
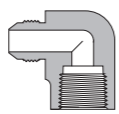



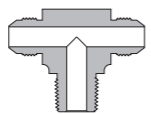

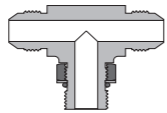

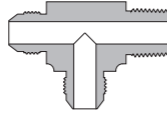

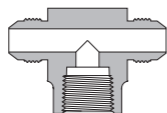

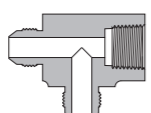

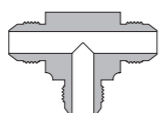




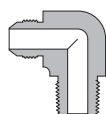
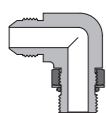
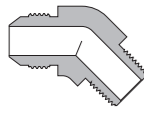


37° Tube Fittings



Contents

Sleeves - SL 	04	Female Elbows - LF 	10
Nuts - N 	04	Union Elbows - LU 	11
Male Connectors - MC 	04	Male Branch Tees - TTM 	12
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Features

- ☆ Fittings are designed and manufactured in compliance with SAE J514.
- ☆ The hardened threads with smooth surface finish avoid galling and help to extend the fitting service life.
- ☆ Radius junction design with elbows provides smooth flow path.
- ☆ Stainless steel nut threads are silver-plated to minimize the friction with the body threads.
- ☆ Every fitting is stamped with size, material and heat code.
- ☆ Fittings are easy to disconnect and retighten.
- ☆ All male threads are protected by plastic caps.

Technical Date

- ☆ Size range from 1/8" to 2" and 3 to 50 mm.
- ☆ Thread Specification:

Thread Type	Reference Specification
NPT	ASME B1.20.1, SAE AS71051
Unified (SAE)	ASME B1.1, SAE J475

- ☆ The working temperature of FINELOK 37° flare tube fittings is the same as the FINELOK F series tube fittings'.
- ☆ Working pressures:

Nom. SAE Dash Size	Nom. Tube O.D. Size (in.)	37° Flare St. Thread	Nom. Pipe Size	SAE St. Thread Union and Bulkhead (psig/bar)	Fittings with Pipe Threads (psig/bar)
2	1/8	5/16-24	1/8	5000 (345)	5000 (345)
3	3/16	3/8-24	1/8	5000 (345)	5000 (345)
4	1/4	7/16-20	1/8	5000 (345)	5000 (345)
5	5/16	1/2-20	1/8	5000 (345)	5000 (345)
6	3/8	9/16-18	1/4	5000 (345)	4000 (276)
8	1/2	3/4-16	3/8	4500 (310)	3000 (207)
10	5/8	7/8-14	1/2	3500 (241)	3000 (207)
12	3/4	1 1/16-12	3/4	3500 (241)	2500 (172)
14	7/8	1 3/16-12	3/4	3000 (207)	2500 (172)
16	1	1 5/16-12	1	3000 (207)	2000 (138)
20	1 1/4	1 5/8-12	1 1/4	2500 (172)	1150 (79)
24	1 1/2	1 7/8-12	1 1/2	2000 (138)	1000 (69)
32	2	2 1/2-12	2	1500 (103)	1000 (69)

1. Working pressures given are for carbon steel only. Contact the authorized representative or FINELOK for other materials' working pressure.
2. Four times safety factor applied for above working pressure.

Materials

Material	Bar Stock	Forging	Designator
316 Stainless Steel	ASTM A276	ASTM A182,	SS
	ASME SA479,	ASME SA182,	
	EN 1.4401	EN 1.4401	
Aluminum	ASTM B211	ASTM B247	AL
Brass	ASTM B16/B453	ASTM B283	B
Carbon Steel	ASTM A108	/	CS

Ordering Information

Add the material designator as a prefix to the basic ordering number to get the complete ordering number.

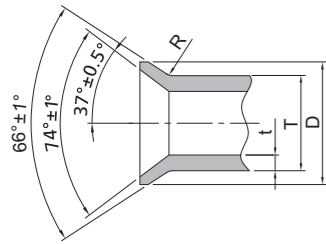
For example:

1. Male connector with 1/4" tube, 1/4 NPT thread and 316 stainless steel material, the complete ordering number is **SS-MC-AT4-NT4**.
2. Sleeve with 6 mm tube and 316 stainless steel material, the complete ordering number is **SS-SL-AT6M**.

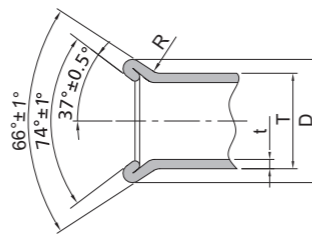
Flaring Operation

Tube flaring is carried out in two different ways, single wall flare on thick wall tubes and double wall flare on thin wall tubes to reinforce same. Refer to below table:

Thick Tubes



Thin Tubes

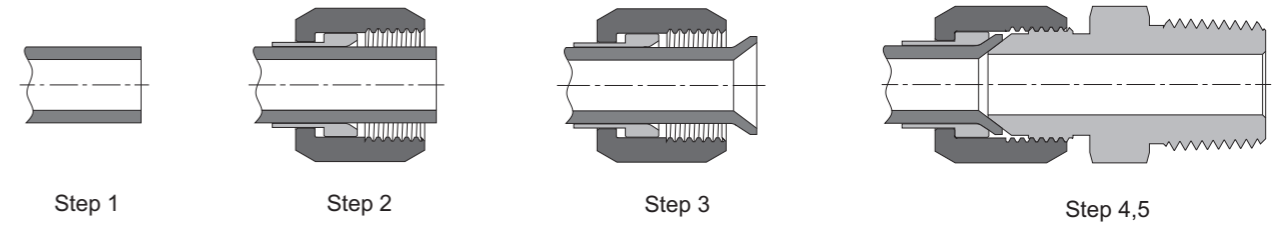


Fractional Tubing			
T-Tube O.D. in	Dimension		
	D (mm)	t (in.)	R (mm)
1/4	8.6-9.1	0.020-0.065	0.8
5/16	10.2-10.9	0.020-0.065	0.8
3/8	11.6-12.4	0.020-0.065	1.0
1/2	16.0-16.7	0.028-0.083	1.5
5/8	19.3-20.0	0.035-0.095	1.5
3/4	23.3-24.1	0.035-0.109	2.0
7/8	26.4-27.1	0.035-0.109	2.0
1	29.7-30.4	0.035-0.120	2.3
1 1/4	37.5-38.3	0.049-0.120	2.3
1 1/2	43.2-43.9	0.049-0.120	2.8
2	59.2-59.9	0.065-0.134	2.8

Metric Tubing				
T-Tube O.D. (mm)	Dimension			
	D (mm)	t (mm)	R (mm)	
6	8.4-9.2	0.5-1.5	0.8	
8	10.1-10.8	0.5-1.5	0.8	
10	12.0-12.5	0.5-1.5	1.0	
12	16.0-16.7	1.0-2.0	1.5	
14	18.8-19.5	1.0-2.5	1.5	
15	19.4-20.0	1.0-2.5	1.5	
16	19.4-20.0	1.0-2.5	1.5	
18	23.5-24.0	1.0-3.0	2.0	
20	24.0-24.5	1.0-3.0	2.0	
22	26.2-27.2	1.0-3.0	2.0	
25	29.5-30.2	1.0-3.0	2.3	
30	37.4-38.0	1.5-3.0	2.3	
32	37.6-38.3	1.5-3.0	2.3	
38	43.5-44.5	1.5-3.0	2.8	
50	58.9-59.6	1.5-3.5	2.8	

Installation Instructions

1. Cut the tube to the proper length.
2. Insert the tube into the nut and sleeve.
3. Form the flare to 37° dimension according to SAE J533. See flaring operation.
4. Finger-tighten the nut.
5. Tighten the nut with wrench while holding steady the body of the fitting.



