































Tube Fittings & Adapters

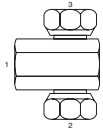
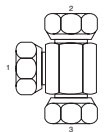
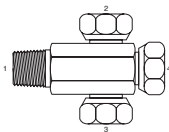
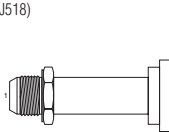
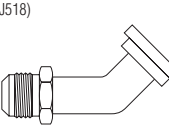
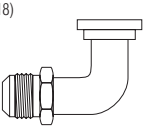
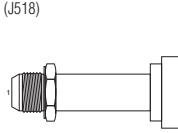
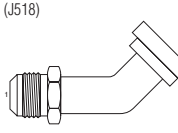
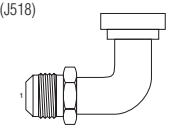
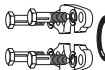
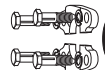















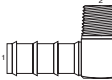




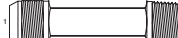




Tube Fittings & Adapters


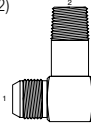
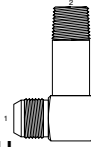
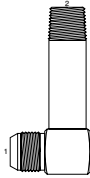



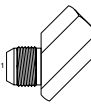












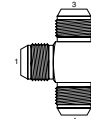
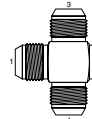
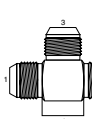
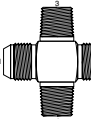
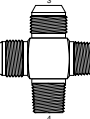
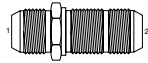
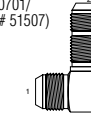

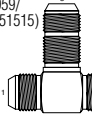


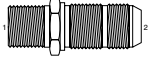


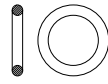
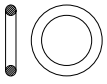
Brennan Industries, Inc.'s steel and stainless steel 37° flare tube fittings meet all design and performance requirements for 37° flare tube fittings in Standard J514 published by the Society of Automotive Engineers (SAE). This design was originally founded as a JIC (Joint Industrial Council) design and was later adopted by the SAE to assure dimensional interchangeability between various manufacturers worldwide.

Brennan also offers a wide variety of pipe fittings and adapters including straight thread adapters, male and female pipe fittings, male to female pipe adapters and straight thread to pipe adapters.

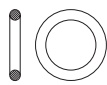

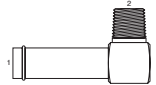
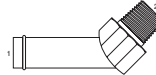
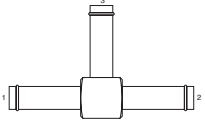
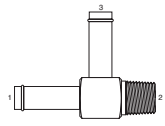
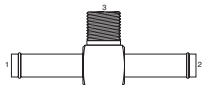
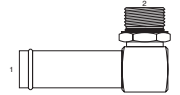
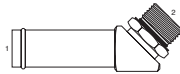




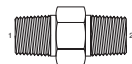

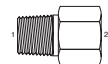




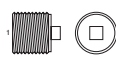
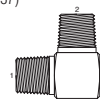
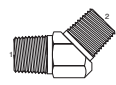

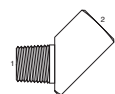


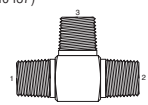
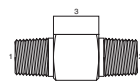
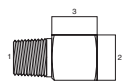
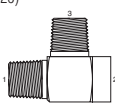
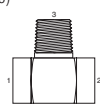
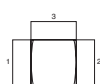
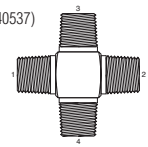
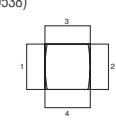
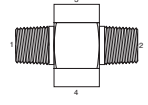
 0302 Short Nut	(070111)  0304 Standard Nut	(070112)  0304-C JIC Cap Nut	(070118/MS # 51860)  0306 BHLN	(070117)  0306-N BULN	(070110)  0318 JIC Tube Nut
(070115)  0319 JIC Tube Sleeve	 0403 Bore-MJ Straight	 0403-TS MJ Tube Spud	 0404 Bore-MP Straight	 0405 Bore-FP Straight	 0406 Bore-MJ Bulkhead Straight
 0500 Bore-MJ 90°	 0501 Bore-MP 90°	 0600 Bore-Bore-MJ Tee	 0601 Bore-Bore-MP Tee	 0602 Bore-Bore-FP	 0702 Bore-MJ-MJ Tee
 0800 Bore-FPS Straight	 0801 Bore-FPS 90°	 0900 Bore-FJS Straight	 0954 Brass Elbow	 0954-L Brass Elbow	(140131)  1405 FP-FPS Straight
(140230)  1501 MP-FPS 90°	 1501-L MP-FPS 90° Long	(140231)  1502 FP-FPS 90°	(140330)  1503 MP-FPS 45°	(140331)  1504 FP-FPS 45°	 1601 MP-FPS-FPS Tee

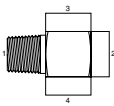
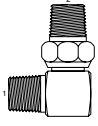
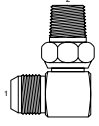
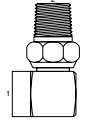


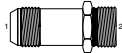

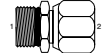
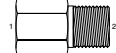




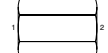
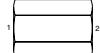


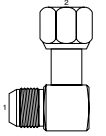
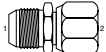

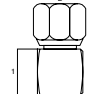
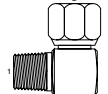
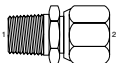
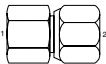
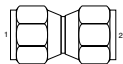
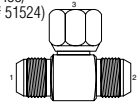
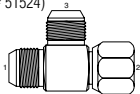
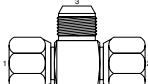
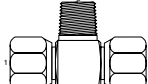
Tube Fittings & Adapters

