLS-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	22.6	9.8	26.2	11.1	17.4
JLS-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	24.1	9.8	28.7	14.3	19.0
JLS-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	26.9	11.0	31.8	14.3	20.6
JLS-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	31.8	12.5	36.8	19.0	25.4
JLS-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	36.8	14.3	43.2	22.2	28.5
JLS-12T-12U	3/4	18, 20	1 1/16 - 12	1 1/16 - 12	15.5	42.2	16.5	49.3	27.0	34.9
JLS-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	45.7	16.5	50.8	33.3	38.1
JLS-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	46.0	16.5	52.1	33.3	41.2
JLS-20T-20U	1-1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	52.3	16.5	57.2	41.3	47.6
JLS-24T-24U	1-1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	59.2	16.5	60.7	47.6	53.9
JLS-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	77.7	16.5	73.4	63.5	69.8

O-Seal 45° Male Elbow (UNF)

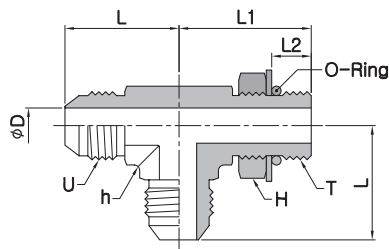
**JLBS-U**



Part No.	Tube O.D		U (UN / UNF)	T (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm								
JLBS-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	17.5	8.4	22.4	11.1	14.3
JLBS-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	17.5	9.5	22.4	11.1	15.8
JLBS-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	18.3	9.8	26.7	11.1	17.4
JLBS-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	19.6	9.8	26.7	14.3	19.0
JLBS-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	21.1	11.0	29.0	14.3	20.6
JLBS-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	24.9	12.5	33.0	19.0	25.4
JLBS-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	28.2	14.3	38.6	22.2	28.5
JLBS-12T-12U	3/4	18, 20	1 1/16 - 12	1 1/16 - 12	15.5	32.5	16.5	43.9	27.0	34.9
JLBS-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	36.8	16.5	47.2	33.3	38.1
JLBS-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	37.3	16.5	47.2	33.3	41.2
JLBS-20T-20U	1-1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	40.4	16.5	48.5	41.3	47.6
JLBS-24T-24U	1-1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	45.2	16.5	48.5	47.6	53.9
JLBS-32T-32U	2W	50	2 1/2 - 12	2 1/2 - 12	45.2	56.4	16.5	47.2	63.5	69.8

O-Seal Tun Tee (UNF)

**JTRS-U**

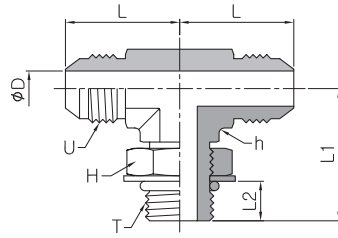


Part No.	Tube O.D		U (UN / UNF)	T (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm								
JTRS-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	19.6	23.9	8.4	11.1	14.3
JTRS-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	21.1	23.9	8.5	11.1	15.8
JTRS-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	22.6	26.2	9.8	11.1	17.4
JTRS-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	24.1	28.7	9.8	14.3	19.0
JTRS-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	26.9	31.8	11.0	14.3	20.6
JTRS-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	31.8	36.8	12.5	19.0	25.4
JTRS-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	36.8	43.2	14.3	22.2	28.5
JTRS-12T-12U	3/4	18, 20	1 1/16 - 12	1 1/16 - 12	15.5	42.2	49.3	16.5	27.0	34.9
JTRS-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	45.7	50.8	16.5	33.3	38.1
JTRS-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	46.0	52.1	16.5	33.3	41.2
JTRS-20T-20U	1-1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	52.3	57.2	16.5	41.3	47.6
JTRS-24T-24U	1-1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	59.2	60.7	16.5	47.6	53.9
JTRS-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	77.7	73.4	16.5	63.5	69.8



O-Seal Branch Tee (UNF)