On the table below are shown the basic dimensions to calculate the overall length of tube assemblies, the actual dimension of fittings when assembled, the recommended assembly torques and working pressures.

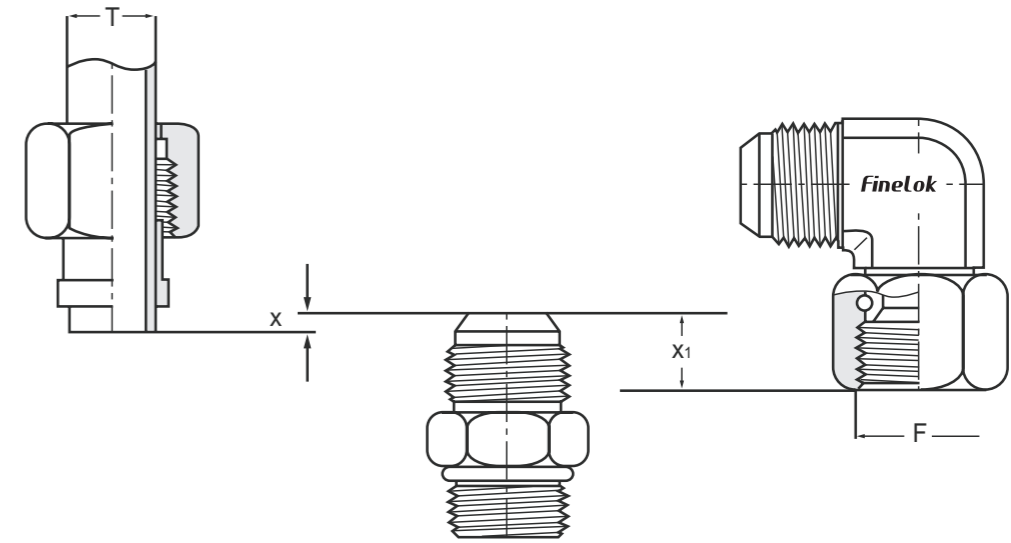
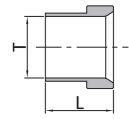


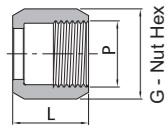
Table of Dimensions							
T Tube O.D.		F Thread	X	X1	Assembly torque	Working Pressures	
mm	in					Nm	MPa
6	1/4	7/16-20	2	10	13 - 15	31.5	315
8	5/16	1/2-20	2	11	18 - 25	31.5	315
10	3/8	9/16-18	2	11.5	24 - 31	25.0	250
12	1/2	3/4-16	3	13	45 - 52	25.0	250
14	-	7/8-14	3.5	15.5	65 - 72	20.0	200
15	-						
16	5/8	1 1/16-12	3.5	17.5	92 - 100	20.0	200
18	3/4						
20	-	1 3/16-12	3.5	18	118 - 130	18.0	180
22	7/8						
25	1	1 5/16-12	3.5	18.5	127 - 145	16.0	160
30	-	1 5/8-12	5	20.5	175 - 190	12.5	125
32	1 1/4						
38	1 1/2	1 7/8-12	5	23	215 - 240	10.0	100

Sleeves



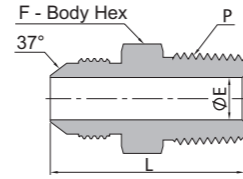
SAE 070115				
T-Tube O.D.		Basic Ordering Number		L (mm)
in.	mm	in.	mm	
1/8	3	-SL-AT2	-SL-AT3M	8.6
3/16	4	-SL-AT3	-SL-AT4M	8.6
1/4	6	-SL-AT4	-SL-AT6M	10.4
5/16	8	-SL-AT5	-SL-AT8M	11.2
3/8	10	-SL-AT6	-SL-AT10M	12.7
1/2	12	-SL-AT8	-SL-AT12M	14.2
5/8	16	-SL-AT10	-SL-AT16M	16.8
3/4	18	-SL-AT12	-SL-AT18M	17.3
7/8	22	-SL-AT14	-SL-AT22M	19.3
1	25	-SL-AT16	-SL-AT25M	19.8
1 1/4	32	-SL-AT20	-SL-AT32M	23.1
1 1/2	38	-SL-AT24	-SL-AT38M	28.4
2	50	-SL-AT32	-SL-AT50M	30.2

Nuts



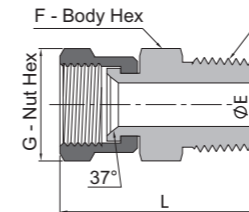
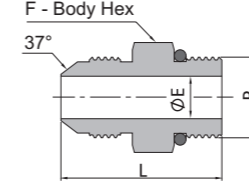
SAE 070110					
Tube O.D.		P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm	
in.	mm			L	G
1/8	3	5/16-24	-N-AT2	14.0	9.5
3/16	4	3/8-24	-N-AT3	15.5	11.1
1/4	6	7/16-20	-N-AT4	15.8	14.3
5/16	8	1/2-20	-N-AT5	17.3	15.9
3/8	10	9/16-18	-N-AT6	18.5	17.5
1/2	12	3/4-16	-N-AT8	21.6	22.2
5/8	16	7/8-14	-N-AT10	24.9	25.4
3/4	18	1 1/16-12	-N-AT12	26.2	31.8
7/8	22	1 3/16-12	-N-AT14	27.7	34.9
1	25	1 5/16-12	-N-AT16	28.7	38.1
1 1/4	32	1 5/8-12	-N-AT20	31.2	50.8
1 1/2	38	1 7/8-12	-N-AT24	36.1	57.2
2	50	2 1/2-12	-N-AT32	44.5	73.0

Male Connectors



SAE 070102						
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm		
in.	mm			L	E	F
1/8	3	1/8	-MC-AT2-NT2	28.2	1.6	11.1
3/16	4	1/8	-MC-AT3-NT2	29.0	3.2	11.1
1/4	6	1/8	-MC-AT4-NT2	31.0	4.4	12.7
1/4	6	1/4	-MC-AT4-NT4	36.0	4.4	14.3
1/4	6	1/2	-MC-AT4-NT8	42.7	4.4	22.2
5/16	8	1/8	-MC-AT5-NT2	31.0	4.8	14.3
5/16	8	1/4	-MC-AT5-NT4	36.1	6.0	14.3
3/8	10	1/8	-MC-AT6-NT2	31.8	4.8	15.9
3/8	10	1/4	-MC-AT6-NT4	36.3	7.1	15.9
3/8	10	3/8	-MC-AT6-NT6	36.3	7.5	19.1
3/8	10	1/2	-MC-AT6-NT8	42.5	7.5	22.2
1/2	12	1/4	-MC-AT8-NT4	38.9	7.1	20.6
1/2	12	3/8	-MC-AT8-NT6	38.9	9.9	20.6
1/2	12	1/2	-MC-AT8-NT8	45.5	9.9	22.2
1/2	12	3/4	-MC-AT8-NT12	47.0	9.9	28.6
5/8	16	3/8	-MC-AT10-NT6	43.1	9.9	23.8
5/8	16	1/2	-MC-AT10-NT8	48.0	12.3	23.8
5/8	16	3/4	-MC-AT10-NT12	49.5	12.3	28.6
3/4	18	3/4	-MC-AT12-NT12	52.3	15.5	28.6
3/4	18	1	-MC-AT12-NT16	57.1	15.5	34.9
7/8	22	3/4	-MC-AT14-NT12	53.1	18.3	31.8
1	25	3/4	-MC-AT16-NT12	53.5	18.3	34.9
1	25	1	-MC-AT16-NT16	58.4	21.5	34.9
1 1/4	32	1	-MC-AT20-NT16	61.5	23.8	42.9
1 1/4	32	1 1/4	-MC-AT20-NT20	62.2	27.5	42.9
1 1/2	38	1 1/4	-MC-AT24-NT20	68.1	31.7	50.8
1 1/2	38	1 1/2	-MC-AT24-NT24	68.1	33.0	50.8
2	50	2	-MC-AT32-NT32	79.0	45.0	66.7