 <p>1602 FP-FPS-FPS Tee</p>	 <p>1603 FPS-FPS-FPS Tee</p>	 <p>1604 MP-FPS-FPS-FPS Cross</p>	 <p>(J518) 1700 MJ-Flange Straight Code 61</p>	 <p>(J518) 1703 MJ-Flange 45° Code 61</p>	 <p>(J518) 1704 MJ-Flange 90° Code 61</p>
 <p>(J518) 1800 MJ-Flange Straight Code 62</p>	 <p>(J518) 1803 MJ-Flange 45° Code 62</p>	 <p>(J518) 1804 MJ-Flange 90° Code 62</p>	 <p>(J518) 1901 Flange Kit Code 61</p>	 <p>(J518) 1902 Flange Kit Code 62</p>	 <p>1951 Flange Halves Code 61</p>
 <p>1952 Flange Halves Code 62</p>	 <p>1961 Bolts Code 61</p>	 <p>1962 Bolts Code 62</p>	 <p>1971 Washers Code 61</p>	 <p>1972 Washers Code 62</p>	 <p>2111 PL-FJS Straight</p>
 <p>2112 PL-FSAES Straight</p>	 <p>2113 PL-MP Straight</p>	 <p>2114 PL-FIF Straight</p>	 <p>2115 PL-MIFS Straight</p>	 <p>2116 PL-MJ Straight</p>	 <p>2117 PL-Stem Straight</p>
 <p>2118 PL-PL Straight</p>	 <p>2119 PL-FP Straight</p>	 <p>2120 PL-MP 90° Elbow</p>	 <p>(070101/MS# 51501) 2403 MJ-MJ Straight</p>	 <p>(070119/MS# 51519) 2403-LH MJ-MJ Straight Large Hex</p>	 <p>(070102/MS# 51500) 2404 MJ-MP Straight</p>
 <p>2404-L MJ-MP Straight Long</p>	 <p>2404-LL MJ-MP Straight X-Long</p>	 <p>(070103/MS# 51503) 2405 MJ-FP Straight</p>	 <p>2406 FJ-MJ Straight Reducer</p>	 <p>(070109/MS# 51518) 2408 MJ Plug</p>	 <p>(070201/MS# 51505) 2500 MJ-MJ 90°</p>

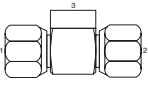
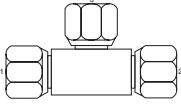
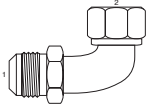
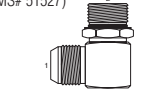

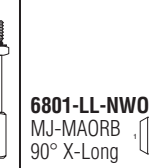
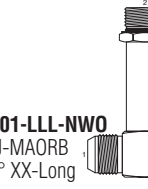
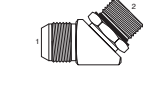
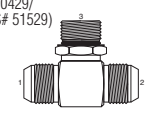
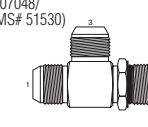
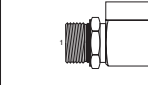
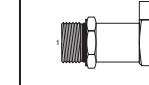
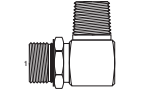
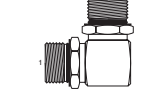
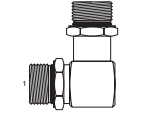
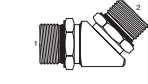
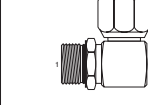
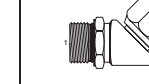
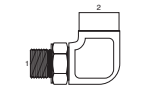
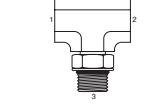
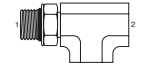
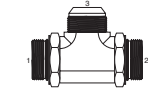
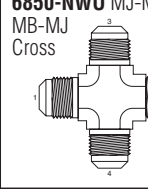

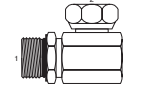
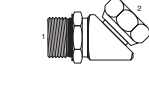
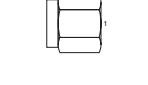
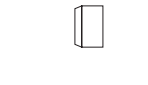
<p>(070302/MS# 51504)</p>  <p>2501 MJ-MP 90°</p>	<p>(071502)</p>  <p>2501-L MJ-MP 90° Long</p>	<p>(071602)</p>  <p>2501-LL MJ-MP 90° X-Long</p>	<p>2501-LLL MJ-MP 90° XX-Long</p> 	<p>(070203/MS# 51506)</p>  <p>2502 MJ-FP 90°</p>	<p>(070302/MS# 51508)</p>  <p>2503 MJ-MP 45°</p>
 <p>2504 MJ-MJ 45°</p>	 <p>2505 MJ-FP 45°</p>	<p>(070425/MS# 51512)</p>  <p>2601 MJ-MJ-MP Tee</p>	<p>(070427/MS# 51513)</p>  <p>2602 MJ-MJ-FP Tee</p>	<p>(070401/MS# 51510)</p>  <p>2603 MJ-MJ-MJ Tee</p>	<p>(070424/MS# 51511)</p>  <p>2605 MJ-MP-MJ Tee</p>
<p>(070426/MS# 51514)</p>  <p>2606 MJ-FP-MJ Tee</p>	 <p>2607 MJ-MP-MP Tee</p>	 <p>2608 MJ-FP-MP Tee</p>	 <p>2609 MJ-FP-FP Tee</p>	 <p>2610 MP-MP-MJ Tee</p>	 <p>2611 MJ-MP-FP Tee</p>
 <p>2612 FP-FP-MJ Tee</p>	 <p>2613 MP-FP-MJ Tee</p>	 <p>2650 MJ-MJ-MJ-MJ Cross</p>	 <p>2651 MJ-MP-MJ-MJ Cross</p>	 <p>2652 MJ-MJ-MJ-FP Cross</p>	 <p>2653 MJ-MJ-MP-MP Cross</p>
 <p>2654 MJ-MP-MJ-MP Cross</p>	<p>(070601/MS# 51520)</p>  <p>2700 MJ-MJ Bulkhead Straight</p>	<p>(070701/MS# 51507)</p>  <p>2701 MJ-MJ Bulkhead 90°</p>	<p>(070801/MS# 51509)</p>  <p>2702 MJ-MJ Bulkhead 45°</p>	<p>(070959/MS# 51515)</p>  <p>2703 MJ-MJ-MJ Bulkhead Branch Tee</p>	<p>(070958/MS# 51516)</p>  <p>2704 MJ-MJ-MJ Bulkhead Run Tee</p>
 <p>2705 FP-MJ Bulkhead Straight</p>	 <p>2706 MP-MJ Bulkhead Straight</p>	 <p>3051 MP-FP Low Profile 90°</p>	 <p>3474-NWO MAORB-ORB Straight</p>	<p>(J515 Type I CH/MS# 28778)</p>  <p>4000 Buna O Ring</p>	<p>(J515 Type I I H K)</p>  <p>4001 Viton O Ring</p>

