



OmegaOne

Fittings.
Made.
Easy.



AMFM Braid Bands
Stainless Steel Tube
and Pipe Fittings



800.333.2636
Fittings. Made. Easy.

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Flared Fittings

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F

Flareless Fittings

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P-FF	5504	140238	DD	FF	90° Female Elbow	55
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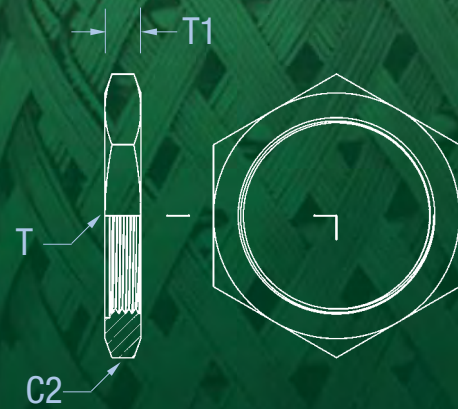
TX Flared Fittings

BN

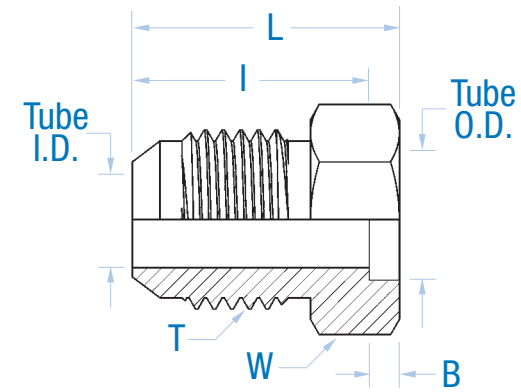
306
MS51860
SAE 080118

Part #	Tube O.D.	T	C2 Hex	T1
BN-3	3/16	3/8-24	5/8	.22
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BN-5	5/16	1/2-20	3/4	.28
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BN-8	1/2	3/4-16	1	.31
BN-10	5/8	7/8-14	1 1/8	.36
BN-12	3/4	1 1/16-12	1 3/8	.41
BN-14	7/8	1 3/16-12	1 1/2	.41
BN-16	1	1 5/16-12	1 5/8	.41
BN-20	1 1/4	1 5/8-12	1 7/8	.41
BN-24	1 1/2	1 7/8-12	2 1/8	.41
BN-32	2	2 1/2-12	2 3/4	.41

Bulkhead Locknut • Bulkhead Fitting Locknut



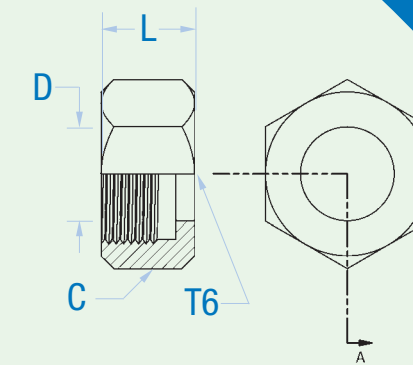
403



O.D. Socket • Weld x Male Flare

Tube Fitting Part #	Tube O.D.	T	B	ID-Tube	I	L	W
403-4	1/4	7/16-20	.16	1/4	.550	.74	1/2
403-6	3/8	9/16-18	.16	3/8	.556	.81	5/8
403-8	1/2	3/4-16	.16	1/2	.657	.94	1 3/16
403-12	3/4	1 1/16-12	.25	3/4	.864	1.24	1 1/8
403-16	1	1 5/16-12	.25	1	.911	1.29	1 3/8
403-20	1 1/4	1 5/8-12	.25	1 1/4	.958	1.40	1 11/16
403-24	1 1/2	1 7/8-12	.25	1 1/2	1.083	1.58	2
403-32	2	2 1/2-12	.25	2	1.333	1.96	2 5/8

TX-N



Nut • Flare Tube End Nut

Tube Fitting Part #	Tube O.D.	T6 UN/UNF-2B	C Hex	D	L
TX-2-N	1/8	5/16-24	3/8	.179	.550
TX-3-N	3/16	3/8-24	7/16	.241	.610
TX-4-N	1/4	7/16-20	9/16	.304	.620
TX-5-N	5/16	1/2-20	5/8	.373	.680
TX-6-N	3/8	9/16-18	11/16	.439	.730
TX-8-N	1/2	3/4-16	7/8	.568	.850
TX-10-N	5/8	7/8-14	1	.696	.980
TX-12-N	3/4	1 1/16-12	1 1/4	.832	1.030
TX-14-N	7/8	1 3/16-12	1 3/8	.959	1.090
TX-16-N	1	1 5/16-12	1 1/2	1.087	1.130
TX-20-N	1 1/4	1 5/8-12	2	1.344	1.230
TX-24-N	1 1/2	1 7/8-12	2 1/4	1.614	1.420
TX-32-N	2	2 1/2-12	2 7/8	2.164	1.750

Flared Fittings

TX

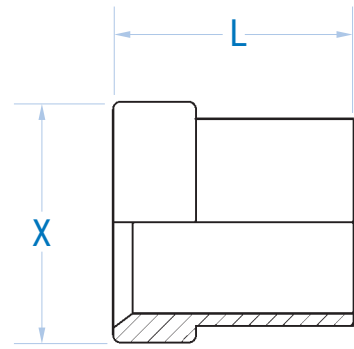
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TX-N

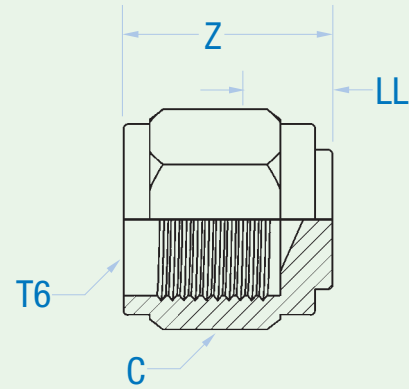
318
MS51531
SAE 070110

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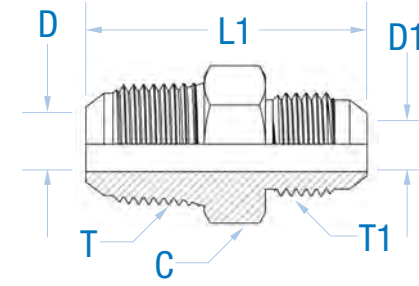
TX-S



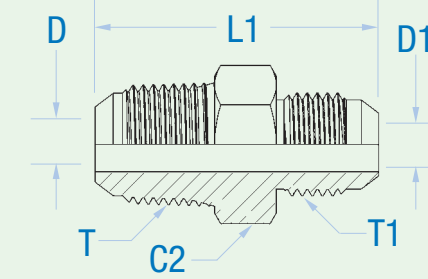
TX-Z



TX-U



TX-LHU



TX-S

Sleeve • Flare Tube End Sleeve

319
MS51533
SAE 070115

Tube Fitting Part #	Tube O.D.	L	X
TX-2-S	1/8	.34	.267
TX-3-S	3/16	.34	.329
TX-4-S	1/4	.41	.383
TX-5-S	5/16	.44	.445
TX-6-S	3/8	.50	.502
TX-8-S	1/2	.56	.682
TX-10-S	5/8	.66	.797
TX-12-S	3/4	.69	.972
TX-14-S	7/8	.75	1.097
TX-16-S	1	.78	1.222
TX-20-S	1 1/4	.91	1.534
TX-24-S	1 1/2	1.13	1.784
TX-32-S	2	1.19	2.409

Union • Flare Tube End/Flare Tube End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T1 Tube End UN/UNF-2B	C Hex	D Drill	D1 Drill	L1	Dynamic Pressure Rtg
TX-2-U	1/8	5/16-24	5/16-24	7/16	.062	.062	1.17	7700
TX-3-U	3/16	3/8-24	3/8-24	7/16	.125	.125	1.23	7700
TX-4-U	1/4	7/16-20	7/16-20	1/2	.172	.172	1.38	7700
TX-5-U	5/16	1/2-20	1/2-20	9/16	.234	.234	1.38	7700
TX-6-U	3/8	9/16-18	9/16-18	5/8	.297	.297	1.41	7700
TX-6-4-U	3/8	9/16-18	7/16-20	5/8	.297	.172	1.41	7700
TX-8-U	1/2	3/4-16	3/4-16	13/16	.391	.391	1.62	7700
TX-8-6-U	1/2	3/4-16	9/16-18	13/16	.391	.297	1.52	7700
TX-10-U	5/8	7/8-14	7/8-14	15/16	.484	.484	1.88	6000
TX-10-8-U	5/8	7/8-14	3/4-16	15/16	.484	.391	1.78	6000
TX-12-U	3/4	1 1/16-12	1 1/16-12	1 1/8	.609	.609	2.16	6000
TX-12-8-U	3/4	3/4-16	3/4-16	1 1/8	.609	.391	1.95	6000
TX-12-10-U	3/4	7/8-14	7/8-14	1 1/8	.609	.484	2.05	6000
TX-14-U	7/8	1 3/16-12	1 3/16-12	1 1/4	.718	.718	2.22	4800
TX-16-U	1	1 5/16-12	1 5/16-12	1 3/8	.844	.844	2.25	4800
TX-16-12-U	1	1 1/16-12	1 1/16-12	1 3/8	.609	.609	2.20	4800
TX-20-U	1 1/4	1 5/8-12	1 5/8-12	1 11/16	1.078	1.078	2.44	3600
TX-24-U	1 1/2	1 7/8-12	1 7/8-12	2	1.312	1.312	2.75	2400
TX-32-U	2	2 1/2-12	2 1/2-12	2 5/8	1.781	1.781	3.41	1800

TX-U

2403
MS 51501
SAE 070101

TX-Z

Cap • Flare Tube End Cap

304-C
MS51532
SAE 070112

Tube Fitting Part #	Tube O.D.	T6 UN/UNF-2B	C Hex	LL	Z	Dynamic Pressure Rating
TX-2-Z	1/8	5/16-24	3/8	.375	.601	7700
TX-3-Z	3/16	3/8-24	7/16	.375	.662	7700
TX-4-Z	1/4	7/16-20	9/16	.344	.673	7700
TX-5-Z	5/16	1/2-20	5/8	.406	.766	7700
TX-6-Z	3/8	9/16-18	11/16	.469	.806	7700
TX-8-Z	1/2	3/4-16	7/8	.531	.942	7700
TX-10-Z	5/8	7/8-14	1	.531	1.067	6000
TX-12-Z	3/4	1 1/16-12	1 1/4	.656	1.243	6000
TX-14-Z	7/8	1 3/16-12	1 3/8	.625	1.258	4800
TX-16-Z	1	1 5/16-12	1 1/2	.625	1.290	4800
TX-20-Z	1 1/4	1 5/8-12	2	.750	1.392	3600
TX-24-Z	1 1/2	1 7/8-12	2 1/4	.938	1.701	2400
TX-32-Z	2	2 1/2-12	2 7/8	1.188	2.071	1800

*LL - END TO BASE OF MATING FLARE SEAT

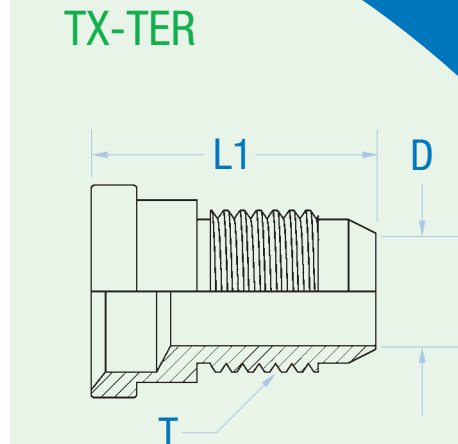
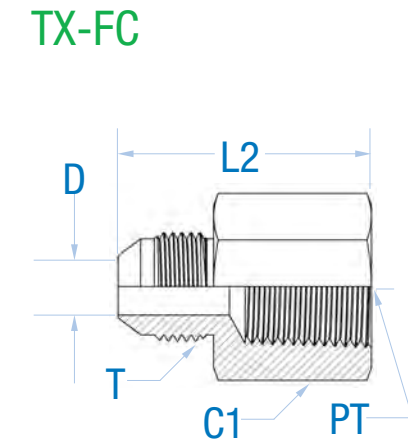
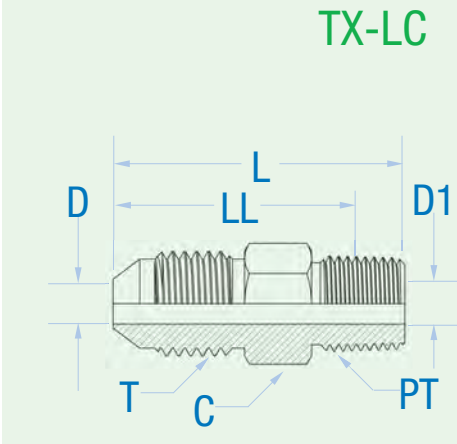
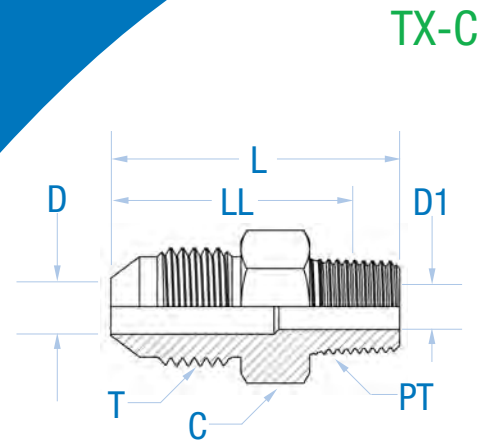
Large Hex Union • Flare Tube End/Flare Tube End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T1 Tube End UN/UNF-2A	C2 Hex	D Drill	D1 Drill	L1	Dynamic Pressure Rtg.
TX-4-LHU	1/4	7/16-20	7/16-20	11/16	0.172	0.172	1.37	7700
TX-4-3-LHU	1/4 to 3/16	7/16-20	3/8-24	11/16	0.172	0.125	1.30	7700
TX-5-LHU	5/16	1/2-20	1/2-20	3/4	0.234	0.234	1.37	7700
TX-6-LHU	3/8	9/16-18	9/16-18	13/16	0.297	0.297	1.41	7700
TX-6-4-LHU	3/8 to 1/4	9/16-18	7/16-20	13/16	0.297	0.172	1.41	7700
TX-8-LHU	1/2	3/4-16	3/4-16	1	0.391	0.391	1.62	7700
TX-8-4-LHU	1/2 to 1/4	3/4-16	7/16-20	1	0.391	0.172	1.52	7700
TX-8-6-LHU	3/8 to 3/8	3/4-16	9/16-18	1	0.391	0.297	1.52	7700
TX-10-LHU	3/4	7/8-14	7/8-14	1 1/8	0.484	0.484	1.88	6000
TX-12-LHU	3/4	1 1/16-12	1 1/16-12	1 3/8	0.609	0.609	2.16	6000
TX-12-8-LHU	3/4 to 1/2	1 1/16-12	3/4-16	1 3/8	0.609	0.391	2.25	6000
TX-16-LHU	1	1 5/16-12	1 5/16-12	1 5/8	0.844	0.844	2.25	4800

C2* - LARGE HEX ALLOWS FOR USE IN MS33649 PORT

TX-LHU

2403-LH
MS51519
SAE 070119



TX-C

Male Connector • Flare Tube End/Male Pipe End

2404
MS51500
SAE 070102

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT PORT THD NPTF	C Hex	D Drill	D1 Drill	L	LL After Assy.	Dynamic Pressure Rtg
TX-2-C	1/8	5/16-24	1/8-27	7/16	.062	.188	1.11	.88	6000
TX-3-C	3/16	3/8-24	1/8-27	7/16	.125	.188	1.14	.91	6000
TX-4-C	1/4	7/16-20	1/8-27	1/2	.172	.188	1.22	.99	6000
TX-4-4-C	1/4	7/16-20	1/4-18	9/16	.172	.281	1.42	1.08	6000
TX-4-6-C	1/4	7/16-20	3/8-18	3/4	.172	.406	1.44	1.09	6000
TX-4-8-C	1/4	7/16-20	1/2-14	7/8	.172	.531	1.69	1.23	6000
TX-5-C	5/16	1/2-20	1/8-27	9/16	.234	.188	1.22	.99	6000
TX-5-4-C	5/16	1/2-20	1/4-18	9/16	.234	.281	1.42	1.08	6000
TX-6-C	3/8	9/16-18	1/4-18	5/8	.297	.281	1.43	1.09	6000
TX-6-2-C	3/8	9/16-18	1/8-27	5/8	.297	.188	1.24	1.01	6000
TX-6-6-C	3/8	9/16-18	3/8-18	3/4	.297	.406	1.44	1.09	6000
TX-6-8-C	3/8	9/16-18	1/2-14	7/8	.297	.531	1.69	1.23	6000
TX-8-C	1/2	3/4-16	3/8-18	13/16	.391	.406	1.53	1.18	6000
TX-8-4-C	1/2	3/4-16	1/4-18	13/16	.391	.281	1.53	1.19	6000
TX-8-8-C	1/2	3/4-16	1/2-14	7/8	.391	.531	1.78	1.32	6000
TX-8-12-C	1/2	3/4-16	3/4-14	1 1/8	.391	.719	1.85	1.37	4800
TX-10-C	5/8	7/8-14	1/2-14	15/16	.484	.531	1.89	1.43	6000
TX-10-6-C	5/8	7/8-14	3/8-18	15/16	.484	.406	1.70	1.35	6000
TX-10-12-C	5/8	7/8-14	3/4-14	1 1/8	.484	.719	1.95	1.47	4800
TX-12-C	3/4	1 1/16-12	3/4-14	1 1/8	.609	.719	2.06	1.58	4800
TX-12-8-C	3/4	1 1/16-12	1/2-14	1 1/8	.609	.531	2.06	1.60	5400
TX-12-16-C	3/4	1 1/16-12	1-11 1/2	1 3/8	.609	.938	2.25	1.68	3600
TX-14-C	7/8	1 3/16-12	3/4-14	1 1/4	.718	.719	2.09	1.61	4200
TX-16-C	1	1 5/16-12	1-11 1/2	1 3/8	.844	.938	2.30	1.73	3600
TX-16-12-C	1	1 5/16-12	3/4-14	1 3/8	.844	.719	2.11	1.63	4200
TX-20-C	1 1/4	1 5/8-12	1 1/4-11 1/2	1 11/16	1.078	1.250	2.45	1.86	3000
TX-20-16-C	1 1/4	1 5/8-12	1-11 1/2	1 11/16	1.078	.938	2.42	1.85	3600
TX-24-C	1 1/2	1 7/8-12	1 1/2-11 1/2	2	1.312	1.500	2.67	2.08	2400
TX-24-20-C	1 1/2	1 7/8-12	1 1/4-11 1/2	2	1.312	1.250	2.66	2.07	2400
TX-32-C	2	2 1/2-12	2-11 1/2	2 5/8	1.781	1.938	3.11	2.50	1800

*D MAY BE SUBSTITUTED FOR D1 WHERE D IS SMALLER THAN D1

TX-LC

Long Male Connector • Flare Tube End/Flare Tube End

2404-L
SAE 071802

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT NPTF	C Hex	D Drill	D1 Drill	L	LL	Dynamic Pressure Rtg
TX-4-LC	1/4	7/16-20	1/8-27	1/2	.172	.172	1.810	1.58	6000
TX-4-4-LC	1/4	7/16-20	1/4-18	9/19	.172	.172	2.250	1.91	6000
TX-6-LC	3/8	9/16-18	1/4-18	5/8	.297	.281	2.250	1.91	6000
TX-6-6-LC	3/8	9/16-18	3/8-18	3/4	.297	.297	2.500	2.15	6000
TX-8-LC	1/2	3/4-16	3/8-18	13/16	.391	.406	2.750	2.40	6000
TX-8-8-LC	1/2	3/4-16	1/2-14	15/16	.531	.391	2.800	2.34	6000
TX-10-LC	5/8	7/8-14	1/2-14	15/16	.484	.531	3.120	2.66	6000
TX-12-LC	3/4	1 1/16-12	3/4-14	1 1/8	.609	.609	3.500	3.02	4800

TX-FC

Female Connector • Flare Tube End/Female Pipe End

2405
MS51503
SAE 070103

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port Thread NPTF	C1 Hex	D Drill	L2	Dynamic Pressure Rtg
TX-2-FC	1/8	5/16-24	1/8-27	9/16	.062	1.13	6000
TX-3-FC	3/16	3/8-24	1/8-27	9/16	.125	1.13	6000
TX-4-FC	1/4	7/16-20	1/8-27	9/16	.172	1.19	6000
TX-4-4-FC	1/4	7/16-20	1/4-18	3/4	.172	1.39	6000
TX-5-FC	5/16	1/2-20	1/8-27	9/16	.234	1.17	6000
TX-5-4-FC	5/16	1/2-20	1/4-18	3/4	.234	1.39	6000
TX-6-FC	3/8	9/16-18	1/4-18	3/4	.297	1.41	6000
TX-6-6-FC	3/8	9/16-18	3/8-18	7/8	.297	1.47	6000
TX-8-FC	1/2	3/4-16	3/8-18	7/8	.391	1.56	6000
TX-8-8-FC	1/2	3/4-16	1/2-14	1 1/8	.391	1.79	6000
TX-10-FC	5/8	7/8-14	1/2-14	1 1/8	.484	1.89	6000
TX-12-FC	3/4	1 1/16-12	3/4-14	1 3/8	.609	2.06	4800
TX-12-8-FC	3/4	1 1/16-12	1/2-14	1 1/8	.609	1.91	5400
TX-14-FC	7/8	1 3/16-12	3/4-14	1 3/8	.718	2.06	4200
TX-16-FC	1	1 5/16-12	1-11 1/2	1 5/8	.844	2.34	3600
TX-20-FC	1 1/4	1 5/8-12	1 1/4-11 1/2	2	1.078	2.48	3000
TX-24-FC	1 1/2	1 7/8-12	1 1/2-11 1/2	2 3/8	1.312	2.63	2400
TX-32-FC	2	2 1/2-12	2-11 1/2	2 7/8	1.781	2.97	1800

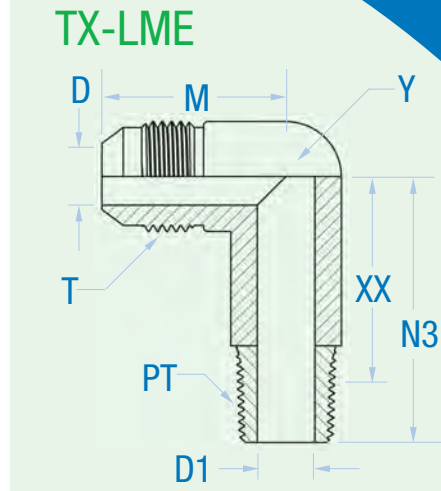
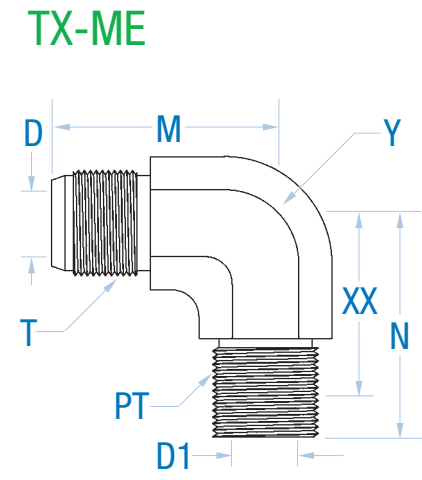
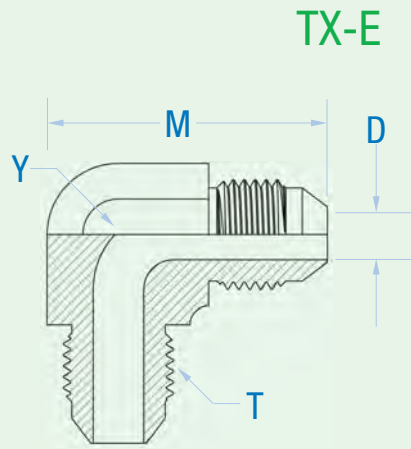
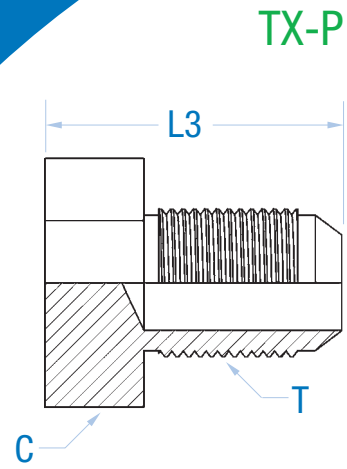
TX-TER

Tube End Reducer • Assembles to Flare End to Reduce Size

2406
MS51534

Tube Fitting Part #	Tube O.D. Reduction	T Tube End UN/UNF-2A	D Drill	L1	Dynamic Pressure Rtg
TX-4-2-TER	1/4 to 1/8	5/16-24	.062	.69	7700
TX-6-4-TER	3/8 to 1/4	7/16-20	.172	.90	7700
TX-8-4-TER	1/2 to 1/4	7/16-20	.172	.91	7700
TX-8-6-TER	1/2 to 3/8	9/16-18	.297	.91	7700
TX-10-4-TER	5/8 to 1/4	7/16-20	.172	.95	6000
TX-10-6-TER	5/8 to 3/8	9/16-18	.297	.95	6000
TX-10-8-TER	5/8 to 1/2	3/4-16	.391	.88	6000
TX-12-4-TER	3/4 to 1/4	7/16-20	.172	.98	6000
TX-12-6-TER	3/4 to 3/8	9/16-18	.297	.98	6000
TX-12-8-TER	3/4 to 1/2	3/4-16	.391	1.08	6000
TX-12-10-TER	3/4 to 5/8	7/8-14	.484	1.04	6000
TX-14-6-TER	7/8 to 3/8	9/16-18	.297	1.01	4800
TX-14-10-TER	7/8 to 5/8	7/8-14	.484	1.22	4800
TX-14-12-TER	7/8 to 3/4	1 1/16-12	.609	1.20	4800
TX-16-8-TER	1 to 1/2	3/4-16	.391	1.15	4800
TX-16-12-TER	1 to 3/4	1 1/16-12	.609	1.36	4800
TX-16-14-TER	1 to 7/8	1 3/16-12	.718	1.23	4800
TX-20-12-TER	1 1/4 to 3/4	1 1/16-12	0.609	1.37	3600
TX-20-16-TER	1 1/4 to 1	1 5/16-12	0.844	1.44	3600
TX-24-20-TER	1 1/2 to 1 1/4	1 5/8-12	1.078	1.47	2400

** DOES NOT CONFORM TO MS/SAE, ***L1-END TO BASE OF FLARE SEAT



TX-P

Plug • Flare Plug

2408
MS51518
SAE 070109

Tube Fitting Part #	Tube O.D.	T UN/UNF-2B	C Hex	L3	Dynamic Pressure Rtg
TX-2-P	1/8	5/16-24	7/16	.70	7700
TX-3-P	3/16	3/8-24	7/16	.73	7700
TX-4-P	1/4	7/16-20	1/2	.80	7700
TX-5-P	5/16	1/2-20	9/16	.80	7700
TX-6-P	3/8	9/16-18	5/8	.84	7700
TX-8-P	1/2	3/4-16	13/16	.94	7700
TX-10-P	5/8	7/8-14	15/16	1.10	6000
TX-12-P	3/4	1 1/16-12	1 1/8	1.28	6000
TX-14-P	7/8	1 3/16-12	1 1/4	1.31	4800
TX-16-P	1	1 5/16-12	1 3/8	1.33	4800
TX-20-P	1 1/4	1 5/8-12	1 11/16	1.45	3600
TX-24-P	1 1/2	1 7/8-12	2	1.66	2400
TX-32-P	2	2 1/2-12	2 5/8	2.05	1800

*DRILL MAY BE PRESENT DUE TO MANUFACTURING OPTION PER SAE J514

TX-E

Union Elbow • Flare Tube End/Flare Tube End

2500
MS51505
SAE 070201

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	D Drill	M	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-2-E	1/8	5/16-24	.062	.770	7/16	7700
TX-3-E	3/16	3/8-24	.125	.830	7/16	7700
TX-4-E	1/4	7/16-20	.172	.890	7/16	7700
TX-5-E	5/16	1/2-20	.234	.950	9/16	6000
TX-6-E	3/8	9/16-18	.297	1.060	9/16	6000
TX-8-E	1/2	3/4-16	.391	1.250	3/4	6000
TX-10-E	5/8	7/8-14	.484	1.450	7/8	5000
TX-12-E	3/4	1 1/16-12	.609	1.660	1 1/16	5000
TX-14-E	7/8	1 3/16-12	.718	1.800	1 3/16	3500
TX-16-E	1	1 5/16-12	.844	1.810	1 5/16	3500
TX-20-E	1 1/4	1 5/8-12	1.078	2.060	1 5/8	3000
TX-24-E	1 1/2	1 7/8-12	1.312	2.330	1 7/8	2000
TX-32-E	2	2 1/2-12	1.781	3.060	2 1/2	1500

TX-ME

Male Elbow • Flare Tube End/Male Pipe End

2501
MS51504
SAE 070202

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	M	N	XX After Assembly	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-2-ME	1/8	5/16-24	1/8-27	.062	.188	.770	.720	.490	7/16	5000
TX-3-ME	3/16	3/8-24	1/8-27	.125	.188	.830	.720	.490	7/16	5000
TX-4-ME	1/4	7/16-20	1/8-27	.172	.188	.890	.780	.550	7/16	5000
TX-4-4-ME	1/4	7/16-20	1/4-18	.172	.281	1.050	1.090	.750	9/16	5000
TX-4-6-ME	1/4	7/16-20	3/8-18	.172	.406	1.130	1.220	.870	3/4	5000
TX-4-8-ME	1/4	7/16-20	1/2-14	.172	.531	1.230	1.440	.970	7/8	5000
TX-5-ME	5/16	1/2-20	1/8-27	.234	.188	.950	.780	.550	9/16	5000
TX-5-4-ME	5/16	1/2-20	1/4-18	.234	.281	1.050	1.090	.750	9/16	5000
TX-6-ME	3/8	9/16-18	1/4-18	.297	.281	1.060	1.090	.750	9/16	5000
TX-6-2-ME	3/8	9/16-18	1/8-27	.297	.188	1.060	.900	.670	9/16	5000
TX-6-6-ME	3/8	9/16-18	3/8-18	.297	.406	1.140	1.220	.870	3/4	5000
TX-6-8-ME	3/8	9/16-18	1/2-14	.297	.531	1.220	1.470	1.010	7/8	5000
TX-8-ME	1/2	3/4-16	3/8-18	.391	.406	1.250	1.220	.870	3/4	5000
TX-8-4-ME	1/2	3/4-16	1/4-18	.391	.281	1.250	1.220	.880	3/4	5000
TX-8-8-ME	1/2	3/4-16	1/2-14	.391	.531	1.330	1.470	1.010	7/8	5000
TX-8-12-ME	1/2	3/4-16	3/4-14	.391	.719	1.420	1.590	1.110	1 1/16	4000
TX-10-ME	5/8	7/8-14	1/2-14	.484	.531	1.450	1.470	1.010	7/8	5000
TX-10-6-ME	5/8	7/8-14	3/8-18	.484	.406	1.450	1.280	.930	7/8	5000
TX-10-12-ME	5/8	7/8-14	3/4-14	.484	.719	1.530	1.590	1.110	1 1/16	4000
TX-12-ME	3/4	1 1/16-12	3/4-14	.609	.719	1.660	1.590	1.110	1 1/16	4000
TX-12-8-ME	3/4	1 1/16-12	1/2-14	.609	.531	1.660	1.590	1.130	1 1/16	4500
TX-12-16-ME	3/4	1 1/16-12	1-11 1/2	.609	.938	1.760	1.970	1.390	1 5/16	3000
TX-14-ME	7/8	1 3/16-12	3/4-14	.718	.719	1.800	1.690	1.210	1 3/16	3500
TX-16-ME	1	1 5/16-12	1-11 1/2	.844	.938	1.810	1.970	1.400	1 5/16	3000
TX-16-12-ME	1	1 5/16-12	3/4-14	.844	.719	1.810	1.780	1.300	1 5/16	3500
TX-16-20-ME	1	1 5/16-12	1 1/4-11 1/2	.844	1.250	2.130	2.380	1.780	1 5/8	2500
TX-20-ME	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.250	2.060	2.380	1.790	1 5/8	2500
TX-20-16-ME	1 1/4	1 5/8-12	1-11 1/2	1.078	.938	2.060	2.060	1.490	1 5/8	3000
TX-20-24-ME	1 1/4	1 5/8-12	1 1/2-11 1/2	1.078	1.500	2.200	2.640	2.050	1 7/8	2000
TX-24-ME	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.500	2.330	2.640	2.050	1 7/8	2000
TX-24-20-ME	1 1/2	1 7/8-12	1 1/4-11 1/2	1.312	1.250	2.330	2.250	1.660	1 7/8	2000
TX-32-ME	2	2 1/2-12	2-11 1/2	1.781	1.938	3.060	3.000	2.390	2 1/2	1500