Male Connectors

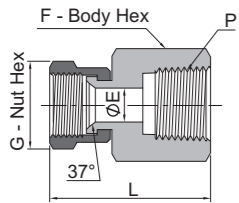
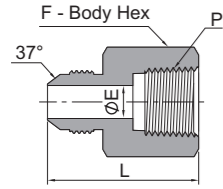


SAE 070120						
Tube O.D.		P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm		
in.	mm			L	E	F
1/8	3	5/16-24	-MC-AT2-ST5	26.9	1.6	11.1
3/16	4	3/8-24	-MC-AT3-ST6	27.9	3.2	12.7
1/4	6	7/16-20	-MC-AT4-ST7	31.2	4.4	14.3
1/4	6	1/2-20	-MC-AT4-ST8	31.2	4.4	15.9
1/4	6	9/16-18	-MC-AT4-ST9	33.0	4.4	17.5
1/4	6	3/4-16	-MC-AT4-ST12	34.8	4.4	22.2
5/16	8	1/2-20	-MC-AT5-ST8	31.2	6.0	15.9
3/8	10	9/16-18	-MC-AT6-ST9	33.0	7.5	17.5
3/8	10	3/4-16	-MC-AT6-ST12	35.1	7.5	22.2
3/8	10	7/8-14	-MC-AT6-ST14	38.1	7.5	25.4
1/2	12	9/16-18	-MC-AT8-ST9	36.6	7.5	20.6
1/2	12	3/4-16	-MC-AT8-ST12	37.6	9.9	22.2
1/2	12	7/8-14	-MC-AT8-ST14	40.6	9.9	25.4
1/2	12	1 1/16-12	-MC-AT8-ST17	44.7	9.9	31.8
5/8	16	3/4-16	-MC-AT10-ST12	40.6	10.7	23.8
5/8	16	7/8-14	-MC-AT10-ST14	43.2	12.3	25.4
5/8	16	1 1/16-12	-MC-AT10-ST17	47.2	12.3	31.8
3/4	18	3/4-16	-MC-AT12-ST12	45.2	10.7	28.6
3/4	18	7/8-14	-MC-AT12-ST14	46.4	12.7	28.6
3/4	18	1 1/16-12	-MC-AT12-ST17	50.0	15.5	31.8
3/4	18	1 5/16-12	-MC-AT12-ST21	50.8	15.5	38.1
7/8	22	1 3/16-12	-MC-AT14-ST19	50.5	18.3	34.9
7/8	22	1 5/16-12	-MC-AT14-ST21	51.3	18.3	38.1
1	25	1 1/16-12	-MC-AT16-ST17	51.1	16.7	34.9
1	25	1 3/16-12	-MC-AT16-ST19	51.8	18.3	34.9
1	25	1 5/16-12	-MC-AT16-ST21	51.8	21.5	38.1

SAE 070120							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	G	F
1/8	3	1/8	-MC-AS2-NT2	30.0	1.6	11.1	11.1
3/16	4	1/8	-MC-AS3-NT2	32.0	3.2	12.7	11.1
1/4	6	1/8	-MC-AS4-NT2	34.2	4.4	14.3	12.7
5/16	8	1/8	-MC-AS5-NT2	35.0	6.0	15.9	14.3
3/8	10	1/4	-MC-AS6-NT4	40.2	7.5	17.5	15.9
1/2	12	3/8	-MC-AS8-NT6	42.7	9.9	22.2	20.6
5/8	16	1/2	-MC-AS10-NT8	51.3	12.3	25.4	23.8
3/4	18	3/4	-MC-AS12-NT12	54.5	15.5	31.8	28.6
7/8	22	3/4	-MC-AS14-NT12	56.0	18.0	34.9	31.8
1	25	1	-MC-AS16-NT16	63.7	21.5	38.1	34.9
1 1/4	32	1 1/4	-MC-AS20-NT20	68.9	27.5	50.8	42.9
1 1/2	38	1 1/2	-MC-AS24-NT24	77.6	33.0	57.2	50.8
2	50	2	-MC-AS32-NT32	92.9	45.0	73.0	66.7

Dimensions are for reference only, subject to change.

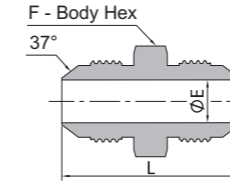
Female Connectors



SAE 070103						
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm		
in.	mm			L	E	F
1/8	3	1/8	-FC-AT2-NT2	28.4	1.6	14.3
3/16	4	1/8	-FC-AT3-NT2	28.7	3.2	14.3
1/4	6	1/8	-FC-AT4-NT2	30.2	4.4	14.3
1/4	6	1/4	-FC-AT4-NT4	35.3	4.4	19.1
5/16	8	1/8	-FC-AT5-NT2	29.7	6.0	14.3
5/16	8	1/4	-FC-AT5-NT4	35.3	6.0	19.1
3/8	10	1/4	-FC-AT6-NT4	35.6	7.5	19.1
3/8	10	3/8	-FC-AT6-NT6	37.1	7.5	22.2
1/2	12	3/8	-FC-AT8-NT6	39.6	9.9	22.2
1/2	12	1/2	-FC-AT8-NT8	45.6	9.9	28.6
5/8	16	1/2	-FC-AT10-NT8	48.0	12.3	28.6
3/4	18	1/2	-FC-AT12-NT8	52.1	15.5	28.6
3/4	18	3/4	-FC-AT12-NT12	52.3	15.5	34.9
7/8	22	3/4	-FC-AT14-NT12	52.3	18.3	34.9
1	25	1	-FC-AT16-NT16	59.7	21.5	41.3
1 1/4	32	1 1/4	-FC-AT20-NT20	63.2	27.5	50.8
2	38	1 1/2	-FC-AT24-NT24	66.5	33.0	60.3
2	50	2	-FC-AT32-NT32	75.4	45.0	73.0

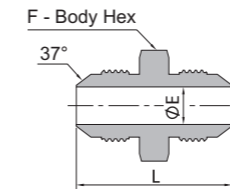
SAE 070101							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	G	F
1/8	3	1/8	-FC-AS2-NT2	36.1	1.6	11.1	14.3
3/16	4	1/8	-FC-AS3-NT2	37.3	3.2	12.7	14.3
1/4	6	1/8	-FC-AS4-NT2	39.7	4.4	14.3	14.3
5/16	8	1/8	-FC-AS5-NT2	40.5	6.0	15.9	14.3
3/8	10	1/4	-FC-AS6-NT4	45.8	7.5	17.5	19.1
1/2	12	3/8	-FC-AS8-NT6	47.0	9.9	22.2	22.2
5/8	16	1/2	-FC-AS10-NT8	51.6	12.3	25.4	28.6
3/4	18	3/4	-FC-AS12-NT12	66.6	15.5	31.8	34.9
7/8	22	3/4	-FC-AS14-NT12	67.8	18.0	34.9	34.9
1	25	1	-FC-AS16-NT16	73.5	21.5	38.1	41.3
1 1/4	32	1 1/4	-FC-AS20-NT20	78.1	27.5	50.8	50.8
1 1/2	38	1 1/2	-FC-AS24-NT24	86.7	33.0	60.3	60.3
2	50	2	-FC-AS32-NT32	89.3	45.0	73.0	66.7