Tube Fittings & Adapters

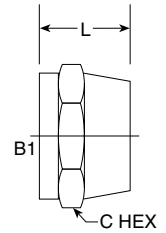
 <p>4005 Flange O Ring</p>	 <p>4404 HB-MP Straight</p>	 <p>4501 HB-MP 90°</p>	 <p>4503 HB-MP 45°</p>	 <p>4504 HB-HB-HB Tee</p>	 <p>4505 HB-MP-HB Tee</p>
 <p>4506 HB-HB-MP Tee</p>	 <p>4601-NWO HB-MAORB 90°</p>	 <p>4603-NWO HB-MAORB 45°</p>	 <p>4604-O HB-MORB Straight</p>	<p>(140138)</p>  <p>5000 FP-FP Straight</p>	 <p>5304 MP-BW Weld-on Fitting 304SS</p>
 <p>5316 MP-BW Weld-on Fitting 316SS</p>	<p>(140137)</p>  <p>5404 MP-MP Hex Nipple</p>	 <p>5404-N MP-MP Straight Nipple Long</p>	<p>(140139)</p>  <p>5405 MP-FP Straight Expander</p>	<p>(140140)</p>  <p>5406 MP-FP Reducer Bushing</p>	 <p>5406-C Pipe Cap</p>
 <p>5406-HP Hollow Hex Pipe Plug</p>	<p>(130109E)</p>  <p>5406-P External Hex Pipe Plug</p>	<p>(130109A)</p>  <p>5406-SHP Square Head Pipe Plug</p>	<p>(140237)</p>  <p>5500 MP-MP 90°</p>	 <p>5501 MP-MP 45°</p>	<p>(140239)</p>  <p>5502 MP-FP 90° Street Elbow</p>
<p>(140339)</p>  <p>5503 MP-FP 45° Street Elbow</p>	<p>(140238)</p>  <p>5504 FP-FP 90° Street Elbow</p>	<p>(140338)</p>  <p>5505 FP-FP 45°</p>	<p>(140437)</p>  <p>5600 MP-MP-MP Tee</p>	<p>(140427)</p>  <p>5601 MP-MP-FP Tee</p>	<p>(140424)</p>  <p>5602 MP-FP-FP Street Tee</p>
<p>(140426)</p>  <p>5603 MP-FP-MP Tee</p>	<p>(140425)</p>  <p>5604 FP-FP-MP Branch Tee</p>	<p>(140438)</p>  <p>5605 FP-FP-FP Tee</p>	<p>(140537)</p>  <p>5650 MP-MP-MP-MP Cross</p>	<p>(140538)</p>  <p>5652 FP-FP-FP-FP Cross</p>	 <p>5653 MP-MP-FP-FP Cross</p>

 <p>6555 MP-FP-FP-FP Cross</p>	 <p>5700 MP-MPS 90°</p>	 <p>5701 MJ-MPS 90°</p>	 <p>5702 FP-MPS 90°</p>	 <p>6000 Back-Up Washer</p>	<p>(070120/MS# 51525)</p>  <p>6400-0 MJ-MORB Straight</p>
<p>(070122/MS# 51526)</p>  <p>6400-L-0 MJ-MORB Straight Long</p>	 <p>6401-0 MORB-MP Straight</p>	 <p>6402-0 MORB-FJS Straight</p>	 <p>6404 FORB-MP Straight</p>	 <p>6405-0 MORB-FP Straight</p>	<p>(090109A)</p>  <p>6408-0 MORB External Hex Plug</p>
<p>(090109B)</p>  <p>6408-H-0 MORB Hollow Hex Plug</p>	 <p>6410-0 MORB FORB Straight Reducer</p>	 <p>6420 FORB-FP Straight</p>	 <p>6425 FORB-FORB Straight</p>	 <p>6464 MORB-MORB Straight</p>	<p>(070221)</p>  <p>6500 MJ-FJS 90°</p>
 <p>6500-L MJ-FJS 90° Long</p>	 <p>6504 MJ-FJS Straight</p>	<p>(070321/MS# 51522)</p>  <p>6502 MJ-FJS 45°</p>	 <p>6503 FP-FJS 90°</p>	 <p>6501 MP-FJS 90°</p>	 <p>6505 MP-FJS Straight</p>
 <p>6506 FP-FJS Straight</p>	 <p>6565 FJS-FJS Straight</p>	<p>(070433/MS# 51524)</p>  <p>6600 MJ-MJ-FJS Tee</p>	<p>(070432/MS# 51524)</p>  <p>6602 MJ-FJS-MJ Tee</p>	 <p>6603 FJS-FJS-MJ Tee</p>	 <p>6604 FJS-FJS-MP Tee</p>

Tube Fittings & Adapters

 <p>6605 FJS-FJS-FP Tee</p>	 <p>6606 FJS-FJS-FJS Tee</p>	 <p>6701 MJ-FJS Swept 90°</p>	<p>(070220/ MS# 51527)</p>  <p>6801-NWO MJ-MAORB 90°</p>	 <p>6801-L-NWO MJ-MAORB 90° Long</p>	 <p>6801-LL-NWO MJ-MAORB 90° X-Long</p>
 <p>6801-LLL-NWO MJ-MAORB 90° XX-Long</p>	<p>(070320/MS# 51528)</p>  <p>6802-NWO MJ-MAORB 45°</p>	<p>(070429/ MS# 51529)</p>  <p>6803-NWO MJ-MJ-MAORB Branch Tee</p>	<p>(07048/ MS# 51530)</p>  <p>6804-NWO MJ-MAORB-MJ Run Tee</p>	 <p>6805-NWO MAORB-FP 90°</p>	 <p>6805-L-NWO MAORB-FP 90° Long</p>
 <p>6806-NWO MAORB-MP 90°</p>	 <p>6807-NWO MAORB-MAORB 90°</p>	 <p>6807-LL-NWO MAORB-MAORB 90° X-Long</p>	 <p>6808-NWO MAORB-MAORB 45°</p>	 <p>6809-NWO MAORB-FJS 90°</p>	 <p>6810-NWO MAORB-FJS 45°</p>
 <p>6815-NWO MAORB-FORB 90°</p>	 <p>6832-NWO FORB-FORB-MAORB Tee</p>	 <p>6835-NWO MAORB-FORB-FORB Tee</p>	 <p>6840-NWO MAORB-MAORB-MJ</p>	 <p>6850-NWO MJ-MJ-MB-MJ Cross</p>	 <p>6900-O MORB-FPS Straight</p>
<p>(140257)</p>  <p>6901-NWO MAORB-FPS 90°</p>	<p>(140357)</p>  <p>6902-NWO MAORB-FPS 45°</p>	 <p>V0318 JIC-Flareless Nut</p>	 <p>V0319 JIC Flareless Sleeve</p>		