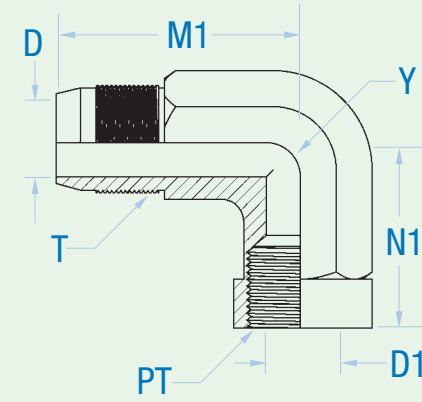
Long Male Elbow • Flare Tube End/ Long Male Pipe End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT PORT THD NPTF	D Drill	D1 Drill	M	N3	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-LME	1/4	7/16-20	1/8-27	.172	.188	.890	1.170	.960	7/16	5000
TX-4-4-LME	1/4	7/16-20	1/4-18	.172	.281	1.050	1.440	1.100	9/16	5000
TX-6-LME	3/8	9/16-18	1/4-18	.297	.281	1.060	1.580	1.220	9/16	5000
TX-6-6-LME	3/8	9/16-18	3/8-18	.297	.406	1.140	2.340	1.990	3/4	5000
TX-8-LME	1/2	3/4-16	3/8-18	.391	.406	1.250	1.820	1.170	3/4	5000
TX-8-8-LME	1/2	3/4-16	1/2-14	.391	.531	1.340	2.160	1.690	7/8	5000
TX-10-LME	5/8	7/8-14	1/2-14	.484	.531	1.450	2.170	1.700	7/8	5000
TX-12-LME	3/4	1 1/16-12	3/4-14	.609	.719	1.660	2.440	1.930	1 1/16	4000
TX-16-LME	1	1 5/16-12	1-11 1/2	.844	.938	1.810	3.010	2.350	1 5/16	3000

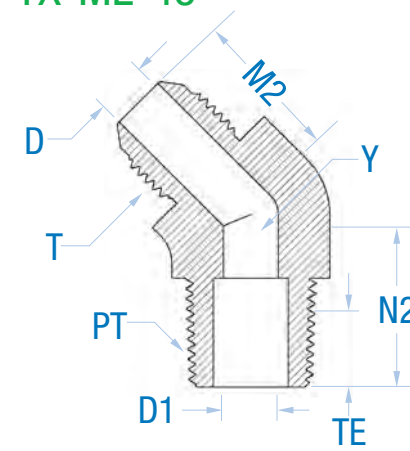
2501-L
SAE 071502

TX-LME

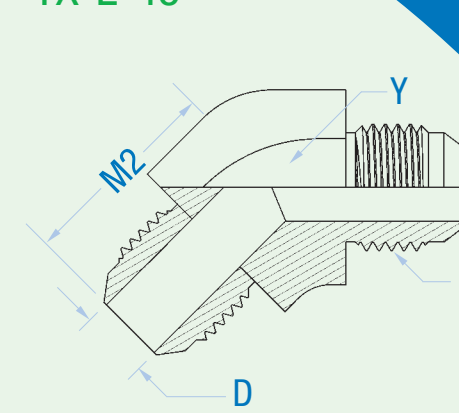
TX-FE



TX-ME-45



TX-E-45



TX-FE

Female Elbow • Flare Tube End/Female Pipe End

2502
MS51506
SAE 070203

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port Thread NPTF	D Drill	D1 Drill	M1	N1	Y Across Wrench Flats
TX-4-FE	1/4	7/16-20	1/8-27	.172	.172	1.080	.660	9/16
TX-4-4-FE	1/4	7/16-20	1/4-18	.172	.172	1.220	.880	3/4
TX-5-FE	5/16	1/2-20	1/8-27	.234	.234	1.080	.660	9/16
TX-5-4-FE	5/16	1/2-20	1/4-18	.234	.234	1.130	.880	3/4
TX-6-FE	3/8	9/16-18	1/4-18	.297	.297	1.230	.880	3/4
TX-6-2-FE	3/8	9/16-18	1/8-27	.297	.297	1.230	.670	9/16
TX-6-6-FE	3/8	9/16-18	3/8-18	.297	.297	1.310	1.020	7/8
TX-8-FE	1/2	3/4-16	3/8-18	.391	.391	1.420	1.020	7/8
TX-8-4-FE	1/2	3/4-16	1/4-18	.391	.391	1.420	1.010	3/4
TX-8-8-FE	1/2	3/4-16	1/2-14	.391	.391	1.520	1.230	1 1/16
TX-10-FE	5/8	7/8-14	1/2-14	.484	.484	1.640	1.230	1 1/16
TX-12-FE	3/4	1 1/16-12	3/4-14	.609	.609	1.890	1.360	1 5/16
TX-12-8-FE	3/4	1 1/16-12	1/2-14	.609	.609	1.890	1.350	1 1/16
TX-14-FE	7/8	1 3/16-12	3/4-14	.718	.718	1.860	1.420	1 5/16
TX-16-FE	1	1 5/16-12	1-11 1/2	.844	.844	2.170	1.630	1 5/8
TX-20-FE	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.078	2.330	1.700	1 7/8
TX-20-FE	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.312	2.890	2.080	2 1/2

TX-ME-45

Male Elbow-45 • Flare Tube End/Male Pipe End

2503
MS51508
SAE 070302

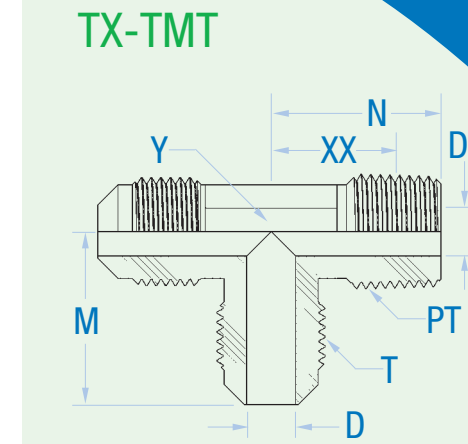
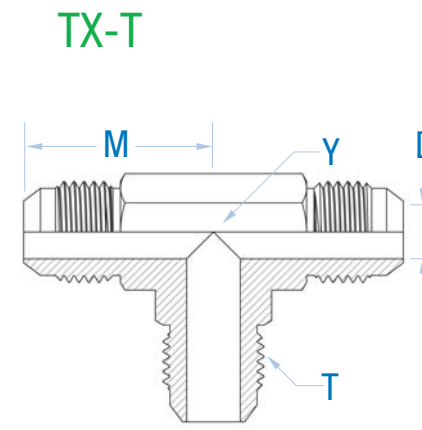
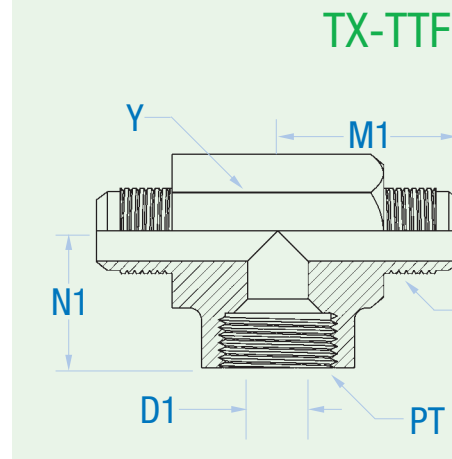
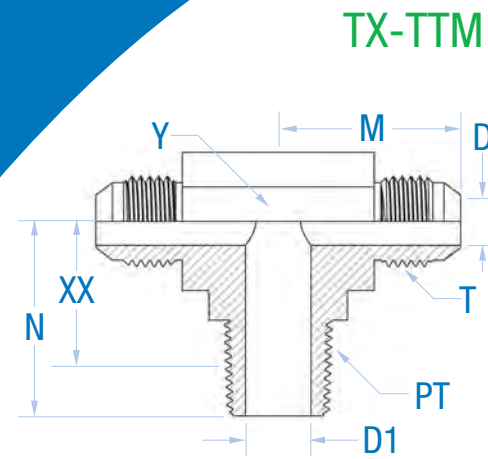
Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	M2	N2	TE	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-2-ME-45	1/8	5/16-24	1/8-27	.062	.188	.690	.530	.240	7/16	5000
TX-3-ME-45	3/16	3/8-24	1/8-27	.125	.188	.690	.530	.240	7/16	5000
TX-4-ME-45	1/4	7/16-20	1/8-27	.172	.188	.720	.640	.240	7/16	5000
TX-4-4-ME-45	1/4	7/16-20	1/4-18	.172	.281	.820	.860	.340	9/16	5000
TX-5-ME-45	5/16	1/2-20	1/8-27	.234	.188	.770	.640	.240	9/16	5000
TX-5-4-ME-45	5/16	1/2-20	1/4-18	.234	.281	.820	.860	.340	9/16	5000
TX-6-ME-45	3/8	9/16-18	1/4-18	.297	.281	.830	.860	.340	9/16	5000
TX-6-2-ME-45	3/8	9/16-18	1/8-27	.297	.188	.830	.670	.240	9/16	5000
TX-6-6-ME-45	3/8	9/16-18	3/8-18	.297	.406	.870	.950	.350	3/4	5000
TX-6-8-ME-45	3/8	9/16-18	1/2-14	.297	.531	1.060	1.170	.460	7/8	5000
TX-8-ME-45	1/2	3/4-16	3/8-18	.391	.406	.980	.950	.350	3/4	5000
TX-8-4-ME-45	1/2	3/4-16	1/4-18	.391	.281	.980	.950	.340	3/4	5000
TX-8-8-ME-45	1/2	3/4-16	1/2-14	.391	.531	.990	1.170	.460	7/8	5000
TX-8-12-ME-45	1/2	3/4-16	3/4-14	.391	.719	1.040	1.200	.480	1 1/16	4000
TX-10-ME-45	5/8	7/8-14	1/2-14	.484	.531	1.110	1.170	.460	7/8	5000
TX-10-6-ME-45	5/8	7/8-14	3/8-18	.484	.406	1.110	.980	.350	7/8	5000
TX-10-12-ME-45	5/8	7/8-14	3/4-14	.484	.719	1.280	1.200	.480	1 1/16	4000
TX-12-ME-45	3/4	1 1/16-12	3/4-14	.609	.719	1.280	1.200	.480	1 1/16	4000
TX-12-8-ME-45	3/4	1 1/16-12	1/2-14	.609	.531	1.280	1.200	.460	1 1/16	4500
TX-12-16-ME-45	3/4	1 1/16-12	1-11 1/2	.609	.938	1.420	1.480	.570	1 5/16	3000
TX-14-ME-45	7/8	1 3/16-12	3/4-14	.718	.719	1.390	1.270	.480	1 5/16	3500
TX-16-ME-45	1	1 5/16-12	1-11 1/2	.844	.938	1.470	1.480	.570	1 5/16	3000
TX-16-12-ME-45	1	1 5/16-12	3/4-14	.844	.719	1.470	1.290	.480	1 5/16	3500
TX-20-ME-45	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.250	1.590	1.670	.590	1 5/8	2500
TX-24-ME-45	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.500	1.780	1.770	.590	1 7/8	2000
TX-32-ME-45	2	2 1/2-12	2-11 1/2	1.781	1.938	2.220	2.110	.610	2 1/2	1500

TX-E-45

Union Elbow-45 • Male Flare End/Male Flare End

2504
SAE 071502

Part #	Tube O.D.	T Tube End UN/UNF-2A	D	M2	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-3-E-45	3/16	3/8-24	.125	.69	7/16	5000
TX-4-E-45	1/4	7/16-20	.172	.72	7/16	5000
TX-6-E-45	3/8	9/16-18	.297	.83	9/16	5000
TX-8-E-45	1/2	3/4-16	.391	.98	3/4	5000
TX-10-E-45	5/8	7/8-14	.484	1.11	7/8	5000
TX-12-E-45	3/4	1 1/16-12	.609	1.28	1 3/16	4500
TX-16-E-45	1	1 5/16-12	.844	1.47	1 5/16	3500



TX-TTM

2601
MS51512
SAE 070425

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	M	N	XX After Assembly	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-3-TTM	3/16	3/8-24	1/8-27	.125	.188	.830	.720	.480	7/16	5000
TX-4-TTM	1/4	7/16-20	1/8-27	.172	.188	.890	.780	.540	7/16	5000
TX-4-4-4-TTM	1/4	7/16-20	1/4-18	.172	.281	1.050	1.090	.750	9/16	5000
TX-5-TTM	5/16	1/2-20	1/8-27	.234	.188	.970	.810	.570	9/16	5000
TX-6-TTM	3/8	9/16-18	1/4-18	.297	.281	1.060	1.090	.750	9/16	5000
TX-6-6-6-TTM	3/8	9/16-18	3/8-18	.297	.406	1.140	1.220	.870	3/4	5000
TX-8-TTM	1/2	3/4-16	3/8-18	.391	.406	1.250	1.220	.870	3/4	5000
TX-8-8-8-TTM	1/2	3/4-16	1/2-14	.391	.531	1.340	1.470	1.010	7/8	5000
TX-10-TTM	5/8	7/8-14	1/2-14	.484	.531	1.450	1.470	1.010	7/8	5000
TX-12-TTM	3/4	1 1/16-12	3/4-14	.609	.719	1.660	1.590	1.110	1 1/16	4000
TX-14-TTM	7/8	1 3/16-12	3/4-14	.718	.719	1.800	1.690	1.210	1 5/16	3500
TX-16-TTM	1	1 5/16-12	1-11 1/2	.844	.938	1.810	1.970	1.400	1 5/16	3000
TX-20-TTM	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.250	2.060	2.380	1.790	1 5/8	2500

M10* - CENTER TO BASE OF FLARE SEAT

TX-TTF

2602
MS51513
SAE 070427

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT PORT THD NPTF	D Drill	Ref D1 Drill	M1	N1	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-TTF	1/4	7/16-20	1/8-27	.172	.328	1.080	.660	9/16	5000
TX-4-4-4-TTF	1/4	7/16-20	1/4-18	.172	.422	1.220	.880	3/4	5000
TX-5-TTF	5/16	1/2-20	1/8-27	.234	.328	1.080	.660	9/16	5000
TX-6-TTF	3/8	9/16-18	1/4-18	.297	.422	1.230	.880	3/4	5000
TX-8-TTF	1/2	3/4-16	3/8-18	.391	.563	1.420	1.020	7/8	3000
TX-10-TTF	5/8	7/8-14	1/2-14	.484	.688	1.640	1.230	1 1/16	3000
TX-12-TTF	3/4	1 1/16-12	3/4-14	.609	.891	1.890	1.360	1 5/16	3000
TX-14-TTF	7/8	1 3/16-12	3/4-14	.718	.891	1.860	1.420	1 5/16	3000
TX-16-TTF	1	1 5/16-12	1-11 1/2	.844	1.125	2.170	1.630	1 5/8	1750
TX-20-TTF	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.469	2.330	1.700	1 7/8	1500
TX-24-TTF	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.703	2.890	2.080	2 1/2	1500

Female Branch Tee • Flare Tube End/Female Pipe End

TX-T

Union Tee • Flare Tube End (all three ends)

Tube Fitting Part #	Tube O.D.	T Port Thread UN/UNF-2A	D Drill	M	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-2-T	1/8	5/16-24	.062	.78	7/16	7700
TX-3-T	3/16	3/8-24	.125	.83	7/16	7700
TX-4-T	1/4	7/16-20	.172	.89	7/16	7700
TX-5-T	5/16	1/2-20	.234	.95	9/16	6000
TX-6-T	3/8	9/16-18	.297	1.06	9/16	6000
TX-8-T	1/2	3/4-16	.391	1.25	3/4	6000
TX-10-T	5/8	7/8-14	.484	1.45	7/8	5000
TX-12-T	3/4	1 1/16-12	.609	1.66	1 1/16	5000
TX-14-T	7/8	1 3/16-12	.718	1.73	1 5/16	3500
TX-16-T	1	1 5/16-12	.844	1.81	1 5/16	3500
TX-20-T	1 1/4	1 5/8-12	1.078	2.06	1 5/8	3000
TX-24-T	1 1/2	1 7/8-12	1.312	2.33	1 7/8	2000

TX-T

2603
MS51510
SAE 070401

TX-TMT

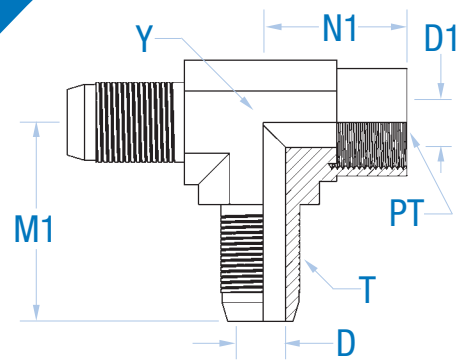
Male Run Tee • Flare Tube End/Male Pipe End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	M	N	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-3-TMT	3/16	3/8-24	1/8-27	.125	.188	.830	.720	.480	7/16	5000
TX-4-TMT	1/4	7/16-20	1/8-27	.172	.188	.890	.780	.540	7/16	5000
TX-4-4-4-TMT	1/4	7/16-20	1/4-18	.172	.281	1.050	1.090	.750	9/16	5000
TX-5-TMT	5/16	1/2-20	1/8-27	.234	.188	.970	.810	.570	9/16	5000
TX-6-TMT	3/8	9/16-18	1/4-18	.297	.281	1.060	1.090	.750	9/16	5000
TX-6-6-6-TMT	3/8	9/16-18	3/8-18	.297	.406	1.140	1.220	.870	3/4	5000
TX-8-TMT	1/2	3/4-16	3/8-18	.391	.406	1.250	1.220	.870	3/4	5000
TX-8-8-8-TMT	1/2	3/4-16	1/2-14	.391	.531	1.340	1.470	1.010	7/8	5000
TX-10-TMT	5/8	7/8-14	1/2-14	.484	.531	1.450	1.470	1.010	7/8	5000
TX-12-TMT	3/4	1 1/16-12	3/4-14	.609	.719	1.660	1.590	1.110	1 1/16	4000
TX-14-TMT	7/8	1 3/16-12	3/4-14	.718	.719	1.800	1.690	1.210	1 5/16	3500
TX-16-TMT	1	1 5/16-12	1-11 1/2	.844	.938	1.810	1.970	1.400	1 5/16	3000
TX-20-TMT	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.250	2.060	2.380	1.790	1 5/8	2500
TX-24-TMT	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.500	2.330	2.640	2.050	1 7/8	2000

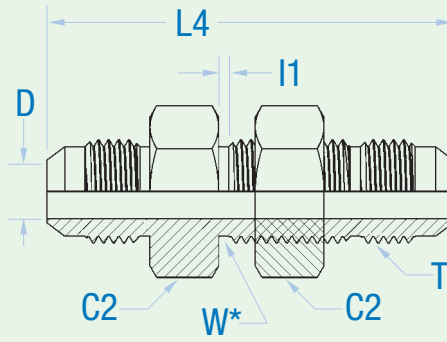
*D1 DRILL MAY BE PRESENT DUE TO MANUFACTURING OPTION PER SAE J514

2605
MS51511
SAE 070424

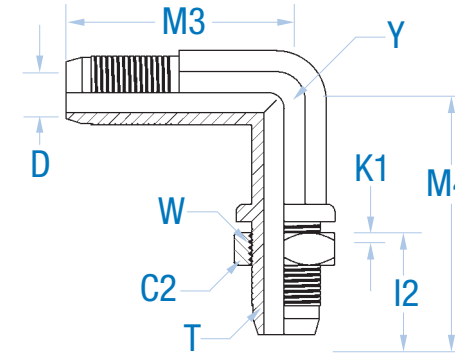
TX-TFT



TX-BU



TX-BE



TX-TFT

Female Run Tee • Flare Tube End/Female Tube End

2606
MS51514
SAE 070425

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT PORT THD NPTF	D Drill	Ref D1 Drill	M1	N1	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-TFT	1/4	7/16-20	1/8-27	.172	.328	1.080	.660	9/16	5000
TX-4-4-4-TFT	1/4	7/16-20	1/4-18	.172	.422	1.220	.880	3/4	5000
TX-6-TFT	3/8	9/16-18	1/4-18	.297	.422	1.230	.880	3/4	5000
TX-8-TFT	1/2	3/4-16	3/8-18	.391	.563	1.420	1.020	7/8	3000
TX-10-TFT	5/8	7/8-14	1/2-14	.484	.688	1.640	1.230	1 1/16	3000
TX-12-TFT	3/4	1 1/16-12	3/4-14	.609	.891	1.890	1.360	1 5/16	3000
TX-14-TFT	7/8	1 3/16-12	3/4-14	.718	.891	1.860	1.420	1 5/16	3000
TX-16-TFT	1	1 5/16-12	1-11 1/2	.844	1.125	2.170	1.630	1 5/8	1750
TX-20-TFT	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	1.469	2.330	1.700	1 7/8	1500
TX-24-TFT	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.703	2.890	2.080	2 1/2	1500

Bulkhead Union Elbow • Flare Tube End/Flare Tube End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	C2 Hex	D Drill	I2	K1	M3	M4	W DIA.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-BE	1/4	7/16-20	11/16	.172	1.020	.090	.970	1.590	.440	7/16	5000
TX-5-BE	5/16	1/2-20	3/4	.234	1.020	.090	1.060	1.720	.500	9/16	5000
TX-6-BE	3/8	9/16-18	13/16	.297	1.090	.090	1.090	1.810	.560	9/16	5000
TX-8-BE	1/2	3/4-16	1	.391	1.250	.130	1.360	2.110	.750	3/4	5000
TX-10-BE	5/8	7/8-14	1 1/8	.484	1.390	.130	1.560	2.390	.880	7/8	5000
TX-12-BE	3/4	1 1/16-12	1 3/8	.609	1.560	.130	1.780	2.670	1.060	1 1/16	4500
TX-14-BE	7/8	1 3/16-12	1 1/2	.718	1.560	.130	1.920	2.800	1.190	1 5/8	3500
TX-16-BE	1	1 5/16-12	1 5/8	.844	1.560	.130	1.940	2.800	1.310	1 5/8	3500
TX-20-BE	1 1/4	1 5/8-12	1 7/8	1.078	1.610	.130	2.170	3.130	1.630	1 5/8	3000

2701
SAE 070701

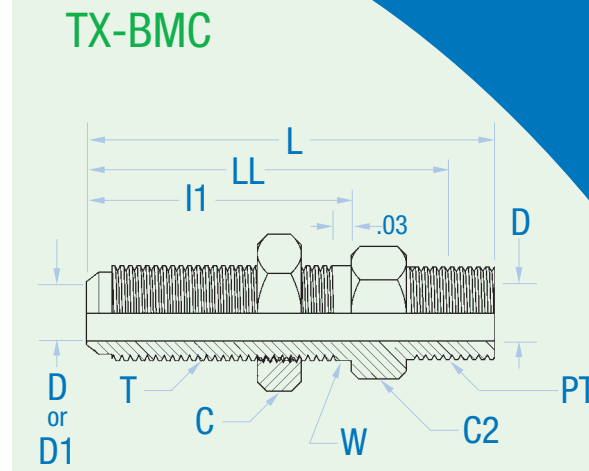
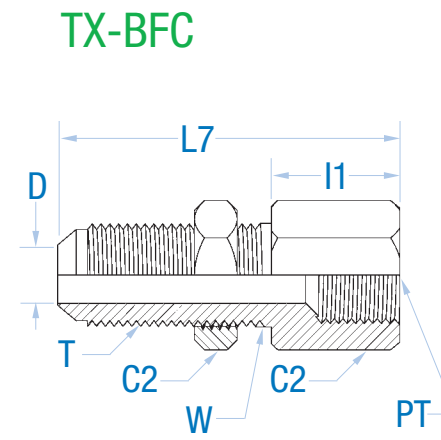
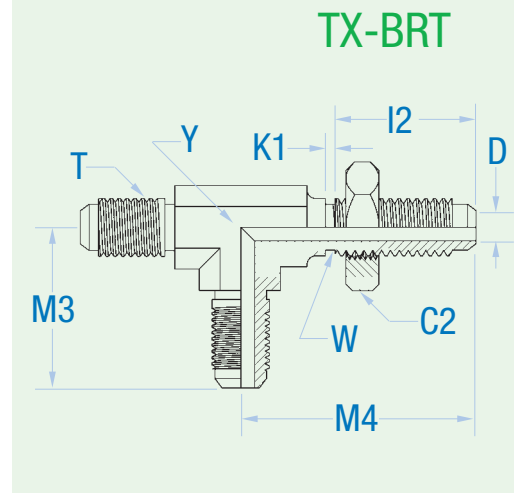
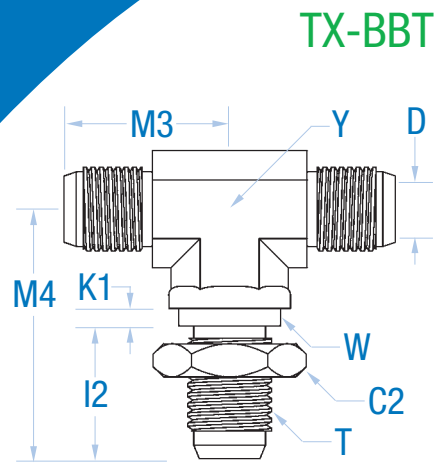
TX-BU

Bulkhead Union • Flare Tube End/Flare Tube End

2700
MS51520
SAE 070601

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	C2 Hex	D Drill	I1	L4	W DIA.	Dynamic Pressure Rtg.
TX-3-BU	3/16	3/8-24	5/8	.125	1.11	1.91	.380	7700
TX-4-BU	1/4	7/16-20	11/16	.172	1.200	2.070	.440	7700
TX-5-BU	5/16	1/2-20	3/4	.234	1.200	2.080	.500	7700
TX-6-BU	3/8	9/16-18	13/16	.297	1.280	2.190	.560	7700
TX-8-BU	1/2	3/4-16	1	.391	1.440	2.440	.750	7700
TX-10-BU	5/8	7/8-14	1 1/8	.484	1.580	2.750	.880	6000
TX-12-BU	3/4	1 1/16-12	1 3/8	.609	1.750	3.090	1.060	6000
TX-14-BU	7/8	1 3/16-12	1 1/2	.718	1.750	3.130	1.190	4800
TX-16-BU	1	1 5/16-12	1 5/8	.844	1.750	3.140	1.310	4800
TX-20-BU	1 1/4	1 5/8-12	1 7/8	1.078	1.800	3.310	1.630	3600
TX-24-BU	1 1/2	1 7/8-12	2 1/8	1.312	1.810	3.520	1.880	2400

W* - BULKHEAD PILOT DIAMETER RECOMMENDED CLEARANCE HOLE +.015" OVER "W" DIAMETER



TX-BBT

Bulkhead Branch Tee • Flare Tube End (all three ends)

2703
SAE 070959

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	C2 Hex	D Drill	I2	K1	M3	M4	W DIA.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-BBT	1/4	7/16-20	11/16	.172	1.020	.090	.970	1.590	.440	7/16	5000
TX-6-BBT	3/8	9/16-18	13/16	.297	1.090	.090	1.090	1.810	.560	9/16	5000
TX-8-BBT	1/2	3/4-16	1	.391	1.250	.130	1.360	2.110	.750	3/4	5000
TX-10-BBT	5/8	7/8-14	1 1/8	.484	1.390	.130	1.560	2.390	.880	7/8	5000
TX-12-BBT	3/4	1 1/16-12	1 3/8	.609	1.560	.130	1.780	2.670	1.060	1 1/16	4500
TX-16-BBT	1	1 5/16-12	1 5/8	.844	1.560	.130	1.940	2.800	1.310	1 7/16	3500
TX-20-BBT	1 1/4	1 5/8-12	1 7/8	1.078	1.610	.130	2.170	3.120	1.630	1 5/8	3000

W* - BULKHEAD PILOT DIA. RECOMMENDED CLEARANCE HOLE +.015 OVER W DIA.

TX-BRT

Bulkhead Run Tee • Flare Tube End (all three ends)

2704
SAE 070958

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	C2 Hex	D Drill	I2	K1	M3	M4	W DIA.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-BRT	1/4	7/16-20	11/16	.172	1.020	.090	.970	1.590	.440	7/16	5000
TX-6-BRT	3/8	9/16-18	13/16	.297	1.090	.090	1.090	1.810	.560	9/16	5000
TX-8-BRT	1/2	3/4-16	1	.391	1.250	.130	1.360	2.110	.750	3/4	5000
TX-10-BRT	5/8	7/8-14	1 1/8	.484	1.390	.130	1.560	2.390	.880	7/8	5000
TX-12-BRT	3/4	1 1/16-12	1 3/8	.609	1.560	.130	1.780	2.670	1.060	1 1/16	4500

W* - BULKHEAD PILOT DIA. RECOMMENDED CLEARANCE HOLE +.015 OVER W DIA.

TX-BFC

Female Bulkhead Connector • Flare Tube End/Female Pipe End

2705

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT PORT THD NPTF	C2 Hex	D Drill	I1	L7	W Dia.	Dynamic Pressure Rtg
TX-4-BFC	1/4	7/16-20	1/8-27	11/16	.172	1.20	1.84	.44	6000
TX-4-4-BFC	1/4	7/16-20	1/4-18	3/4	.172	1.33	2.16	.44	6000
TX-6-BFC	3/8	9/16-18	1/4-18	13/16	.297	1.28	2.06	.56	6000
TX-8-BFC	1/2	3/4-16	3/8-18	1	.391	1.44	2.34	.75	6000
TX-10-BFC	5/8	7/8-14	1/2-14	1 1/8	.484	1.58	2.66	.88	6000
TX-12-BFC	3/4	1 1/16-12	3/4-14	1 3/8	.609	1.75	2.91	1.06	4800
TX-14-BFC	7/8	1 3/16-12	3/4-14	1 1/2	.718	1.75	2.89	1.19	4200
TX-16-BFC	1	1 5/16-12	1-11 1/2	1 5/8	.844	1.75	3.09	1.31	3600

W* - BULKHEAD PILOT DIA. RECOMMENDED CLEARANCE HOLE +.015 OVER W DIA.