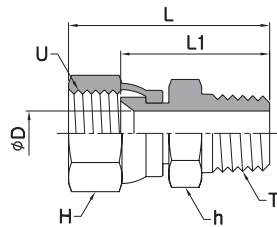
**JTBS-U**



Part No.	Tube O.D		U (UN / UNF)	T (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm								
JTBS-2T-02U	1/8	3	5/16 - 24	5/16 - 24	1.6	19.6	23.9	8.4	11.1	14.3
JTBS-3T-03U	3/16	4	3/8 - 24	3/8 - 24	3.2	21.1	23.9	8.5	11.1	15.8
JTBS-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	22.6	26.2	9.8	11.1	17.4
JTBS-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	24.1	28.7	9.8	14.3	19.0
JTBS-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	26.9	31.8	11.0	14.3	20.6
JTBS-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	31.8	36.8	12.5	19.0	25.4
JTBS-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	36.8	43.2	14.3	22.2	28.5
JTBS-12T-12U	3/4	18, 20	1 1/16 - 12	1 1/16 - 12	15.5	42.2	49.3	16.5	27.0	34.9
JTBS-14T-14U	7/8	22	1 3/16 - 12	1 3/16 - 12	18.3	45.7	50.8	16.5	33.3	38.1
JTBS-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	46.0	52.1	16.5	33.3	41.2
JTBS-20T-20U	1-1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	52.3	57.2	16.5	41.3	47.6
JTBS-24T-24U	1-1/2	38	1 7/8 - 12	1 7/8 - 12	33.3	59.2	60.7	16.5	47.6	53.9
JTBS-32T-32U	2	50	2 1/2 - 12	2 1/2 - 12	45.2	77.7	73.4	16.5	63.5	69.8

Swivel Connector

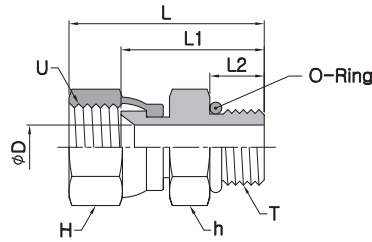
**JSMC**



Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	L	L1	h (HEX)	H (HEX)
	inch	mm							
JSMC-4T-01N	1/4	6	7/16 - 20	1/8	4.4	28.7	20.0	12.7	14.3
JSMC-6T-02N	3/8	10	9/16 - 18	1/4	7.5	40.4	30.9	15.8	17.4
JSMC-8T-03N	1/2	12	3/4 - 16	3/8	9.9	41.9	32.2	20.6	22.2
JSMC-10T-04N	5/8	16	7/8 - 14	1/2	12.3	52.1	39.4	22.2	25.4
JSMC-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	54.6	40.3	28.5	31.7
JSMC-16T-08N	1	25	1 5/16 - 12	1	21.4	63.5	48.4	34.9	38.1
JSMC-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	70.1	54.2	42.8	50.8
JSMC-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	77.5	58.9	50.8	57.1
JSMC32T-16N	2	50	2 1/2 - 12	2	45.2	85.9	62.1	66.6	69.8

O-Seal Swivel Connector (UNF)

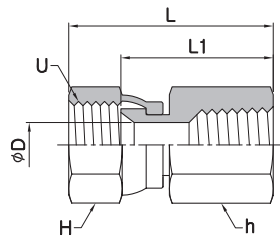
**JSMCS-U**



Part No.	Tube O.D		U (UN / UNF)	T (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm								
JSMCS-4T-04U	1/4	6	7/16 - 20	7/16 - 20	4.4	33.3	24.6	9.1	14.3	14.3
JSMCS-5T-05U	5/16	8	1/2 - 20	1/2 - 20	6.0	34.3	24.8	9.1	15.8	15.8
JSMCS-6T-06U	3/8	10	9/16 - 18	9/16 - 18	7.5	36.3	26.8	9.9	17.4	17.4
JSMCS-8T-08U	1/2	12	3/4 - 16	3/4 - 16	9.9	40.9	30.2	11.1	22.2	22.2
JSMCS-10T-10U	5/8	16	7/8 - 14	7/8 - 14	12.3	46.7	34.0	12.7	25.4	25.4
JSMCS-12T-12U	3/4	18, 20	1 1/16 - 12	1 1/16 - 12	15.5	52.6	38.3	15.1	31.7	31.7
JSMCS-16T-16U	1	25	1 5/16 - 12	1 5/16 - 12	21.4	57.9	42.8	15.1	38.1	38.1
JSMCS-20T-20U	1-1/4	32	1 5/8 - 12	1 5/8 - 12	27.4	63.2	47.4	15.1	50.8	50.8