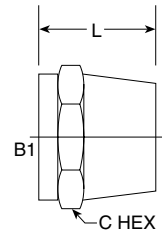
Short Nut 0302 Series



PART NO. SIZE	TUBE O.D.	B1 THREAD	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
0302-04	1/4	7/16-20	0.593	15.06	9/16	0.562	14.27	•		•	•
0302-05	5/16	1/2-20	0.593	15.06	5/8	0.625	15.88	•			•
0302-06	3/8	9/16-18	0.656	16.66	11/16	0.687	17.45	•		•	•
0302-08	1/2	3/4-16	0.812	20.62	7/8	0.875	22.23	•		•	
0302-10	5/8	7/8-14	0.937	23.80	1	1.000	25.40	•			
0302-12	3/4	1 1/16-12	1.140	28.96	1 1/4	1.250	31.75	•		•	
0302-14	7/8	1 3/16-12	1.203	30.56	1 3/8	1.375	34.93	•			
0302-16	1	1 5/16-12	1.281	32.54	1 1/2	1.500	38.10	•		•	
0302-20	1 1/4	1 5/8-12	1.437	36.50	2	2.000	50.80	•		•	
0302-24	1 1/2	1 7/8-12	1.562	39.67	2 1/4	2.250	57.15	•		•	
0302-32	2	2 1/2-12	2.000	50.80	2 7/8	2.875	73.03	•			

Standard Nut 0304 Series

SAE # 070111

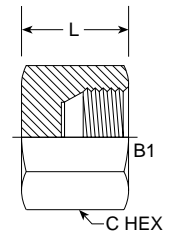


PART NO. SIZE	TUBE O.D.	B1 THREAD	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
0304-04	1/4	7/16-20	1.000	25.40	9/16	0.562	14.27	•		•	
0304-05	5/16	1/2-20	1.062	26.97	5/8	0.625	15.88	•			•
0304-06	3/8	9/16-18	1.093	27.76	11/16	0.687	17.45	•			•
0304-08	1/2	3/4-16	1.281	32.54	7/8	0.875	22.23	•			
0304-10	5/8	7/8-14	1.484	37.69	1	1.000	25.40	•			
0304-12	3/4	1 1/16-12	1.656	42.06	1 1/4	1.250	31.75	•			•
0304-14	7/8	1 3/16-12	1.812	46.02	1 3/8	1.375	34.93	•			
0304-16	1	1 5/16-12	1.937	49.20	1 1/2	1.500	38.10	•		•	
0304-20	1 1/4	1 5/8-12	2.187	55.55	2	2.000	50.80	•			
0304-24	1 1/2	1 7/8-12	2.312	58.72	2 1/4	2.250	57.15	•			
0304-32	2	2 1/2-12	2.750	69.85	2 7/8	2.875	73.03	•			

Tube Fittings & Adapters

JIC Cap Nut 0304-C Series

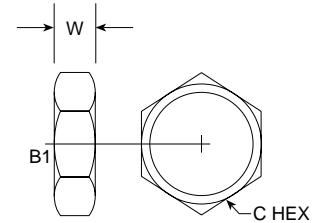
SAE# 070112



PART NO. SIZE	TUBE O.D.	B1 THREAD	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
0304-C-02	1/8	5/16-24	0.500	12.70	3/8	0.375	9.53	•		•	•
0304-C-03	3/16	3/8-24	0.562	14.27	7/16	0.438	11.13	•		•	•
0304-C-04	1/4	7/16-20	0.594	15.09	9/16	0.562	14.27	•		•	•
0304-C-05	5/16	1/2-20	0.609	15.47	5/8	0.625	15.88	•		•	•
0304-C-06	3/8	9/16-18	0.625	15.88	11/16	0.687	17.45	•		•	•
0304-C-08	1/2	3/4-16	0.750	19.05	7/8	0.875	22.23	•		•	•
0304-C-10	5/8	7/8-14	0.844	21.44	1	1.000	25.40	•		•	•
0304-C-12	3/4	1 1/16-12	0.906	23.01	1 1/4	1.250	31.75	•		•	•
0304-C-14	7/8	1 3/16-12	0.969	24.61	1 3/8	1.375	34.93	•		•	•
0304-C-16	1	1 5/16-12	1.016	25.81	1 1/2	1.500	38.10	•		•	•
0304-C-20	1 1/4	1 5/8-12	1.062	26.97	2	2.000	50.80	•		•	•
0304-C-24	1 1/2	1 7/8-12	1.188	30.18	2 1/4	2.250	57.15	•		•	•
0304-C-32	2	2 1/2-12	1.438	36.53	2 7/8	2.875	73.03	•		•	•

BHLN 0306 Series

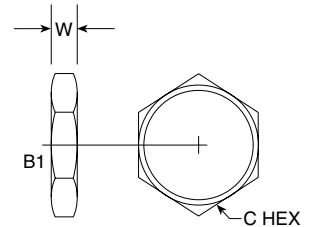
SAE# 070118 / MS# 51860



PART NO. SIZE	TUBE O.D.	B1 THREAD	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
0306-02	1/8	5/16-24	0.220	5.60	9/16	0.562	14.28	•		•	
0306-03	3/16	3/8-24	0.220	5.60	5/8	0.625	15.87	•		•	
0306-04	1/4	7/16-20	0.250	6.35	11/16	0.687	17.46	•		•	
0306-05	5/16	1/2-20	0.250	6.35	3/4	0.750	19.05	•		•	
0306-06	3/8	9/16-18	0.281	7.14	13/16	0.812	20.64	•		•	
0306-08	1/2	3/4-16	0.343	8.71	1	1.000	25.40	•		•	
0306-10	5/8	7/8-14	0.391	9.93	1 1/8	1.125	28.58	•		•	
0306-12	3/4	1 1/16-12	0.438	11.13	1 3/8	1.375	34.93	•		•	
0306-14	7/8	1 3/16-12	0.406	10.31	1 1/2	1.500	38.10	•		•	
0306-16	1	1 5/16-12	0.406	10.31	1 5/8	1.625	41.28	•		•	
0306-20	1 1/4	1 5/8-12	0.406	10.31	1 7/8	1.875	47.63	•		•	
0306-24	1 1/2	1 7/8-12	0.421	10.46	2 1/8	2.125	53.98	•		•	
0306-32	2	2 1/2-12	0.406	10.31	2 3/4	2.750	69.85	•		•	