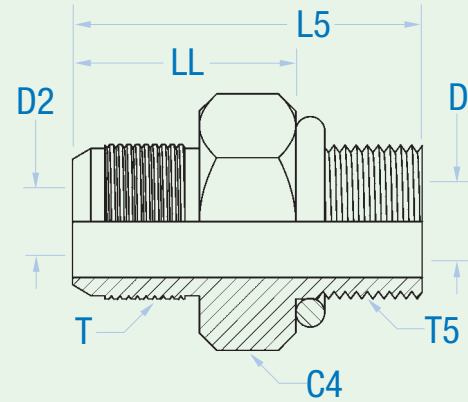
TX-BMC

Male Bulkhead Connector • Flare Tube End/Male Pipe End

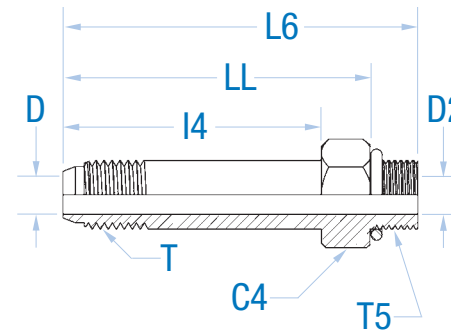
2706

Tube Fitting Part #	PT Port Thd. NPTF	T Port Thd. UN/UNF-2A	D Drill	D1 Drill	L	LL After Assy.	I1	C Hex	C2 Hex	W	Dynamic Pressure Rtg
TX-4-4-BMC	1/4-18	7/16-20	.172	.281	2.070	1.840	1.200	1/2	11/16	.44	6000
TX-6-BMC	1/4-18	9/16-18	.297	.281	2.150	1.810	1.280	13/16	13/16	.56	6000
TX-8-BMC	3/8-18	3/4-16	.391	.406	2.310	1.960	1.440	1	1	.75	6000
TX-8-8-BMC	1/2-14	3/4-16	.391	.531	2.560	2.100	1.440	1	1	.75	6000
TX-10-BMC	1/2-14	7/8-14	.484	.531	2.710	2.250	1.580	1 1/8	1 1/8	.88	6000
TX-12-BMC	3/4-14	1 1/16-12	.609	.719	2.950	2.470	1.750	1 1/8	1 3/8	1.06	4800
TX-16-BMC	1-11 1/2	1 5/16-12	.844	.938	3.140	2.570	1.750	1 5/8	1 5/8	1.31	3600

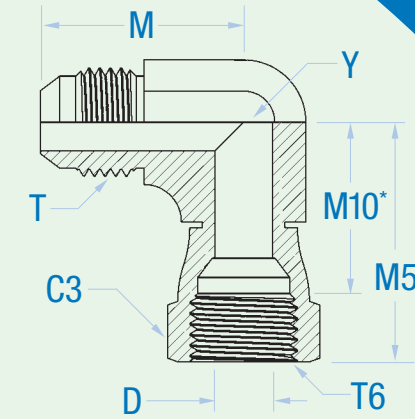
TX-GC



TX-LGC



TX-SE



TX-GC

Straight Thread Connector • Flare Tube End/Straight Thread O-Ring

6400-0
MS51525
SAE 070120

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	L5	LL After Assy.	Dynamic Pressure Rtg
TX-2-GC	1/8	5/16-24	5/16-24	7/16	.062	.062	1.060	.760	7700
TX-3-GC	3/16	3/8-24	3/8-24	1/2	.125	.125	1.100	.800	7700
TX-4-GC	1/4	7/16-20	7/16-20	9/16	.172	.172	1.230	.870	7700
TX-4-5-GC	1/4	7/16-20	1/2-20	5/8	.172	.172	1.230	.870	7700
TX-4-6-GC	1/4	7/16-20	9/16-18	11/16	.172	.172	1.280	.890	7700
TX-4-8-GC	1/4	7/16-20	3/4-16	7/8	.172	.391	1.380	.940	7700
TX-5-GC	5/16	1/2-20	1/2-20	5/8	.234	.234	1.230	.870	7700
TX-5-4-GC	5/16	1/2-20	7/16-20	9/16	.234	.172	1.230	.870	7700
TX-5-6-GC	5/16	1/2-20	9/16-18	11/16	.234	.234	1.300	.910	7700
TX-6-GC	3/8	9/16-18	9/16-18	11/16	.297	.297	1.300	.910	7700
TX-6-4-GC	3/8	9/16-18	7/16-20	5/8	.297	.172	1.270	.910	7700
TX-6-5-GC	3/8	9/16-18	1/2-20	5/8	.297	.234	1.270	.910	7700
TX-6-8-GC	3/8	9/16-18	3/4-16	7/8	.297	.297	1.380	.940	7700
TX-6-10-GC	3/8	9/16-18	7/8-14	1	.297	.297	1.500	1.000	6000
TX-8-GC	1/2	3/4-16	3/4-16	7/8	.391	.391	1.480	1.040	7700
TX-8-4-GC	1/2	3/4-16	7/16-20	13/16	.391	.172	1.500	1.140	7700
TX-8-6-GC	1/2	3/4-16	9/16-18	13/16	.391	.297	1.440	1.050	7700
TX-8-10-GC	1/2	3/4-16	7/8-14	1	.391	.391	1.590	1.090	6000
TX-8-12-GC	1/2	3/4-16	1 1/16-12	1 1/4	.391	.391	1.770	1.180	6000
TX-8-16-GC	1/2	3/4-16	1 5/16-12	1 1/2	.391	.391	1.780	1.190	5400
TX-10-GC	5/8	7/8-14	7/8-14	1	.484	.484	1.700	1.200	6000
TX-10-8-GC	5/8	7/8-14	3/4-16	15/16	.484	.391	1.640	1.170	6000
TX-10-12-GC	5/8	7/8-14	1 1/16-12	1 1/4	.484	.484	1.860	1.270	6000
TX-12-GC	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	.609	1.970	1.380	6000
TX-12-8-GC	3/4	1 1/16-12	3/4-16	1 1/8	.609	.391	1.940	1.500	6000
TX-12-10-GC	3/4	1 1/16-12	7/8-14	1 1/8	.609	.484	1.880	1.380	6000
TX-12-14-GC	3/4	1 1/16-12	1 3/16-12	1 3/8	.609	.609	1.970	1.370	5400
TX-12-16-GC	3/4	1 1/16-12	1 5/16-12	1 1/2	.609	.609	1.990	1.400	5400
TX-14-GC	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	.718	1.990	1.400	5400
TX-14-16-GC	7/8	1 3/16-12	1 5/16-12	1 1/2	.718	.718	2.020	1.430	5400
TX-16-GC	1	1 5/16-12	1 5/16-12	1 1/2	.844	.844	2.040	1.460	5400
TX-16-10-GC	1	1 5/16-12	7/8-14	1 3/8	.844	.484	2.080	1.570	5400
TX-16-12-GC	1	1 5/16-12	1 1/16-12	1 3/8	.844	.609	1.990	1.400	5400
TX-16-14-GC	1	1 5/16-12	1 3/16-12	1 3/8	.844	.718	2.050	1.460	5400
TX-16-20-GC	1	1 5/16-12	1 5/8-12	1 7/8	.844	.844	2.130	1.540	3600
TX-20-GC	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.078	1.078	2.170	1.580	3600
TX-20-16-GC	1 1/4	1 5/8-12	1 5/16-12	1 11/16	1.078	.844	2.330	1.740	3600
TX-20-24-GC	1 1/4	1 5/8-12	1 7/8-12	2 1/8	1.078	1.078	2.240	1.650	2400
TX-24-GC	1 1/2	1 7/8-12	1 7/8-12	2 1/8	1.312	1.312	2.370	1.790	2400
TX-24-20-GC	1 1/2	1 7/8-12	1 5/8-12	2	1.312	1.078	2.530	1.940	1800
TX-32-GC	2	2 1/2-12	2 1/2-12	2 3/4	1.781	1.781	2.780	2.190	1800
TX-32-24-GC	2	2 1/2-12	1 7/8-12	2 5/8	1.781	1.312	2.780	2.350	1800

TX-LGC

Long Straight Thread Connector • Flare Tube End/Straight Thread O-Ring

6400-L
MS51526
SAE 070120

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	I4	L6	LL After Assy.	Dynamic Pressure Rtg
TX-4-LGC	1/4	7/16-20	7/16-20	9/16	.172	.172	1.39	2.08	1.72	7700
TX-6-LGC	3/8	9/16-18	9/16-18	11/16	.297	.297	1.56	2.31	1.92	7700
TX-8-LGC	1/2	3/4-16	3/4-16	7/8	.391	.391	1.88	2.70	2.26	7700
TX-10-LGC	5/8	7/8-14	7/8-14	1	.484	.484	2.09	3.04	2.53	6000
TX-12-LGC	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	.609	2.50	3.61	3.02	6000
TX-16-LGC	1	1 5/16-12	1 5/16-12	1 1/2	.844	.844	2.84	3.98	3.39	5400
TX-20-LGC	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.078	1.078	3.47	4.69	4.10	3600

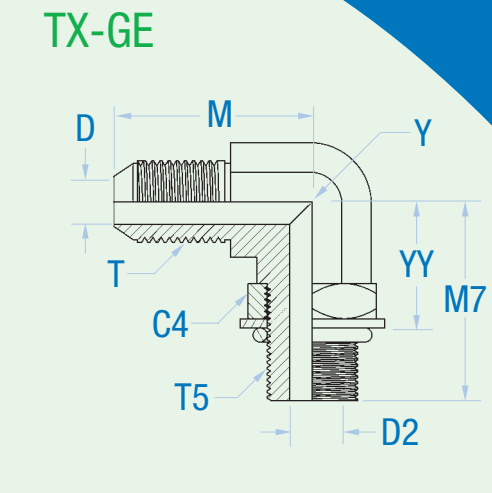
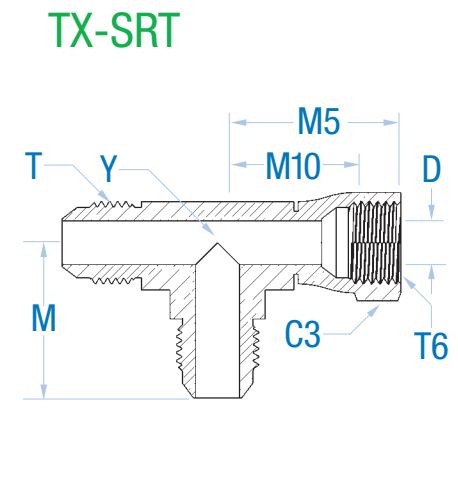
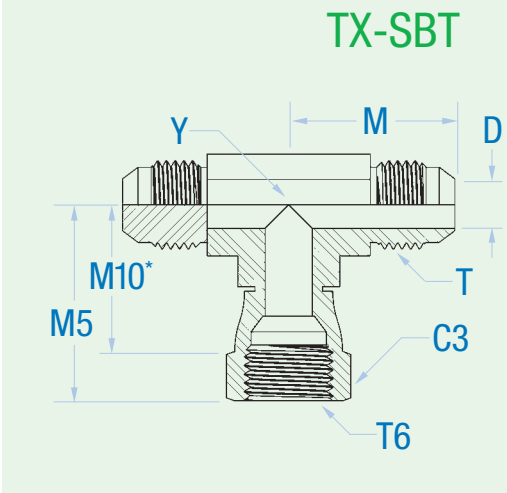
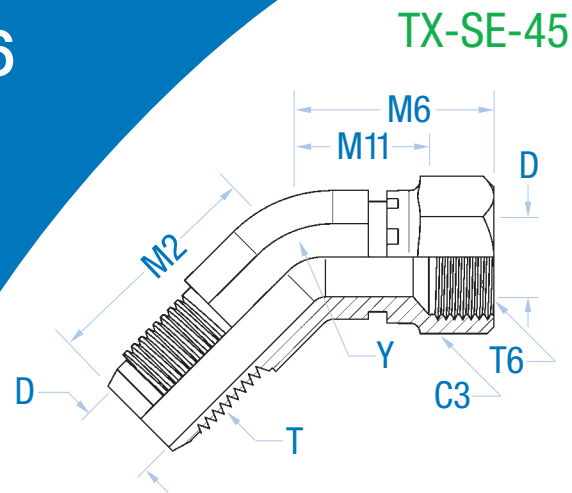
TX-SE

Swivel Nut Elbow • Flare Tube End/Swivel Nut End

6500
MS51521
SAE 070221

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T6 Swivel UN/UNF-2B	C3 Hex	D Drill	M	M5	M10	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-3-SE	3/16	3/8-24	3/8-24	1/2	.125	.830	1.00	.630	7/16	7700
TX-4-SE	1/4	7/16-20	7/16-20	9/16	.172	.890	1.030	.660	7/16	7700
TX-5-SE	5/16	1/2-20	1/2-20	5/8	.234	.970	1.130	.780	9/16	6000
TX-6-SE	3/8	9/16-18	9/16-18	11/16	.297	1.060	1.250	.880	9/16	6000
TX-8-SE	1/2	3/4-16	3/4-16	7/8	.391	1.250	1.380	.950	3/4	6000
TX-10-SE	5/8	7/8-14	7/8-14	1	.484	1.450	1.620	1.130	7/8	5000
TX-12-SE	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	1.660	1.750	1.190	1 1/16	5000
TX-14-SE	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	1.730	1.780	1.330	1 5/16	2500
TX-16-SE	1	1 5/16-12	1 5/16-12	1 1/2	.844	1.810	2.000	1.410	1 5/16	2500
TX-20-SE	1 1/4	1 5/8-12	1 5/8-12	2	1.078	2.060	2.310	1.690	1 5/8	2500
TX-24-SE	1 1/2	1 7/8-12	1 7/8-12	2 1/4	1.312	2.330	2.590	1.860	1 7/8	2000

M10* - CENTER TO BASE OF FLARE SEAT



TX-SE-45

Swivel Nut Elbow • Flare Tube End/Swivel Nut End

6502

MS51522
SAE 070321

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T6 Swivel UN/UNF-2B	C3 Hex	D Drill	M2	M6	M11	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-SE-45	1/4	7/16-20	7/16-20	9/16	.172	.720	.940	.590	7/16	7700
TX-5-SE-45	5/16	1/2-20	1/2-20	5/8	.234	.770	1.000	.630	9/16	6000
TX-6-SE-45	3/8	9/16-18	9/16-18	11/16	.297	.830	1.120	.750	9/16	6000
TX-8-SE-45	1/2	3/4-16	3/4-16	7/8	.391	.980	1.280	.860	3/4	6000
TX-10-SE-45	5/8	7/8-14	7/8-14	1	.484	1.110	1.440	.940	7/8	5000
TX-12-SE-45	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	1.280	1.500	.940	1 1/16	5000
TX-14-SE-45	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	1.390	1.620	1.090	1 3/16	2500
TX-16-SE-45	1	1 5/16-12	1 5/16-12	1 1/2	.844	1.470	1.750	1.160	1 5/16	2500
TX-20-SE-45	1 1/4	1 5/8-12	1 5/8-12	2	1.078	1.590	2.030	1.410	1 5/8	2500
TX-24-SE-45	1 1/2	1 7/8-12	1 7/8-12	2 1/4	1.312	1.780	2.250	1.560	1 7/8	2000

*M11 - CENTER TO BASE OF FLARE SEAT

TX-SBT

Swivel Nut Branch Tee • Flare Tube End/Swivel Nut End

6600

MS51524
SAE 070433

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T6 Swivel UN/UNF-2B	C3 Hex	D Drill	M	M5	M10	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-SBT	1/4	7/16-20	7/16-20	9/16	.172	.890	1.000	.660	7/16	7700
TX-5-SBT	5/16	1/2-20	1/2-20	5/8	.234	.950	1.060	.680	9/16	6000
TX-6-SBT	3/8	9/16-18	9/16-18	11/16	.297	1.060	1.250	.880	9/16	6000
TX-8-SBT	1/2	3/4-16	3/4-16	7/8	.391	1.250	1.380	.950	3/4	6000
TX-10-SBT	5/8	7/8-14	7/8-14	1	.484	1.450	1.620	1.130	7/8	5000
TX-12-SBT	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	1.660	1.750	1.190	1 1/16	5000
TX-14-SBT	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	1.800	1.780	1.330	1 5/16	2500
TX-16-SBT	1	1 5/16-12	1 5/16-12	1 1/2	.844	1.810	2.000	1.410	1 5/16	2500
TX-20-SBT	1 1/4	1 5/8-12	1 5/8-12	2	1.078	2.06	2.31	1.69	1 5/8	2500

M10* - CENTER TO BASE OF FLARE SEAT

TX-SRT

Swivel Nut Run Tee • Flare Tube End/Swivel Nut End

6602

SAE 070432

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T6 Swivel UN/UNF-2A	C3 Hex	D Drill	M	M5	M10	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-SRT	1/4	7/16-20	7/16-20	9/16	.172	.890	1.000	.660	7/16	7700
TX-5-SRT	5/16	1/2-20	1/2-20	5/8	.234	.950	1.060	.780	9/16	6000
TX-6-SRT	3/8	9/16-18	9/16-18	11/16	.297	1.060	1.250	.880	9/16	6000
TX-8-SRT	1/2	3/4-16	3/4-16	7/8	.391	1.250	1.380	.950	3/4	6000
TX-10-SRT	5/8	7/8-14	7/8-14	1	.484	1.450	1.620	1.130	7/8	5000
TX-12-SRT	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	1.660	1.750	1.190	1 1/16	5000
TX-14-SRT	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	1.800	1.780	1.330	1 5/16	2500
TX-16-SRT	1	1 5/16-12	1 5/16-12	1 1/2	.844	1.810	2.000	1.410	1 5/16	2500
TX-20-SRT	1 1/4	1 5/8-12	1 5/8-12	2	1.078	2.060	2.310	1.690	1 5/8	2500
TX-24-SRT	1 1/2	1 7/8-12	1 7/8-12	2 1/4	1.312	2.330	2.590	1.860	1 7/8	2000

M10* - CENTER TO BASE OF FLARE SEAT

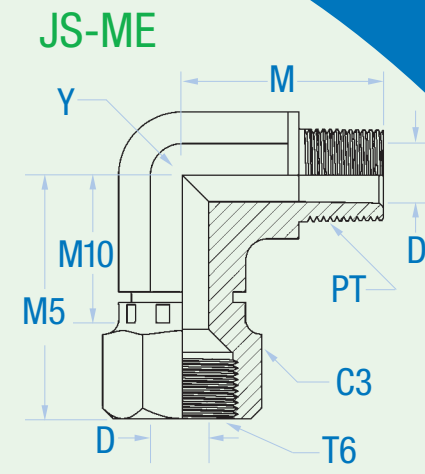
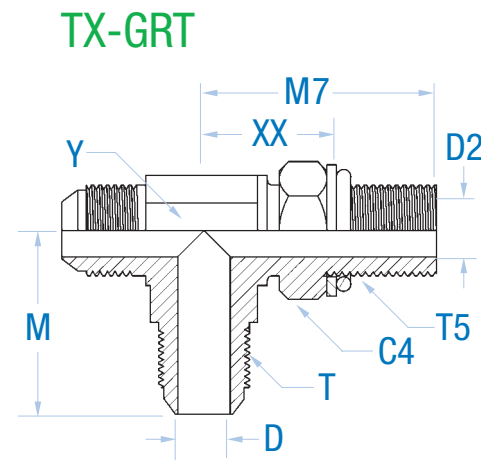
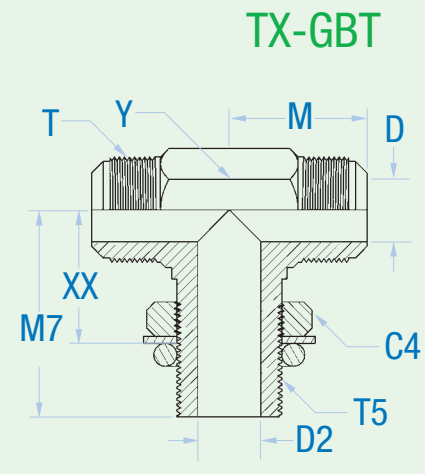
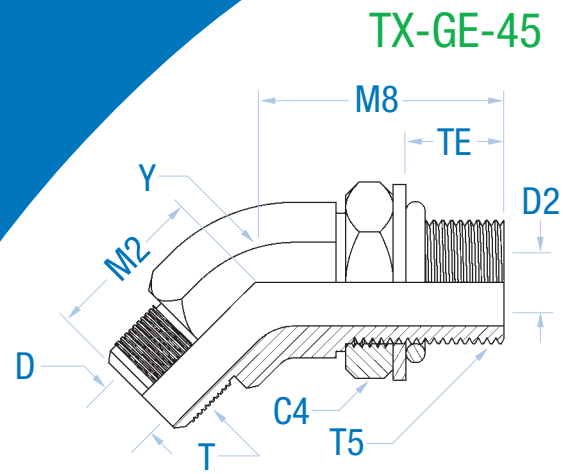
TX-GE

Straight Thread Elbow • Flare Tube End/Straight thread O-ring

6801

MS51527
SAE 070220

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	M	M7	YY After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-2-GE	1/8	5/16-24	5/16-24	7/16	.062	.062	.770	.940	.580	7/16	6000
TX-3-GE	3/16	3/8-24	3/8-24	1/2	.125	.125	.830	.940	.610	7/16	6000
TX-4-GE	1/4	7/16-20	7/16-20	9/16	.172	.172	.890	1.030	.640	7/16	6000
TX-4-6-GE	1/4	7/16-20	9/16-18	11/16	.172	.297	.050	1.250	.820	9/16	5400
TX-5-GE	5/16	1/2-20	1/2-20	5/8	.234	.234	.950	1.130	.700	9/16	5400
TX-5-4-GE	5/16	1/2-20	7/16-20	9/16	.234	.172	.950	1.130	.740	9/16	5400
TX-5-6-GE	5/16	1/2-20	9/16-18	11/16	.234	.297	.940	1.250	.790	9/16	5400
TX-6-GE	3/8	9/16-18	9/16-18	11/16	.297	.297	1.060	1.250	.820	9/16	5400
TX-6-4-GE	3/8	9/16-18	7/16-20	5/8	.297	.172	1.060	1.190	.800	9/16	5400
TX-6-5-GE	3/8	9/16-18	1/2-20	5/8	.297	.234	1.060	1.190	.720	9/16	5400
TX-6-8-GE	3/8	9/16-18	3/4-16	7/8	.297	.391	1.140	1.450	.960	3/4	5400
TX-6-10-GE	3/8	9/16-18	7/8-14	1	.297	.484	1.230	1.700	1.240	7/8	5400
TX-8-GE	1/2	3/4-16	3/4-16	7/8	.391	.391	1.250	1.450	.960	3/4	5400
TX-8-6-GE	1/2	3/4-16	9/16-18	13/16	.391	.297	1.250	1.360	.890	3/4	5400
TX-8-10-GE	1/2	3/4-16	7/8-14	1	.391	.484	1.340	1.700	1.140	7/8	5400
TX-8-12-GE	1/2	3/4-16	1 1/16-12	1 1/4	.391	.609	1.420	1.940	1.470	1 1/16	5400
TX-10-GE	5/8	7/8-14	7/8-14	1	.484	.484	1.450	1.700	1.140	7/8	5400
TX-10-8-GE	5/8	7/8-14	3/4-16	15/16	.484	.391	1.450	1.550	1.060	7/8	5400
TX-10-12-GE	5/8	7/8-14	1 1/16-12	1 1/4	.484	.609	1.530	1.940	1.790	1 1/16	5400
TX-12-GE	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	.609	1.660	1.940	1.290	1 1/16	5400
TX-12-8-GE	3/4	1 1/16-12	3/4-16	1 1/8	.609	.391	1.660	1.630	1.160	1 1/16	5400
TX-12-10-GE	3/4	1 1/16-12	7/8-14	1 1/8	.609	.484	1.660	1.780	1.220	1 1/16	5400
TX-12-16-GE	3/4	1 1/16-12	1 5/16-12	1 1/2	.609	.844	1.810	2.050	1.400	1 5/16	3000
TX-14-GE	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	.718	1.800	2.000	1.350	1 5/16	3000
TX-16-GE	1	1 5/16-12	1 5/16-12	1 1/2	.844	.844	1.810	2.050	1.400	1 5/16	3000
TX-16-12-GE	1	1 5/16-12	1 1/16-12	1 3/8	.844	.609	1.810	2.050	1.400	1 5/16	3000
TX-20-GE	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.078	1.078	2.060	2.250	1.600	1 5/8	2500
TX-20-16-GE	1 1/4	1 5/8-12	1 5/16-12	1 1/2	1.078	.844	2.060	2.250	1.600	1 5/8	2500
TX-24-GE	1 1/2	1 7/8-12	1 7/8-12	2 1/8	1.312	1.312	2.330	2.390	1.740	1 7/8	2000
TX-24-20-GE	1 1/2	1 7/8-12	1 5/8-12	1 7/8	1.312	1.078	2.330	2.390	1.740	1 7/8	2000
TX-32-GE	2	2 1/2-12	2 1/2-12	2 3/4	1.781	1.781	3.060	2.890	2.300	2 1/2	1500



TX-GE-45

Straight Thread Elbow-45 • Flare Tube End/Straight Thread O-ring

6802

MS51528
SAE 070320

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	M2	M8	TE	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-GE-45	1/4	7/16-20	7/16-20	9/16	.172	.172	.720	1.050	.390	7/16	6000
TX-5-GE-45	5/16	1/2-20	1/2-20	5/8	.234	.234	.770	1.050	.390	9/16	5400
TX-6-GE-45	3/8	9/16-18	9/16-18	11/16	.297	.297	.830	1.140	.430	9/16	5400
TX-6-8-GE-45	3/8	9/16-18	3/4-16	7/8	.297	.391	.860	1.300	.490	3/4	5400
TX-8-GE-45	1/2	3/4-16	3/4-16	7/8	.391	.391	.980	1.300	.490	3/4	5400
TX-8-10-GE-45	1/2	3/4-16	7/8-14	1	.391	.484	1.000	1.520	.560	7/8	5400
TX-10-GE-45	5/8	7/8-14	7/8-14	1	.484	.484	1.110	1.520	.560	7/8	5400
TX-12-GE-45	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	.609	1.280	1.730	.650	1 1/16	5400
TX-12-10-GE-45	3/4	1 1/16-12	7/8-14	1	.609	.484	1.280	1.580	.560	1 1/16	5400
TX-14-GE-45	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	.718	1.450	1.860	.650	1 5/16	3000
TX-16-GE-45	1	1 5/16-12	1 5/16-12	1 1/2	.844	.844	1.470	1.860	.650	1 5/16	3000
TX-20-GE-45	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.078	1.078	1.590	1.910	.650	1 5/8	2500
TX-24-GE-45	1 1/2	1 7/8-12	1 7/8-12	2 1/8	1.312	1.312	1.780	1.910	.650	1 7/8	2000

TX-GRT

Straight Thread Run Tee • Flare Tube End/Straight Thread O-ring

6804

MS51530
SAE 070428

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	M	M7	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-GRT	1/4	7/16-20	7/16-20	9/16	.172	.172	.890	1.030	7/16	.640	6000
TX-5-GRT	5/16	1/2-20	1/2-20	5/8	.234	.234	.970	1.130	9/16	.700	5400
TX-6-GRT	3/8	9/16-18	9/16-18	11/16	.297	.297	1.060	1.250	9/16	.820	5400
TX-8-GRT	1/2	3/4-16	3/4-16	7/8	.391	.391	1.250	1.450	3/4	.960	5400
TX-10-GRT	5/8	7/8-14	7/8-14	1	.484	.484	1.450	1.700	7/8	1.140	5400
TX-12-GRT	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	.609	1.660	1.940	1 1/16	1.290	5400
TX-14-GRT	7/8	1 3/16-12	1 3/16-12	1 3/8	.718	.718	1.730	2.000	1 5/16	1.350	3000
TX-16-GRT	1	1 5/16-12	1 5/16-12	1 1/2	.844	.844	1.810	2.050	1 5/16	1.400	3000
TX-20-GRT	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.078	1.078	2.060	2.250	1 5/8	1.600	2500
TX-24-GRT	1 1/2	1 7/8-12	1 7/8-12	2 1/8	1.312	1.312	2.330	2.390	1 7/8	1.740	2000

TX-GBT

Straight Thread Branch Tee • Flare Tube End/Straight Thread O-ring

6803

MS51529
SAE 070429

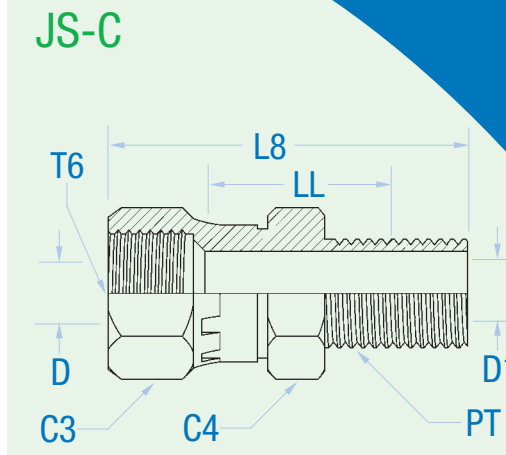
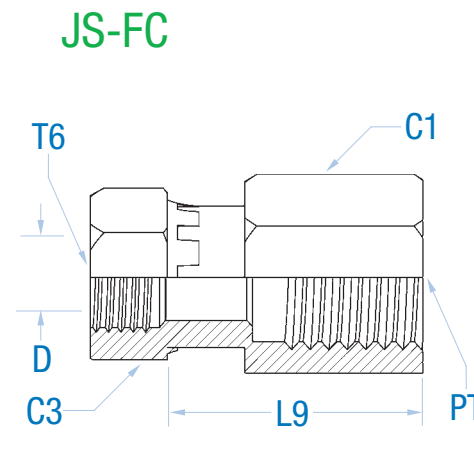
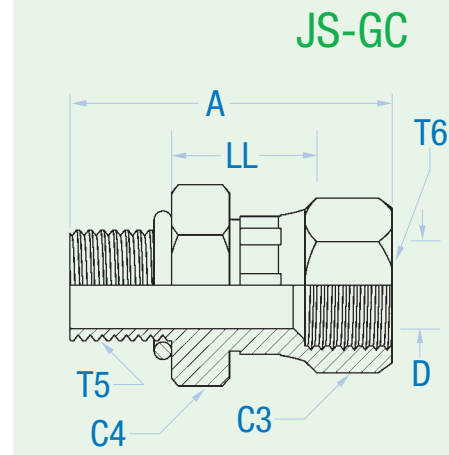
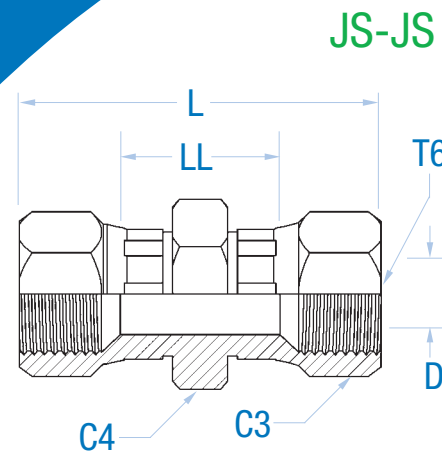
Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	M	M7	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
TX-4-GBT	1/4	7/16-20	7/16-20	9/16	.172	.172	.890	1.030	.640	7/16	6000
TX-5-GBT	5/16	1/2-20	1/2-20	5/8	.234	.234	.970	1.130	.700	9/16	5400
TX-6-GBT	3/8	9/16-18	9/16-18	11/16	.297	.297	1.060	1.250	.820	9/16	5400
TX-8-GBT	1/2	3/4-16	3/4-16	7/8	.391	.391	1.250	1.450	.960	3/4	5400
TX-10-GBT	5/8	7/8-14	7/8-14	1	.484	.484	1.450	1.700	1.140	7/8	5400
TX-12-GBT	3/4	1 1/16-12	1 1/16-12	1 1/4	.609	.609	1.660	1.940	1.290	1 1/16	5400
TX-16-GBT	1	1 5/16-12	1 5/16-12	1 1/2	.844	.844	1.810	2.050	1.400	1 5/16	3000

JS-ME

Elbow 90 JIC Swivel/Male

6501

Tube Fitting Part #	PT Port THD NPTF	T6 UN/UNF-2B	C3 Hex	D Drill	M	M5	M10	Y Across Wrench Flats	Dynamic Pressure Rtg
JS-4-ME	1/8-27	7/16-20	9/16	.172	.78	1.01	.66	7/16	7700
JS-4-4-ME	1/4-18	7/16-20	9/16	.172	1.09	1.13	.78	9/16	7700
JS-6-ME	1/4-18	9/16-18	11/16	.297	1.09	1.27	.88	9/16	6000
JS-6-6-ME	3/8-18	9/16-20	11/16	.297	1.22	1.27	.88	3/4	6000
JS-8-ME	3/8-18	3/4-16	7/8	.391	1.22	1.34	.95	3/4	6000
JS-8-8-ME	1/2-14	3/4-16	7/8	.391	1.47	1.48	1.09	7/8	6000
JS-10-ME	1/2-14	7/8-14	1	.484	1.47	1.62	1.11	7/8	5000
JS-12-ME	3/4-14	1 1/16-12	1 1/4	.609	1.59	1.75	1.18	1 1/16	5000
JS-16-ME	1-11	1 5/16-12	1 1/2	.844	1.97	2.01	1.41	1 5/16	2500



JS-JS

Swivel Nut Union

6565

Part #	Tube O.D.	T6	C3 Hex	C4 Hex	D	L	LL	Dynamic Pressure Rtg.
JS-4-JS	1/4	7/16-20	9/16	9/16	.172	1.48	.80	6000
JS-6-JS	3/8	9/16-18	11/16	11/16	.297	1.75	1.01	6000
JS-8-JS	1/2	3/4-16	7/8	7/8	.391	2.02	1.16	6000
JS-10-JS	5/8	7/8-14	1	1	.484	2.24	1.26	4800
JS-12-JS	3/4	1 1/16-12	1 1/4	1 1/4	.609	2.43	1.31	4200
JS-16-JS	1	1 5/16-12	1 1/2	1 1/2	.844	2.68	1.50	3000

JS-FC

Swivel Female Connector • Swivel Nut End/Female Pipe End

6506

Part #	Tube O.D.	T6	PT NPTF	C1 Hex	C3 Hex	D	L9	Dynamic Pressure Rtg.
JS-4-FC	1/4	7/16-20	1/8-27	9/16	9/16	.172	.92	6000
JS-4-4-FC	1/4	7/16-20	1/4-18	3/4	9/16	.172	1.08	6000
JS-6-FC	3/8	9/16-18	1/4-18	3/4	11/16	.297	1.06	6000
JS-6-6-FC	3/8	9/16-18	3/8-18	7/8	11/16	.267	1.16	6000
JS-6-8-FC	3/8	9/16-18	1/2-14	1 1/8	11/16	.297	1.42	6000
JS-8-FC	1/2	3/4-16	3/8-14	7/8	7/8	.391	1.23	6000
JS-8-8-FC	1/2	3/4-16	1/2-14	1 1/8	7/8	.391	1.48	6000
JS-10-FC	5/8	7/8-14	1/2-14	1 1/8	1	.484	1.47	4800
JS-12-FC	3/4	1 1/16-12	3/4-14	1 3/8	1 1/4	.609	1.51	4200
JS-12-8-FC	3/4	1 1/16-12	1/2-14	1 1/4	1 1/4	.609	1.50	4200
JS-16-FC	1	1 5/16-12	1-11 1/2	1 5/8	1 1/2	.844	1.85	3000
JS-20-FC	1 1/4	1 5/8-12	1 1/4	2	2	1.078	2.17	3000
JS-24-FC	1 1/2	1 7/8-12	1 1/2	2 3/8	2 1/4	1.312	2.26	2400
JS-32-FC	2	2 1/2-12	2	2 7/8	2 7/8	1.781	2.45	1800

*L9 - PORT FACE TO BASE OF FLARE SEAT

JS-GC

Swivel Straight Thread Connector • Swivel Nut End/Straight Thread O-ring

6402

Part #	Tube O.D.	T5	T6	A	C3 Hex	C4 Hex	D	Dynamic Pressure Rtg.
JS-4-GC	1/4	7/16-20	7/16-20	1.31	9/16	9/16	.172	6000
JS-6-GC	3/8	9/16-18	9/16-18	1.43	11/16	11/16	.297	5400
JS-8-GC	1/2	3/4-16	3/4-16	1.61	7/8	7/8	.391	4800
JS-8-6-GC	1/2	3/8-16	3/4-16	1.54	7/8	13/16	.297	4800
JS-10-GC	5/8	7/8-14	7/8-12	1.84	1	1 1/16	.484	4800
JS-12-GC	3/4	1 1/16-12	1 1/16-12	2.07	1 1/4	1 1/4	.609	4200
JS-16-GC	1	1 5/16-12	1 5/16-12	2.28	1 1/2	1 1/2	.846	3000
JS-20-GC	1 1/4	1 5/8-12	1 5/8-12	2.49	2	2	1.078	3000