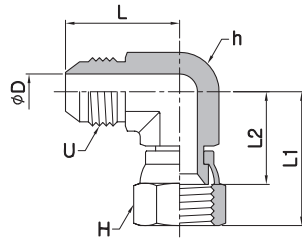
Swivel Female Connector

**JSCF**



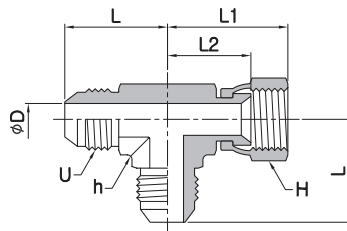
Part No.	Tube O.D		U (UN / UNF)	T (NPT)	D	L	L1	h (HEX)	H (HEX)
	inch	mm							
JSCF-4T-01N	1/4	6	7/16 - 20	1/8	4.4	32.1	23.4	14.3	14.3
JSCF-6T-02N	3/8	10	9/16 - 18	1/4	7.5	36.4	26.9	19.0	17.4
JSCF-8T-03N	1/2	12	3/4 - 16	3/8	9.9	40.7	31.2	22.2	22.2
JSCF-10T-04N	5/8	16	7/8 - 14	1/2	12.3	48.0	37.3	28.5	25.4
JSCF-12T-06N	3/4	18, 20	1 1/16 - 12	3/4	15.5	51.1	38.4	34.9	31.7
JSCF-16T-08N	1	25	1 5/16 - 12	1	21.4	62.1	47.0	41.2	38.1
JSCF-20T-10N	1-1/4	32	1 5/8 - 12	1-1/4	27.4	71.0	55.1	50.8	50.8
JSCF-24T-12N	1-1/2	38	1 7/8 - 12	1-1/2	33.3	76.0	57.4	60.3	57.1
JSCF-32T-16N	2	50	2 1/2 - 12	2	45.2	86.0	62.2	73.0	69.8

## Swivel Elbow

**JSL**

Part No.	Tube O.D		U (UN / UNF)	D	L	L1	L2	h (HEX)	H1(HEX)
	inch	mm							
JSL-2T	1/8	3	5/16 - 24	1.6	19.6	24.6	16.7	11.1	11.1
JSL-3T	3/16	4	3/8 - 24	3.2	21.1	25.4	17.1	11.1	12.7
JSL-4T	1/4	6	7/16 - 20	4.4	22.6	25.4	16.7	11.1	14.2
JSL-5T	5/16	8	1/2 - 20	6.0	24.1	26.9	17.4	14.3	15.8
JSL-6T	3/8	10	9/16 - 18	7.5	26.9	31.8	22.3	14.3	17.4
JSL-8T	1/2	12	3/4 - 16	9.9	31.8	35.1	24.4	19.0	22.2
JSL-10T	5/8	16	7/8 - 14	12.3	36.8	41.1	28.4	22.2	25.4
JSL-12T	3/4	18, 20	1 1/16 - 12	15.5	42.2	44.4	30.1	27.0	31.7
JSL-14T	7/8	22	1 3/16 - 12	18.3	45.7	45.2	30.5	33.3	34.9
JSL-16T	1	25	1 5/16 - 12	21.4	46.0	50.8	35.7	33.3	38.1
JSL-20T	1-1/4	32	1 5/8 - 12	27.4	52.3	58.7	42.8	41.3	50.8
JSL-24T	1-1/2	38	1 7/8 - 12	33.3	59.2	65.8	47.2	47.6	57.1
JSL-32T	2	50	2 1/2 - 12	45.2	77.7	85.9	62.1	63.5	69.8

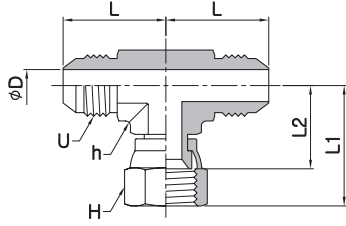
## Swivel Run Tee

**JSTR**

Part No.	Tube O.D		U (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm							
JSTR-2T	1/8	3	5/16 - 24	1.6	19.6	24.6	16.7	11.1	11.1
JSTR-3T	3/16	4	3/8 - 24	3.2	21.1	25.4	17.1	11.1	12.7
JSTR-4T	1/4	6	7/16 - 20	4.4	22.6	25.4	16.7	11.1	14.2
JSTR-5T	5/16	8	1/2 - 20	6.0	24.1	26.9	17.4	14.3	15.8
JSTR-6T	3/8	10	9/16 - 18	7.5	26.9	31.8	22.3	14.3	17.4
JSTR-8T	1/2	12	3/4 - 16	9.9	31.8	35.1	24.4	19.0	22.2
JSTR-10T	5/8	16	7/8 - 14	12.3	36.8	41.1	28.4	22.2	25.4
JSTR-12T	3/4	18, 20	1 1/16 - 12	15.5	42.2	44.4	30.1	27.0	31.7
JSTR-14T	7/8	22	1 3/16 - 12	18.3	45.7	45.2	30.5	33.3	34.9
JSTR-16T	1	25	1 5/16 - 12	21.4	46.0	50.8	35.7	33.3	38.1
JSTR-20T	1-1/4	32	1 5/8 - 12	27.4	52.3	58.7	42.8	41.3	50.8
JSTR-24T	1-1/2	38	1 7/8 - 12	33.3	59.2	65.8	47.2	47.6	57.1
JSTR-32T	2	50	2 1/2 - 12	45.2	77.7	85.9	62.1	63.5	69.8