BULN 0306-N Series

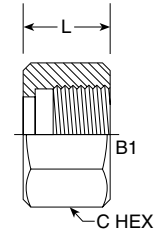
SAE # 070117



PART NO. SIZE	TUBE O.D.	B1 THREAD	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
0306-N-03	3/16	3/8-24	0.223	5.66	1/2	0.500	12.70			•	
0306-N-04	1/4	7/16-20	0.250	6.35	9/16	0.562	14.27	•		•	
0306-N-05	5/16	1/2-20	0.250	6.35	5/8	0.625	15.88	•		•	
0306-N-06	3/8	9/16-18	0.270	6.86	11/16	0.687	17.45	•		•	
0306-N-08	1/2	3/4-16	0.310	7.87	7/8	0.875	22.23	•		•	
0306-N-10	5/8	7/8-14	0.360	9.14	1	1.000	25.40	•		•	
0306-N-12	3/4	1 1/16-12	0.410	10.41	1 1/4	1.250	31.75	•		•	
0306-N-14	7/8	1 3/16-12	0.406	10.31	1 3/8	1.375	34.93	•		•	
0306-N-16	1	1 5/16-12	0.406	10.31	1 1/2	1.500	38.10	•		•	

JIC Tube Nut 0318 Series

SAE # 070110

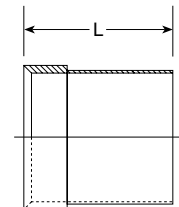


PART NO. SIZE	TUBE O.D.	B1 THREAD	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
0318-02	1/8	5/16-24	0.540	13.72	3/8	0.375	9.53	•		•	•
0318-03	3/16	3/8-24	0.600	15.24	7/16	0.438	11.13	•		•	•
0318-04	1/4	7/16-20	0.610	15.49	9/16	0.562	14.27	•		•	•
0318-05	5/16	1/2-20	0.670	17.02	5/8	0.625	15.88	•		•	•
0318-06	3/8	9/16-18	0.720	18.29	11/16	0.688	17.48	•		•	•
0318-08	1/2	3/4-16	0.840	21.34	7/8	0.875	22.23	•		•	•
0318-10	5/8	7/8-14	0.970	24.64	1	1.000	25.40	•		•	•
0318-12	3/4	1 1/16-12	1.020	25.91	1 1/4	1.250	31.75	•		•	•
0318-14	7/8	1 3/16-12	1.080	27.43	1 3/8	1.375	34.93	•		•	•
0318-16	1	1 5/16-12	1.120	28.45	1 1/2	1.500	38.10	•		•	•
0318-20	1 1/4	1 5/8-12	1.220	30.99	2	2.000	50.80	•		•	•
0318-24	1 1/2	1 7/8-12	1.410	35.81	2 1/4	2.250	57.15	•		•	•
0318-32	2	2 1/2-12	1.740	44.20	2 7/8	2.875	73.03	•		•	•
0318-40	2 1/2	3-12	1.638	41.61	3 3/8	3.375	85.73	•		•	•

PART NO. SIZE	TUBE O.D.	L LGTH	M.M.	Standard Material From Stock			
				S	FG	SS	B
V0319-02	1/8	0.340	8.64	•		•	•
V0319-03	3/16	0.340	8.64	•		•	•
V0319-04	1/4	0.410	10.41	•		•	•
V0319-05	5/16	0.440	11.18	•		•	•
V0319-06	3/8	0.500	12.70	•		•	•
V0319-08	1/2	0.560	14.22	•		•	•
V0319-10	5/8	0.660	16.76	•		•	•
V0319-12	3/4	0.680	17.27	•		•	•
V0319-14	7/8	0.760	19.30	•		•	•
V0319-16	1	0.780	19.81	•		•	•
V0319-20	1 1/4	0.910	23.11	•		•	•
V0319-24	1 1/2	1.120	28.45	•		•	•
V0319-32	2	1.190	30.23	•		•	•