*LL - PORT FACE TO BASE OF FLARE SEAT

JS-C

Swivel Connector • Swivel Nut End/Male Pipe End

6505

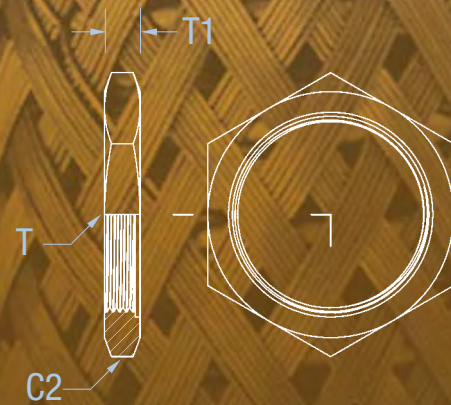
Part #	Tube OD	T6	PT NPTF	C3 Hex	C4 Hex	D Drill	D1 Drill	L8	LL	Dynamic Pressure Rtg.
JS-4-C	1/4	7/16-20	1/8-27	9/16	9/16	.172	.172	1.13	.63	6000
JS-4-4-C	1/4	7/16-20	1/4-18	9/16	9/16	.172	.172	1.46	.85	6000
JS-5-4-C	5/16	1/2-20	1/4-18	5/8	5/8	.234	.281	1.57	.88	6000
JS-6-C	3/8	9/16-18	1/4-18	11/16	11/16	.297	.297	1.59	.94	5400
JS-6-6-C	3/8	9/16-18	3/8-18	11/16	3/4	.281	.281	1.59	.95	5400
JS-8-C	1/2	3/4-16	3/8-18	7/8	7/8	.391	.391	1.69	.95	4800
JS-8-8-C	1/2	3/4-16	1/2-14	7/8	7/8	.391	.391	1.92	1.07	4800
JS-10-C	5/8	7/8-14	1/2-14	1	1	.484	.484	2.05	1.07	4800
JS-10-6-C	5/8	7/8-14	3/8-18	1	1	.484	.406	1.87	.99	4200
JS-12-C	3/4	1 1/16-12	3/4-14	1 1/4	1 1/4	.609	.609	2.15	1.15	4200
JS-12-8-C	3/4	1 1/16-12	1/2-14	1 1/4	1 1/4	.594	.531	2.15	1.17	3000
JS-16-C	1	1 5/16-12	1-11 1/2	1 1/2	1 1/2	.844	.844	2.50	1.90	3000
JS-16-12-C	1	1 5/16-12	3/4-14	1 1/2	1 1/2	.844	.719	2.33	1.21	3000
JS-20-C	1 1/4	1 5/8-12	1 1/4	2	2	1.078	1.078	2.76	1.47	3000
JS-24-C	1 1/2	1 7/8-12	1 1/2	2 1/4	2 1/4	1.312	1.312	3.05	1.71	2400
JS-32-C	2	2 1/2-12	2	2 7/8	2 5/8	1.781	1.781	3.38	1.98	1800

LL* - PORT FACE TO BASE OF FLARE SEAT

D1* DRILL MAY BE PRESENT DUE TO MANUFACTURING OPTION PER SAE J514



F Flareless Fittings



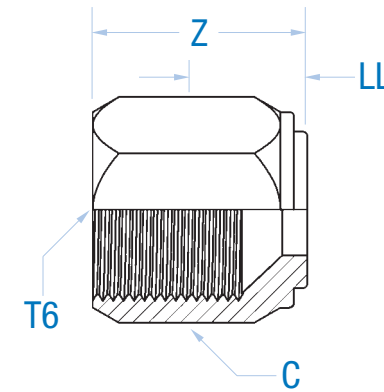
Bulkhead Locknut • Bulkhead Fitting Locknut

BN

306
MS51860
SAE 080118

Part #	Tube O.D.	T	C2 Hex	T1
BN-3	3/16	3/8-24	5/8	.22
BN-4	1/4	7/16-20	11/16	.28
BN-5	5/16	1/2-20	3/4	.28
BN-6	3/8	9/16-18	13/16	.27
BN-8	1/2	3/4-16	1	.31
BN-10	5/8	7/8-14	1 1/8	.36
BN-12	3/4	1 1/16-12	1 3/8	.41
BN-14	7/8	1 3/16-12	1 1/2	.41
BN-16	1	1 5/16-12	1 5/8	.41
BN-20	1 1/4	1 5/8-12	1 7/8	.41
BN-24	1 1/2	1 7/8-12	2 1/8	.41
BN-32	2	2 1/2-12	2 3/4	.41

F-Z



Cap • Flareless Tube Cap

Tube Fitting Part #	Tube O.D.	T6	C Hex	LL	Z	Dynamic Pressure Rtg
F-4-Z	1/4	7/16-20	9/16	.36	.73	6000
F-5-Z	5/16	1/2-20	5/8	.40	.77	6000
F-6-Z	3/8	9/16	11/16	.42	.80	6000
F-8-Z	1/2	3/4-16	7/8	.44	.87	5000
F-10-Z	5/8	7/8	1	.47	.98	5000
F-12-Z	3/4	1 1/16-12	1 1/4	.48	1.00	4500
F-16-Z	1	1 5/16-12	1 1/2	.58	1.08	4000

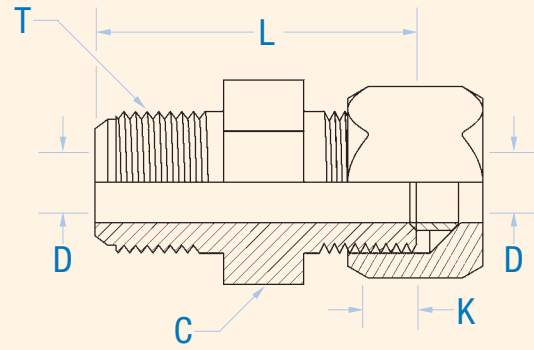
F-Z
C304-C
MS51890
SAE 080112

Flareless Fittings

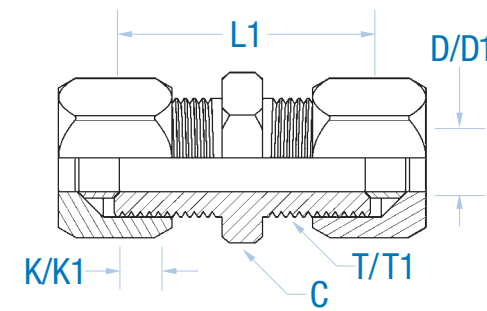


Call toll free:
800.333.2636

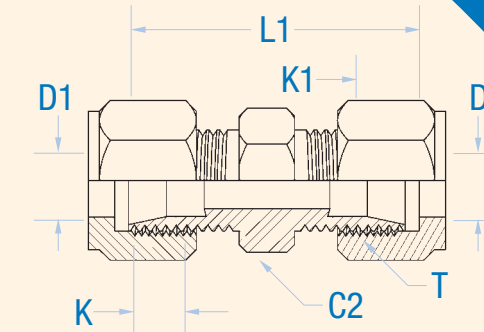
F-TXU



F-U



F-LHU



Flareless Fittings



F-TXU

Union Adapter • Flareless Tube End/Male Flare End

C2402
MS51856
SAE 080119

Part #	Tube O.D.	T	C Hex	D Drill	K	L	Dynamic Pressure Rtg
F-4-TXU	1/4	7/16-20	1/2	.172	.234	1.19	5000
F-6-TXU	3/8	9/16-18	5/8	.297	.250	1.28	5000
F-8-TXU	1/2	3/4-16	13/16	.391	.305	1.47	5000
F-10-TXU	5/8	7/8-14	15/16	.484	.350	1.69	5000
F-12-TXU	3/4	1 1/16-12	1 1/8	.609	.350	1.94	4500
F-16-TXU	1	1 5/16-12	1 5/8	.844	.415	1.97	4000

Union Flareless Tube End • Flareless Tube End

Part #	Tube O.D.	T/T1	C Hex	D / D1	K / K1	L1	Dynamic Pressure Rtg
F-2-U	1/8	5/16-24	7/16	.094	.188	1.02	6000
F-3-U	3/16	3/8-24	7/16	.125	.234	1.11	6000
F-4-U	1/4	7/16-20	1/2	.203	.234	1.18	6000
F-5-U	5/16	1/2-20	9/16	.234	.250	1.18	6000
F-6-U	3/8	9/16-18	5/8	.281	.250	1.24	6000
F-8-U	1/2	3/4-16	13/16	.422	.305	1.42	5000
F-10-U	5/8	7/8-14	15/16	.500	.350	1.61	5000
F-12-U	3/4	1 1/16-12	1 1/8	.656	.350	1.81	4500
F-14-U	7/8	1 3/6-12	1 1/4	.718	.350	1.81	4000
F-16-U	1	1 5/16-12	1 3/8	.875	.415	1.81	4000
F-20-U	1 1/4	1 5/8-12	1 11/16	1.093	.415	1.89	3000
F-24-U	1 1/2	1 7/8-12	2	1.344	.485	1.96	2000
F-32-U	2	2 1/2-12	2 5/8	1.812	.485	2.11	1500

F-U

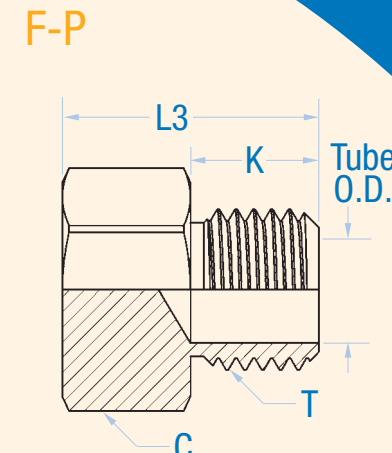
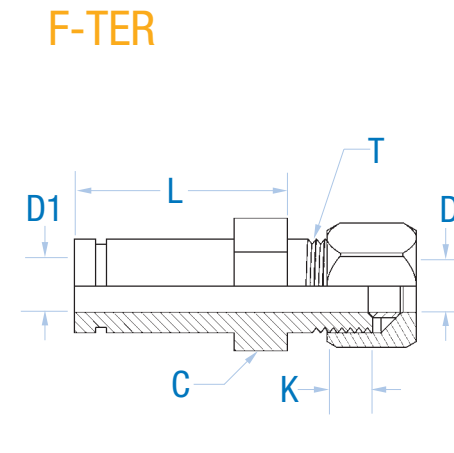
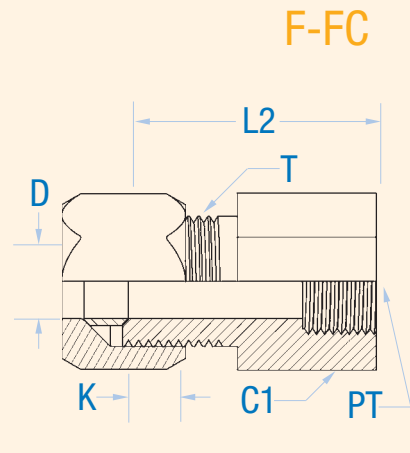
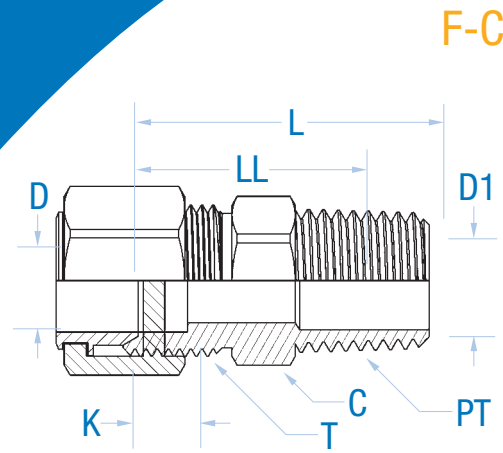
C2403
MS51814
SAE 080101

F-LHU

Large Hex Union • Flareless Tube End/Flareless Tube End

Part #	Tube O.D.	T/T1	C2 Hex	D / D1	K / K1	L1	Dynamic Pressure Rtg
F-4-LHU	1/4	7/16-20	11/16	.203	.234	1.18	6000
F-6-LHU	3/8	9/16-18	13/16	.281	.250	1.24	6000
F-8-LHU	1/2	3/4-16	1	.422	.305	1.42	5000
F-10-LHU	5/8	7/8-14	1 1/8	.500	.350	1.61	5000
F-12-LHU	3/4	1 1/16-12	1 3/8	.656	.350	1.81	4500
F-16-LHU	1	1 5/16-12	1 5/8	.875	.415	1.81	4000

C2403-LH
MS51856
SAE 080119



F-C

Male Connector • Flareless Tube End • Male Pipe End

C2404
MS51819
SAE 080102

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	C Hex	D Drill	D1 Drill	K	L	LL After Assy.	Dynamic Pressure Rtg
F-2-C	1/8	5/16-24	1/8-27	7/16	.094	.187	.19	1.03	.80	5000
F-2-4-C	1/8	5/16-24	1/4-18	9/16	.094	.281	.19	1.25	.91	5000
F-3-C	3/16	3/8-24	1/8-27	7/16	.125	.187	.24	1.09	.86	5000
F-4-C	1/4	7/16-20	1/8-27	1/2	.203	.187	.24	1.13	.90	5000
F-4-4-C	1/4	7/16-20	1/4-18	9/16	.203	.281	.24	1.33	.99	5000
F-4-6-C	1/4	7/16-20	3/8-18	3/4	.203	.406	.24	1.33	.98	5000
F-4-8-C	1/4	7/16-20	1/2-14	7/8	.203	.531	.24	1.58	1.12	5000
F-5-C	5/16	1/2-20	1/8-27	9/16	.234	.187	.26	1.13	.90	5000
F-5-4-C	5/16	1/2-20	1/4-18	9/16	.234	.281	.26	1.33	.99	5000
F-6-C	3/8	9/16-18	1/4-18	5/8	.281	.281	.26	1.34	1.00	5000
F-6-2-C	3/8	9/16-18	1/8-27	5/8	.281	.187	.26	1.16	.93	5000
F-6-6-C	3/8	9/16-18	3/8-18	3/4	.281	.406	.26	1.34	.99	5000
F-6-8-C	3/8	9/16-18	1/2-14	7/8	.281	.531	.26	1.60	1.14	5000
F-8-C	1/2	3/4-16	3/8-18	13/16	.422	.406	.31	1.44	1.09	5000
F-8-4-C	1/2	3/4-16	1/4-18	13/16	.422	.281	.31	1.44	1.10	5000
F-8-8-C	1/2	3/4-16	1/2-14	7/8	.422	.531	.31	1.69	1.23	5000
F-8-12-C	1/2	3/4-16	3/4-14	1 1/8	.422	.718	.31	1.75	1.27	4000
F-10-C	5/8	7/8-14	1/2-14	15/16	.500	.531	.36	1.75	1.29	4500
F-10-6-C	5/8	7/8-14	3/8-18	15/16	.500	.406	.36	1.56	1.21	4500
F-10-12-C	5/8	7/8-14	3/4-14	1 1/8	.500	.718	.36	1.83	1.35	4500
F-12-C	3/4	1 1/16-12	3/4-14	1 1/8	.656	.718	.36	1.88	1.40	4000
F-12-8-C	3/4	1 1/16-12	1/2-14	1 1/8	.656	.531	.36	1.88	1.42	4000
F-14-C	7/8	1 3/16-12	3/4-14	1 1/4	.718	.718	.36	1.88	1.40	3000
F-16-C	1	1 5/16-12	1-11 1/2	1 3/8	.875	.937	.42	2.08	1.51	3000
F-16-12-C	1	1 5/16-12	3/4-14	1 3/8	.875	.718	.42	1.88	1.40	3000
F-20-C	1 1/4	1 5/8-12	1 1/4-11 1/2	1 11/16	1.093	1.250	.42	2.19	1.60	2500
F-24-C	1 1/2	1 7/8-12	1 1/2-11 1/2	2	1.344	1.500	.49	2.28	1.69	2500
F-32-C	2	2 1/2-12	2-11 1/2	2 3/4	1.812	1.937	.49	2.47	1.86	2000

*D1 - DRILL MAY BE PRESENT DUE TO MANUFACTURERS OPTION PER SAE J514

F-FC

Female Connector • Flareless Tube End/Female Pipe End

C2405
MS51816
SAE 080103

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	C1 Hex	D Drill	K	L2	Dynamic Pressure Rtg.
F-2-FC	1/8	5/16-24	1/8-27	9/16	.094	.19	1.05	5000
F-4-FC	1/4	7/16-20	1/8-27	9/16	.203	.24	1.09	5000
F-4-4-FC	1/4	7/16-20	1/4-18	3/4	.203	.24	1.29	5000
F-5-FC	5/16	1/2-20	1/8-27	9/16	.234	.26	1.08	5000
F-6-FC	3/8	9/16-18	1/4-18	3/4	.281	.26	1.31	5000
F-6-6-FC	3/8	9/16-18	3/8-18	7/8	.281	.26	1.34	5000
F-6-8-FC	3/8	9/16-18	1/2-14	1 1/8	.281	.26	1.59	5000
F-8-FC	1/2	3/4-16	3/8-18	7/8	.422	.31	1.47	5000
F-8-4-FC	1/2	3/4-16	1/4-18	7/8	.422	.31	1.46	5000
F-8-8-FC	1/2	3/4-16	1/2-14	1 1/8	.422	.31	1.69	5000
F-10-FC	5/8	7/8-14	1/2-14	1 1/8	.500	.36	1.77	4500
F-12-FC	3/4	1 1/16-12	3/4-14	1 3/8	.656	.36	1.89	4000
F-14-FC	7/8	1 3/16-12	3/4-14	1 3/8	.718	.36	1.86	3000
F-16-FC	1	1 5/16-12	1-11 1/2	1 5/8	.875	.42	2.13	3000
F-20-FC	1 1/4	1 5/8-12	1 1/4-11 1/2	2	1.093	.42	2.22	2500
F-24-FC	1 1/2	1 7/8-12	1 1/2-11 1/2	2 3/8	1.344	.49	2.23	2500

F-TER

Tube End Reducer • Flareless Tube End Reducer

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T6 Swivel UN/UNF-2B	C3 Hex	D Drill	D1 Drill	K	L	Q	Dynamic Pressure Rtg
F-6-4-TER	3/8 to 1/4	.375	7/16-20	1/2	.203	.250	.234	1.61	.88	6000
F-8-4-TER	1/2 to 1/4	.500	7/16-20	9/16	.203	.375	.234	1.73	1.00	5000
F-8-6-TER	1/2 to 3/8	.500	9/16-18	5/8	.281	.375	.250	1.77	1.00	5000
F-10-8-TER	5/8 to 1/2	.625	3/4-16	13/16	.422	.500	.305	1.95	1.09	5000
F-12-6-TER	3/4 to 3/8	.750	9/16-18	13/16	.281	.625	.250	1.94	1.16	4500
F-12-8-TER	3/4 to 1/2	.750	3/4-16	13/16	.422	.625	.305	2.03	1.16	4500
F-16-8-TER	1 to 1/2	1.00	3/4-16	1 1/16	.422	.844	.305	2.05	1.13	4000
F-16-12-TER	1 to 3/4	1.00	1 1/16-12	1 1/8	.656	.844	.350	2.25	1.13	4000

F-TER

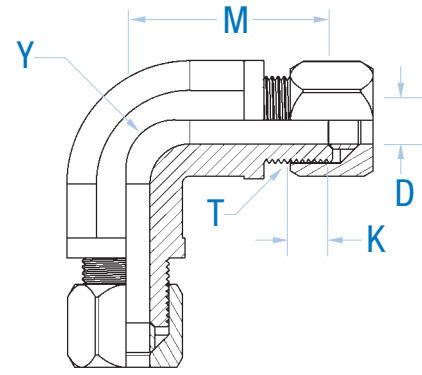
C2406
SAE 080123

Plug • Flareless Tube End Plug

Tube Fitting Part #	Tube O.D.	T	C Hex	K	L3	Dynamic Pressure Rtg
F-4-P	1/4	7/16-20	1/2	.234	.72	6000
F-5-P	5/16	1/2-20	9/16	.250	.72	6000
F-6-P	3/8	9/16-18	5/8	.250	.75	6000
F-8-P	1/2	3/4-16	13/16	.305	.84	5000
F-10-P	5/8	7/8-14	15/16	.350	.97	5000
F-12-P	3/4	1 1/16-12	1 1/8	.350	1.09	4500
F-16-P	1	1 5/16-12	1 3/8	.415	1.09	4000

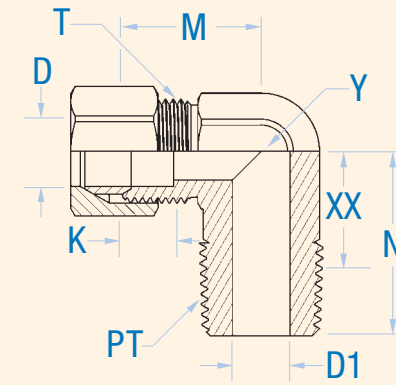
F-P

C2408
MS51891
SAE 080109



F-E

F-ME



F

F-E

Union Elbow • Flareless Tube End/Flareless Tube End

C2500
MS51820
SAE 080201

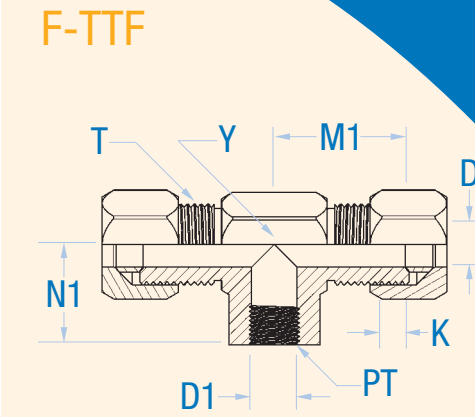
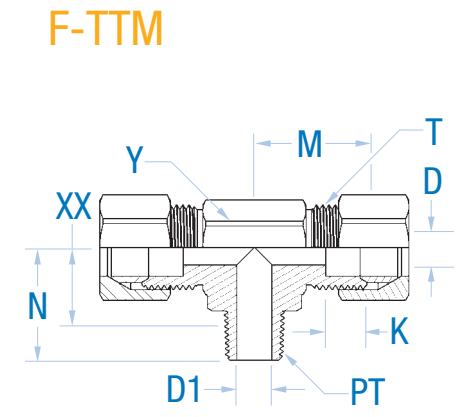
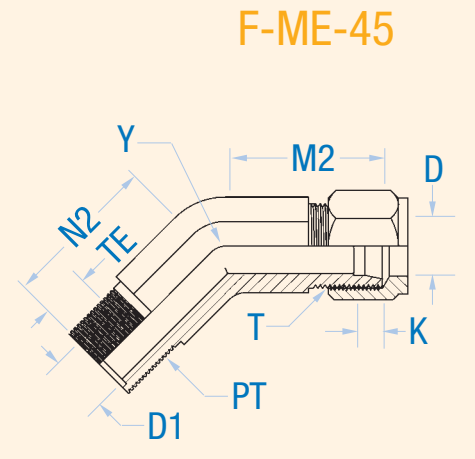
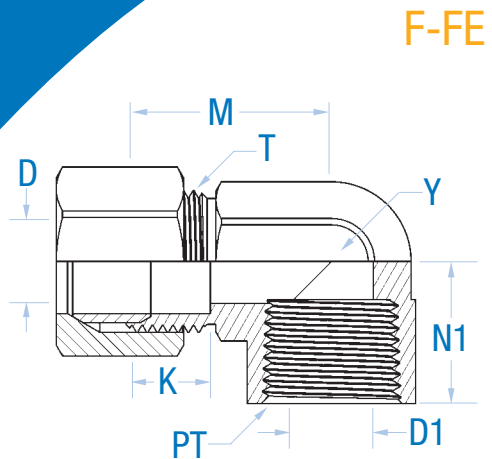
Part #	Tube O.D.	T	D Drill	K	M	Y Across Wrench Flats	Dynamic Pressure Rtg
F-2-E	1/8	5/16-24	.094	.188	.77	7/16	5000
F-4-E	1/4	7/16-20	.203	.234	.89	7/16	5000
F-5-E	5/16	1/2-20	.234	.250	.95	9/16	5000
F-6-E	3/8	9/16-18	.282	.250	1.05	9/16	5000
F-8-E	1/2	3/4-16	.422	.305	1.25	3/4	5000
F-10-E	5/8	7/8	.500	.350	1.42	7/8	4500
F-12-E	3/4	1 1/16-12	.656	.350	1.58	1 1/16	4000
F-14-E	7/8	1 3/16-12	.718	.350	1.66	1 5/16	3000
F-16-E	1	1 5/16-12	.875	.415	1.73	1 5/16	3000
F-20-E	1 1/4	1 5/8-12	1.093	.415	1.89	1 5/8	2500
F-24-E	1 1/2	1 7/8-12	1.344	.485	2.02	1 7/8	2000
F-32-E	2	2 1/2-12	1.813	.485	2.45	2 1/2	1500

Flareless Tube End • Male Pipe End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M	N	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
F-2-ME	1/8	5/16-24	1/8-27	.094	.188	.19	.78	.72	.49	7/16	5000
F-3-ME	3/16	3/8-24	1/8-27	.125	.188	.24	.84	.72	.49	7/16	5000
F-4-ME	1/4	7/16-20	1/8-27	.203	.188	.24	.89	.78	.55	7/16	5000
F-4-4-ME	1/4	7/16-20	1/4-18	.203	.281	.24	1.03	1.09	.75	9/16	5000
F-4-6-ME	1/4	7/16-20	3/8-18	.203	.406	.24	1.13	1.22	.87	3/4	5000
F-5-ME	5/16	1/2-20	1/8-27	.234	.188	.26	.95	.81	.58	9/16	5000
F-5-4-ME	5/16	1/2-20	1/4-18	.234	.281	.26	1.03	1.09	.75	9/16	5000
F-6-ME	3/8	9/16-18	1/4-18	.282	.281	.26	1.05	1.09	.75	9/16	5000
F-6-2-ME	3/8	9/16-18	1/8-27	.282	.188	.26	1.05	.88	.65	9/16	5000
F-6-6-ME	3/8	9/16-18	3/8-18	.282	.406	.26	1.14	1.22	.87	3/4	5000
F-6-8-ME	3/8	9/16-18	1/2-14	.282	.531	.26	1.23	1.47	1.01	7/8	5000
F-8-ME	1/2	3/4-16	3/8-18	.422	.406	.31	1.25	1.22	.87	3/4	5000
F-8-4-ME	1/2	3/4-16	1/4-18	.422	.281	.31	1.25	1.16	.82	3/4	5000
F-8-8-ME	1/2	3/4-16	1/2-14	.422	.531	.31	1.34	1.47	1.01	7/8	5000
F-8-12-ME	1/2	3/4-16	3/4-14	.422	.719	.31	1.42	1.59	1.11	1 1/16	4000
F-10-ME	5/8	7/8-14	1/2-14	.500	.531	.36	1.42	1.47	1.01	7/8	4500
F-10-6-ME	5/8	7/8-14	3/8-18	.500	.406	.36	1.42	1.30	.95	7/8	4500
F-12-ME	3/4	1 1/16-12	3/4-14	.656	.719	.36	1.58	1.59	1.11	1 1/16	4000
F-12-8-ME	3/4	1 1/16-12	1/2-14	.656	.531	.36	1.58	1.59	1.13	1 1/16	4000
F-14-ME	7/8	1 3/16-12	3/4-14	.718	.719	.36	1.66	1.69	1.21	1 5/16	3000
F-16-ME	1	1 5/16-12	1-11 1/2	.875	.938	.42	1.73	1.97	1.40	1 5/16	3000
F-16-12-ME	1	1 5/16-12	3/4-14	.875	.719	.42	1.73	1.78	1.30	1 5/16	3000
F-20-ME	1 1/4	1 5/8-12	1 1/4-11 1/2	1.094	1.250	.42	1.89	2.38	1.79	1 5/8	2500
F-24-ME	1 1/2	1 7/8-12	1 1/2-11 1/2	1.344	1.500	.49	2.02	2.64	2.05	1 7/8	2500
F-32-ME	2	2 1/2-12	2-11 1/2	1.813	1.938	.49	2.45	3.00	2.39	2 1/2	2000

F-ME

C2501
MS51815
SAE 080202



F-FE

Female Elbow • Flareless Tube End/Female Pipe End

C2502
MS51813
SAE 080203

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M	N1	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-FE	1/4	7/16-20	1/8-27	.203	.328	.24	.89	.66	9/16	5000
F-4-4-FE	1/4	7/16-20	1/4-18	.203	.422	.24	1.03	.88	3/4	5000
F-5-FE	5/16	1/2-20	1/8-27	.234	.328	.26	.95	.66	9/16	5000
F-6-FE	3/8	9/16-18	1/4-18	.282	.422	.26	1.05	.88	3/4	5000
F-6-6-FE	3/8	9/16-18	3/8-18	.282	.563	.26	1.13	1.02	7/8	4500
F-8-FE	1/2	3/4-16	3/8-18	.422	.563	.31	1.23	1.02	7/8	3000
F-8-4-FE	1/2	3/4-16	1/4-18	.422	.422	.31	1.23	.88	3/4	5000
F-8-8-FE	1/2	3/4-16	1/2-14	.422	.688	.31	1.34	1.23	1 1/16	3000
F-10-FE	5/8	7/8-14	1/2-14	.500	.688	.36	1.42	1.23	1 1/16	3000
F-12-FE	3/4	1 1/16-12	3/4-14	.656	.906	.36	1.58	1.36	1 5/16	3000
F-14-FE	7/8	1 3/16-12	3/4-14	.718	.906	.36	1.62	1.42	1 5/16	3000
F-16-FE	1	1 5/16-12	1-11 1/2	.875	1.125	.42	1.73	1.63	1 5/8	1750
F-20-FE	1 1/4	1 5/8-12	1 1/4-11 1/2	1.093	1.469	.42	2.08	1.70	1 7/8	1500
F-24-FE	1 1/2	1 7/8-12	1 1/2-11 1/2	1.344	1.719	.49	2.58	2.08	2 1/2	1000

Male Branch Tee • Flareless Tube End • Male Pipe End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M	N	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
F-2-TTM	1/8	5/16-24	1/8-27	.093	.188	.20	.77	.72	.49	7/16	5000
F-4-TTM	1/4	7/16-20	1/8-27	.203	.188	.24	.89	.78	.55	7/16	5000
F-4-4-4-TTM	1/4	7/16-20	1/4-18	.203	.281	.24	1.03	1.09	.75	9/16	5000
F-5-TTM	5/16	1/2-20	1/8-27	.234	.188	.26	.95	.81	.58	9/16	5000
F-6-TTM	3/8	9/16-18	1/4-18	.281	.281	.26	1.05	1.09	.75	9/16	5000
F-8-TTM	1/2	3/4-16	3/8-18	.422	.406	.31	1.25	1.22	.87	3/4	5000
F-8-8-8-TTM	1/2	3/4-16	1/2-14	.422	.531	.31	1.34	1.47	1.01	7/8	5000
F-10-TTM	5/8	7/8-14	1/2-14	.500	.531	.36	1.42	1.47	1.01	7/8	4500
F-12-TTM	3/4	1 1/16-12	3/4-14	.656	.719	.36	1.58	1.59	1.11	1 1/16	4000
F-14-TTM	7/8	1 3/16-12	3/4-14	.718	.719	.36	1.66	1.69	1.18	1 5/16	3000
F-16-TTM	1	1 5/16-12	1-11 1/2	.875	.938	.42	1.73	1.97	1.40	1 5/16	3000

C2601
MS51818
SAE 080425

F-ME-45

45° Male Elbow • Flareless Tube End/Male Pipe End

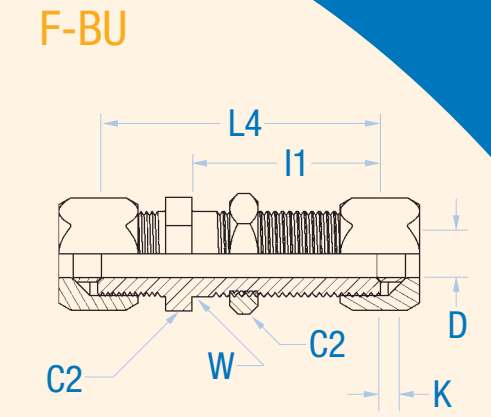
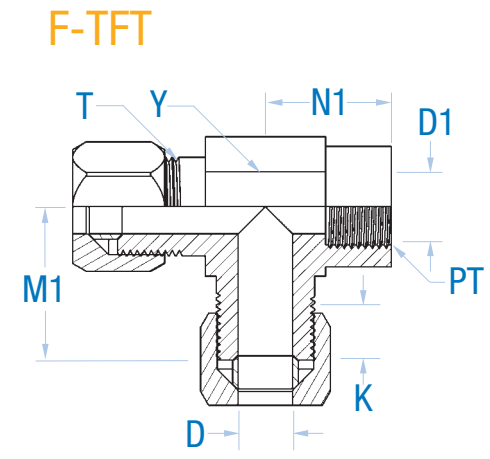
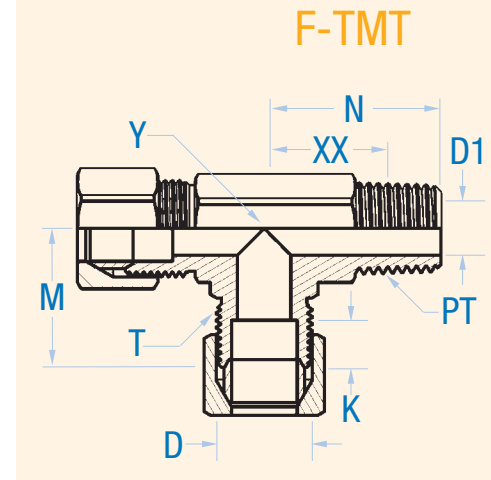
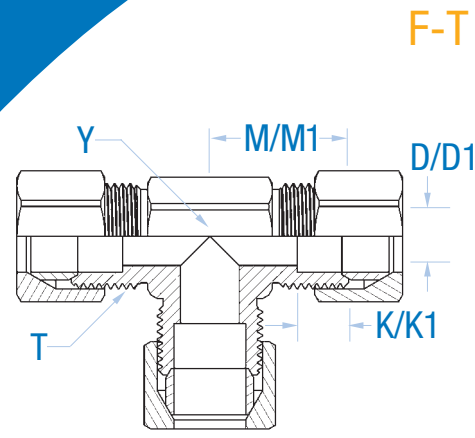
C2503
MS51817
SAE 080302