Unions



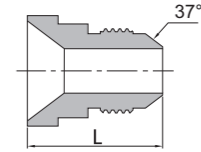
SAE 070101					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-U-AT2	29.7	1.6	11.1
3/16	4	-U-AT3	31.2	3.2	11.1
1/4	6	-U-AT4	34.8	4.4	12.7
5/16	8	-U-AT5	34.8	6.0	14.3
3/8	10	-U-AT6	35.8	7.5	15.9
1/2	12	-U-AT8	41.1	9.9	20.6
5/8	16	-U-AT10	47.8	12.3	23.8
3/4	18	-U-AT12	54.9	15.5	28.6
7/8	22	-U-AT14	56.1	18.3	31.8
1	25	-U-AT16	57.2	21.5	34.9
1 1/4	32	-U-AT20	61.7	27.5	42.9
1 1/2	38	-U-AT24	69.8	33.0	50.8
2	50	-U-AT32	86.4	45.0	66.7

Large Hex Unions



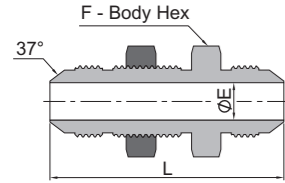
SAE 070119					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-HU-AT2	29.7	1.6	14.3
3/16	4	-HU-AT3	31.2	3.2	15.9
1/4	6	-HU-AT4	34.8	4.4	17.5
5/16	8	-HU-AT5	34.8	6.0	19.1
3/8	10	-HU-AT6	35.8	7.5	20.6
1/2	12	-HU-AT8	41.1	9.9	25.4
5/8	16	-HU-AT10	47.8	12.3	28.6
3/4	18	-HU-AT12	54.9	15.5	34.9
7/8	22	-HU-AT14	56.1	18.3	38.1
1	25	-HU-AT16	57.2	21.5	41.3
1 1/4	32	-HU-AT20	61.7	27.5	47.6
1 1/2	38	-HU-AT24	69.8	33.0	54.0
2	50	-HU-AT32	86.4	45.0	69.9

Reducing Adapters



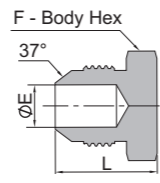
SAE 070123			
Tube O.D.		Basic Ordering Number	L (mm)
in.-mm	in.-mm		
3/8-10	1/4-6	-RA-AT6-AT4	24.6
1/2-12	1/4-6	-RA-AT8-AT4	25.4
1/2-12	3/8-10	-RA-AT8-AT6	25.4
5/8-16	1/4-6	-RA-AT10-AT4	26.2
5/8-16	3/8-10	-RA-AT10-AT6	26.2
3/4-18	1/4-6	-RA-AT12-AT4	27.7
3/4-18	3/8-10	-RA-AT12-AT6	27.7
3/4-18	1/2-12	-RA-AT12-AT8	30.2
7/8-22	3/8-10	-RA-AT14-AT6	28.7
7/8-22	5/8-16	-RA-AT14-AT10	33.7
1-25	1/4-6	-RA-AT16-AT4	31.0
1-25	3/8-10	-RA-AT16-AT6	31.0
1-25	1/2-12	-RA-AT16-AT8	32.3
1-25	5/8-16	-RA-AT16-AT10	35.1
1-25	3/4-18	-RA-AT16-AT12	37.3
1 1/4-32	3/4-18	-RA-AT20-AT12	38.8
1 1/4-32	1-25	-RA-AT20-AT16	40.3
1 1/2-38	1/2-12	-RA-AT24-AT8	39.6
1 1/2-38	3/4-18	-RA-AT24-AT12	41.4
1 1/2-38	1-25	-RA-AT24-AT16	41.4
2-50	1 1/2-38	-RA-AT32-AT24	48.5

Bulkhead Unions



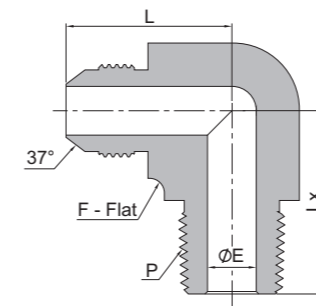
SAE 070601					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
3/16	4	-BU-AT3	48.3	3.2	15.9
1/4	6	-BU-AT4	52.6	4.4	17.5
5/16	8	-BU-AT5	52.6	6.0	19.1
3/8	10	-BU-AT6	55.4	7.5	20.6
1/2	12	-BU-AT8	62.0	9.9	25.4
5/8	16	-BU-AT10	69.6	12.3	28.6
3/4	18	-BU-AT12	78.5	15.5	34.9
7/8	22	-BU-AT14	79.2	18.3	38.1
1	25	-BU-AT16	79.8	21.5	41.3
1 1/4	32	-BU-AT20	84.1	27.5	47.6
1 1/2	38	-BU-AT24	89.4	33.0	54.0
2	50	-BU-AT32	106.7	45.0	69.9

Tube Plugs



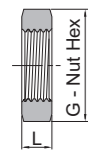
SAE 070109					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-TP-AT2	17.8	1.6	11.1
3/16	4	-TP-AT3	18.5	3.2	11.1
1/4	6	-TP-AT4	20.3	4.4	12.7
5/16	8	-TP-AT5	20.3	6.0	14.3
3/8	10	-TP-AT6	21.3	7.5	15.9
1/2	12	-TP-AT8	23.9	9.9	20.6
5/8	16	-TP-AT10	27.9	12.3	23.8
3/4	18	-TP-AT12	32.5	15.5	28.6
7/8	22	-TP-AT14	33.3	18.3	31.8
1	25	-TP-AT16	33.8	21.5	34.9
1 1/4	32	-TP-AT20	36.8	27.5	42.9
1 1/2	38	-TP-AT24	41.9	33.0	50.8
2	50	-TP-AT32	52.1	45.0	66.7

Male Elbows



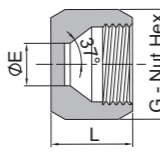
SAE 070202							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-LM-AT2-NT2	19.6	1.6	11.1	18.3
3/16	4	1/8	-LM-AT3-NT2	21.1	3.2	11.1	18.3
1/4	6	1/8	-LM-AT4-NT2	22.6	4.4	12.7	19.8
1/4	6	1/4	-LM-AT4-NT4	26.9	4.4	14.3	27.7
5/16	8	1/8	-LM-AT5-NT2	24.1	4.8	14.3	19.8
5/16	8	1/4	-LM-AT5-NT4	26.9	6.0	14.3	27.7
3/8	10	1/8	-LM-AT6-NT2	26.9	4.8	14.3	22.8
3/8	10	1/4	-LM-AT6-NT4	26.9	7.1	14.3	27.7
3/8	10	3/8	-LM-AT6-NT6	29.0	7.5	17.5	31.0
3/8	10	1/2	-LM-AT6-NT8	31.2	7.5	20.6	37.3
1/2	12	1/4	-LM-AT8-NT4	31.8	7.1	20.6	31.0
1/2	12	3/8	-LM-AT8-NT6	31.8	9.9	20.6	31.0
1/2	12	1/2	-LM-AT8-NT8	33.7	9.9	20.6	37.3
1/2	12	3/4	-LM-AT8-NT12	36.0	9.9	25.4	40.4
5/8	16	3/8	-LM-AT10-NT6	36.8	9.9	20.6	33.0
5/8	16	1/2	-LM-AT10-NT8	36.8	12.3	20.6	37.3
5/8	16	3/4	-LM-AT10-NT12	38.9	12.3	25.4	40.4
3/4	18	3/4	-LM-AT12-NT12	42.2	15.5	27.0	40.4
3/4	18	1	-LM-AT12-NT16	42.2	15.5	31.8	50.4
7/8	22	3/4	-LM-AT14-NT12	45.7	18.3	31.8	42.9
1	25	3/4	-LM-AT16-NT12	46.0	18.3	34.9	45.2
1	25	1	-LM-AT16-NT16	46.0	21.5	34.9	50.0
1 1/4	32	1	-LM-AT20-NT16	52.3	23.8	42.9	59.6
1 1/4	32	1 1/4	-LM-AT20-NT20	52.3	27.5	42.9	60.5
1 1/2	38	1 1/2	-LM-AT24-NT24	59.2	33.0	50.8	67.1
2	50	2	-LM-AT32-NT32	77.7	45.0	63.5	76.2