Swivel Branch Tee

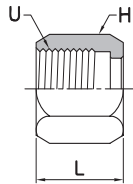
**JSTB**



Part No.	Tube O.D.		U (UN / UNF)	D	L	L1	L2	h (HEX)	H (HEX)
	inch	mm							
JSTB-2T	1/8	3	5/16 - 24	1.6	19.6	24.6	16.7	11.1	11.1
JSTB-3T	3/16	4	3/8 - 24	3.2	21.1	25.4	17.1	11.1	12.7
JSTB-4T	1/4	6	7/16 - 20	4.4	22.6	25.4	16.7	11.1	14.2
JSTB-5T	5/16	8	1/2 - 20	6.0	24.1	26.9	17.4	14.3	15.8
JSTB-6T	3/8	10	9/16 - 18	7.5	26.9	31.8	22.3	14.3	17.4
JSTB-8T	1/2	12	3/4 - 16	9.9	31.8	35.1	24.4	19.0	22.2
JSTB-10T	5/8	16	7/8 - 14	12.3	36.8	41.1	28.4	22.2	25.4
JSTB-12T	3/4	18, 20	1 1/16 - 12	15.5	42.2	44.4	30.1	27.0	31.7
JSTB-14T	7/8	22	1 3/16 - 12	18.3	45.7	45.2	30.5	33.3	34.9
JSTB-16T	1	25	1 5/16 - 12	21.4	46.0	50.8	35.7	33.3	38.1
JSTB-20T	1-1/4	32	1 5/8 - 12	27.4	52.3	58.7	42.8	41.3	50.8
JSTB-24T	1-1/2	38	1 7/8 - 12	33.3	59.2	65.8	47.2	47.6	57.1
JSTB-32T	2	50	2 1/2 - 12	45.2	77.7	85.9	62.1	63.5	69.8

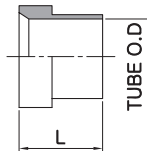
Nut

**JN**



Sleeve

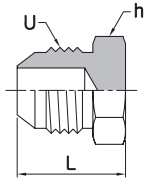
**JS**



Part No.	Tube O.D.		U (UN / UNF)	L	H (HEX)
	inch	mm			
JN-2T	1/8	-	5/16 - 24	14.0	9.5
JN-3T	3/16	-	3/8 - 24	15.5	11.0
JN-4T	1/4	6	7/16 - 20	15.8	14.3
JN-5T	5/16	8	1/2 - 20	17.3	15.8
JN-6T	3/8	10	9/16 - 18	18.5	17.4
JN-8T	1/2	12	3/4 - 16	21.6	22.2
JN-10T	5/8	16	7/8 - 14	24.9	25.4
JN-12T	3/4	18	1 1/16 - 12	26.2	31.7
JN-20M	-	20	1 1/16 - 12	26.2	31.7
JN-14T	7/8	22	1 3/16 - 12	27.7	34.9
JN-16T	1	25	1 5/16 - 12	28.7	38.1
JN-20T	1-1/4	32	1 5/8 - 12	31.2	50.8
JN-24T	1-1/2	38	1 7/8 - 12	36.1	57.1
JN-32T	2	50	2 1/2 - 12	44.5	73.0

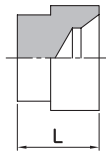
Part No.	Tube O.D.		L	Part No.	Tube O.D.		L
	inch	mm			metric	mm	
JS-2T	1/8	8.6	8.6	JS-3M	3	8.6	
JS-3T	3/16	8.6	8.6	JS-4M	4	8.6	
JS-4T	1/4	10.4	10.4	JS-6M	6	10.4	
JS-5T	5/16	11.2	11.2	JS-8M	8	11.2	
JS-6T	3/8	12.7	12.7	JS-10M	10	12.7	
JS-8T	1/2	14.2	14.2	JS-12M	12	14.2	
JS-10T	5/8	16.8	16.8	JS-16M	16	16.8	
JS-12T	3/4	17.3	17.3	JS-18M	18	17.3	
JS-14T	7/8	19.3	19.3	JS-20M	20	17.3	
JS-16T	1	19.8	19.8	JS-22M	22	19.3	
JS-20T	1-1/4	23.1	23.1	JS-25M	25	19.8	
JS-24T	1-1/2	28.4	28.4	JS-32M	32	23.1	
JS-32T	2	30.2	30.2	JS-38M	38	28.4	