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M2	N2	TE After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
F-3-ME-45	3/16	3/8-24	1/8-27	.125	.188	.24	.64	.52	.23	7/16	5000
F-4-ME-45	1/4	7/16-20	1/8-27	.203	.188	.24	.70	.64	.23	7/16	5000
F-4-4-ME-45	1/4	7/16-20	1/4-18	.203	.281	.24	.81	.86	.34	9/16	5000
F-5-ME-45	5/16	1/2-20	1/8-27	.234	.188	.26	.75	.66	.23	9/16	5000
F-6-ME-45	3/8	9/16-18	1/4-18	.282	.281	.26	.83	.86	.34	9/16	5000
F-8-ME-45	1/2	3/4-16	3/8-18	.422	.406	.31	.98	.95	.35	3/4	5000
F-10-ME-45	5/8	7/8-14	1/2-14	.500	.531	.36	1.08	1.17	.46	7/8	4500
F-12-ME-45	3/4	1 1/16-12	3/4-14	.656	.719	.36	1.27	1.20	.48	1 1/16	4000
F-14-ME-45	7/8	1 3/16-12	3/4-14	.718	.719	.36	1.34	1.30	.48	1 5/16	3000
F-16-ME-45	1	1 5/16-12	1-11 1/2	.875	.938	.42	1.36	1.48	.57	1 5/16	3000
F-20-ME-45	1 1/4	1 5/8-12	1 1/4-11 1/2	1.093	1.250	.42	1.45	1.67	.59	1 5/8	2500

Female Branch Tee • Flareless Tube End/Female Pipe End

Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M1	N1	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-TTF	1/4	7/16-20	1/8-27	.203	.328	.24	.89	.66	9/16	5000
F-4-4-4-TTF	1/4	7/16-20	1/4-18	.203	.422	.24	1.03	.88	3/4	5000
F-6-TTF	3/8	9/16-18	1/4-18	.282	.422	.26	1.05	.88	3/4	5000
F-8-TTF	1/2	3/4-16	3/8-18	.422	.563	.31	1.23	1.02	7/8	3000
F-10-TTF	5/8	7/8-14	1/2-14	.500	.688	.36	1.42	1.23	1 1/16	3000
F-12-TTF	3/4	1 1/16-12	3/4-14	.656	.906	.36	1.58	1.36	1 5/16	3000
F-14-TTF	7/8	1 3/16-12	3/4-14	.718	.906	.36	1.62	1.42	1 5/16	3000
F-16-TTF	1	1 5/16-12	1-11 1/2	.875	1.125	.42	1.73	1.62	1 5/8	1750
F-20-TTF	1 1/4	1 5/8-12	1 1/4-11 1/2	1.093	1.469	.42	2.08	1.70	1 7/8	1500

C2602
MS51821
SAE 080427



F-T

Union Tee • Flareless Tube End

C2603
MS51811
SAE 080401

Part #	Tube O.D.	T/T1	D/D1	K/K1	M/M1	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-T	1/4	7/16-20	.203	.234	.89	7/16	5000
F-5-T	5/16	1/2-20	.234	.250	.95	9/16	5000
F-6-T	3/8	9/16-18	.281	.250	1.05	9/16	5000
F-8-T	1/2	3/4-16	.422	.305	1.25	3/4	5000
F-10-T	5/8	7/8-14	.500	.350	1.42	7/8	4500
F-12-T	3/4	1 1/16-12	.656	.350	1.58	1 1/16	4000
F-16-T	1	1 3/16-12	.875	.415	1.73	1 5/16	3000
F-20-T	1 1/4	1 5/8-12	1.093	.415	1.89	1 5/8	2500
F-24-T	1 1/2	1 7/8-12	1.344	.485	2.02	1 7/8	2000

Female Run Tee • Flareless Tube End/Female Pipe End

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M1	N1	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-TFT	1/4	7/16-20	1/8-27	.203	.328	.24	.89	.66	9/16	5000
F-6-TFT	3/8	9/16-18	1/4-18	.282	.422	.26	1.05	.88	3/4	5000
F-8-TFT	1/2	3/4-16	3/8-18	.422	.563	.31	1.23	1.02	7/8	3000
F-10-TFT	5/8	7/8-14	1/2-14	.500	.688	.36	1.42	1.23	1 1/16	3000
F-12-TFT	3/4	1 1/16-12	3/4-14	.656	.906	.36	1.58	1.36	1 5/16	3000
F-16-TFT	1	1 5/16-12	1-11 1/2	.875	1.125	.42	1.73	1.62	1 5/8	1750

F-TFT

C2606
MS51822
SAE 080426

F-TMT

Male Run Tee • Flareless Tube End • Male Pipe End

C2605
MS51824
SAE 080424

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD NPTF	D Drill	D1 Drill	K	M	N	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-TMT	1/4	7/16-20	1/8-27	.203	.188	.24	.89	.78	.55	7/16	5000
F-4-4-TMT	1/4	7/16-20	1/4-18	.203	.281	.24	1.03	1.09	.75	9/16	5000
F-5-TMT	5/16	1/2-20	1/8-27	.234	.188	.26	.95	.81	.58	9/16	5000
F-6-TMT	3/8	9/16-18	1/4-18	.282	.281	.26	1.05	1.09	.75	9/16	5000
F-8-TMT	1/2	3/4-16	3/8-18	.422	.406	.31	1.25	1.22	.87	3/4	5000
F-8-8-TMT	1/2	3/4-16	1/2-14	.422	.531	.31	1.34	1.47	1.01	7/8	5000
F-10-TMT	5/8	7/8-14	1/2-14	.500	.531	.36	1.42	1.47	1.01	7/8	4500
F-12-TMT	3/4	1 1/16-12	3/4-14	.656	.719	.36	1.58	1.59	1.11	1 1/16	4000
F-14-TMT	7/8	1 3/16-12	3/4-14	.718	.719	.36	1.62	1.69	1.21	1 5/16	3000
F-16-TMT	1	1 5/16-12	1-11 1/2	.875	.938	.42	1.73	1.97	1.40	1 5/16	3000

*D1 - DRILL MAY BE PRESENT DUE TO MANUFACTURERS OPTION PER SAE J514

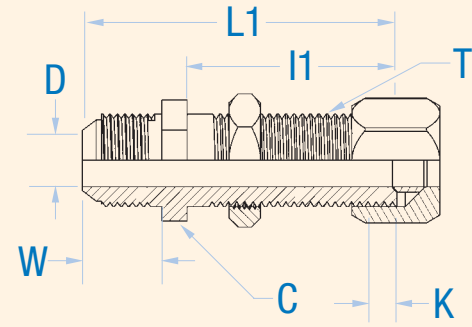
Bulkhead Union • Flareless Tube End/Flareless Tube End

Part #	Tube O.D.	T	C2 Hex	D Drill	I1	K	L4	W	Dynamic Pressure Rtg
F-4-BU	1/4	7/16	11/16	.203	1.12	.234	1.89	.44	6000
F-6-BU	3/8	9/16	13/16	.281	1.17	.250	1.98	.56	6000
F-8-BU	1/2	3/4-16	1	.422	1.31	.305	2.22	.75	5000
F-10-BU	5/8	7/8-14	1 1/8	.500	1.45	.350	2.48	.88	5000
F-12-BU	3/4	1 1/16-12	1 3/8	.656	1.56	.350	2.72	1.06	4500
F-16-BU	1	1 5/16-12	1 5/8	.875	1.56	.415	2.72	1.31	4000

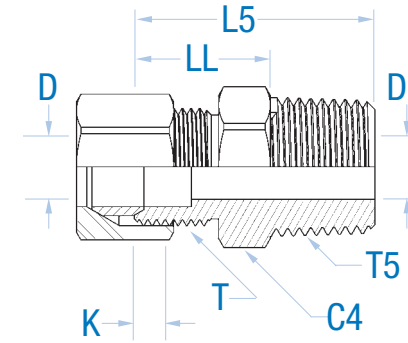
F-BU

C2700
SAE 080601

F-TX2U



F-GC



F-TX2U

Bulkhead Union Adapter • Flareless Tube Bulkhead End/Male Flare End

C2707

MS51824
SAE 080424

Part #	Tube O.D.	T	C	D Drill	I1	K	L1	W	Dynamic Pressure Rtg
F-4-TX2U	1/4	7/16-20	11/16	.172	1.12	.234	1.94	.44	5000
F-6-TX2U	3/8	9/16-18	13/16	.297	1.17	.250	2.08	.56	5000
F-8-TX2U	1/2	3/4-16	1	.391	1.31	.305	2.31	.75	5000
F-10-TX2U	5/8	7/8-14	1 1/8	.484	1.45	.350	2.56	.88	5000
F-12-TX2U	3/4	1 1/16-12	1 3/8	.609	1.56	.350	2.94	1.06	4500
F-16-TX2U	1	1 5/16-12	1 5/8	.844	1.56	.415	2.95	1.31	4000

Straight Thread Connector • Flareless Tube End/Straight Thread O-Ring

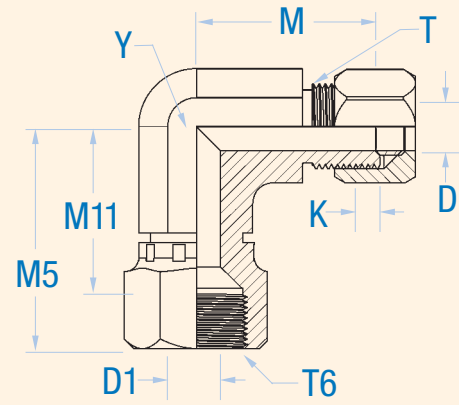
Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	T5 Port THD UN/UNF-2A	C4 Hex	D Drill	D2 Drill	K	L5	LL After Assy.	Dynamic Pressure Rtg
F-2-GC	1/8	5/16-24	5/16-24	7/16	.094	.094	.19	1.00	.70	5000
F-3-GC	3/16	3/8-24	3/8-24	1/2	.125	.125	.24	1.05	.75	5000
F-4-GC	1/4	7/16-20	7/16-20	9/16	.203	.203	.24	1.13	.77	5000
F-4-5-GC	1/4	7/16-20	1/2-20	5/8	.203	.234	.24	1.13	.77	5000
F-4-6-GC	1/4	7/16-20	9/16-18	11/16	.203	.281	.24	1.20	.81	5000
F-4-10-GC	1/4	7/16-20	7/8-18	1	.203	.500	.24	1.40	.90	5000
F-5-GC	5/16	1/2-20	1/2-20	5/8	.234	.234	.26	1.13	.77	5000
F-6-GC	3/8	9/16-18	9/16-18	11/16	.281	.281	.26	1.22	.83	5000
F-6-4-GC	3/8	9/16-18	7/16-20	5/8	.281	.203	.26	1.19	.83	5000
F-6-8-GC	3/8	9/16-18	3/4-16	7/8	.281	.422	.26	1.28	.84	5000
F-8-GC	1/2	3/4-16	3/4-16	7/8	.422	.422	.31	1.38	.94	5000
F-8-6-GC	1/2	3/4-16	9/16-18	13/16	.422	.281	.31	1.28	.89	5000
F-8-10-GC	1/2	3/4-16	7/8-14	1	.422	.500	.31	1.50	1.00	5000
F-8-12-GC	1/2	3/4-16	1 1/16-12	1 1/4	.422	.656	.31	1.67	1.08	4500
F-10-GC	5/8	7/8-14	7/8-14	1	.500	.500	.36	1.56	1.06	5000
F-10-12-GC	5/8	7/8-14	1 1/16-12	1 1/4	.500	.500	.36	1.73	1.14	4500
F-12-GC	3/4	1 1/16-12	1 1/16-12	1 1/4	.656	.656	.36	1.78	1.19	4500
F-12-8-GC	3/4	1 1/16-12	3/4-16	1 1/8	.656	.422	.36	1.75	1.19	4500
F-12-16-GC	3/4	1 1/16-12	1 5/16-12	1 1/2	.656	.875	.36	1.81	1.22	4000
F-16-GC	1	1 5/16-12	1 5/16-12	1 1/2	.875	.875	.42	1.81	1.22	4000
F-16-12-GC	1	1 5/16-12	1 1/16-12	1 3/8	.875	.656	.42	1.81	1.22	4000
F-16-20-GC	1	1 5/16-12	1 5/8-12	1 7/8	.875	1.093	.42	1.91	1.31	3000
F-20-GC	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.093	1.093	.42	1.91	1.31	3000
F-24-GC	1 1/2	1 7/8-12	1 7/8-12	2 1/2	1.344	1.344	.49	1.97	1.37	3000
F-32-GC	2	2 1/2-12	2 1/2-12	2 3/4	1.813	1.813	.49	2.13	1.53	2000

F-GC

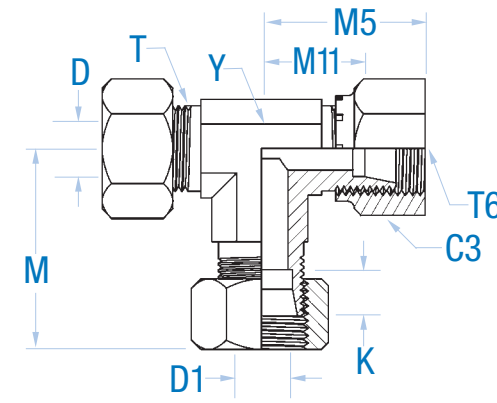
C6400

MS51843
SAE 080120

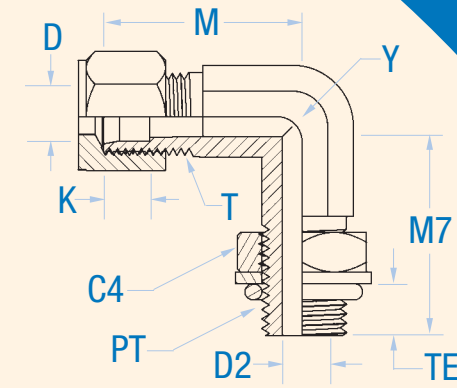
F-SE



F-SRT



F-GE



Flareless Fittings



F-SE

Swivel Nut Elbow • Flareless Tube End/Swivel Nut End

Tube Fitting Part #	Tube O.D.	T/T6	D/D1	K	M	M5	M11	Y Across Wrench Flats	Dynamic Pressure Rtg
C6500									
MS51852									
SAE 080221									
F-4-SE	1/4	7/16-20	.203	.234	.89	1.05	.75	7/16	5000
F-6-SE	3/8	9/16-18	.282	.250	1.05	1.28	.94	9/16	5000
F-8-SE	1/2	3/4-16	.422	.305	1.25	1.47	1.07	3/4	5000
F-10-SE	5/8	7/8-14	.500	.350	1.42	1.61	1.20	7/8	4500
F-12-SE	3/4	1 1/16-12	.656	.350	1.58	1.77	1.29	1 1/16	4000
F-16-SE	1	1 5/16-12	.875	.415	1.73	1.86	1.43	1 5/16	3000

Swivel Nut Run Tee • Flareless Tube End/Swivel Nut End

Tube Fitting Part #	Tube O.D.	T/T6	C3 Hex	D/D1	K	M	M5	M11	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-SRT	1/4	7/16-20	9/16	.203	.234	.89	1.05	.75	7/16	5000
F-6-SRT	3/8	9/16-18	11/16	.282	.250	1.05	1.28	.94	9/16	5000
F-8-SRT	1/2	3/4-16	7/8	.422	.305	1.25	1.47	1.07	3/4	5000
F-12-SRT	3/4	1 1/16-12	1 1/4	.656	.350	1.58	1.77	1.29	1 1/16	4000
F-16-SRT	1	1 5/16-12	1 1/2	.875	.415	1.73	1.86	1.43	1 5/16	3000

F-SRT

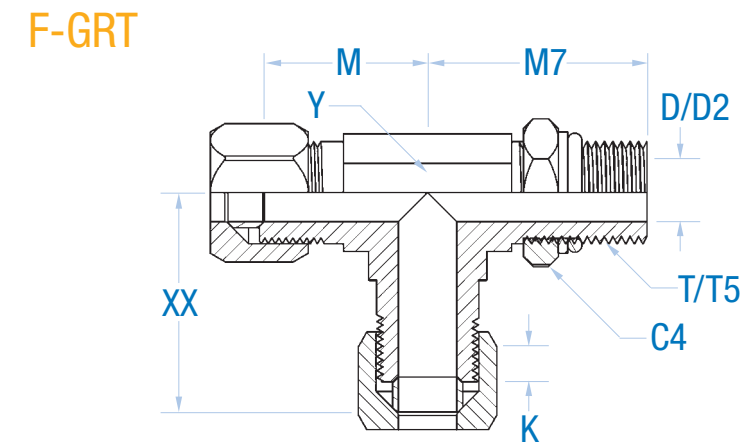
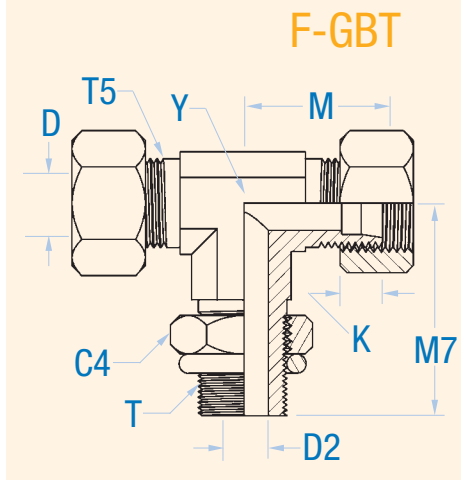
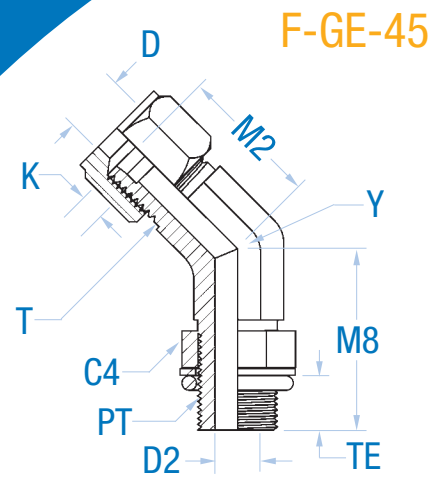
C6602
MS51854
SAE 080432

F-GE

Straight Thread Elbow • Flareless Tube End/Straight Thread O-Ring

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD	C4 Hex	D Drill	D2 Drill	K	M	M7	TE After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
F-3-GE	3/16	3/8-24	3/8-24	1/2	.125	.125	.24	.84	.94	.64	7/16	5000
F-4-GE	1/4	7/16-20	7/16-20	9/16	.203	.203	.24	.89	1.03	.67	7/16	5000
F-5-GE	5/16	1/2-20	1/2-20	5/8	.234	.234	.26	.95	1.13	.77	9/16	5000
F-6-GE	3/8	9/16-18	9/16-18	11/16	.282	.282	.26	1.05	1.25	.86	9/16	5000
F-6-8-GE	3/8	9/16-18	3/4-16	7/8	.282	.422	.26	1.14	1.45	1.01	3/4	5000
F-8-GE	1/2	3/4-16	3/4-16	7/8	.422	.422	.31	1.25	1.45	1.01	3/4	5000
F-8-6-GE	1/2	3/4-16	9/16-18	11/16	.422	.282	.31	1.27	1.33	.94	3/4	5000
F-8-10-GE	1/2	3/4-16	7/8-14	1	.422	.500	.31	1.34	1.70	1.20	7/8	4500
F-8-12-GE	1/2	3/4-16	1 1/16-12	1 1/4	.422	.656	.31	1.43	1.94	1.35	1 1/16	4000
F-10-GE	5/8	7/8-14	7/8-14	1	.500	.500	.36	1.42	1.70	1.20	7/8	4500
F-12-GE	3/4	1 1/16-12	1 1/16-12	1 1/4	.656	.656	.36	1.58	1.94	1.35	1 1/16	4000
F-12-8-GE	3/4	1 1/16-12	3/4-16	7/8	.656	.422	.36	1.58	1.63	1.19	1 1/16	4500
F-12-10-GE	3/4	1 1/16-12	7/8-14	1	.656	.500	.36	1.58	1.78	1.28	1 1/16	4000
F-12-16-GE	3/4	1 1/16-12	1 5/16-12	1 1/2	.656	.875	.36	1.73	2.05	1.46	1 5/16	3000
F-16-GE	1	1 5/16-12	1 5/16-12	1 1/2	.875	.875	.42	1.73	2.05	1.46	1 5/16	3000
F-16-12-GE	1	1 5/16-12	1 1/16-12	1 1/4	.875	.656	.42	1.73	2.05	1.46	1 5/16	3000
F-20-GE	1 1/4	1 5/8-12	1 5/8-12	1 7/8	1.093	1.093	.42	1.89	2.25	1.66	1 5/8	2500
F-24-GE	1 1/2	1 7/8-12	1 7/8-12	2 1/8	1.344	1.344	.49	2.02	2.39	1.80	1 7/8	2000
F-32-GE	2	2 1/2-12	2 1/2-12	2 3/4	1.813	1.813	.49	2.45	2.89	2.23	2 1/2	1500

C6801
MS51839
SAE 080320



F-GE-45

Straight Thread Elbow-45 • Flareless Tube End/Straight Thread O-Ring

C6802-45
MS51842
SAE 080320

Tube Fitting Part #	Tube O.D.	T Tube End UN/UNF-2A	PT Port THD	C4 Hex	D Drill	D2 Drill	K	M2	M8	TE After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-GE-45	1/4	7/16-20	7/16-20	9/16	.203	.203	.24	.70	1.05	.36	7/16	5000
F-6-GE-45	3/8	9/16-18	9/16-18	11/16	.282	.282	.26	.83	1.14	.39	9/16	5000
F-8-GE-45	1/2	3/4-16	3/4-16	7/8	.422	.422	.31	.98	1.30	.44	3/4	5000
F-12-GE-45	3/4	1 1/16-12	1 1/16-12	1 1/4	.656	.656	.36	1.27	1.73	.59	1 1/16	4000
F-16-GE-45	1	1 5/16-12	1 5/16-12	1 1/2	.875	.875	.42	1.36	1.86	.59	1 5/16	3000

Straight Thread Run Tee • Flareless Tube End/Straight Thread O-Ring

Tube Fitting Part #	Tube O.D.	T/T5	C4 Hex	D/D2	K	M	M7	XX	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-GRT	1/4	7/16-20	9/16	.203	.234	.89	1.03	.67	7/16	5000
F-6-GRT	3/8	9/16-18	11/16	.282	.250	1.05	1.25	.86	9/16	5000
F-8-GRT	1/2	3/4-16	7/8	.422	.305	1.25	1.45	1.01	3/4	5000
F-10-GRT	5/8	7/8-14	1	.500	.350	1.42	1.70	1.20	7/8	4500
F-12-GRT	3/4	1 1/16-12	1 1/4	.656	.350	1.58	1.94	1.35	1 1/16	4000
F-16-GRT	1	1 5/16-12	1 1/2	.875	.415	1.72	2.05	1.46	1 5/16	3000

C6804-NOW
MS51892
SAE 080428

F-GBT

Straight Thread Branch Tee • Flareless Tube Ends/Straight Thread O-Ring

C6803-NW0
MS51841
SAE 080429

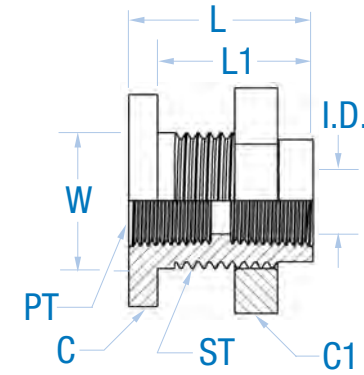
Tube Fitting Part #	Tube O.D.	T/T5	C4 Hex	D/D2	K	M	M7	Y Across Wrench Flats	Dynamic Pressure Rtg
F-4-GBT	1/4	7/16-20	9/16	.203	.234	.89	1.03	7/16	5000
F-6-GBT	3/8	9/16-18	11/16	.282	.250	1.05	1.25	9/16	5000
F-8-GBT	1/2	3/4-16	7/8	.422	.250	1.25	1.45	3/4	5000
F-10-GBT	5/8	7/8-14	1	.500	.350	1.42	1.70	7/8	4500
F-12-GBT	3/4	1 1/16-12	1 1/4	.656	.350	1.58	1.94	1 1/16	4000
F-16-GBT	1	1 5/16-12	1 1/2	.875	.415	1.73	2.05	1 5/16	3000



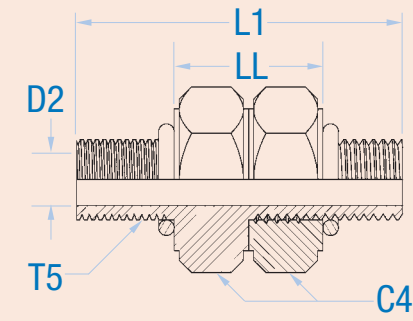
P Threaded Fittings



207ACBH



P-GCU



Pipe Fittings

P

207ACBH

Anchor Coupling

Part #	PT	ST	C	C1	L	L1	W*	ID Flow
207ACBH-4S	1/4	3/4-16	1	1	.94	.69	.75	.421
207ACBH-4	1/4	3/4-16	1	1	1.50	1.25	.75	.421
207ACBH-6	3/8	1-14	1 1/8	1 1/4	1.31	1.13	1.00	.570
207ACBH-8	1/2	1 1/8-14	1 1/4	1 3/8	1.50	1.25	1.13	.687
207ACBH-12	3/4	1 5/16-12	1 1/2	1 5/8	1.50	.990	1.31	.906

W* - BULKHEAD PILOT DIAMETER RECOMMENDED CLEARANCE HOLE +.015" OVER W* DIAMETER

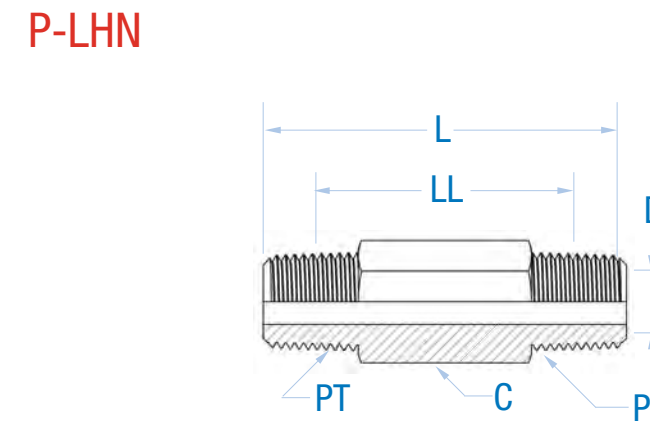
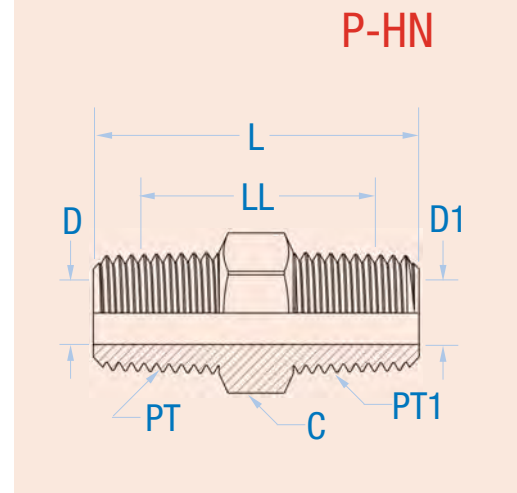
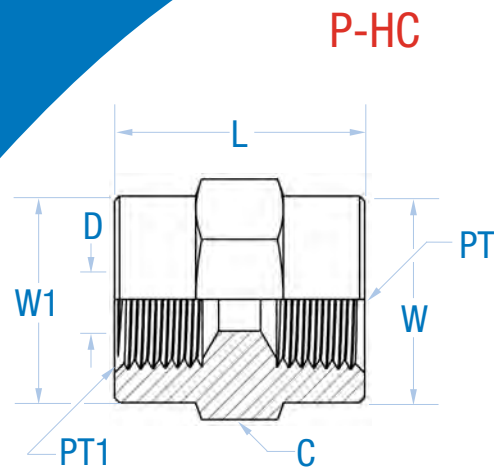
P-GCU

P-GCU Straight Thread Union • Straight Thread O-Ring/Adjustable Straight Thread

Tube Fitting Part #	T5 Port THD UN/UNF-2A	C4 Hex	D2 Drill	L1	LL After Assy.	Dynamic Pressure Rating
P-4-GCU	7/16-20	9/16	.203	1.22	.47	6000
P-6-GCU	9/16-18	11/16	.297	1.41	.59	6000
P-8-GCU	3/4-16	7/8	.422	1.56	.63	6000
P-10-GCU	7/8-14	1	.484	1.81	.75	5400
P-12-GCU	1 1/16-12	1 1/4	.656	2.13	.89	4800
P-16-GCU	1 5/16-12	1 1/2	.875	2.13	.89	3600
P-20-GCU	1 5/8-12	1 7/8	1.078	2.13	.89	3000
P-24-GCU	1 7/8-12	2 1/8	1.344	2.13	.89	2400
P-32-GCU	2 1/2-12	2 3/4	1.813	2.13	.89	1800

3474

Call toll free:
800.333.2636



P-HC

Hex Pipe Coupling • Female Pipe Thread/Female Pipe Thread

5000
SAE 140138

Tube Fitting Part #	PT Port Thread NPTF	PT1 Port THD NPTF	C Hex	Ref D Drill	L	W	W1	Dynamic Pressure Rtg
P-1/8-HC	1/8-27	1/8-27	5/8	.328	.75	.63	.63	7200
P-1/4 X 1/8-HC	1/4-18	1/8-27	3/4	.328	.94	.75	.63	7200
P-1/4-HC	1/4-18	1/4-18	3/4	.422	1.13	.75	.75	7200
P-3/8 X 1/8-HC	3/8-18	1/8-27	7/8	.328	1.03	.88	.63	7200
P-3/8 X 1/4-HC	3/8-18	1/4-18	7/8	.422	1.13	.88	.75	7200
P-3/8-HC	3/8-18	3/8-18	7/8	.563	1.13	.88	.88	7200
P-1/2 X 1/8-HC	1/2-14	1/8-27	1 1/8	.328	1.06	1.13	.63	6000
P-1/2 X 3/8-HC	1/2-14	1/4-18	1 1/8	.422	1.38	1.13	.75	6000
P-1/2 X 1/4-HC	1/2-14	3/8-18	1 1/8	.563	1.50	1.13	.88	6000
P-1/2-HC	1/2-14	1/2-14	1 1/8	.688	1.50	1.13	1.13	6000
P-3/4 X 1/4-HC	3/4-14	1/4-18	1 3/8	.422	1.55	1.36	.75	4800
P-3/4 X 1/2-HC	3/4-14	1/2-14	1 3/8	.688	1.88	1.36	1.13	4800
P-3/4-HC	3/4-14	3/4-14	1 3/8	.891	1.53	1.38	1.38	4800
P-1-HC	1-11 1/2	1-11 1/2	1 5/8	1.125	1.89	1.63	1.63	3600
P-1 X 1/2-HC	1-11 1/2	1/2-14	1 5/8	.688	1.77	1.63	1.13	3600
P-1 X 3/4-HC	1-11 1/2	3/4-14	1 5/8	.891	1.77	1.63	1.38	3600
P-1 1/4-HC	1 1/4-11 1/2	1 1/4-11 1/2	2	1.469	1.93	2.00	2.00	3000
P-1 1/4 X 1-HC	1 1/4-11 1/2	1-11 1/2	2	1.125	1.93	2.00	1.63	3000
P-1 1/2-HC	1 1/2-11 1/2	1 1/2-11 1/2	2 3/8	1.703	1.94	2.38	2.38	2400
P-1 1/2 X 1 1/4-HC	1 1/2-11 1/2	1 1/4-11 1/2	2 3/8	1.469	1.93	2.37	2.37	2400
P-2-HC	2-11 1/2	2-11 1/2	2 7/8	2.188	1.96	2.88	2.88	2400