Bulkhead Lock Nuts



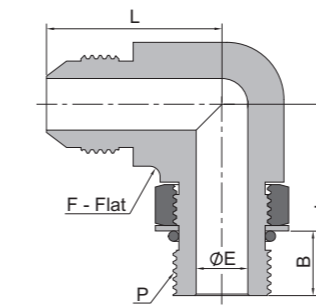
SAE 070118				
Tube O.D.		Basic Ordering Number	Dimension, mm	
in.	mm		L	G
3/16	4	-BN-AT3	5.6	15.9
1/4	6	-BN-AT4	7.1	17.5
5/16	8	-BN-AT5	7.1	19.1
3/8	10	-BN-AT6	6.9	20.6
1/2	12	-BN-AT8	7.9	25.4
5/8	16	-BN-AT10	9.1	28.6
3/4	18	-BN-AT12	10.4	34.9
7/8	22	-BN-AT14	10.4	38.1
1	25	-BN-AT16	10.4	41.3
1 1/4	32	-BN-AT20	10.4	47.6
1 1/2	38	-BN-AT24	10.4	54.0
2	50	-BN-AT32	10.4	69.9

Tube Caps



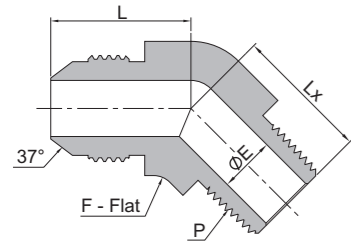
SAE 070112					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	G
1/8	3	-TC-AT2	12.7	1.6	9.5
3/16	4	-TC-AT3	14.3	3.2	11.1
1/4	6	-TC-AT4	15.1	4.4	14.3
5/16	8	-TC-AT5	15.5	6.0	15.9
3/8	10	-TC-AT6	15.9	7.5	20.6
1/2	12	-TC-AT8	19.1	9.9	22.2
5/8	16	-TC-AT10	21.4	12.3	25.4
3/4	18	-TC-AT12	23.0	15.5	31.8
7/8	22	-TC-AT14	24.6	18.3	34.9
1	25	-TC-AT16	25.8	21.5	38.1
1 1/4	32	-TC-AT20	27.0	27.5	50.8
1 1/2	38	-TC-AT24	30.2	33.0	57.2
2	50	-TC-AT32	36.5	45.0	73.0

Adjustable Male Elbows



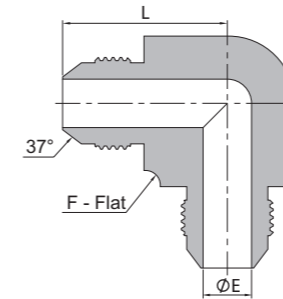
SAE 070220								
Tube O.D.		P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm				
in.	mm			L	E	F	Lx	B
1/8	3	5/16-24	-LP-AT2-ST5	19.6	1.6	11.1	23.9	8.4
3/16	4	3/8-24	-LP-AT3-ST6	21.1	3.2	11.1	23.9	8.4
1/4	6	7/16-20	-LP-AT4-ST7	22.6	4.4	12.7	26.2	9.8
5/16	8	1/2-20	-LP-AT5-ST8	24.1	6.0	14.3	28.7	9.8
3/8	10	9/16-18	-LP-AT6-ST9	26.9	7.5	15.9	31.8	11.0
1/2	12	3/4-16	-LP-AT8-ST12	31.8	9.9	20.6	36.8	12.5
5/8	16	7/8-14	-LP-AT10-ST14	36.8	12.3	23.8	43.2	14.2
3/4	18	1 1/16-12	-LP-AT12-ST17	42.2	15.5	31.8	49.3	16.5
7/8	22	1 3/16-12	-LP-AT14-ST19	45.7	18.3	31.8	50.8	16.5
1	25	1 5/16-12	-LP-AT16-ST21	46.0	21.5	34.9	52.1	16.5
1 1/4	32	1 5/8-12	-LP-AT20-ST26	52.3	27.5	42.9	57.2	16.5
1 1/2	38	1 7/8-12	-LP-AT24-ST30	59.2	33.0	50.8	60.7	16.5
2	50	2 1/2-12	-LP-AT32-ST40	77.7	45.0	63.5	73.4	16.5

45° Male Elbows



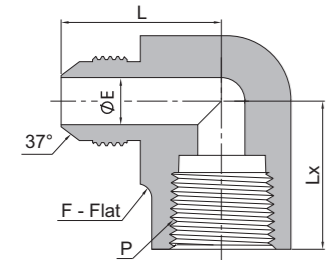
SAE 070302							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-VM-AT2-NT2	17.5	1.6	11.1	13.2
3/16	4	1/8	-VM-AT3-NT2	17.5	3.2	11.1	13.2
1/4	6	1/8	-VM-AT4-NT2	18.3	4.4	12.7	16.3
5/16	8	1/8	-VM-AT5-NT2	19.6	4.8	14.3	16.3
3/8	10	1/4	-VM-AT6-NT4	21.1	7.1	14.3	21.8
1/2	12	3/8	-VM-AT8-NT6	24.9	9.9	17.5	24.1
5/8	16	1/2	-VM-AT10-NT8	28.2	12.3	20.6	29.7
3/4	18	3/4	-VM-AT12-NT12	32.5	15.5	27.0	30.5
7/8	22	3/4	-VM-AT14-NT12	36.8	18.3	31.8	33.0
1	25	1	-VM-AT16-NT16	37.3	21.5	34.9	37.6
1 1/4	32	1 1/4	-VM-AT20-NT20	40.4	27.5	42.9	42.4
1 1/2	38	1 1/2	-VM-AT24-NT24	45.2	33.0	50.8	45.0
2	50	2	-VM-AT32-NT32	56.4	45.0	63.5	53.6