Plug  
**JP**



Part No.	Tube O.D.		U (UN / UNF)	L	H (HEX)
	inch	mm			
JP-2T	1/8	3	5/16 - 24	17.8	11.1
JP-3T	3/16	4	3/8 - 24	18.5	11.1
JP-4T	1/4	6	7/16 - 20	20.3	12.7
JP-5T	5/16	8	1/2 - 20	20.3	14.2
JP-6T	3/8	10	9/16 - 18	21.3	15.8
JP-8T	1/2	12	3/4 - 16	23.9	20.6
JP-10T	5/8	16	7/8 - 14	27.9	23.8
JP-12T	3/4	18, 20	1 1/16 - 12	32.5	28.5
JP-14T	7/8	22	1 3/16 - 12	33.3	31.7
JP-16T	1	25	1 5/16 - 12	33.8	34.9
JP-20T	1-1/4	32	1 5/8 - 12	36.8	46.0
JP-24T	1-1/2	38	1 7/8 - 12	41.9	50.8
JP-32T	2	50	2 1/2 - 12	52.1	70.0

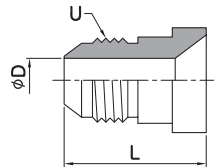
Cap  
**JCA**



Part No.	Tube O.D.		L
	inch	mm	
JCA-2T	1/8	3	9.5
JCA-3T	3/16	4	9.5
JCA-4T	1/4	6	8.7
JCA-5T	5/16	8	10.3
JCA-6T	3/8	10	11.9
JCA-8T	1/2	12	13.5
JCA-10T	5/8	16	13.5
JCA-12T	3/4	18, 20	16.7
JCA-14T	7/8	22	15.9
JCA-16T	1	25	15.9
JCA-20T	1-1/4	32	19.1
JCA-24T	1-1/2	38	23.8
JCA-32T	2	50	30.1

Fitting Port Reducer

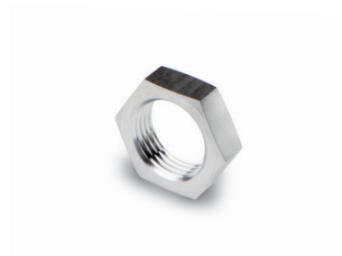
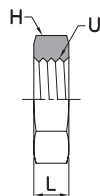
**JPR**



Part No.	Tube O.D		U (UN / UNF)	D	L
	inch	mm			
JPR-6T-4T	3/8 x 1/4		7/16 - 20	4.4	24.6
JPR-8T-4T	1/2 x 1/4		7/16 - 20	4.4	25.4
JPR-8T-6T	1/2 x 3/8		9/16 - 18	7.5	25.4
JPR-10T-4T	5/8 x 1/4		7/16 - 20	4.4	26.2
JPR-10T-6T	5/8 x 3/8		9/16 - 18	7.5	26.2
JPR-12T-4T	3/4 x 1/4		7/16 - 20	4.4	27.7
JPR-12T-6T	3/4 x 3/8		9/16 - 18	7.5	27.7
JPR-12T-8T	3/4 x 1/2		3/4 - 16	10.0	30.2
JPR-16T-12T	1 x 3/4		1 1/16 - 12	15.5	37.3
JPR-20T-12T	1-1/4 x 3/4		1 1/16 - 12	15.5	38.3
JPR-20T-16T	1-1/4 x 1		1 5/16 - 12	21.4	40.3
JPR-24T-20T	1-1/2 x 1-1/4		1 5/8 - 12	27.4	42.9

Bulkhead Lock Nut

**JLN**



Part No.	Tube O.D		U (UN / UNF)	L	H (HEX)
	inch	mm			
JLN-2T	1/8	3	5/16 - 24	5.6	14.3
JLN-3T	3/16	4	3/8 - 24	5.6	15.8
JLN-4T	1/4	6	7/16 - 20	7.1	17.4
JLN-5T	5/16	8	1/2 - 20	7.1	19.0
JLN-6T	3/8	10	9/16 - 18	6.9	20.6
JLN-8T	1/2	12	3/4 - 16	7.9	25.4
JLN-10T	5/8	16	7/8 - 14	9.1	28.5
JLN-12T	3/4	18, 20	1 1/16 - 12	10.4	34.9
JLN-14T	7/8	22	1 3/16 - 12	10.4	38.1
JLN-16T	1	25	1 5/16 - 12	10.4	41.2
JLN-20T	1-1/4	32	1 5/8 - 12	10.4	47.6
JLN-24T	1-1/2	38	1 7/8 - 12	10.4	53.9
JLN-32T	2	50	2 1/2 - 12	10.4	69.8