Long Pipe Nipple • Male Pipe Thread/Male Pipe Thread

Tube Fitting Part #	PT Port Thread NPTF	C Hex	D Drill	L	LL After Assy.	Dynamic Pressure Rating
P-1/8-LHN X 1.5	1/8-27	7/16	.188	1.50	1.03	7200
P-1/8-LHN X 2.0	1/8-27	7/16	.188	2.00	1.53	7200
P-1/8-LHN X 2.5	1/8-27	7/16	.188	2.50	2.03	7200
P-1/8-LHN X 3.0	1/8-27	7/16	.188	3.00	2.53	7200
P-1/4-LHN X 1.5	1/4-18	5/8	.281	1.50	.82	7200
P-1/4-LHN X 2.0	1/4-18	5/8	.281	2.00	1.32	7200
P-1/4-LHN X 2.5	1/4-18	5/8	.281	2.50	1.82	7200
P-1/4-LHN X 3.0	1/4-18	5/8	.281	3.00	2.32	7200
P-1/4-LHN X 4.0	1/4-18	5/8	.281	4.00	3.32	7200
P-3/8-LHN X 2.0	3/8-18	3/4	.406	2.00	1.30	7200
P-3/8-LHN X 3.0	3/8-18	3/4	.406	3.00	2.30	7200
P-3/8-LHN X 3.5	3/8-18	3/4	.406	3.50	2.80	7200
P-3/8-LHN X 4.0	3/8-18	3/4	.406	4.00	3.30	7200
P-1/2-LHN X 2.0	1/2-14	7/8	.531	2.00	1.07	7200
P-1/2-LHN X 2.5	1/2-14	7/8	.531	2.50	1.57	7200
P-1/2-LHN X 3.0	1/2-14	7/8	.531	3.00	2.07	7200
P-1/2-LHN X 4.0	1/2-14	7/8	.531	4.00	3.07	7200
P-1/2-LHN X 6.0	1/2-14	7/8	.531	6.00	5.07	7200
P-3/4-LHN X 3.00	3/4-14	1 1/8	.719	3.00	2.04	7200
P-1-LHN X 3.00	1-11 1/2	1 3/8	.938	3.00	1.86	7200

P-LHN

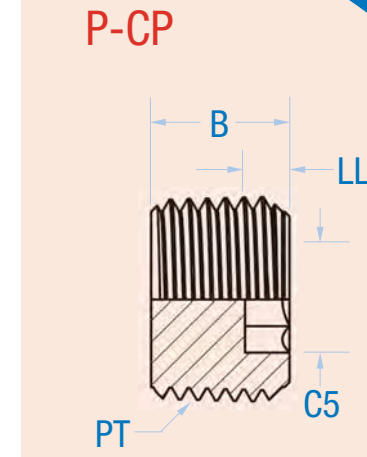
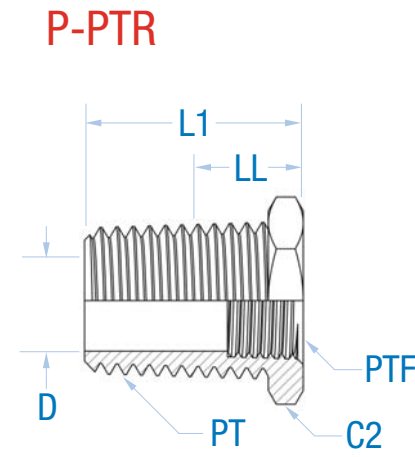
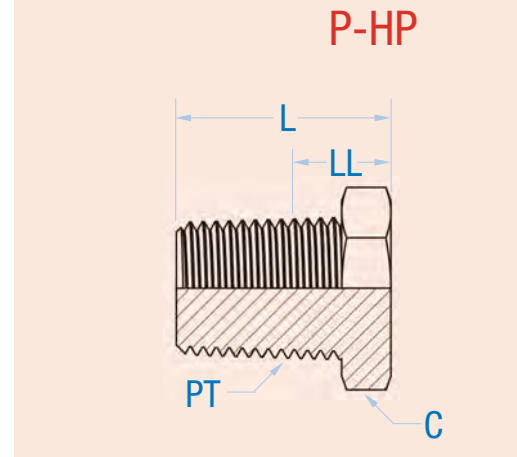
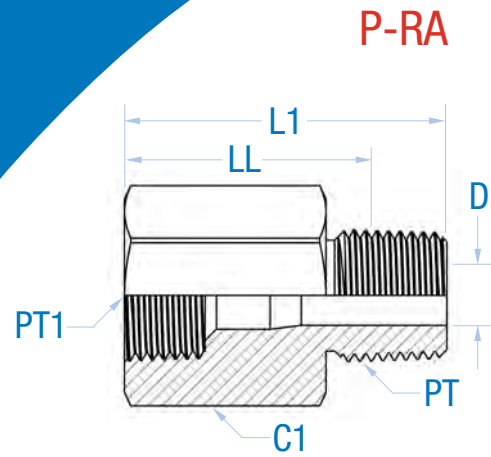
3474

P-HN

Hex Nipple X Hollow Hex Plug • Male Pipe Thread

5404
SAE 140137

Tube Fitting Part #	PT Port Thread NPTF	PT1 Port THD NPTF	C Hex	D Drill	D1 Drill	L	LL After Assy.	Dynamic Pressure Rtg
P-1/8-HN	1/8-27	1/8-27	7/16	.188	.188	1.06	.59	7200
P-1/4 X 1/8-HN	1/4-18	1/8-27	5/8	.281	.188	1.25	.68	7200
P-1/4-HN	1/4-18	1/4-18	5/8	.281	.281	1.45	.77	7200
P-3/8 X 1/8-HN	3/8-18	1/8-27	3/4	.406	.188	1.45	.87	7200
P-3/8 X 1/4-HN	3/8-18	1/4-18	3/4	.406	.281	1.45	.76	7200
P-3/8-HN	3/8-18	3/8-18	3/4	.406	.406	1.45	.75	7200
P-1/2 X 1/8-HN	1/2-14	3/8-14	7/8	.406	.188	1.45	.87	7200
P-1/2 X 3/8-HN	1/2-14	3/8-18	7/8	.531	.406	1.70	.89	7200
P-1/2 X 1/4-HN	1/2-14	1/4-18	7/8	.531	.281	1.70	.90	7200
P-1/2-HN	1/2-14	1/2-14	7/8	.531	.531	1.89	.96	7200
P-3/4 X 1/4-HN	3/4-14	1/4-18	1 1/8	.719	.281	1.78	.96	7200
P-3/4 X 3/8-HN	3/4-14	3/8-14	1 1/8	.719	.406	1.78	.95	7200
P-3/4 X 1/2-HN	3/4-14	1/2-14	1 1/8	.719	.531	1.96	.84	7200
P-3/4-HN	3/4-14	3/4-14	1 1/8	.719	.719	1.96	.70	7200
P-1-HN	1-11 1/2	1-11 1/2	1 3/8	.938	.938	2.34	1.19	7200
P-1 X 1/4-HN	1-11 1/2	1/4-14	1 3/8	.938	.281	1.96	1.05	7200
P-1 X 3/8-HN	1-11 1/2	3/8-14	1 3/8	.938	.406	1.96	1.04	7200
P-1 X 1/2-HN	1-11 1/2	1/2-14	1 3/8	.938	.531	2.09	1.06	7200
P-1 X 3/4-HN	1-11 1/2	3/4-14	1 3/8	.719	.719	2.09	1.04	7200
P-1 1/4 X 1-HN	1 1/4-11 1/2	1-11 1/2	1 3/4	1.250	.938	2.45	1.28	6000
P-1 1/4-HN	1 1/4-11 1/2	1 1/4-11 1/2	1 3/4	1.250	1.250	2.48	1.29	6000
P-1 1/2-HN	1 1/2-11 1/2	1 1/2-11 1/2	2	1.500	1.500	2.61	1.42	3600
P-1 1/2 X 1-HN	1 1/2-11 1/2	1-11 1/2	2	1.500	.938	2.55	1.38	3600
P-2-HN	2-11 1/2	2-11 1/2	2 1/2	1.938	1.938	2.83	1.61	3000
P-2 X 1 1/2-HN	2-11 1/2	1 1/2-11 1/2	2 1/2	1.500	1.500	2.79	1.58	3000



P-RA

Reducing Adapter • Female Pipe Thread/Male Pipe Thread

5405
SAE 140139

Tube Fitting Part #	PT Port Thread NPTF	PT1 Port THD NPTF	C1 Hex	D Drill	L1	LL	Dynamic Pressure Rtg
P-1/8-RA	1/8-27	1/8-27	5/8	.188	1.03	.80	7200
P-1/4 X 1/8-RA	1/8-27	1/4-18	3/4	.188	1.20	.97	7200
P-1/4-RA	1/4-18	1/4-18	3/4	.281	1.39	1.05	7200
P-3/8 X 1/8-RA	1/8-27	3/8-18	7/8	.188	1.25	1.02	7200
P-3/8 X 1/4-RA	1/4-18	3/8-18	7/8	.281	1.44	1.10	7200
P-3/8-RA	3/8-18	3/8-18	7/8	.406	1.44	1.09	7200
P-1/2 X 1/8-RA	1/8-27	1/2-14	1 1/8	.188	1.50	1.27	6000
P-1/2 X 1/4-RA	1/4-18	1/2-14	1 1/8	.281	1.69	1.35	6000
P-1/2 X 3/8-RA	3/8-18	1/2-14	1 1/8	.406	1.69	1.34	6000
P-1/2-RA	1/2-14	1/2-14	1 1/8	.531	1.69	1.23	6000
P-3/4 X 1/4-RA	1/4-18	3/4-14	1 3/8	.281	1.75	1.41	4800
P-3/4 X 3/8-RA	3/8-18	3/4-14	1 3/8	.406	1.75	1.40	4800
P-3/4 X 1/2-RA	1/2-14	3/4-14	1 3/8	.531	1.94	1.48	4800
P-1-RA	1-11 1/2	1-11 1/2	1 5/8	.938	2.37	1.80	3600
P-1 X 1/4-RA	1/4-18	1-11 1/2	1 5/8	.281	2.01	1.67	3600
P-1 X 1/2-RA	1/2-14	1-11 1/2	1 5/8	.531	2.19	1.73	3600
P-1 X 3/4-RA	3/4-14	1-11 1/2	1 5/8	.719	2.19	1.71	3600
P-1 1/4-RA	1 1/4-11 1/2	1 1/4-11 1/2	2	1.250	2.50	1.91	3000
P-1 1/4 X 1-RA	1-11 1/2	1 1/4-11 1/2	2	.938	2.47	1.90	3000
P-1 1/2 X 1-RA	1-11 1/2	1 1/2-11 1/2	2 3/8	0.938	2.47	1.90	2400
P-2-RA	2-11 1/2	2-11 1/2	2 7/8	1.938	2.66	2.06	2400

P-HP

Hex Head Plug • Male Pipe Thread

5406-P
SAE 130109E

Tube Fitting Part #	PT Port THD NPTF	C Hex	L	LL	Dynamic Pressure Rating
P-1/8-HP	1/8-27	7/16	.560	.330	7200
P-1/4-HP	1/4-18	9/16	.750	.410	7200
P-3/8-HP	3/8-18	11/16	.780	.430	7200
P-1/2-HP	1/2-14	7/8	.970	.510	7200
P-3/4-HP	3/4-14	1 1/16	1.060	.580	7200
P-1-HP	1-11 1/2	1 3/8	1.250	.680	7200
P-1 1/4-HP	1 1/4-11 1/2	1 3/4	1.410	.410	6000
P-1 1/2-HP	1 1/2-11 1/2	2	1.500	.860	3600
P-2-HP	2-11 1/2	2 1/2	1.690	1.080	3000

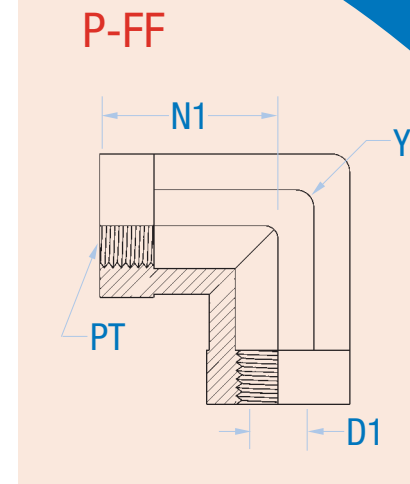
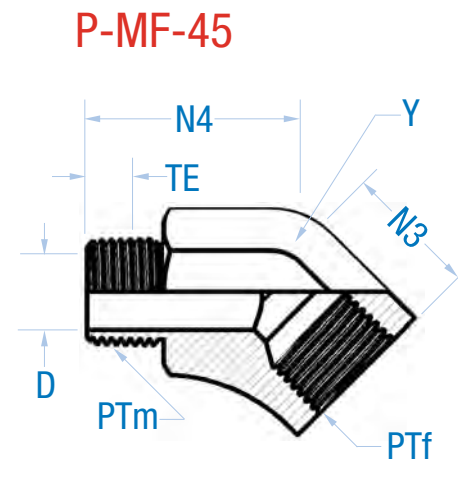
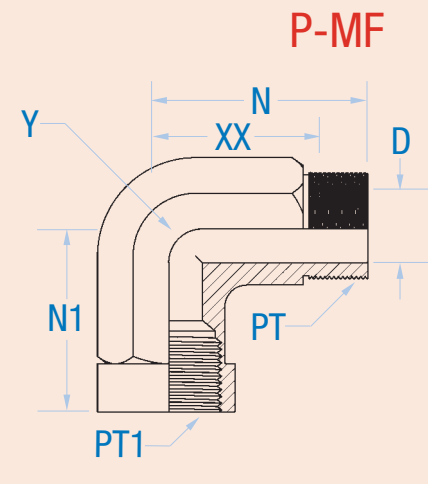
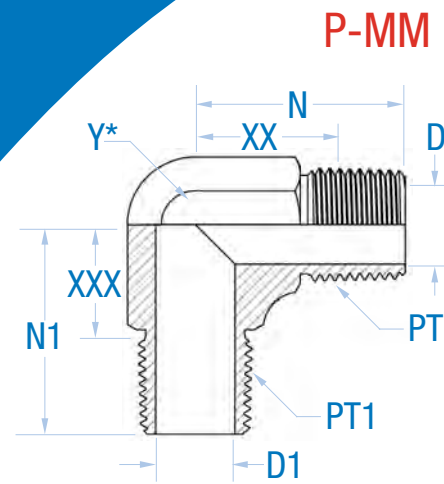
P-PTR

Pipe Thread Reducer • Male Pipe Thread/Female Pipe Thread

5406
SAE 140140

Tube Fitting Part #	PT Port Thread NPTF	PTF Port THD NPTF	C2 Hex	Ref D Drill	L1	LL	Dynamic Pressure Rtg
P-1/4 X 1/8-PTR	1/4-18	1/8-27	5/8	.328	.86	.52	7200
P-3/8 X 1/8-PTR	3/8-18	1/8-27	3/4	.328	.86	.51	7200
P-3/8 X 1/4-PTR	3/8-18	1/4-18	3/4	.422	.86	.51	7200
P-1/2 X 1/8-PTR	1/2-14	1/8-27	7/8	.328	1.11	.65	6000
P-1/2 X 1/4-PTR	1/2-14	1/4-18	7/8	.422	1.11	.65	6000
P-1/2 X 3/8-PTR	1/2-14	3/8-18	7/8	.563	1.11	.65	6000
P-3/4 X 1/8-PTR	3/4-14	1/8-27	1 1/8	.328	1.17	.69	4800
P-3/4 X 1/4-PTR	3/4-14	1/4-18	1 1/8	.422	1.17	.69	4800
P-3/4 X 3/8-PTR	3/4-14	3/8-18	1 1/8	.563	1.17	.69	4800
P-3/4 X 1/2-PTR	3/4-14	1/2-14	1 1/8	.688	1.17	.69	4800
P-1 X 1/8-PTR	1-11 1/2	1/8-27	1 3/8	.328	1.36	.79	4800
P-1 X 3/8-PTR	1-11 1/2	3/8-18	1 3/8	.563	1.36	.79	3600
P-1 X 1/2-PTR	1-11 1/2	1/2-14	1 3/8	.688	1.36	.79	3600
P-1 X 3/4-PTR	1-11 1/2	3/4-14	1 3/8	.891	1.36	.79	3600
P-1 1/4 X 1/4-PTR	1 1/4-11 1/2	1/4-18	1 3/4	.328	1.47	.53	3600
P-1 1/4 X 3/8-PTR	1 1/4-11 1/2	3/8-18	1 3/4	.563	1.47	.87	3000
P-1 1/4 X 1/2-PTR	1 1/4-11 1/2	1/2-14	1 3/4	.688	1.47	.87	3000
P-1 1/4 X 3/4-PTR	1 1/4-11 1/2	3/4-14	1 3/4	.891	1.47	.88	3000
P-1 1/4 X 1-PTR	1 1/4-11 1/2	1-11 1/2	1 3/4	1.125	1.47	.88	3000
P-1 1/2 X 1/4-PTR	1 1/2-11 1/2	1/4-18	2	.328	1.52	.92	2400
P-1 1/2 X 3/8-PTR	1 1/2-11 1/2	3/8-18	2	.563	1.58	.98	2400
P-1 1/2 X 3/4-PTR	1 1/2-11 1/2	3/4-14	2	.891	1.58	.98	2400
P-1 1/2 X 1-PTR	1 1/2-11 1/2	1-11 1/2	2	1.125	1.58	.99	2400
P-1 1/2 X 1 1/4-PTR	1 1/2-11 1/2	1 1/4-11 1/2	2	1.469	1.58	.99	2400
P-2 X 1/2-PTR	2-11 1/2	1/2-14	2 1/2	.688	1.75	1.14	2400
P-2 X 3/4-PTR	2-11 1/2	3/4-14	2 1/2	.891	1.75	1.14	2400
P-2 X 1-PTR	2-11 1/2	1-11 1/2	2 1/2	1.125	1.75	1.14	2400
P-2 X 1 1/4-PTR	2-11 1/2	1 1/4-11 1/2	2 1/2	1.469	1.75	1.14	2400
P-2 X 1 1/2-PTR	2-11 1/2	1 1/2-11 1/2	2 1/2	1.719	1.75	1.14	2400

C5 - ACROSS INTERNAL HEX FLATS



P-MM

Male Pipe Elbow

5500
SAE 140237

Part #	PT NPTF	PT1 NPTF	D DRILL	D1 DRILL	N	N1	XX	XXX	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/8-MM	1/8-27	1/8-27	.187	.187	.78	.78	.55	.55	7/16	6000
P-1/4-MM	1/4-18	1/4-18	.281	.281	1.09	1.09	.75	.75	9/16	6000
P-3/8-MM	3/8-18	3/8-18	.406	.406	1.22	1.22	.87	.87	3/4	6000
P-3/8 X 1/4-MM	3/8-18	1/4-18	.406	.281	1.22	1.22	.87	.87	3/4	6000
P-1/2-MM	1/2-14	1/2-14	.531	.531	1.47	1.47	1.01	1.01	7/8	6000
P-1/2 X 3/8-MM	1/2-14	3/8-18	.531	.406	1.47	1.28	1.01	.82	7/8	6000
P-3/4-MM	3/4-14	3/4-14	.719	.719	1.59	1.59	1.11	1.11	1 1/16	4000
P-3/4 X 1/2-MM	3/4-14	1/2-14	.719	.531	1.59	1.47	1.11	.99	1 1/16	4000
P-1-MM	1-11 1/2	1-11 1/2	.938	.938	1.97	1.97	1.40	1.40	1 5/8	3000
P-1 X 3/4-MM	1-11 1/2	3/4-14	.938	.719	1.97	1.78	1.40	1.30	1 5/16	3000
P-1 1/4-MM	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	2.22	2.22	1.63	1.63	1 7/8	2500
P-1 1/2-MM	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	2.34	2.34	1.75	1.75	1 7/8	2500

P-MF-45

45 Street Elbow

5503
SAE 140339

Part #	PTm NPTF	PTf NPTF	D DRILL	N3	N4	TE	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/8-MF-45	1/8-27	1/8-27	.188	.47	.72	.23	9/16	5000
P-1/4-MF-45	1/4-18	1/4-18	.281	.63	1.05	.34	3/4	5000
P-3/8-MF-45	3/8-18	3/8-18	.406	.72	1.06	.35	7/8	4500
P-1/2-MF-45	1/2-14	1/2-14	.531	.91	1.34	.45	1 1/16	3000
P-3/4-MF-45	3/4-14	3/4-14	.719	.97	1.38	.48	1 5/16	3000
P-1-MF-45	1-11 1/2	1-11 1/2	.938	1.13	1.72	.57	1 5/8	1750
P-1 1/4-MF-45	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.63	1.80	.59	1 7/8	1500

P-MF

Street Elbow

5502
SAE 140239

Part #	PT NPTF	PT1 NPTF	D DRILL	N	N1	XX	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/8-MF	1/8-27	1/8-27	.188	0.78	0.66	0.55	9/16	5000
P-1/8 X 1/4-MF	1/8-27	1/4-18	.188	0.88	0.88	0.65	9/16	5000
P-1/4-MF	1/4-18	1/4-18	.281	1.09	0.88	0.75	3/4	5000
P-1/4 X 1/8-MF	1/4-18	1/8-27	.281	1.09	0.66	0.75	9/16	5000
P-1/4 X 1/2-MF	1/4-18	1/2-14	.281	1.28	1.23	0.89	1 1/16	3000
P-1/4 X 3/8-MF	1/4-18	3/8-18	.281	1.22	1.01	0.87	7/8	4500
P-3/8-MF	3/8-18	3/8-18	.406	1.22	1.02	0.87	7/8	4500
P-3/8 X 1/4-MF	3/8-18	1/4-18	.406	1.22	0.88	0.87	3/4	5000
P-3/8 X 1/2-MF	3/8-18	1/2-14	.406	1.28	1.23	0.93	1 1/16	3000
P-1/2-MF	1/2-14	1/2-14	.531	1.47	1.23	1.01	1 1/16	3000
P-1/2 X 3/8-MF	1/2-14	3/8-18	.531	1.48	1.25	1.02	7/8	4500
P-1/2 X 3/4-MF	1/2-14	3/4-14	.531	1.59	1.36	1.13	1 5/16	3000
P-3/4-MF	3/4-14	3/4-14	.719	1.59	1.36	1.11	1 5/16	3000
P-3/4 X 1/2-MF	3/4-14	1/2-14	.719	1.59	1.23	1.11	1 1/16	3000
P-1-MF	1-11 1/2	1-11 1/2	.938	1.97	1.63	1.40	1 5/8	1750
P- 1 1/4-MF	1 1/4-11 1/2	1 1/4-11 1/2	1.250	2.38	1.70	1.79	1 7/8	3000
P-1 1/2-MF	1 1/2-11 1/2	1 1/2-11 1/2	1.500	2.64	2.08	2.05	2 1/2	3000

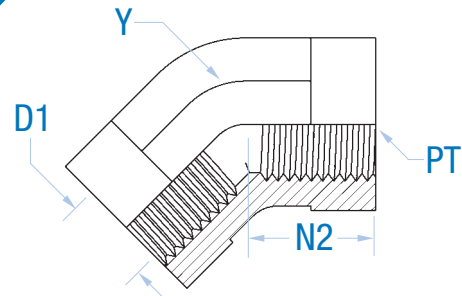
Female Pipe Elbow • Female Pipe Thread/Female Pipe Thread

5504
SAE 140238

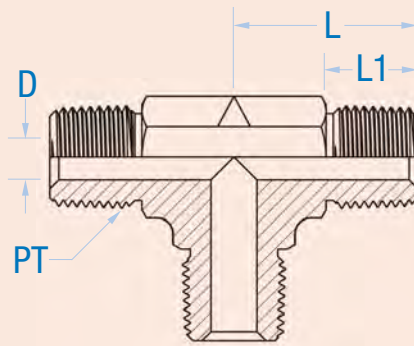
Tube Fitting Part #	PT Port THD NPTF	Ref D1 Drill	N1	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/8-FF	1/8-27	.328	.66	9/16	5000
P-1/4-FF	1/4-18	.422	.88	3/4	5000
P-3/8-FF	3/8-18	.563	1.02	7/8	4500
P-1/2-FF	1/2-14	.688	1.23	1 1/16	3000
P-3/4-FF	3/4-14	.891	1.36	1 5/16	3000
P-1-FF	1-11 1/2	1.125	1.62	1 5/8	1750
P-1 1/4-FF	1 1/4-11 1/2	1.469	1.70	1 7/8	1500
P-1 1/2-FF	1 1/2-11 1/2	1.703	2.08	2 1/2	1500



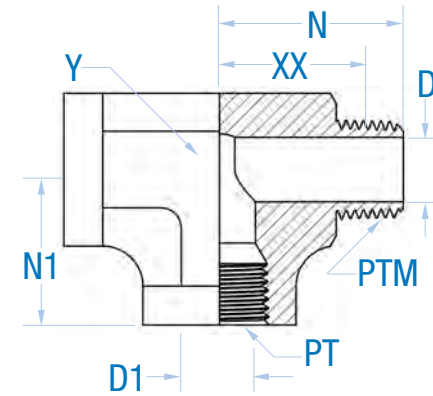
P-FF-45



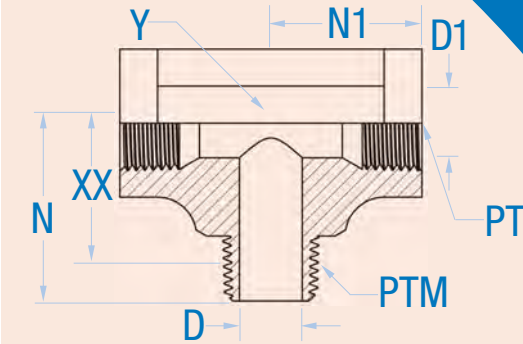
P-MMM



P-FMF



P-FFM



P-FF-45

Female Pipe Elbow-45 • Female Pipe Thread/Female Pipe Thread

5505
SAE 140338

Tube Fitting Part #	PT Port Thread NPTF	Ref D1 Drill	N2	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/4-FF-45	1/4-18	.422	.69	3/4	5000
P-3/8-FF-45	3/8-18	.563	.75	7/8	4500
P-1/2-FF-45	1/2-14	.688	.94	1 1/16	3000
P-3/4-FF-45	3/4-14	.906	1.00	1 5/16	3000
P-1-FF-45	1-11 1/2	1.125	1.19	1 5/8	1750

P-FMF

Male Run Tee • Male Pipe Thread/Female Pipe Thread

5602
SAE 140424

Tube Fitting PART #	PTM Port THD NPTF	PT Port THD NPTF	D Drill	Ref D1 Drill	N	N1	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/8-FMF	1/8-27	1/8-27	.188	.328	.78	.66	0.55	9/16	5000
P-1/4-FMF	1/4-18	1/4-18	.281	.422	1.09	.88	.75	3/4	5000
P-3/8-FMF	3/8-18	3/8-18	.406	.563	1.22	1.02	.87	7/8	4500
P-1/2-FMF	1/2-14	1/2-14	.531	.688	1.47	1.23	1.01	1 1/16	3000
P-3/4-FMF	3/4-14	3/4-14	.719	.891	1.59	1.36	1.11	1 5/16	3000
P-1-FMF	1-11 1/2	1-11 1/2	.938	1.125	1.97	1.63	1.40	1 5/8	1750
P-1 1/4-FMF	1 1/4-11 1/2	1 1/4-11 1/2	1.25	1.469	2.38	1.7	1.11	1.875	1500
P-1 1/2-FMF	1 1/2-11 1/2	1 1/2-11 1/2	1.5	1.719	2.64	2.08	2.05	2.5	1500

P-MMM

Female Pipe Tee • Male Pipe Thread (all three ends)

5600
SAE 140437

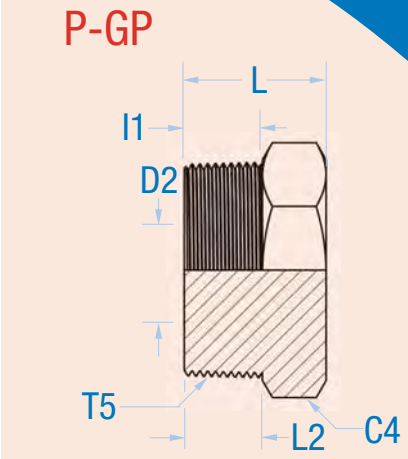
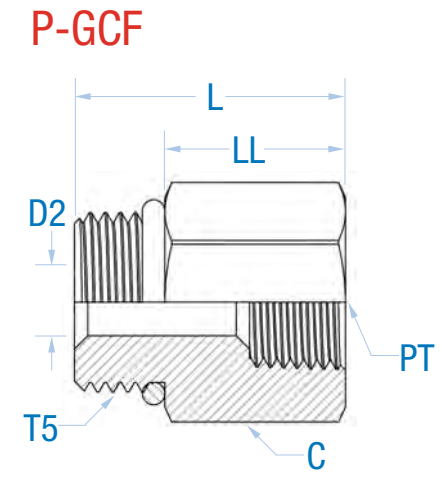
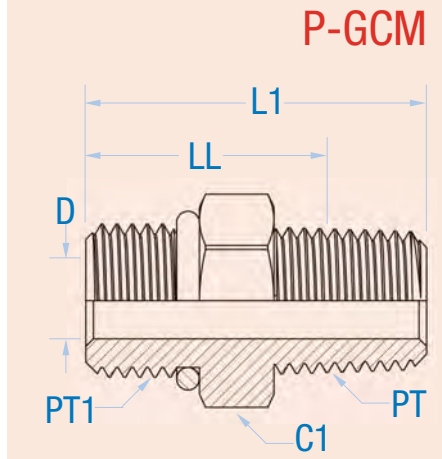
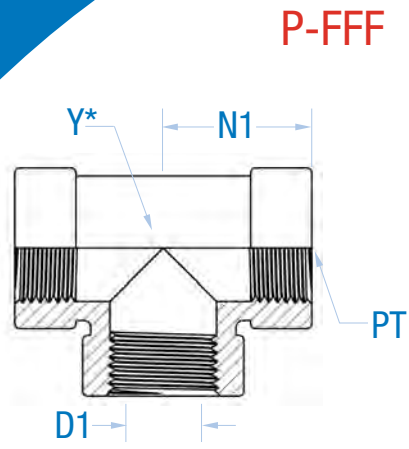
Tube Fitting Part #	PT Port Thread NPTF	D	L	L1	Y Across Wrench Flats	Dynamic Pressure Rating
P-1/8-MMM	1/8-27	.19	.78	.38	7/16	5000
P-1/4-MMM	1/4-18	.28	1.09	.56	9/16	5000
P-3/8-MMM	3/8-18	.41	1.22	.56	3/4	4500
P-1/2-MMM	1/2-14	.53	1.47	.75	7/8	3000
P-3/4-MMM	3/4-14	.72	1.59	.75	1-1/16	3000

P-FFM

Male Branch Tee • Male Pipe Thread/Female Pipe Thread

5604
SAE 140425

Tube Fitting PART #	PTM Port THD NPTF	PT Port THD NPTF	D Drill	Ref D1 Drill	N	N1	XX After Assy.	Y Across Wrench Flats	Dynamic Pressure Rtg
P-1/8-FFM	1/8-27	1/8-27	.188	.328	.78	.66	.55	9/16	5000
P-1/4-FFM	1/4-18	1/4-18	.281	.422	1.09	.88	.75	3/4	5000
P-3/8-FFM	3/8-18	3/8-18	.406	.563	1.22	1.02	.87	7/8	4500
P-1/2-FFM	1/2-14	1/2-14	.531	.688	1.47	1.23	1.01	1 1/16	3000
P-3/4-FFM	3/4-14	3/4-14	.719	.891	1.59	1.36	1.11	1 5/16	3000
P-1-FFM	1-11 1/2	1-11 1/2	.938	1.125	1.97	1.62	1.40	1 5/8	1750



P-FFF

Female Pipe Tee • Female Pipe Thread (all three ends)

5605
SAE 140438

Tube Fitting Part #	PT Port THD NPTF	Ref D1 Drill	N1	Y Across Wrench Flats	Dynamic Pressure Rating
P-1/8-FFF	1/8-27	.312	.66	9/16	5000
P-1/4-FFF	1/4-18	.422	.88	3/4	5000
P-3/8-FFF	3/8-18	.563	1.02	7/8	4500
P-1/2-FFF	1/2-14	.688	1.23	1 1/16	3000
P-3/4-FFF	3/4-14	.906	1.36	1 5/16	3000
P-1-FFF	1-11 1/2	1.125	.162	1 5/8	1750
P-1 1/4-FFF	1 1/4-11 1/2	1.469	1.70	1 7/8	1500
P-1 1/2-FFF	1 1/2-11 1/2	1.719	2.08	2 1/2	1500

P-GCM

Male Pipe Adapter • Straight Thread O-Ring/Male Pipe Thread

6401
SAE 090109B

Tube Fitting Part #	PT Port Thread NPTF	PT1 Port THD NPTF	C1 Hex	D Drill	L1	LL	Dynamic Pressure Rtg
P-4-1/8-GCM	7/16-20	1/8-27	9/16	.172	1.00	.64	6000
P-4-1/4-GCM	7/16-20	1/4-18	9/16	.172	1.20	.81	6000
P-5-1/4-GCM	1/2-20	1/4-18	5/8	.234	1.20	.81	6000
P-6-1/4-GCM	9/16-18	1/4-18	11/16	.297	1.25	.86	6000
P-6-3/8-GCM	9/16-18	3/8-18	11/16	.297	1.34	.95	6000
P-8-3/8-GCM	3/4-16	3/8-18	7/8	.391	1.36	.92	6000
P-8-1/2-GCM	3/4-16	1/2-14	7/8	.391	1.53	1.09	6000
P-10-1/2-GCM	7/8-14	1/2-14	1	.484	1.59	1.09	5400
P-12-3/4-GCM	1 1/16-12	3/4-14	1 1/4	.656	1.80	1.21	4800
P-16-3/4-GCM	1 5/16-12	3/4-14	1 1/2	.719	1.78	1.19	3600
P-16-1-GCM	1 5/16-12	1-11 1/2	1 1/2	.875	1.98	1.39	3600
P-20-1 1/4-GCM	1 5/8-12	1 1/4-11 1/2	1 7/8	1.078	2.02	1.43	3000