Union Elbows

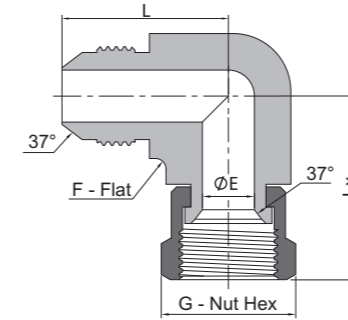


SAE 070201					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-LU-AT2	19.6	1.6	11.1
3/16	4	-LU-AT3	21.1	3.2	11.1
1/4	6	-LU-AT4	22.6	4.4	12.7
5/16	8	-LU-AT5	24.1	6.0	14.3
3/8	10	-LU-AT6	26.9	7.5	14.3
1/2	12	-LU-AT8	31.8	9.9	20.6
5/8	16	-LU-AT10	36.8	12.3	20.6
3/4	18	-LU-AT12	42.2	15.5	27.0
7/8	22	-LU-AT14	45.7	18.3	31.8
1	25	-LU-AT16	46.0	21.5	34.9
1 1/4	32	-LU-AT20	52.3	27.5	42.9
1 1/2	38	-LU-AT24	59.2	33.0	50.8
2	50	-LU-AT32	77.7	45.0	63.5

Female Elbows

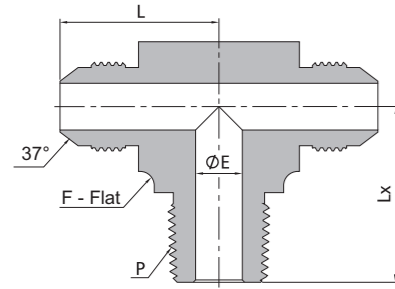


SAE 070203							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-LF-AT2-NT2	25.4	1.6	14.3	16.8
3/16	4	1/8	-LF-AT3-NT2	26.2	3.2	14.3	16.8
1/4	6	1/8	-LF-AT4-NT2	27.4	4.4	14.3	16.8
1/4	6	1/4	-LF-AT4-NT4	30.9	4.4	20.6	22.4
5/16	8	1/8	-LF-AT5-NT2	27.4	6.0	14.3	16.8
5/16	8	1/4	-LF-AT5-NT4	30.9	6.0	20.6	22.4
3/8	10	1/8	-LF-AT6-NT2	26.9	7.5	15.9	16.8
3/8	10	1/4	-LF-AT6-NT4	31.2	7.5	20.6	22.4
3/8	10	3/8	-LF-AT6-NT6	33.2	7.5	23.8	25.9
1/2	12	1/4	-LF-AT8-NT4	31.6	9.9	20.6	22.4
1/2	12	3/8	-LF-AT8-NT6	36.1	9.9	23.8	25.9
1/2	12	1/2	-LF-AT8-NT8	36.1	9.9	27.0	31.2
5/8	16	1/2	-LF-AT10-NT8	41.7	12.3	27.0	31.2
3/4	18	1/2	-LF-AT12-NT8	42.1	15.5	31.8	31.2
3/4	18	3/4	-LF-AT12-NT12	48.0	15.5	34.9	34.5
7/8	22	3/4	-LF-AT14-NT12	47.2	18.3	34.9	36.1
1	25	1	-LF-AT16-NT16	55.1	21.5	42.9	41.1
1 1/4	32	1 1/4	-LF-AT20-NT20	59.2	27.5	50.8	43.2
1 1/2	38	1 1/2	-LF-AT24-NT24	73.4	33.0	63.5	52.8
2	50	2	-LF-AT32-NT32	83.8	45.0	63.5	60.7



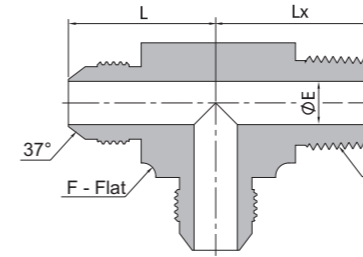
SAE 070221							
Tube O.D.		Basic Ordering Number	Dimension, mm				
in.	mm		L	E	F	Lx	G
1/8	3	-LU-AT2-AS2	19.6	1.6	11.1	24.6	11.1
3/16	4	-LU-AT3-AS3	21.1	3.2	11.1	25.4	12.7
1/4	6	-LU-AT4-AS4	22.6	4.4	12.7	25.4	14.3
5/16	8	-LU-AT5-AS5	24.1	6.0	14.3	26.9	15.9
3/8	10	-LU-AT6-AS6	26.9	7.5	14.3	31.8	17.5
1/2	12	-LU-AT8-AS8	31.8	9.9	20.6	35.1	22.2
5/8	16	-LU-AT10-AS10	36.8	12.3	20.6	41.1	25.4
3/4	18	-LU-AT12-AS12	42.2	15.5	27.0	44.4	31.8
7/8	22	-LU-AT14-AS14	45.7	18.3	31.8	45.2	34.9
1	25	-LU-AT16-AS16	46.0	21.5	34.9	50.8	38.1
1 1/4	32	-LU-AT20-AS20	52.3	27.5	42.9	58.7	50.8
1 1/2	38	-LU-AT24-AS24	59.2	33.0	50.8	65.8	60.3
2	50	-LU-AT32-AS32	77.7	45.0	63.5	85.9	73.0

Male Branch Tees



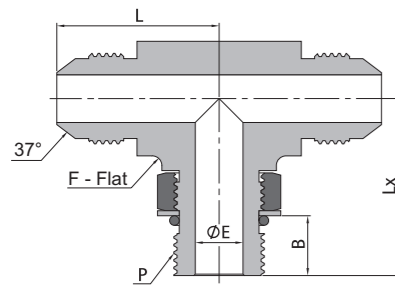
SAE 070425							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-TTM-AT2-NT2	19.6	1.6	11.1	18.3
3/16	4	1/8	-TTM-AT3-NT2	21.1	3.2	11.1	18.3
1/4	6	1/8	-TTM-AT4-NT2	22.6	4.4	12.7	19.8
1/4	6	1/4	-TTM-AT4-NT4	26.9	4.4	14.3	27.7
5/16	8	1/8	-TTM-AT5-NT2	24.1	4.8	14.3	19.8
5/16	8	1/4	-TTM-AT5-NT4	26.9	6.0	14.3	27.7
3/8	10	1/8	-TTM-AT6-NT2	26.9	4.8	14.3	22.8
3/8	10	1/4	-TTM-AT6-NT4	26.9	7.1	14.3	27.7
3/8	10	3/8	-TTM-AT6-NT6	29.0	7.5	17.5	31.0
3/8	10	1/2	-TTM-AT6-NT8	31.2	7.5	20.6	37.3
1/2	12	1/4	-TTM-AT8-NT4	31.8	7.1	20.6	31.0
1/2	12	3/8	-TTM-AT8-NT6	31.8	9.9	20.6	31.0
1/2	12	1/2	-TTM-AT8-NT8	33.7	9.9	20.6	37.3
1/2	12	3/4	-TTM-AT8-NT12	36.0	9.9	25.4	40.4
5/8	16	3/8	-TTM-AT10-NT6	36.8	9.9	20.6	33.0
5/8	16	1/2	-TTM-AT10-NT8	36.8	12.3	20.6	37.3
5/8	16	3/4	-TTM-AT10-NT12	38.9	12.3	25.4	40.4
3/4	18	3/4	-TTM-AT12-NT12	42.2	15.5	27.0	40.4
3/4	18	1	-TTM-AT12-NT16	42.2	15.5	31.8	50.4
7/8	22	3/4	-TTM-AT14-NT12	45.7	18.3	31.8	42.9
1	25	3/4	-TTM-AT16-NT12	46.0	18.3	34.9	45.2
1	25	1	-TTM-AT16-NT16	46.0	21.5	34.9	50.0
1 1/4	32	1	-TTM-AT20-NT16	52.3	23.8	42.9	59.6
1 1/4	32	1 1/4	-TTM-AT20-NT20	52.3	27.5	42.9	60.5
1 1/2	38	1 1/2	-TTM-AT24-NT24	59.2	33.0	50.8	67.1
2	50	2	-TTM-AT32-NT32	77.7	45.0	63.5	76.2