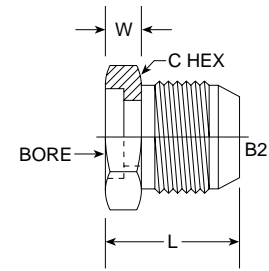
JIC Tube Sleeve 0319 Series

SAE # 070115



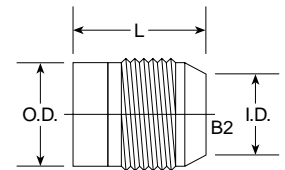
Tube Fittings & Adapters

Bore-MJ Straight 0403 Series



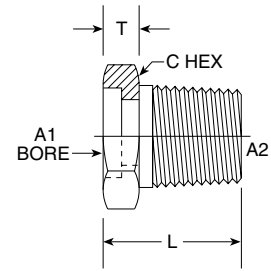
PART NO. SIZE	TUBE O.D.	B2 THREAD	BORE	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
0403-04-04	1/4	7/16-20	1/4	0.796	20.22	0.220	15.59	1/2	0.500	12.70	•		•	
0403-05-04	5/16	1/2-20	5/16	0.796	20.22	0.220	5.59	1/2	0.500	12.70	•		•	
0403-05-05	5/16	1/2-20	5/16	0.796	20.22	0.220	5.59	9/16	0.562	14.27	•		•	
0403-06-06	3/8	9/16-18	3/8	0.843	21.41	0.250	6.35	5/8	0.625	15.88	•		•	
0403-06-08	3/8	3/4-16	3/8	0.937	23.80	0.250	6.35	13/16	0.812	20.62	•		•	
NEW 0403-08-06											•		•	
0403-08-08	1/2	3/4-16	1/2	0.937	23.80	0.250	6.35	13/16	0.812	20.62	•		•	
0403-08-10	1/2	7/8-14	1/2	1.093	27.76	0.310	7.87	15/16	0.937	23.80	•		•	
0403-10-08	5/8	3/4-16	5/8	0.937	23.80	0.250	6.35	15/16	0.937	23.80	•		•	
0403-10-10	5/8	7/8-14	5/8	1.093	27.76	0.310	7.87	15/16	0.937	23.80	•		•	
0403-10-12	5/8	1 1/16-12	5/8	1.281	32.54	0.380	9.65	1 1/4	1.250	31.75	•		•	
0403-12-08	3/4	3/4-16	3/4	0.937	23.80	0.380	9.65	1 1/4	1.250	31.75	•		•	
0403-12-10	3/4	7/8-14	3/4	1.093	27.76	0.380	9.65	1 1/4	1.250	31.75	•		•	
0403-12-12	3/4	1 1/16-12	3/4	1.281	32.54	0.380	9.65	1 1/4	1.250	31.75	•		•	
0403-14-14	7/8	1 3/16-12	7/8	1.312	33.32	0.380	9.65	1 1/2	1.500	38.10	•		•	
0403-16-12	1	1 1/16-12	1	1.281	32.54	0.380	9.65	1 3/8	1.375	34.93	•		•	
0403-16-16	1	1 5/16-12	1	1.328	33.73	0.380	9.65	1 3/8	1.375	34.93	•		•	
0403-16-20	1	1 5/8-12	1	1.453	36.91	0.460	11.68	1 11/16	1.688	42.86	•		•	
0403-20-16	1 1/4	1 5/16-12	1 1/4	1.328	33.73	0.460	11.68	1 11/16	1.688	42.86	•		•	
0403-20-20	1 1/4	1 5/8-12	1 1/4	1.453	36.91	0.460	11.68	1 11/16	1.688	42.86	•		•	
0403-20-24	1 1/4	1 7/8-12	1 1/4	1.656	42.06	0.530	13.46	2	2.000	50.80	•		•	
0403-24-20	1 1/4	1 5/8-12	1 1/2	1.453	36.91	0.530	13.46	2	2.000	50.80	•		•	
0403-24-24	1 1/2	1 7/8-12	1 1/2	1.656	42.06	0.530	13.46	2	2.000	50.80	•		•	
0403-32-32	2	2 1/2-12	2	2.046	51.97	0.680	17.27	2 5/8	2.625	66.68	•		•	

MJ Tube Spud 0403-TS Series



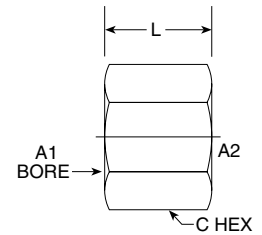
PART NO. SIZE	TUBE O.D.	B2	O.D.	I.D.	Standard Material From Stock			
					S	FG	SS	B
0403-TS-04-04	1/4	7/16-20	0.361	0.172	•			
0403-TS-06-06	3/8	9/16-18	0.471	0.297	•			
0403-TS-08-08	1/2	3/4-16	0.628	0.391	•			
0403-TS-10-10	5/8	7/8-14	0.752	0.484	•			
0403-TS-12-12	3/4	1 1/16-12	0.862	0.609	•			
0403-TS-16-16	1	1 5/8-12	1.159	0.844	•			
0403-TS-20-20	1 1/4	1 5/8-12	1.504	1.078	•			
0403-TS-24-24	1 1/2	1 7/8-12	1.628	1.312	•			

Bore-MP Straight 0404 Series



PART NO. SIZE	TUBE O.D.	A2 THREAD	A1 BORE	L LGTH	M.M.	T WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
0404-04-02	1/4	1/8-27	1/4	0.562	14.27	0.187	4.75	1/2	0.500	12.70	•		•	
0404-04-04	1/4	1/4-18	1/4	0.843	21.43	0.270	6.86	5/8	0.625	15.88	•		•	
0404-06-04	3/8	1/4-18	3/8	0.812	20.62	0.250	6.35	5/8	0.625	15.88	•		•	
0404-06-06	3/8	3/8-18	3/8	0.875	22.22	0.310	7.88	3/4	0.750	19.05	•		•	
0404-08-06	1/2	3/8-18	1/2	0.843	21.41	0.281	7.14	13/16	0.812	20.62	•		•	
0404-08-08	1/2	1/2-14	1/2	1.100	27.00	0.360	9.14	7/8	0.875	22.22	•		•	
0404-10-06	5/8	3/8-18	5/8	0.843	21.41	0.281	7.14	13/16	0.812	20.62	•		•	
0404-10-08	5/8	1/2-14	5/8	1.078	27.38	0.328	8.33	15/16	0.940	23.88	•		•	
0404-12-08	3/4	1/2-14	3/4	1.080	27.53	0.360	9.14	15/16	0.937	23.81	•		•	
0404-12-12	3/4	3/4-14	3/4	1.093	27.76	0.343	8.71	1 1/8	1.125	28.58	•		•	
0404-16-12	1	3/4-16	1	1.260	32.00	0.500	12.70	1 1/4	1.250	31.76	•		•	
0404-16-16	1	1-11 1/2	1	1.312	33.32	0.375	9.53	1 3/8	1.375	34.93	•		•	
0404-20-16	1 1/4	1-11 1/2	1 1/4	1.376	34.95	0.437	11.10	1 11/16	1.688	42.86	•		•	
0404-20-20	1 1/4	1 1/4-11 1/2	1 1/4	1.406	35.71	0.437	11.10	1 11/16	1.688	42.86	•		•	
0404-24-16	1 1/2	1-11 1/2	1.5	1.375	34.92	0.500	12.70	1 3/4	1.750	44.45	•		•	
0404-24-24	1 1/2	1 1/2-11 1/2	1 1/2	1.500	38.10	0.500	12.70	2	2.000	50.80	•		•	
0404-32-32	2	2-11 1/2	2	1.781	45.24	0.750	19.05	2 5/8	2.625	66.68	•		•	