P-GCF

Female Pipe Adapter • Straight thread O-Ring/Female Pipe Thread

6405
SAE 140425

Tube Fitting Part #	T5 Port THD UN/UNF-2A	PT Port THD NPTF	C Hex	D2 Drill	L	LL After Assy.	Dynamic Pressure Rating
P-2-1/8-GCF	5/16-24	1/8-27	9/16	.094	.91	.61	7200
P-4-1/8-GCF	7/16-20	1/8-27	9/16	.172	1.00	.64	7200
P-4-1/4-GCF	7/16-20	1/4-18	3/4	.172	1.16	.80	7200
P-5-1/4-GCF	1/2-20	1/4-18	3/4	.234	1.19	.83	7200
P-6-1/4-GCF	9/16-18	1/4-18	3/4	.297	1.16	.77	7200
P-6-3/8-GCF	9/16-18	3/8-18	7/8	.297	1.28	.89	7200
P-6-1/2-GCF	9/16-18	1/2-14	1 1/8	.297	1.53	1.14	7200
P-8-1/8-GCF	3/4-16	1/8-27	7/8	.391	.80	.36	7200
P-8-1/4-GCF	3/4-16	1/4-18	7/8	.391	1.13	.69	7200
P-8-3/8-GCF	3/4-16	3/8-18	7/8	.391	1.28	.84	7200
P-8-1/2-GCF	3/4-16	1/2-14	1 1/8	.391	1.50	1.06	6000
P-10-1/4-GCF	7/8-14	1/4-18	1	.500	.81	.31	6600
P-10-3/8-GCF	7/8-14	3/8-18	1	.500	1.31	.81	6600
P-10-1/2-GCF	7/8-14	1/2-14	1 1/8	.500	1.53	1.03	6000
P-10-3/4-GCF	7/8-14	3/4-14	1 3/8	.500	1.63	1.13	4800
P-12-1/4-GCF	1 1/16-12	1/4-18	1 1/4	.656	1.00	.41	6000
P-12-1/2-GCF	1 1/16-12	1/2-14	1 1/4	.656	1.41	.82	6000
P-12-3/4-GCF	1 1/16-12	3/4-14	1 3/8	.656	1.72	1.13	4800
P-14-1/2-GCF	1 3/16-12	1/2-14	1 3/8	.719	1.06	.47	4800
P-14-3/4-GCF	1 3/16-12	3/4-14	1 3/8	.719	1.69	1.10	4800
P-16-1/2-GCF	1 5/16-12	1/2-14	1 1/2	.844	1.00	.41	4800
P-16-3/4-GCF	1 5/16-12	3/4-14	1 1/2	.844	1.50	.91	4800
P-16-1-GCF	1 5/16-12	1-11 1/2	1 5/8	.875	1.88	1.29	3600
P-20-1-GCF	1 5/8-12	1-11 1/2	1 7/8	1.078	1.00	.41	3600
P-20-1 1/4-GCF	1 5/8-12	1 1/4-11 1/2	2	1.078	1.97	1.38	3000
P-20-1 1/2-GCF	1 5/8-12	1 1/2-11 1/2	2 1/4	1.078	2.16	1.56	2400
P-24-1-GCF	1 7/8-12	1-11 1/2	2 1/8	1.344	1	.41	3000
P-24-1 1/4-GCF	1 7/8-12	1 1/4-11 1/2	2 1/8	1.312	1.94	1.35	3000
P-24-1 1/2-GCF	1 7/8-12	1 1/2-11 1/2	2 1/4	1.344	2	1.41	2400
P-32-2-GCF	2 1/2-12	2-11 1/2	2 7/8	1.781	2.06	1.47	2400

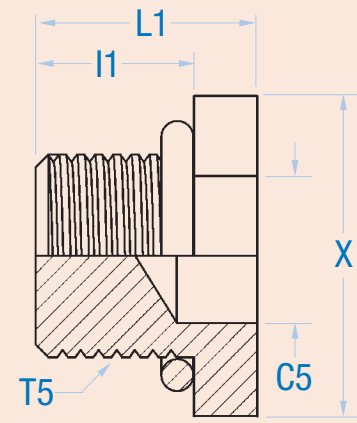
Hex Head Plug • Hex Head/Straight Thread O-Ring

P-GP

6408
SAE 090109A

Tube Fitting Part #	T5 Port THD UN/UNF-2A	C4 Hex	D2 Drill*	I1	L	L2*	Dynamic Pressure Rtg
P-2-GP	5/16-24	7/16	.093	.30	.60	.38	7200
P-3-GP	3/8-24	1/2	.125	.30	.60	.34	7200
P-4-GP	7/16-20	9/16	.203	.36	.67	.41	7200
P-5-GP	1/2-20	5/8	.234	.36	.67	.39	7200
P-6-GP	9/16-18	11/16	.297	.39	.73	.44	7200
P-8-GP	3/4-16	7/8	.422	.44	.80	.44	7200
P-10-GP	7/8-14	1	.500	.50	.93	.47	7200
P-12-GP	1 1/16-12	1 1/4	.656	.59	1.09	.59	7200
P-14-GP	1 3/16-12	1 3/8	.718	.59	1.09	.56	6600
P-16-GP	1 5/16-12	1 1/2	.875	.59	1.12	.50	6600
P-20-GP	1 5/8-12	1 7/8	1.093	.59	1.20	.66	4800
P-24-GP	1 7/8-12	2 1/8	1.344	.59	1.27	.34	3600
P-32-GP	2 1/2-12	2 3/4	1.813	.59	1.43	.56	2400

*D2 DRILL & L2 DRILL DEPTH ARE AN OPTIONAL MANUFACTURING METHOD PER SAE J514



P-CGP

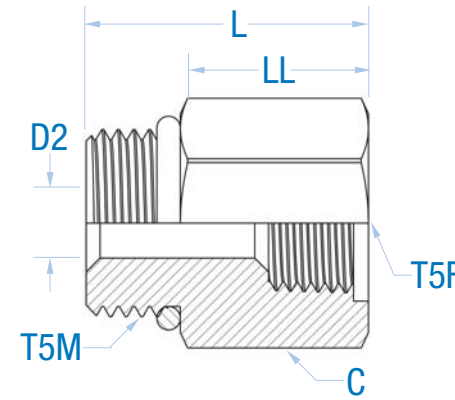
P-CGP

Hollow Hex Plug • Hollow Hex/Straight Thread O-Ring

6408-H
SAE 090109B

Tube Fitting PART #	T5 Port THD UN/UNF-2A	C5 Hex	l1	L1	X Dia.	Dynamic Pressure Rating
P-2-CGP	5/16-24	1/8	.297	.40	.438	7200
P-3-CGP	3/8-24	1/8	.397	.40	.500	7200
P-4-CGP	7/16-20	3/16	.360	.47	.563	7200
P-5-CGP	1/2-20	3/16	.360	.47	.625	7200
P-6-CGP	9/16-18	1/4	.391	.50	.688	7200
P-8-CGP	3/4-16	5/16	.438	.58	.875	7200
P-10-CGP	7/8-14	3/8	.500	.65	1.000	7200
P-12-CGP	1 1/16-12	9/16	.594	.77	1.250	7200
P-14-CGP	1 3/16-12	9/16	.594	.77	1.375	6600
P-16-CGP	1 5/16-12	5/8	.594	.77	1.500	6600
P-20-CGP	1 5/8-12	3/4	.594	.77	1.875	4800
P-24-CGP	1 7/8-12	3/4	.594	.77	2.125	3600

P-GCFS



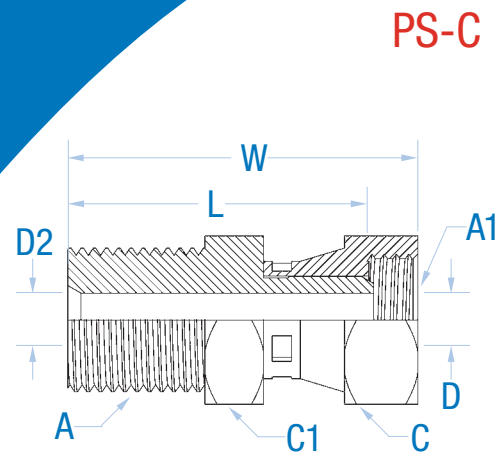
Straight Thread Reducer/Expander
Straight Thread O-Ring/Female Straight Thread O-Ring Port

P-GCFS

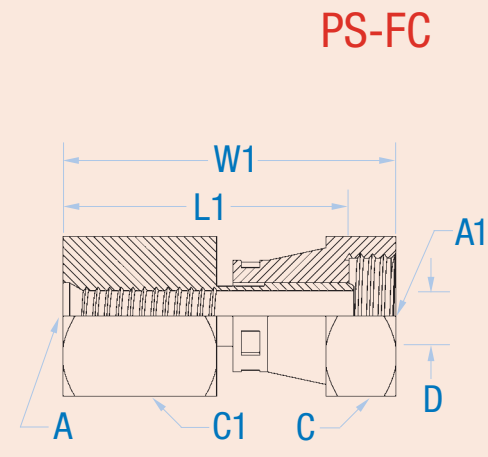
6410

Tube Fitting Part #	T5F	T5M	C Hex	D2 Drill	L	LL After Assy.	Dynamic Pressure Rtg
P-4-4-GCFS	7/16-20	7/16-20	11/16	.172	1.08	.72	5400
P-4-6-GCFS	9/16-18	7/16-20	13/16	.172	1.16	.80	5400
P-6-4-GCFS	7/16-20	9/16-18	11/16	.297	1.03	.64	5400
P-6-8-GCFS	3/4-16	9/16-18	1 1/16	.297	1.38	.99	4800
P-8-6-GCFS	9/16-18	3/4-16	7/8	.438	1.13	.69	5400
P-8-10-GCFS	7/8-14	3/4-16	1 1/8	.391	1.56	1.12	3600
P-10-6-GCFS	9/16-18	7/8-14	1	.484	.81	.31	6000
P-10-8-GCFS	3/4-16	7/8-14	1	.563	1.31	.81	4800
P-10-12-GCFS	1 1/16-12	7/8-14	1 3/8	.484	1.69	1.19	4200
P-12-8-GCFS	3/4-16	1 1/16-12	1 1/4	.625	1.00	.41	5400
P-12-10-GCFS	7/8-14	1 1/16-12	1 1/4	.625	1.53	.94	3600
P-12-16-GCFS	1 5/16-12	1 1/16-12	1 5/8	.625	1.88	1.29	2400
P-16-8-GCFS	3/4-16	1 5/16-12	1 1/2	.750	1.00	.41	6000
P-16-10-GCFS	7/8-14	1 5/16-12	1 1/2	.797	1.00	.41	4200
P-16-12-GCFS	1 1/16-12	1 5/16-12	1 1/2	.750	1.75	1.16	4200
P-16-20-GCFS	1 5/8-12	1 5/16-12	2 1/8	.875	1.97	1.38	3000
P-20-6-GCFS	9/16-18	1 5/8-12	1 7/8	1.063	1.00	.41	3600
P-20-12-GCFS	1 1/16-12	1 5/8-12	1 7/8	1.063	1.00	.41	3600
P-20-16-GCFS	1 5/16-12	1 5/8-12	1 7/8	1.063	1.88	.41	2400
P-20-24-GCFS	1 7/8-12	1 5/8-12	2 1/2	1.63	1.88	1.29	1800
P-24-12-GCFS	1 1/16-12	1 7/8-12	2 1/8	1.250	1.00	.41	2400
P-24-16-GCFS	1 5/16-12	1 7/8-12	2 1/8	1.250	1.00	.41	2400
P-24-20-GCFS	1 5/8-12	1 7/8-12	2 1/8	1.250	1.75	1.16	2400
P-32-24-GCFS	1 7/8-12	2 1/2-12	2 3/4	1.780	1.00	.38	1800

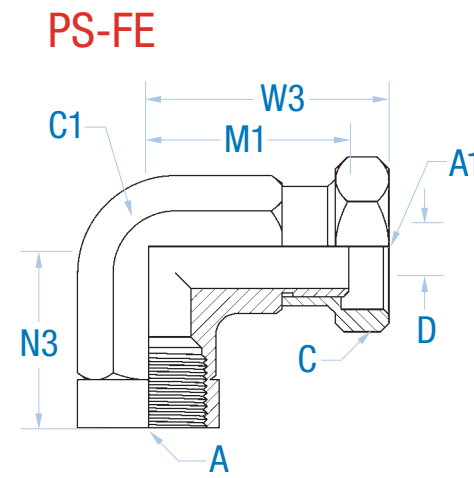




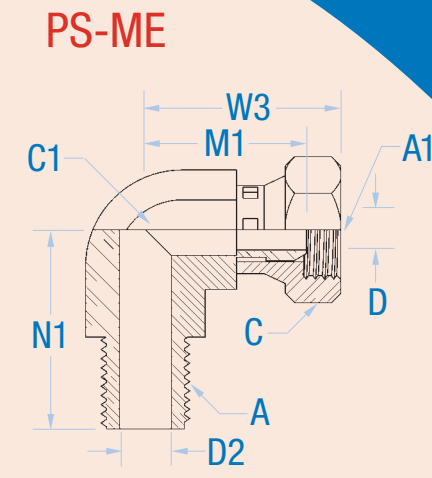
PS-C



PS-FC



PS-FE



PS-ME

PS-C

Male Pipe Adapter • NPSM Swivel / Male Pipe Thread

SAE 140130

Tube Fitting PART #	Pipe Size	A1 Pipe THD NPTF	A Swivel THD NPSM	C Hex	C1 Hex	D Drill	D2 Drill	L	W	Dynamic Pressure Rtg
PS-2-2-C	1/8	1/8-27	1/8-27	9/16	9/16	.156	.188	.94	1.09	6000
PS-2-4-C	1/8	1/4-18	1/4-18	11/16	5/8	.219	.188	1.06	1.24	6000
PS-4-4-C	1/4	1/4-18	1/4-18	11/16	11/16	.219	.281	1.25	1.43	6000
PS-4-6-C	1/4	3/8-18	3/8-18	7/8	13/16	.344	.281	1.25	1.45	6000
PS-4-8-C	1/4	1/2-14	1/2-14	1	15/16	.469	.281	1.44	1.44	6000
PS-6-4-C	3/8	1/4-18	1/4-18	11/16	11/16	.219	.406	1.31	1.49	4800
PS-6-6-C	3/8	3/8-18	3/8-18	7/8	7/8	.344	.406	1.31	1.51	4800
PS-6-8-C	3/8	1/2-14	1/2-14	1	15/16	.469	.406	1.44	1.73	4800
PS-8-6-C	1/2	3/8-18	3/8-18	7/8	7/8	.344	.531	1.50	1.70	4200
PS-8-8-C	1/2	1/2-14	1/2-14	1	1	.469	.531	1.62	1.91	4200
PS-8-12-C	1/2	3/4-14	3/4-14	1 1/4	1 1/4	.641	.531	1.69	2.04	4200
PS-12-8-C	3/4	1/2-14	1/2-14	1	1 1/8	.469	.719	1.62	1.91	2700
PS-12-12-C	3/4	3/4-14	3/4-14	1 1/4	1 1/4	.641	.719	1.69	2.04	2700
PS-12-16-C	3/4	1-11 1/2	1-11 1/2	1 1/2	1 1/2	.844	.719	1.80	2.17	2700
PS-16-12-C	1	3/4-14	3/4-14	1 1/2	1 3/8	.641	.938	1.94	2.29	2400
PS-16-16-C	1	1-11 1/2	1-11 1/2	1 1/2	1 1/2	.844	.938	2.00	2.37	2400
PS-16-20-C	1	1 1/4-11 1/2	1 1/4-11 1/2	1 7/8	1 3/4	1.141	.938	2.00	2.38	2400
PS-20-16-C	1 1/4	1-11 1/2	1-11 1/2	1 1/2	1 7/8	0.844	1.25	2.09	2.46	1950
PS-20-20-C	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 7/8	1 7/8	1.141	1.25	2.09	2.47	1950
PS-24-24-C	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2 1/8	2 1/8	1.359	1.5	2.19	2.61	1950
PS-32-32-C	2	2-11 1/2	2-11 1/2	2 5/8	2 5/8	1.813	1.938	2.37	2.8	1350

PS-FC

Female Pipe Adapter • NPSM Swivel Pipe Thread

SAE 140131

Tube Fitting PART #	Pipe Size	A Pipe THD NPTF	A1 Swivel THD NPSM	C Hex	C1 Hex	D Drill	L1	W1	Dynamic Pressure Rtg
PS-2-2-FC	1/8	1/8-27	1/8-27	9/16	9/16	.156	.87	1.02	6000
PS-4-4-FC	1/4	1/4-18	1/4-18	11/16	11/16	.219	1.25	1.43	6000
PS-6-4-FC	3/8	3/8-18	1/4-18	11/16	7/8	.219	1.31	1.49	4800
PS-6-6-FC	3/8	3/8-18	3/8-18	7/8	7/8	.344	1.31	1.51	4800
PS-8-6-FC	1/2	1/2-14	3/8-18	7/8	1	.344	1.45	1.65	4200
PS-8-8-FC	1/2	1/2-14	1/2-14	1	1	.469	1.50	1.79	4200
PS-12-12-FC	3/4	3/4-14	3/4-14	1 1/4	1 1/4	.641	1.62	1.97	2700
PS-16-16-FC	1	1-11 1/2	1-11 1/2	1 1/2	1 1/2	.844	2.00	2.37	2400
PS-20-20-FC	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 7/8	1 7/8	1.141	2.00	2.38	1950
PS-24-24-FC	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2 1/8	2 1/8	1.359	2.00	2.42	1500
PS-32-32-FC	2	2-11 1/2	2-11 1/2	2 5/8	2 5/8	1.813	2.12	2.55	1350

PS-FE

Female Pipe Elbow • NPSM Swivel / Female Pipe Thread

SAE140231

Tube Fitting PART #	Pipe Size	A1 Pipe THD NPTF	A1 Swivel THD NPSM	C Hex	C1 Hex	D Drill	M1	W3	N3	Dynamic Pressure Rtg
PS-2-2-FE	1/8	1/8-27	1/8-27	9/16	9/16	.156	.80	.95	.66	5000
PS-4-4-FE	1/4	1/4-18	1/4-18	11/16	3/4	.219	.99	1.17	.88	5000
PS-6-6-FE	3/8	3/8-18	3/8-18	7/8	7/8	.344	1.06	1.26	1.02	4000
PS-8-8-FE	1/2	1/2-14	1/2-14	1	1 1/16	.469	1.24	1.53	1.23	3500
PS-12-12-FE	3/4	3/4-14	3/4-14	1 1/4	1 5/16	.641	1.47	1.82	1.36	2250
PS-16-16-FE	1	1-11 1/2	1-11 1/2	1 1/2	1 5/8	.844	1.73	2.10	1.62	2000
PS-20-20-FE	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 7/8	1 7/8	1.141	1.83	2.21	1.70	1625
PS-24-24-FE	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2 1/8	2 1/2	1.359	2.41	2.83	2.08	1250
PS-32-32-FE	2	2-11 1/2	2-11 1/2	2 5/8	2 4/5	1.813	2.57	3	2.39	1125

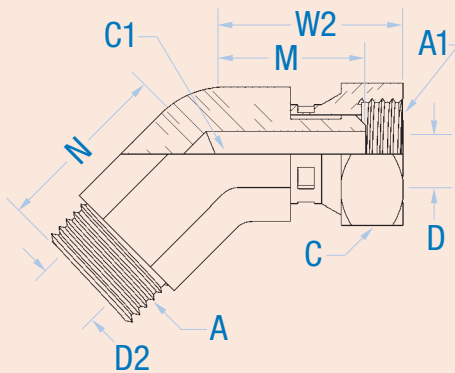
Male Pipe Elbow • NPSM Swivel / Male Pipe Thread

SAE140231

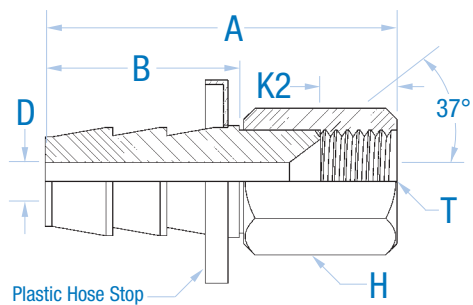
Tube Fitting PART #	Pipe Size	A Pipe THD NPTF	A1 Swivel THD NPSM	C Hex	C1	D Drill	D2 Drill	M1	N1	W3	Dynamic Pressure Rtg
PS-2-2-ME	1/8	1/8-27	1/8-27	9/16	7/16	.156	.188	.70	.72	.85	5000
PS-4-4-ME	1/4	1/4-18	1/4-18	11/16	9/16	.219	.281	.88	1.09	1.06	5000
PS-4-6-ME	1/4	1/4-18	3/8-18	7/8	3/4	.344	.281	.99	1.09	1.28	5000
PS-6-4-ME	3/8	3/8-18	1/4-18	11/16	3/4	.219	.406	.99	1.22	1.17	4000
PS-6-6-ME	3/8	3/8-18	3/8-18	7/8	3/4	.344	.406	.99	1.22	1.28	4000
PS-6-8-ME	3/8	3/8-18	1/2-14	1	3/4	.469	.406	1.04	1.22	1.33	4000
PS-8-6-ME	1/2	1/2-14	3/8-18	7/8	7/8	.344	.531	1.06	1.47	1.35	3500
PS-8-8-ME	1/2	1/2-14	1/2-14	1	7/8	.469	.531	1.11	1.47	1.4	3500
PS-8-12-ME	1/2	1/2-14	3/4-14	1 1/4	1 1/16	.641	.531	1.30	1.47	1.65	3500
PS-12-6-ME	3/4	3/4-14	3/8-18	7/8	1 1/16	.344	.719	1.19	1.59	1.48	2250
PS-12-8-ME	3/4	3/4-14	1/2-14	1	1 1/16	.469	.719	1.24	1.59	1.53	2250
PS-12-12-ME	3/4	3/4-14	3/4-14	1 1/4	1 1/16	.641	.719	1.30	1.59	1.65	2250
PS-16-12-ME	1	1-11 1/2	3/4-14	1 1/2	1 5/16	.641	.938	1.47	1.97	1.82	2000
PS-16-16-ME	1	1-11 1/2	1-11 1/2	1 1/2	1 5/16	.844	.938	1.54	1.97	1.91	2000
PS-20-20-ME	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 7/8	1 5/8	1.141	1.25	1.73	2.38	2.11	1625
PS-24-24-ME	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2 1/8	1 7/8	1.359	1.5	1.89	2.64	2.31	1250
PS-32-32-ME	2	2-11 1/2	2-11 1/2	2 5/8	2 1/2	1.813	1.938	2.27	3	2.7	1125

C1 HEX ACROSS THE FLATS

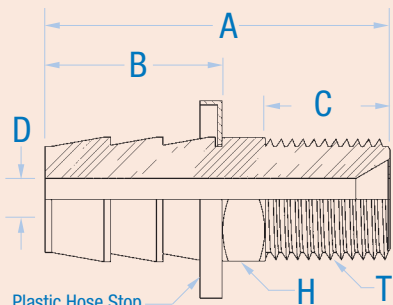
PS-ME-45



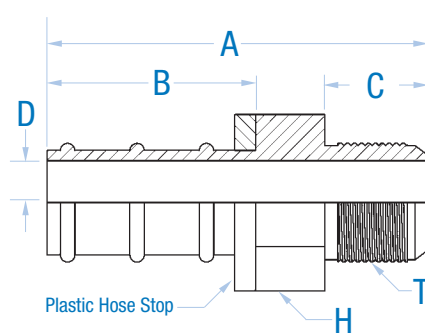
PL-JS



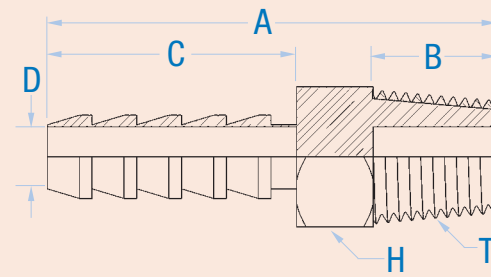
PL-MP



PL-TX



M2HC



Pipe Fittings



PS-ME-45

Male Pipe Elbow • NPSM Swivel/Male Pipe Thread

SAE140330

Tube Fitting PART #	Pipe Size	A Pipe THD NPTF	A1 Swivel THD NPSM	C Hex	C1	D Drill	D2 Drill	M	N	W2	Dynamic Pressure Rtg
PS-2-2-ME-45	1/8	1/8-27	1/8-27	9/16	7/16	.156	.188	.62	.52	.77	5000
PS-4-4-ME-45	1/4	1/4-18	1/4-18	11/16	9/16	.219	.281	.73	.86	.91	5000
PS-6-6-ME-45	3/8	3/8-18	3/8-18	7/8	3/4	.344	.406	.81	.95	1.10	4000
PS-8-6-ME-45	1/2	1/2-14	3/8-18	7/8	7/8	.344	.531	.81	1.17	1.10	3500
PS-8-8-ME-45	1/2	1/2-14	1/2-14	1	7/8	.469	.531	.88	1.17	1.17	3500
PS-8-12-ME-45	1/2	1/2-14	3/4-14	1 1/4	1 1/16	.641	.531	.87	1.20	1.22	3500
PS-12-8-ME-45	3/4	3/4-14	1/2-14	1	1 1/16	.469	.719	.94	1.20	1.23	2250
PS-12-12-ME-45	3/4	3/4-14	3/4-14	1 1/4	1 1/16	.641	.719	1.02	1.20	1.37	2250
PS-16-12-ME-45	1	1-11 1/2	3/4-14	1 1/4	1 5/16	.641	.938	1.12	1.48	1.47	2000
PS-16-16-ME-45	1	1-11 1/2	1-11 1/2	1 1/2	1 5/16	.844	.938	1.15	1.48	1.52	2000
PS-20-20-ME-45	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 7/8	1 5/8	1.141	1.250	1.23	1.67	1.61	1625
PS-24-24-ME-45	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2 1/8	1 7/8	1.359	1.500	1.35	1.77	1.77	1250
PS-32-32-ME-45	2	2-11 1/2	2-11 1/2	2 5/8	2 1/2	1.813	1.938	1.46	2.11	1.89	1125

PL-TX

PART #	Tube	Hose	T Thread	A	B	C	D	Hex
PL-4-4-TX	1/4	1/4	7/16-20	1.57	.81	.550	.17	1/2
PL-6-6-TX	3/8	3/8	9/16-18	1.78	.95	.556	.30	5/8
PL-8-8-TX	1/2	1/2	3/4-16	2.06	.95	.657	.39	13/16

PL-JS

Push-On Hose Barb • Push On Hose Barb End/Female JIC Swivel End

SAE140330

Tube Fitting PART #	Tube O.D.	Hose ID	T Thread	A	B	D	K2	H
PL-4-4-JS	1/4	1/4	7/16 x 20	1.56	.81	.17	.34	9/16
PL-6-6-JS	3/8	3/8	9/16 x 18	1.81	.95	.30	.38	11/16
PL-8-6-JS	1/2	3/8	3/4 x 16	1.88	.95	.30	.42	11/16
PL-8-8-JS	1/2	1/2	3/4 x 16	1.88	.95	.39	.42	7/8
PL-10-10-JS	5/8	5/8	7/8 x 14	2.58	1.50	.48	.50	7/8
PL-12-12-JS	3/4	3/4	1-1/16 x 12	2.65	1.50	.61	.58	1-1/4
PL-16-16-JS	1	1	1-5/16 x 12	2.77	1.50	.84	.59	1-1/2

M2HC

Hose Barb Connector • Hose Barb End/Male Pipe End

Tube Fitting PART #	Pipe Size T-THRD	Hose ID	Barb O.D. Max	A	B	C	D	H
1/8M2HC1/8	1/8 x 27	1/8	.160	1.00	.39	.41	.078	7/16
1/4M2HC1/8	1/8 x 27	1/4	.303	1.41	.39	.78	.188	7/16
1/8M2HC1/4	1/4 x 18	1/8	.160	1.22	.57	.41	.078	9/16
1/4M2HC1/4	1/4 x 18	1/4	.303	1.59	.57	.78	.188	9/16
3/8M2HC1/4	1/4 x 18	3/8	.450	1.71	.57	.88	.281	9/16
1/2M2HC1/4	1/4 x 18	1/2	.600	1.82	.57	.94	.281	5/8
1/4M2HC3/8	3/8 x 18	1/4	.303	1.62	.57	.78	.188	11/16
3/8M2HC3/8	3/8 x 18	3/8	.450	1.72	.57	.88	.297	11/16
1/2M2HC3/8	3/8 x 18	1/2	.600	1.81	.57	.94	.375	11/16
1/4M2HC1/2	1/2 x 14	1/4	.303	1.84	.76	.78	.188	7/8
3/8M2HC1/2	1/2 x 14	3/8	.450	1.85	.76	.88	.297	7/8
1/2M2HC1/2	1/2 x 14	1/2	.600	2.00	.76	.94	.375	7/8
5/8M2HC1/2	1/2 x 14	5/8	.725	2.00	.76	.94	.500	7/8
3/4M2HC1/2	1/2 x 14	3/4	.900	2.09	.76	1.03	.531	1-1/16
1/2M2HC3/4	3/4 x 14	1/2	.600	2.04	.76	.94	.375	1-1/16
3/4M2HC3/4	3/4 x 14	3/4	.900	2.13	.76	1.03	.625	1-1/16
1M2HC3/4	3/4 x 14	1	1.173	2.31	.76	1.13	.625	1-3/16
3/4M2HC1	1 x 11-1/2	3/4	.900	2.40	.95	1.03	.625	1-3/8
1M2HC1	1 x 11-1/2	1	1.173	2.50	.95	1.13	.780	1-3/8

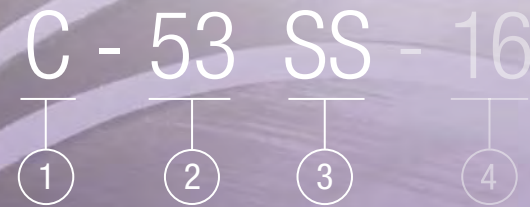
PL-MP

Push-On Hose Barb • Push On Hose Barb End/Male Pipe End

Tube Fitting PART #	Pipe Size T-THRD	Hose ID	A	B	C	D	H
PL-2-4-MP	1/8 x 27	1/4	1.39	.81	.39	.19	7/16
PL-4-4-MP	1/4 x 18	1/4	1.58	.81	.57	.19	9/16
PL-4-6-MP	1/4 x 18	3/8	1.78	.95	.57	.28	9/16
PL-6-4-MP	3/8 x 18	1/4	1.64	.81	.57	.19	11/16
PL-6-6-MP	3/8 x 18	3/8	1.78	.95	.57	.30	11/16
PL-6-8-MP	3/8 x 18	1/2	1.93	.95	.57	.39	11/16
PL-6-10-MP	3/8 x 18	5/8	2.39	1.5	.57	.48	7/8
PL-8-6-MP	1/2 x 14	3/8	2.03	.95	.76	.30	7/8
PL-8-8-MP	1/2 x 14	1/2	2.18	.95	.76	.39	7/8
PL-8-10-MP	1/2 x 14	5/8	2.58	1.5	.76	.50	7/8
PL-12-12-MP	3/4 x 14	3/4	2.61	1.5	.76	.61	1-1/8
PL-16-16-MP	1 x 11 - 1/2	1	2.86	1.5	.95	.84	1-3/8



Part Number Description



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- ④ **Thickness** - Variable material (wall) thickness available in each material type
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M through H - See Detail Chart
- ② **Size Number**
1 through 67 - (.405 through .3005 I.D.) See Detail Chart
- ③ **Material Code**
SS = 304 SS ST= 316 SS C = Copper M = Monel
- ④ **Non-Standard Width**
All widths other than standard are indicated in 1/16" increments (i.e.: - 4 = 1/4" width; - 10 = 5/8" width; - 22 = 1 3/8" width)
NOTE: Only required when width is NOT standard
See Width Notes

	Size	I.D. (Fit Size)	SS	Material ST C M
M	M-1	.405	•	
	M-2	.420	•	
	M-3	.435	•	
	M-4	.450	•	
	M-5	.465	•	
	M-6	.480	•	
	M-7	.495	•	
	M-8	.510	•	
	M-9	.525	•	•
	M-10	.540	•	•
	M-11	.555	•	•
	M-12	.570	•	•
	M-13	.585	•	•
	M-14	.600	•	•
	M-15	.615	•	•
	M-16	.630	•	•
	M-17	.645	•	•
A	A-18	.660	•	•
	A-19	.675	•	•
	A-20	.690	•	•
	A-21	.705	•	•
	A-22	.720	•	•
	A-23	.735	•	•
	A-24	.750	•	•
	A-25	.765	•	•
	A-26	.780	•	•
	A-27	.795	•	•
	A-28	.810	•	•
	A-29	.825	•	•
	A-30	.840	•	•
	A-31	.855	•	•
B	B-32	.870	•	•
	B-33	.885	•	•
	B-34	.900	•	•
	B-35	.915	•	•
	B-36	.930	•	•
	B-37	.945	•	•
	B-38	.960	•	•
	B-39	.975	•	•
	B-40	.990	•	•
	C	C-41	1.005	•
C-42		1.020	•	•
C-43		1.035	•	•
C-44		1.050	•	•
C-45		1.065	•	•
C-46		1.080	•	•
C-47		1.095	•	•
C-48		1.110	•	•
C-49		1.125	•	•
C-50		1.140	•	•
C-51		1.155	•	•
C-52		1.170	•	•
C-53	1.185	•	•	
C-54	1.200	•	•	
C-55	1.215	•	•	
C-56	1.230	•	•	

	Size	I.D. (Fit Size)	SS	Material ST C M
D	D-57	1.245	•	•
	D-58	1.260	•	•
	D-59	1.275	•	•
	D-60	1.290	•	•
	D-61	1.305	•	•
	D-62	1.320	•	•
	D-63	1.335	•	•
	D-64	1.350	•	•
	D-65	1.365	•	•
	D-66	1.380	•	•
	D-67	1.395	•	•
	D-68	1.410	•	•
	D-69	1.425	•	•
	D-70	1.440	•	•
E	D-71	1.455	•	•
	D-72	1.470	•	•
	D-73	1.485	•	•
	E-74	1.500	•	•
	E-75	1.515	•	•
	E-76	1.530	•	•
	E-77	1.545	•	•
	E-78	1.560	•	•
	E-79	1.575	•	•
	E-80	1.590	•	•
	E-81	1.605	•	•
	E-82	1.620	•	•
	E-83	1.635	•	•
	E-84	1.650	•	•
E-85	1.665	•	•	
E-86	1.680	•	•	
E-87	1.695	•	•	
E-88	1.710	•	•	
E-89	1.725	•	•	
E-90	1.740	•	•	
E-91	1.755	•	•	
E-92	1.770	•	•	
E-93	1.785	•	•	
E-94	1.800	•	•	
E-95	1.815	•	•	
E-96	1.830	•	•	
F	F-97	1.845	•	•
	F-98	1.860	•	•
	F-99	1.875	•	•
	F-100	1.890	•	•
	F-101	1.905	•	•
	F-102	1.920	•	•
	F-103	1.935	•	•
	F-104	1.950	•	•
	F-105	1.965	•	•
	F-106	1.980	•	•
	F-107	1.995	•	•
	F-108	2.010	•	•
F-109	2.025	•	•	
F-110	2.040	•	•	
F-111	2.055	•	•	
F-112	2.070	•	•	
F-113	2.085	•	•	
F-114	2.100	•	•	
F-115	2.115	•	•	
F-116	2.130	•	•	

	Size	I.D. (Fit Size)	SS	Material ST C M	
F	F-117	2.145	•	•	
	F-118	2.160	•	•	
	F-119	2.175	•	•	
	F-120	2.190	•	•	
	F-121	2.205	•	•	
	F-122	2.220	•	•	
	F-123	2.235	•	•	
	F-124	2.250	•	•	
	F-125	2.265	•	•	
	F-126	2.280	•	•	
	F-127	2.295	•	•	
	F-128	2.310	•	•	
G	F-129	2.325	•	•	
	F-130	2.340	•	•	
	F-131	2.355	•	•	
	F-132	2.370	•	•	
	FX	FX-133	2.385	•	•
		FX-134	2.400	•	•
		FX-135	2.415	•	•
		FX-136	2.430	•	•
		FX-137	2.445	•	•
		FX-138	2.460	•	•
		FX-139	2.475	•	•
		FX-140	2.490	•	•
FX-141		2.505	•	•	
FX-142		2.520	•	•	
FX-143		2.535	•	•	
FX-144		2.550	•	•	
FX-145		2.565	•	•	
FX-146		2.580	•	•	
FX-147	2.595	•	•		
FX-148a	2.610	•	•		
FX-148b	2.625	•	•		
FX-148c	2.640	•	•		
FX-148d	2.655	•	•		
FX-148e	2.670	•	•		
FX-149a	2.685	•	•		
FX-149b	2.700	•	•		
FX-149c	2.715	•	•		
FX-149d	2.730	•	•		
FX-149e	2.745	•	•		
H	G-150	2.750	•	•	
	G-151	2.765	•	•	
	G-152	2.780	•	•	
	G-153	2.795	•	•	
	G-154	2.810	•	•	
	G-155	2.825	•	•	
	G-156	2.840	•	•	
H	G-157	2.855	•	•	
	G-158	2.870	•	•	
	G-159	2.885	•	•	
	H-160	2.900	•	•	
	H-161	2.915	•	•	
	H-162	2.930	•	•	
	H-163	2.945	•	•	
	H-164	2.960	•	•	
	H-165	2.975	•	•	
	H-166	2.990	•	•	
	H-167	3.005	•	•	



Braid Band Specifications

AMFM Incorporated Braid Bands are manufactured to a "Fit Size" reflecting the hose size the band ID is produced to accommodate. There are two methods of specification:

1. AMFM Standard Specification, designated by AMFM part number, fit size indicated in ID column of catalog.
2. Customer Part Number Control, see Production Control section of this catalog for details.