Male Run Tees



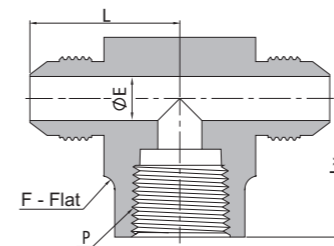
SAE 070424							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-TMT-AT2-NT2	19.6	1.6	11.1	18.3
3/16	4	1/8	-TMT-AT3-NT2	21.1	3.2	11.1	18.3
1/4	6	1/8	-TMT-AT4-NT2	22.6	4.4	12.7	19.8
1/4	6	1/4	-TMT-AT4-NT4	26.9	4.4	14.3	27.7
5/16	8	1/8	-TMT-AT5-NT2	24.1	4.8	14.3	19.8
5/16	8	1/4	-TMT-AT5-NT4	26.9	6.0	14.3	27.7
3/8	10	1/8	-TMT-AT6-NT2	26.9	4.8	14.3	22.8
3/8	10	1/4	-TMT-AT6-NT4	26.9	7.1	14.3	27.7
3/8	10	3/8	-TMT-AT6-NT6	29.0	7.5	17.5	31.0
3/8	10	1/2	-TMT-AT6-NT8	31.2	7.5	20.6	37.3
1/2	12	1/4	-TMT-AT8-NT4	31.8	7.1	20.6	31.0
1/2	12	3/8	-TMT-AT8-NT6	31.8	9.9	20.6	31.0
1/2	12	1/2	-TMT-AT8-NT8	33.7	9.9	20.6	37.3
1/2	12	3/4	-TMT-AT8-NT12	36.0	9.9	25.4	40.4
5/8	16	3/8	-TMT-AT10-NT6	36.8	9.9	20.6	33.0
5/8	16	1/2	-TMT-AT10-NT8	36.8	12.3	20.6	37.3
5/8	16	3/4	-TMT-AT10-NT12	38.9	12.3	25.4	40.4
3/4	18	3/4	-TMT-AT12-NT12	42.2	15.5	27.0	40.4
3/4	18	1	-TMT-AT12-NT16	42.2	15.5	31.8	50.4
7/8	22	3/4	-TMT-AT14-NT12	45.7	18.3	31.8	42.9
1	25	3/4	-TMT-AT16-NT12	46.0	18.3	34.9	45.2
1	25	1	-TMT-AT16-NT16	46.0	21.5	34.9	50.0
1 1/4	32	1	-TMT-AT20-NT16	52.3	23.8	42.9	59.6
1 1/4	32	1 1/4	-TMT-AT20-NT20	52.3	27.5	42.9	60.5
1 1/2	38	1 1/2	-TMT-AT24-NT24	59.2	33.0	50.8	67.1
2	50	2	-TMT-AT32-NT32	77.7	45.0	63.5	76.2

Adjustable Male Branch Tees



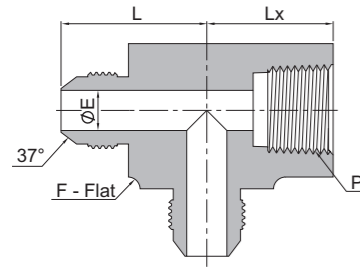
SAE 070429								
Tube O.D.		P- SAE/MS Thread Size	Basic Ordering Number	Dimension, mm				
in.	mm			L	E	F	Lx	B
1/8	3	5/16-24	-TTP-AT2-ST5	19.6	1.6	11.1	23.9	8.4
3/16	4	3/8-24	-TTP-AT3-ST6	21.1	3.2	11.1	23.9	8.4
1/4	6	7/16-20	-TTP-AT4-ST7	22.6	4.4	12.7	26.2	9.8
5/16	8	1/2-20	-TTP-AT5-ST8	24.1	6.0	14.3	28.7	9.8
3/8	10	9/16-18	-TTP-AT6-ST9	26.9	7.5	15.9	31.8	11.0
1/2	12	3/4-16	-TTP-AT8-ST12	31.8	9.9	20.6	36.8	12.5
5/8	16	7/8-14	-TTP-AT10-ST14	36.8	12.3	23.8	43.2	14.2
3/4	18	1 1/16-12	-TTP-AT12-ST17	42.2	15.5	31.8	49.3	16.5
7/8	22	1 3/16-12	-TTP-AT14-ST19	45.7	18.3	31.8	50.8	16.5
1	25	1 5/16-12	-TTP-AT16-ST21	46.0	21.5	34.9	52.1	16.5
1 1/4	32	1 5/8-12	-TTP-AT20-ST26	52.3	27.5	42.9	57.2	16.5
1 1/2	38	1 7/8-12	-TTP-AT24-ST30	59.2	33.0	50.8	60.7	16.5
2	50	2 1/2-12	-TTP-AT32-ST40	77.7	45.0	63.5	73.4	16.5

Female Branch Tees



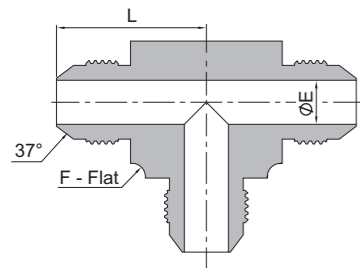
SAE 070427							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-TTF-AT2-NT2	25.4	1.6	14.3	16.8
3/16	4	1/8	-TTF-AT3-NT2	26.2	3.2	14.3	16.8
1/4	6	1/8	-TTF-AT4-NT2	27.4	4.4	14.3	16.8
1/4	6	1/4	-TTF-AT4-NT4	30.9	4.4	20.6	22.4
5/16	8	1/8	-TTF-AT5-NT2	27.4	6.0	14.3	16.8
5/16	8	1/4	-TTF-AT5-NT4	30.9	6.0	20.6	22.4
3/8	10	1/8	-TTF-AT6-NT2	26.9	7.5	15.9	16.8
3/8	10	1/4	-TTF-AT6-NT4	31.2	7.5	20.6	22.4
3/8	10	3/8	-TTF-AT6-NT6	33.2	7.5	23.8	25.9
1/2	12	1/4	-TTF-AT8-NT4	31.6	9.9	20.6	22.4
1/2	12	3/8	-TTF-AT8-NT6	36.1	9.9	23.8	25.9
1/2	12	1/2	-TTF-AT8-NT8	36.1	9.9	27.0	31.2
5/8	16	1/2	-TTF-AT10-NT8	41.7	12.3	27.0	31.2
3/4	18	1/2	-TTF-AT12-NT8	42.1	15.5	31.8	31.2
3/4	18	3/4	-TTF-AT12-NT12	48.0	15.5	34.9	34.5
7/8	22	3/4	-TTF-AT14-NT12	47.2	18.3	34.9	36.1
1	25	1	-TTF-AT16-NT16	55.1	21.5	42.9	41.1
1 1/4	32	1 1/4	-TTF-AT20-NT20	59.2	27.5	50.8	43.2
1 1/2	38	1 1/2	-TTF-AT24-NT24	73.4	33.0	63.5	52.8
2	50	2	-TTF-AT32-NT32	83.8	45.0	63.5	60.7