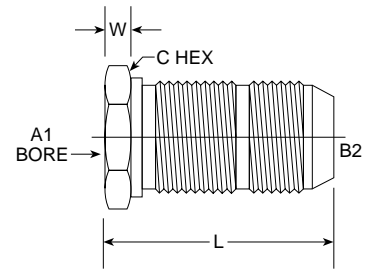
Bore-FP Straight 0405 Series



PART NO. SIZE	TUBE O.D.	A2 THREAD	A1 BORE	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
									S	FG	SS	B
0405-04-02	1/4	7/16-20	1/4	0.640	16.26	9/16	0.562	14.27	•		•	
0405-06-04	3/8	9/16-18	3/8	0.843	21.41	3/4	0.750	19.05	•		•	
0405-08-06	1/2	3/4-16	1/2	0.906	23.01	7/8	0.875	22.23	•		•	
0405-12-12	3/4	1 1/16-12	3/4	1.203	30.56	1 3/8	1.375	34.93	•		•	
0405-16-16	1	1 5/16-12	1	1.437	36.50	1 5/8	1.625	41.28	•		•	
0405-20-20	1 1/4	1 5/8-12	1 1/4	1.531	38.89	2	2.000	50.80	•		•	

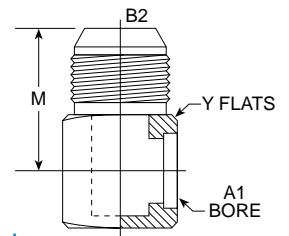
Tube Fittings & Adapters

Bore-MJ Bulkhead Straight 0406 Series



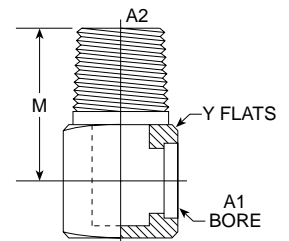
PART NO. SIZE	TUBE O.D.	B2 THREAD	A1 BORE	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
0406-08-08	1/2	3/4-16	1/2	1.845	46.45	0.375	9.52	1	1.000	25.40	•			
0406-12-12	3/4	1 1/16-12	3/4	2.300	58.42	0.500	12.70	1 3/8	1.375	34.92	•			

Bore-MJ 90° 0500 Series



PART NO. SIZE	TUBE O.D.	B2 THREAD	A1 BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0500-04-04	1/4	7/16-20	1/4	0.890	22.61	1/2	0.500	12.70	•			
0500-05-05	5/16	1/2-20	5/16	0.953	24.21	9/16	0.562	14.27	•			
0500-06-04	3/8	9/16-18	3/8	1.062	26.97	5/8	0.625	15.88	•			
0500-06-06	3/8	9/16-18	3/8	1.062	26.97	5/8	0.625	15.88	•			
0500-08-08	1/2	3/4-16	1/2	1.250	31.75	13/16	0.812	20.62	•			
0500-10-08	1/2	3/4-16	5/8	1.310	33.28	15/16	0.937	23.82	•			
0500-10-10	5/8	7/8-14	5/8	1.453	36.91	15/16	0.937	23.80	•			
0500-12-08	5/8	7/8-14	5/8	1.453	36.91	15/16	0.937	23.80	•			
0500-12-12	3/4	1 1/16-12	3/4	1.656	42.06	1 1/8	1.125	28.58	•		•	
0500-14-14	7/8	1 3/16-12	7/8	1.734	44.04	1 1/4	1.250	31.75	•			
NEW 0500-16-12	1	1 5/16-12	1	1.812	46.02	1 3/8	1.375	34.93	•		•	
0500-16-16	1 1/4	1 5/8-12	1 1/4	2.062	52.37	1 3/4	1.750	44.45	•			
0500-20-16	1 1/4	1 5/8-12	1 1/4	2.062	52.37	1 3/4	1.750	44.45	•			
0500-24-20	1 1/2	1 7/8-12	1 1/2	2.328	59.13	2	2.000	50.80	•			
0500-24-24	1 1/2	1 7/8-12	1 1/2	2.328	59.13	2	2.000	50.80	•			
0500-32-32	2	2 1/2-12	2	3.062	77.77	2 5/8	2.625	66.68	•			

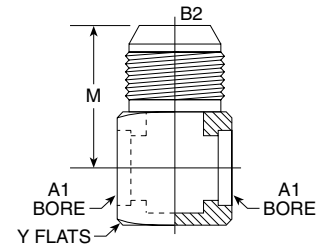
Bore-MP 90° 0501 Series



PART NO. SIZE	TUBE O.D.	A2 THREAD	A1 BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0501-06-04	3/8	1/4-18	3/8	1.055	26.8	5/8	0.625	15.88	•		•	

Bore-Bore-MJ Tee

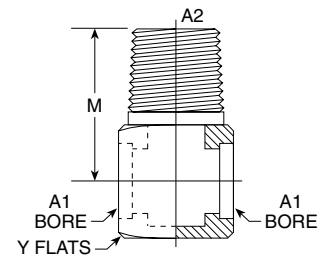
0600 Series



PART NO. SIZE	TUBE O.D.	B2 THREAD	A1 BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0600-04-04-04	1/4	7/16-20	1/4	0.890	22.61	1/2	0.500	12.70	•			
0600-05-05-05	5/16	1/2-20	5/16	0.953	24.21	9/16	0.562	14.27	•			
0600-06-06-06	3/8	9/16-18	3/8	1.062	26.97	5/8	0.625	15.88	•			
0600-08-08-08	1/2	3/4-16	1/2	1.250	31.75	13/16	0.812	20.62	•			
0600-10-10-10	5/8	7/8-14	5/8	1.453	36.91	15/16	0.937	23.80	•			
0600-12-12-12	3/4	1 1/16-12	3/4	1.656	42.06	1-1/8	1.125	28.58	•			
0600-14-14-14	7/8	1 3/16-12	7/8	1.734	44.04	1-1/4	1.250	31.75	•			
0600-16-16-16	1	1 5/16-12	1	1.812	46.02	1-3/8	1.375	34.93	•			
0600-20-20-20	1 1/4	1 5/8-12	1 1/4	2.062	52.37	1-3/4	1.750	44.45	•			
0600-24-24-24	1 1/2	1 7/8-12	1 1/2	2.328	59.13	2	2.000	50.80	•			

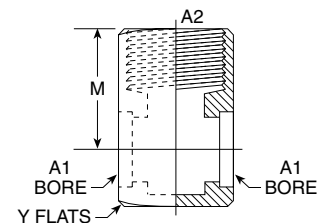
Bore-Bore-MP Tee

0601 Series



PART NO. SIZE	TUBE O.D.	A2 THREAD	A1 BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0601-16-16-16	1	1 11-1/2	1	1.970	50.04	1 3/8	1.375	34.93	•			