Braid Bands are manufactured to "Fit Size". Fit size can only be accurately determined at time of manufacture. Parts are subject to changes from handling, secondary operation, packaging and shipping. These changes do not affect the Fit Size for this intended use, unless the parts are mechanically deformed. Due to these minor dimension changes from handling, AMFM CANNOT provide parts to specific minimum or maximum dimensions, as it will cause limitation and incorrect Fit Size. Reference the Hose Sizing section (page 4) of this catalog for detail regarding properly sizing AMFM Incorporated braid bands.

STANDARD TOLERANCE: "Fit Size" + .010 / - .005

Standard Widths indicated below or Non-Standard Width as indicated by the part number. Non-standard widths are indicated as shown in the Part Number Description (⊖). All usable widths can be supplied. Delivery is subject to non-standard lead times depending on the specific requirements. Many alternate widths are available in as standard stock. Any width can be made standard stock with ongoing demand. Parts manufactured by Customer Specification require width indication.

Width	Material	M	A	B	C	D	E	F	FX	G	H
	SS, ST, M	.375	.500	.625	.625	.750	.750	.750	.750	.750	.750
	C	.375	.500	.500	.625	.625	.750	1.00	--	--	--

STANDARD TOLERANCE: Overall Width: + .060 / - .060

AMFM Incorporated Braid Bands have standard wall thickness as reflected by the chart below.

Wall Thickness	Material	M	A	B	C	D	E	F	FX	G	H
	SS, ST	.035	.049	.049	.049	.049	.049	.049	.049	.065	.065
	C	.049	.049	.049	.055	.055	.055	.050	--	--	.068
	M	--	.048	.037	.037	.037	.065	.065	--	--	--

STANDARD TOLERANCE: Varies by Materials +/- .0075 (max.)

Parts are produced in selected Standard Materials as indicated in charts.

Material		
304 Stainless Steel	(SS)	ASTM 304 Stainless Steel (material certification available)
316 Stainless Steel	(ST)	ASTM 316 Stainless Steel (material certification available)
Copper	(C)	Alloy 122 Hard Cooper
Monel	(M)	Alloy 400 – M (material certification available)

Sizing AMFM Braid Bands

AMFM Braid Bands must be sized for each individual hose and configuration. This is specified Fit Size as defined in the specifications section of this catalog.

- The AMFM sizing gauge was developed exclusively for use with braided metal hose to indicate the appropriate AMFM Braid Band for the hose being measured.
- Selecting size from catalog dimensions from hose manufacturer or measuring hose without consulting factory is not recommended.
- More than one "standard" size increment will fit a braided hose with nominal difference except in smaller hose sizes (under 1").
- Double braid hoses generally require the equivalent increase of approximately three standard sizes over the single braid size.
- AMFM Braid Bands offer very close consistency and in some instances can exceed that of the hose. This may require alternate bands when a very tight fit is used that leaves no ability to consume a minor increase in hose diameter.



Parts Characteristics & Features

Out of Round	This value can only be determined at the time of manufacture in most sizes; Due to handling as mentioned in ID Section. Acceptable tolerances applied at time of manufacture do not affect the part "Fit Size".
Edge Protrusion	Referring to general edge condition. Single point protrusion or burr, with specification maximum of .0075" and .005", respectively. All edges burr free and square.
Edge Variation Edge (Parallel & Square)	With reference perpendicular to ID, part edge variations can deviate in parallel, part square, or basic material irregularities. Variations can involve a single edge or both. Specification calls for a maximum "gap distance" when measuring with reference to ID surface and corresponding perpendicular edge. Gap Specifications vary from .010" to .040" depending on part size and material.

Certification Available

AMFM Incorporated Braid Bands are manufactured to be used as temporary welding fixtures in the fabrication of industrial use metal hose assemblies only. No other usage or application is intended or recommended. To the extent that such products are used for any other purpose, AMFM INCORPORATED disclaims both their merchantability and fitness for such unintended use. There are no warranties which extend beyond the description contained herein.



WB - 200 - S 08 SS

1

2

3

4

5

BC - RDM - S 16 SS

Wrapped Bands



- 1 **Product Code**
WB = Wrapped Band
BC = Bulk Coil
CS = Cut Strip Available
- 2 **Profile (I.D.)**
Wrapped Bands
075 = 3/4"
100 = 1"
150 = 1 1/2"
200 = 2"
250 = 2 1/2"
300 = 3"
400 = 4"
500 = 5"
600 = 6"
800 = 8"
1000 = 10"
1200 = 12"
Bulk Coil
10 = 10'
25 = 25'
50 = 50'
100 = 100'
RDM = Random
- 3 **Material Thickness**
Light = .028
Standard = .048
Heavy = .060
Wrapped Bands
.065 Bulk Coil
- 4 **Material Width**
-08 = 1/2"
-12 = 3/4"
-16 = 1"
-20 = 1 1/4"
-24 = 1 1/2"
- 5 **Material Code**
SS = 304
ST = 316
C = Copper
M = Monel

Standard Wrapped Bands

Material Type and Thickness			Availability				
			Profile 200 and Under			Profile 250 and Over	
Available Weight			-08	-12	-16	-08	-12
304SS	Light	.028	•	•	•		•
	Standard	.048		•			
	Heavy	.060			200 Only		
316SS	Light	.028			•		
	Standard	.048					
	Heavy	.060			200 Only		
Copper	Standard	.048				•	•
	Heavy	.060					•
Monel	Standard	.048	Consult Factory				



Imprinting Wrapped Bands

The same considerations provided when welding imprinted braid bands to metal hose must be considered when imprinting wrapped bands. Minimum band width typically required is 3/4". Reference the Imprinting section for full details.

Cut Strip

Material		Availability				
		Material Weight		Available Widths		
			08	12	16	
304 Stainless Steel	Light	.028	•	•	•	
	Standard	.048		•	•	
	Heavy	.060			•	
316 Stainless Steel	Standard	.048			•	
	Heavy	.1			•	
Copper	Standard	.048	•	•	•	
	Heavy	.1		•	•	
Monel	Light	.032	•	•		
	Standard	.048		•		

All cut strip lengths are available on a custom basis. Lengths are not stocked with out prior arrangement. Lengths based on customer specification.

Bulk Coil

Material Weight			Availability				Available Widths				
			Available Lengths				08	12	16	20	24
			25'	50'	100'	RDM					
304SS	Light	.028	•	•	POA	POA	•	•	•		
	Standard	.048	•	•	•	•		•	•		
	Heavy	.060	•	•	POA	•			•		
316SS	Light	.028	•	•	POA	POA			•		
	Standard	.048	•	•	POA	POA			•		
	Heavy	.060	•	•	POA	POA			•		
Copper	Light	.028	•	•	POA	POA	•	•	•		
	Standard	.048	•	•	POA	POA		•	•		
	Heavy	.060	•	•	POA	POA		•	•		
Monel	Light	.032					•				
	Standard	.048						•			

POA - These items are non-stock, consult factory for lead times and availability.

AMFM Incorporated Bulk Strip is packaged conveniently for easy storage and use.



Bulk Coil Specifications

Material	Width	Material Thickness			Alloy/Grade
		Light	Standard	Heavy	
Stainless Steel	+ .075/- .075	.026 to .031	.046 to .053	.057 to .065	Stainless 304 & 316
Copper	+ .075/- .075	--	.047 to .053	.061 to .066	Copper - 110 Alloy
Monel	+ .030/- .030	.030 to .034	.047 to .053	--	Monel - 400 Alloy

Length Tolerance: All Bulk Coil carries a plus only tolerance.

	10' Coil	25' Coil	50' Coil	100' Coil	Random Coil
I.D./O.D.	10"/11"	9"/11"	8 1/2" / 11"	7"/11"	12"/22"
Shipping Wt.	1 to 3#	2 to 7#	3 to 13#	13 to 26#	36 to 70#

Custom Imprinting

Custom imprinting offers increased flexibility for your metal hose fabrication. AMFM Incorporated imprinting programs allow you to customize assemblies to reflect important information. Typical applications include:

- Company name recognition
- Assembly dating
- Application information critical to end user

Feature	FIXED Program	FLEXIBLE Program
Wide range of type availability	•	
Variable letter spacing	•	
3 or more lines, single set up	•	
Logo or special type	•	
Imprinting all products	•	•
Change set up per release		•
Economical occasional user	•	•
Immediately available		•

Single Line Imprint

Unprinted area, approx. 1/8"
AMFM Inc.
Unprinted area, approx. 1/8"

Two Line Imprint

Unprinted area, approx. 1/8"
AMFM Inc.
800-333-2636
Unprinted area, approx. 1/8"

Type Sizing

Band width is important when considering type size. Small braid bands and narrow width wrapped bands have limited imprinting surface. For small parts, small type sizes is advisable. Consult factory for application questions.

Standard allocation for all programs includes allocation of 1/8" above and below the imprint area. Collars used as an ID tag do not require the additional space.

Note: Non-standard width part required for M and A series braid bands requiring two lines of flexible imprint. Consult factory for details; parts not welded to metal hose (used as tag) may not require non-standard width.

Fixed and Flexible programs detailed on the following pages.



Line Art/Company Logo Options:

Possible

A	M
F	M

Not Possible

AMFM
Incorporated

AMFM Recommendation:

For dating applications we recommend referencing the quarter and year. This allows you flexibility as far as dating your assemblies without wasting valuable inventory.

Fixed Imprinting Program

- Permanent set up or company logo for long-term use.
- Specify standard with your order for no hassle purchasing.

The Fixed Imprinting program allows customers to establish a permanent imprint that cannot be changed. This allows for maximum investment for long-term use of a standard imprint. The fixed program may be combined with flexible program options.

Fixed Program Specifications

Typical Type Sizes	3/32"	1/8"	5/32"
Characters Per Line	Approx. 14	Approx. 10	Approx. 8
Fixed Imprint Types	Single Line	Two Separate Interchangeable Lines	Single Block
Part Width Requirement	Imprint area 1/4"	Imprint area 1/2"	Imprint area 5/32"
Features	<ul style="list-style-type: none"> • Imprinting single or multiple lines is possible. • Types size independent per line. • Line order changeable. • Multiple single lines can be established and used interchangeably as required. • Requires more space for imprint than single block 		<ul style="list-style-type: none"> • Run full imprint only • Type sizes variable per line • Line order fixed • Tighter spacing allowing more imprint on less space.

Flexible Imprinting Program

- Ideal for one time marking or special identification limited occurrence
- Easy to specify as needed on per-order basis

The Flexible Imprinting program allows customers to set up a one time or limited occurrence imprint as needed. Use of our flexible worksheet allows for easy ordering and can be attached to any purchase order.

Type Specifications

Type Size	Overall Height Requirement (2 line of imprint)	Characters/Spaces Per Line	Information	Type Size
3/32"	11/32"	14	Letters:	A through Z (uppercase only)
1/8"	3/8"	10	Numbers:	0 through 9
			Symbols:	# - / ' " .

NOTE:

Non-standard width part required for M and A series braid bands requiring two lines of flexible imprint. Consult factory for details; parts not welded to metal hose (used as tag) may not require non-standard width.

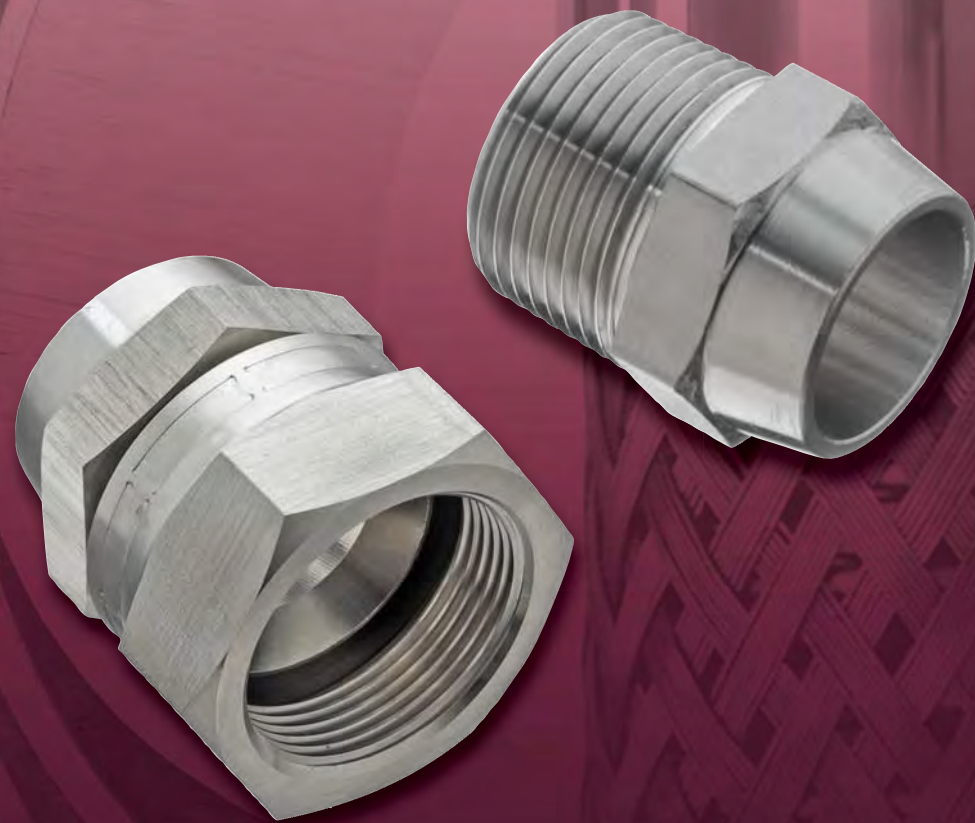
Imprinting Program Information

Additional information may be included on a second imprint run on the side opposite of the first imprint. Double run imprints requires additional set up and run charges, consult price sheet or factory for details.

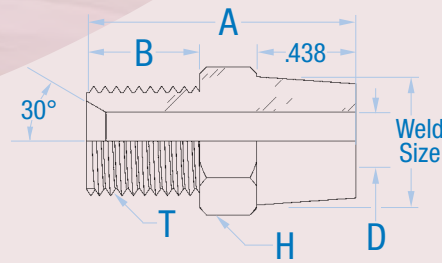
XYZ HOSE	← FIXED
JOB #986	← FLEXIBLE



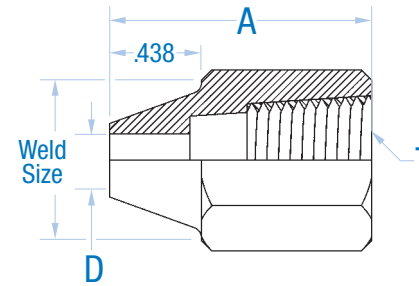
AMFM Quality Components
 Engineered to Complete your Fabrication



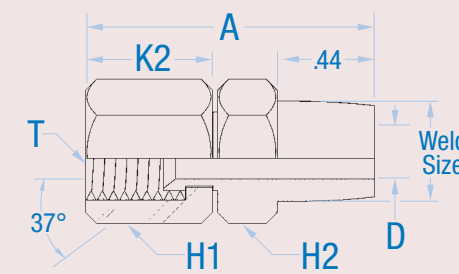
BHC



BHFC



BHJS



Weld
Fittings



Weld End Fittings

Buttweld Hose Connector • Buttweld Hose End/Male Pipe End

PART #	Pipe Size T-Thread	Weld Size	A	B	D	H	Dynamic Pressure Rtg
BHC 1/4	1/4 x 18	1/4	1.19	.50	.25	9/16	4000
BHC 3/8	3/8 x 18	3/8	1.25	.57	.38	11/16	3500
BHC 1/2	1/2 x 14	1/2	1.44	.69	.50	7/8	3000
BHC 3/4	3/4 x 14	3/4	1.50	.76	.75	1-1/16	2500
BHC 1	1 x 11-1/2	1	1.69	.88	1.00	1-5/16	2000
BHC 1 1/4	1-1/4 x 11-1/2	1-1/4	1.94	.98	1.25	1-3/4	1250
BHC 1 1/2	1-1/2 x 11-1/2	1-1/2	2.13	1.01	1.50	2	1000
BHC 2	2 x 11-1/2	2	2.19	1.04	2.00	2-1/2	1000

BHC

Carbon Steel
 304 SS
 316 SS

Buttweld Hose Female Connector • Buttweld Hose End/Male Pipe End

PART #	Pipe Size T-Thread	Weld Size	A	D	H	Dynamic Pressure Rtg
BHFC 1/4	1/4 - 18	1/4	1.25	.25	3/4	4000
BHFC 3/8	3/8 - 18	3/8	1.57	.38	7/8	3500
BHFC 1/2	1/2 - 14	1/2	1.63	.50	1-1/8	3000
BHFC 3/4	3/4 - 14	3/4	1.70	.75	1-3/8	2500

BHFC

316 SS

Buttweld Hose JIC Swivel • Buttweld Hose End/Female JIC Swivel End

PART #	Tube Size	Tube End UN/ UNF-2A T-Thread	Weld Size	A	D	D1	K2	H1	H2	Dynamic Pressure Rtg
BHJS 1/4	1/4	7/16 x 20	1/4	1.32	.25	.17	.35	9/16	9/16	6000
BHJS 3/8	3/8	9/16 x 18	3/8	1.42	.38	.30	.38	11/16	11/16	5400
BHJS 1/2	1/2	3/4 x 16	1/2	1.43	.50	.39	.43	7/8	7/8	4800
BHJS 5/8	5/8	7/8-14	1/2	1.65	.63	.48	.50	1 1/16	7/8	4800
BHJS 3/4	3/4	1-1/16 x 12	3/4	1.66	.75	.61	.57	1-1/4	1-1/16	4200
BHJS 1	1	1-5/16 x 12	1	1.86	1.00	.84	.60	1-1/2	1-5/16	3000
BHJS 1 1/4	1-1/4	1-5/8 x 12	1-1/4	2.13	1.25	1.08	.63	2	1-3/4	3000
BHJS 1 1/2	1-1/2	1-7/8 x 12	1-1/2	2.23	1.50	1.31	.74	2-1/4	2	2400
BHJS 2	2	2-1/2 x 12	2	2.58	2.00	1.78	.94	2-7/8	2-1/2	1800

BHJS

Carbon Steel
 316 SS

Call toll free:
800.333.2636

Thread One End Pipe Fittings

Part Number Description

1 PF - 2 16 - 3 SS 4

Code	Fraction (Inches)
01	1/16
02	1/8
03	3/16
04	1/4
05	5/16
06	3/8
07	7/16
08	1/2
09	9/16
10	5/8
11	11/16
12	3/4
13	13/16
14	7/8
15	15/16
16	No fraction

Pipe Fittings

Availability

Material	PF Length	04	06	08	12	16	20	24	32	40	48	64
CS40	3 (1 1/2")	•	•	•	•							
	4 (2")			•	•	•						
	5 (2 1/2")						•	•	•	•		
	6 (3")	•	•	•	•	•	•	•	•	•	•	•
CS80	3 (1 1/2")											
	4 (2")			•	•	•						
	5 (2 1/2")							•	•			
	6 (3")			•	•	•	•	•	•			
SS40	3 (1 1/2")	•	•	•	•							
	4 (2")			•	•	•						
	5 (2 1/2")							•	•			

To accompany or band products AMFM Incorporated offers quality weld end components to complete your fabrication requirements.



WF

- Product Code**
PF = Pipe Fitting
- Fitting Size**
04 = 1/4" 08 = 1/2" 16 = 1" 24 = 1 1/2" 48 = 3"
06 = 3/8" 12 = 3/4" 20 = 1 1/4" 32 = 2" 64 = 4"
- Fitting Length**
3 = 1 1/2" 4 = 2" 5 = 2 1/2" 6 = 3"
(Does NOT apply to Hex Male Fittings)
- Material Code**
CS40 = Carbon Steel / Schedule 40 SS = 304 Stainless Steel
CS80 = Carbon Steel / Schedule 80 ST = 316 Stainless Steel

Part Specifications

PF Carbon Steel Schedule 40

Size	Overall Length	O.D.	Wall	Threads Per Inch	Thread Length
1/4	1.500	0.540	0.088	18	0.5946
1/4	2.000	0.540	0.088	18	0.5946
1/4	3.000	0.540	0.088	18	0.5946
3/8	1.500	0.675	0.091	18	0.6006
3/8	2.000	0.675	0.091	18	0.6006
3/8	3.000	0.675	0.091	18	0.6006
1/2	1.500	0.840	0.109	14	0.7815
1/2	2.000	0.840	0.109	14	0.7815
1/2	3.000	0.840	0.109	14	0.7815
3/4	1.500	1.050	0.113	14	0.7935
3/4	2.000	1.050	0.113	14	0.7935
3/4	3.000	1.050	0.113	14	0.7935
1	2.000	1.315	0.133	11 1/2	0.9845
1	3.000	1.315	0.133	11 1/2	0.9845
1 1/4	2.000	1.660	0.140	11 1/2	1.0085
1 1/4	2.500	1.660	0.140	11 1/2	1.0085
1 1/4	3.000	1.660	0.140	11 1/2	1.0085
1 1/2	2.000	1.900	0.145	11 1/2	1.0085
1 1/2	2.500	1.900	0.145	11 1/2	1.0085
1 1/2	3.000	1.900	0.145	11 1/2	1.0252
2	2.000	2.375	0.154	11 1/2	1.0582
2	2.500	2.375	0.154	11 1/2	1.0582
2	3.000	2.375	0.154	11 1/2	1.0582
2 1/2	2.500	2.875	0.203	8	1.5712
2 1/2	3.000	2.875	0.203	8	1.5712
3	2.500	3.500	0.216	8	1.6337
3	3.000	3.500	0.216	8	1.6337
4	4.000	4.500	0.237	8	1.7337

PF Carbon Steel Schedule 80

Size	Overall Length	O.D.	Wall	Threads Per Inch	Thread Length
1/2	2.000	0.840	0.147	14	0.7815
1/2	3.000	0.840	0.147	14	0.7815
3/4	2.000	1.050	0.154	14	0.7935
3/4	3.000	1.050	0.154	14	0.7935
1	2.000	1.315	0.179	11 1/2	0.9845
1	3.000	1.315	0.179	11 1/2	0.9845
1 1/4	2.000	1.660	0.191	11 1/2	1.0085
1 1/4	3.000	1.660	0.191	11 1/2	1.0085
1 1/2	2.000	1.900	0.200	11 1/2	1.0085
1 1/2	2.500	1.900	0.200	11 1/2	1.0085
1 1/2	3.000	1.900	0.200	11 1/2	1.0085
2	2.000	2.375	0.218	11 1/2	1.0582
2	2.500	2.375	0.218	11 1/2	1.0582
2	3.000	2.375	0.218	11 1/2	1.0582
2 1/2	2.500	2.875	0.276	8	1.5712
2 1/2	3.000	2.875	0.276	8	1.5712
3	2.500	3.500	0.300	8	1.6337
3	3.000	3.500	0.300	8	1.6337
4	3.000	4.500	0.337	8	1.7337

Pipe Fitting 304 Stainless Steel Schedule 40

Size	Overall Length	O.D.	Wall	Threads Per Inch	Thread Length
1/4	1.500	0.540	0.088	18	0.5946
3/8	1.500	0.675	0.091	18	0.6006
1/2	1.500	0.840	0.109	14	0.7815
1/2	2.000	0.840	0.109	14	0.7815
3/4	1.500	1.050	0.113	14	0.7935
3/4	2.000	1.050	0.113	14	0.7935
1	2.000	1.315	0.133	11 1/2	0.9845
1 1/4	2.000	1.660	0.140	11 1/2	1.0085
1 1/2	2.000	1.900	0.145	11 1/2	1.0252
1 1/2	2.500	1.900	0.145	11 1/2	1.0252
2	2.500	2.375	0.154	11 1/2	1.0582

Slot End Fittings

Part Number Description

S 4 - 200 - S 08 SS



Code	Fraction (Inches)
01	1/16
02	1/8
03	3/16
04	1/4
05	5/16
06	3/8
07	7/16
08	1/2
09	9/16
10	5/8
11	11/16
12	3/4
13	13/16
14	7/8
15	15/16
16	No fraction

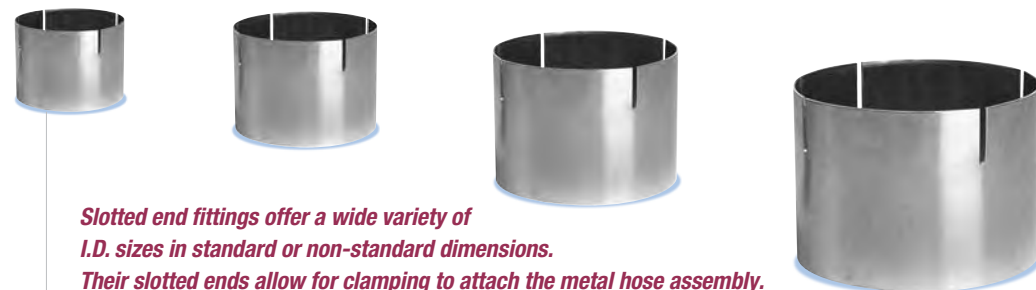
- Product Code**
S = Slotted End SC = Custom Slotted End
- Slot Info**
2 = 2 slots/std. 4 = 4 slots/std.
- Part ID**
First digit = Whole inch Second/third digits = fractional designation
(See code to left)
- Material Weight** S = Standard
- Length** Length inches
- Material type** SS = 304 Stainless Steel

Slotted End

SE

Slotted End Specifications

Feature	Detail	2" I.D. and Lower	2 1/2" I.D. and Above
Material	Standard weight 304 SS	304 Stainless Steel	
Wall	Wall thickness is based on standard material for standard applications.	Nominal (.049)	
O.D.	This is a reference size resulting from the manufactured ID and wall thickness. Any part sizing by this dimension must result from customer specification using custom specification.	A reference dimension, unless requested using a custom specification.	
I.D. Fit Size	Parts are sized to fit over the mating fitting. Parts are manufactured to the plus tolerance of the specified size. Slotted Ends are designed to reduce ID from external clamp onto mating part.	Manufactured +/- 1/32" tolerance. Closer tolerance in standard and custom available.	Manufactured + 1/16" tolerance. Sizing increments specified in 1/16" to 1/8" increments.
Slots	SW Slot Width	Slots are available in standard configuration Standard 1/8" width (+/- 1/32")	
	SD Slot Depth	Slots set at recommended depths for standard parts shown in chart. Depth can be specified to alternate dimensions reflecting custom specification. Standard depth will allow fitting to provide required ID reduction.	1/2" standard through 2" (+/- 1/64") 7/8" standard above 2" (+/- 1/64")
	SS Slot Spacing	Slots are spaced based on the number of slots specified allowing for spacing in equal increments. This also is in response to the required amount of typical ID reduction.	2 slots standard equal 180 degree spacing. 4 slots standard equal 90 degree spacing
Length	Part length specified to accommodate interface of the mating fitting with slotted end, with non-slotted portion to accommodate attachment and required transition length.	Smaller diameters usually require shorter lengths with parts in this range not available in lengths over 6". See standard profiles (+/- 1/8")	Parts in larger sizes can accommodate additional length. See standard profiles (+/- 1/8")



Slotted end fittings offer a wide variety of I.D. sizes in standard or non-standard dimensions. Their slotted ends allow for clamping to attach the metal hose assembly.

Standard Profile

Part Number	Standard I.D.	Availability			
		3"	4"	6"	Above 6"
S4-201-S (length) SS	2 1/16" (2.063")	•	•		
S4-209-S (length) SS	2 9/16" (2.563")	•			
S4-301-S (length) SS	3 1/16" (3.063")	•			•
S4-309-S (length) SS	3 9/16" (3.563")	•	•	•	•
S4-401-S (length) SS	4 1/16" (4.063")	•	•		•
S4-409-S (length) SS	4 9/16" (4.563")	•			•
S4-501-S (length) SS	5 1/16" (5.063")	•			•
S4-601-S (length) SS	6 1/16" (6.063")	•		•	•

Custom Configuration

Feature	Detail	2" I.D. and Lower	2 1/2" I.D. and Above
Material	Standard weight 304 SS	304 Stainless Steel	
Wall	As in material listing, (currently) standard weight material.	Nominal (.049)	
I.D.	Select ID based on diameter the slotted end is made to fit over. Slotted Ends can be supplied in a single ID only, multiple size units not available.	.030" to .050" over mating diameter	1/16"+ over mating diameter
Slots	<ul style="list-style-type: none"> Standard slot width (SW) (1/8") is typical, depending on application. Slot depth (SD) should consider the overlap of mating part and clamping configuration (also see length). Slots spacing (SS) based on ID of fitting, with each two slots allowing .080 of reduction (see ID). Odd amounts not recommended. 	Below 2" ID, two slots recommended	Use standard slots where possible, consult factory on variations.
Length	Overall length of the unit is determined length requirement of the fitting. Consider slots and attachment to flexible hose application and installation requirements.	Maximum length of 6" or less.	As required to 12".

Consult factory to evaluate your requirements. AMFM Incorporated can stock slotted ends manufactured to custom specification



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