Female Run Tees



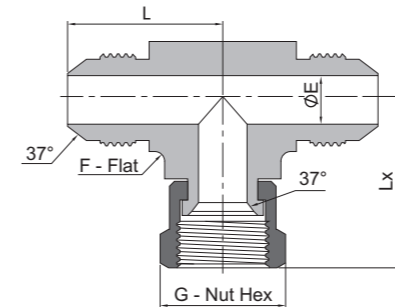
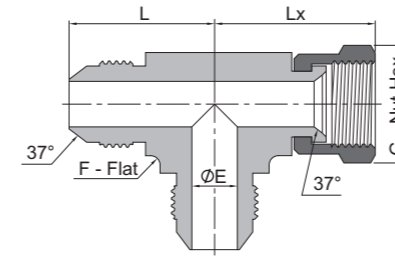
SAE 070426							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-TFT-AT2-NT2	25.4	1.6	14.3	16.8
3/16	4	1/8	-TFT-AT3-NT2	26.2	3.2	14.3	16.8
1/4	6	1/8	-TFT-AT4-NT2	27.4	4.4	14.3	16.8
1/4	6	1/4	-TFT-AT4-NT4	30.9	4.4	20.6	22.4
5/16	8	1/8	-TFT-AT5-NT2	27.4	6.0	14.3	16.8
5/16	8	1/4	-TFT-AT5-NT4	30.9	6.0	20.6	22.4
3/8	10	1/8	-TFT-AT6-NT2	26.9	7.5	15.9	16.8
3/8	10	1/4	-TFT-AT6-NT4	31.2	7.5	20.6	22.4
3/8	10	3/8	-TFT-AT6-NT6	33.2	7.5	23.8	25.9
1/2	12	1/4	-TFT-AT8-NT4	31.6	9.9	20.6	22.4
1/2	12	3/8	-TFT-AT8-NT6	36.1	9.9	23.8	25.9
1/2	12	1/2	-TFT-AT8-NT8	36.1	9.9	27.0	31.2
5/8	16	1/2	-TFT-AT10-NT8	41.7	12.3	27.0	31.2
3/4	18	1/2	-TFT-AT12-NT8	42.1	15.5	31.8	31.2
3/4	18	3/4	-TFT-AT12-NT12	48.0	15.5	34.9	34.5
7/8	22	3/4	-TFT-AT14-NT12	47.2	18.3	34.9	36.1
1	25	1	-TFT-AT16-NT16	55.1	21.5	42.9	41.1
1 1/4	32	1 1/4	-TFT-AT20-NT20	59.2	27.5	50.8	43.2
1 1/2	38	1 1/2	-TFT-AT24-NT24	73.4	33.0	63.5	52.8
2	50	2	-TFT-AT32-NT32	83.8	45.0	63.5	60.7

Union Tees

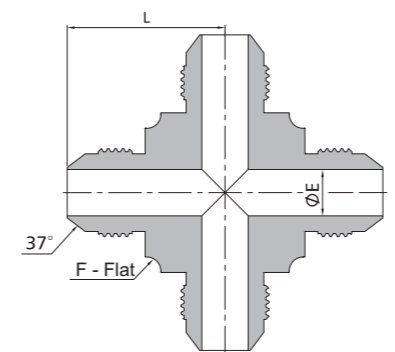


SAE 070401					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-TTT-AT2	19.6	1.6	11.1
3/16	4	-TTT-AT3	21.1	3.2	11.1
1/4	6	-TTT-AT4	22.6	4.4	12.7
5/16	8	-TTT-AT5	24.1	6.0	14.3
3/8	10	-TTT-AT6	26.9	7.5	14.3
1/2	12	-TTT-AT8	31.8	9.9	20.6
5/8	16	-TTT-AT10	36.8	12.3	20.6
3/4	18	-TTT-AT12	42.2	15.5	27.0
7/8	22	-TTT-AT14	45.7	18.3	31.8
1	25	-TTT-AT16	46.0	21.5	34.9
1 1/4	32	-TTT-AT20	52.3	27.5	42.9
1 1/2	38	-TTT-AT24	59.2	33.0	50.8
2	50	-TTT-AT32	77.7	45.0	63.5

Union Tees



Union Crosses



SAE 070432							
Tube O.D.		Basic Ordering Number	Dimension, mm				
in.	mm		L	E	F	Lx	G
1/8	3	-TTT-AT2-AS2-AT2	19.6	1.6	11.1	24.6	11.1
3/16	4	-TTT-AT3-AS3-AT3	21.1	3.2	11.1	25.4	12.7
1/4	6	-TTT-AT4-AS4-AT4	22.6	4.4	12.7	25.4	14.3
5/16	8	-TTT-AT5-AS5-AT5	24.1	6.0	14.3	26.9	15.9
3/8	10	-TTT-AT6-AS6-AT6	26.9	7.5	14.3	31.8	17.5
1/2	12	-TTT-AT8-AS8-AT8	31.8	9.9	20.6	35.1	22.2
5/8	16	-TTT-AT10-AS10-AT10	36.8	12.3	20.6	41.1	25.4
3/4	18	-TTT-AT12-AS12-AT12	42.2	15.5	27.0	44.4	31.8
7/8	22	-TTT-AT14-AS14-AT14	45.7	18.3	31.8	45.2	34.9
1	25	-TTT-AT16-AS16-AT16	46.0	21.5	34.9	50.8	38.1
1 1/4	32	-TTT-AT20-AS20-AT20	52.3	27.5	42.9	58.7	50.8
1 1/2	38	-TTT-AT24-AS24-AT24	59.2	33.0	50.8	65.8	60.3
2	50	-TTT-AT32-AS32-AT32	77.7	45.0	63.5	85.9	73.0

SAE 070433							
Tube O.D.		Basic Ordering Number	Dimension, mm				
in.	mm		L	E	F	Lx	G
1/8	3	-TTT-AT2-AT2-AS2	19.6	1.6	11.1	24.6	11.1
3/16	4	-TTT-AT3-AT3-AS3	21.1	3.2	11.1	25.4	12.7
1/4	6	-TTT-AT4-AT4-AS4	22.6	4.4	12.7	25.4	14.3
5/16	8	-TTT-AT5-AT5-AS5	24.1	6.0	14.3	26.9	15.9
3/8	10	-TTT-AT6-AT6-AS6	26.9	7.5	14.3	31.8	17.5
1/2	12	-TTT-AT8-AT8-AS8	31.8	9.9	20.6	35.1	22.2
5/8	16	-TTT-AT10-AT10-AS10	36.8	12.3	20.6	41.1	25.4
3/4	18	-TTT-AT12-AT12-AS12	42.2	15.5	27.0	44.4	31.8
7/8	22	-TTT-AT14-AT14-AS14	45.7	18.3	31.8	45.2	34.9
1	25	-TTT-AT16-AT16-AS16	46.0	21.5	34.9	50.8	38.1
1 1/4	32	-TTT-AT20-AT20-AS20	52.3	27.5	42.9	58.7	50.8
1 1/2	38	-TTT-AT24-AT24-AS24	59.2	33.0	50.8	65.8	60.3
2	50	-TTT-AT32-AT32-AS32	77.7	45.0	63.5	85.9	73.0

SAE 070501					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-C-AT2	19.6	1.6	11.1
3/16	4	-C-AT3	21.1	3.2	11.1
1/4	6	-C-AT4	22.6	4.4	12.7
5/16	8	-C-AT5	24.1	6.0	14.3
3/8	10	-C-AT6	26.9	7.5	14.3
1/2	12	-C-AT8	31.8	9.9	20.6
5/8	16	-C-AT10	36.8	12.3	20.6
3/4	18	-C-AT12	42.2	15.5	27.0
7/8	22	-C-AT14	45.7	18.3	31.8
1	25	-C-AT16	46.0	21.5	34.9
1 1/4	32	-C-AT20	52.3	27.5	42.9
1 1/2	38	-C-AT24	59.2	33.0	50.8
2	50	-C-AT32	77.7	45.0	63.5