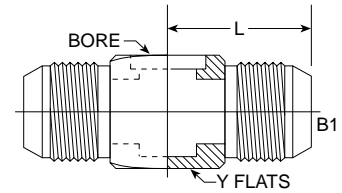
Bore-Bore-FP 0602 Series



PART NO. SIZE	TUBE O.D.	A2 THREAD	A1 BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0602-06-06-04	3/8	1/4-18	3/8	0.900	22.86	3/4	0.750	19.00	•			
0602-16-16-16	1	1 11-1/2	1	1.650	41.91	1 5/8	1.625	41.28	•		•	

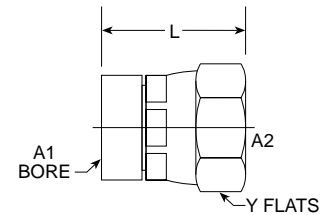
Tube Fittings & Adapters

Bore-MJ-MJ Tee 0702 Series



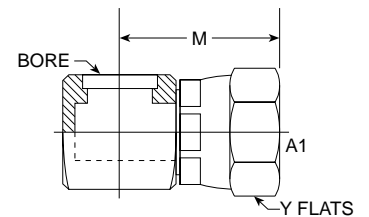
PART NO. SIZE	TUBE O.D.	B1 THREAD	BORE	L LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0702-05-05-05	5/16	1/2-20	5/16	0.970	24.64	9/16	0.562	14.28	•			
0702-06-06-06	3/8	9/16-18	3/8	1.090	27.69	5/8	0.625	15.88	•			
0702-08-08-08	1/2	3/4-16	1/2	1.250	31.75	13/16	0.812	20.63	•			
0702-10-10-10	5/8	7/8-14	5/8	1.450	36.83	15/16	0.937	23.80	•			
0702-12-12-12	3/4	1 1/16	3/4	1.660	42.16	1 1/8	1.125	28.58	•			
0702-16-16-16	1	1 5/16	1	1.810	45.98	1 3/8	1.375	34.92	•			

Bore-FPS Straight 0800 Series



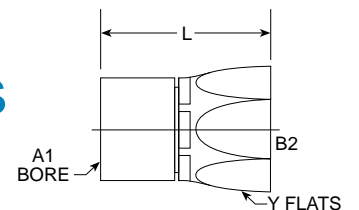
PART NO. SIZE	TUBE O.D.	A2 NPTF	A1 BORE	L LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0800-08-06	1/2	3/8-18	1/2	1.023	25.99	7/8	0.875	22.22	•			

Bore-FPS 90° 0801 Series



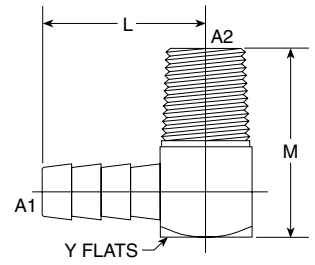
PART NO. SIZE	TUBE O.D.	A1 NPTF	BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
0801-06-04	3/8	1/4-18	3/8	0.880	22.36	11/16	0.687	17.47	•			

Bore-FJS Straight 0900 Series



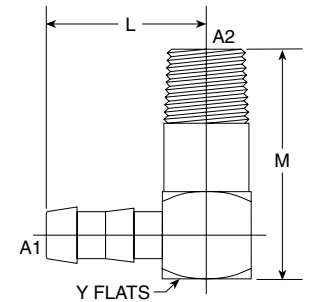
PART NO. SIZE	TUBE O.D.	B2 THREAD	A1 BORE	L LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
NEW 0900-04-04	1/4	7/16-20	1/4	0.900	22.86	9/16	0.562	14.28	•			
NEW 0900-08-08	3/8	1 1/16-12	3/8	1.625	41.28	1 1/4	1.250	31.75	•			
NEW 0900-12-12	3/4	1 1/16-12	3/4	1.625	41.28	1 1/4	1.250	31.75	•			
NEW 0900-16-16	1 1/4	1 5/8-12	1 1/4	1.950	49.54	2	2.000	50.80	•			

Brass Elbow 0954 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
									S	FG	SS	B		
<i>NEW</i> 0954														•

Brass Elbow 0954-L Series

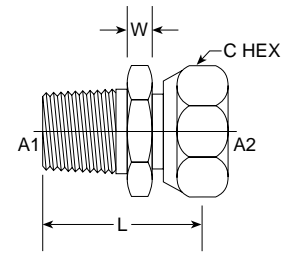


PART NO. SIZE	TUBE O.D.	A1 NPTF	BORE	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
									S	FG	SS	B		
<i>NEW</i> 0954-L														•

Tube Fittings & Adapters

MP-FPS Straight 1404 Series

SAE # 140130

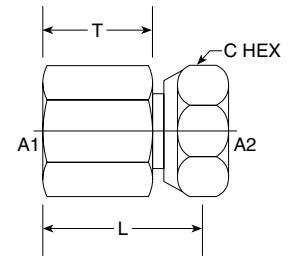


PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
1404-02-02	1/8	1/8-27	1/8-27	0.940	23.88	0.180	4.57	9/16	0.562	14.27	•		•	
1404-02-04	1/8 1/4	1/8-27	1/4-18	1.000	25.40	0.183	4.65	11/16	0.687	17.45	•		•	
1404-04-02	1/4 1/8	1/4-18	1/8-27	1.187	30.15	0.253	6.43	11/16	0.687	17.45	•		•	
1404-04-04*	1/4	1/4-18	1/4-18	1.250	31.75	0.240	6.10	11/16	0.687	17.45	•		•	
1404-04-06	1/4 3/8	1/4-18	3/8-18	1.250	31.75	0.253	6.43	7/8	0.875	22.23	•		•	
1404-04-08	1/4 1/2	1/4-18	1/2-14	1.424	36.17	0.370	9.40	7/8	0.875	22.23	•		•	
1404-06-04	3/8 1/4	3/8-18	1/4-18	1.312	33.32	0.313	7.95	7/8	0.875	22.23	•		•	
1404-06-06*	3/8	3/8-18	3/8-18	1.310	33.27	0.313	7.95	7/8	0.875	22.23	•		•	
1404-06-08	3/8 1/2	3/8-18	1/2-14	1.310	33.27	0.266	6.76	1	1.000	25.40	•		•	
1404-08-04	1/2 1/4	1/2-14	1/4-18	1.531	38.89	0.370	9.40	1	1.000	25.40	•		•	
1404-08-06	1/2 3/8	1/2-14	3/8-18	1.590	40.39	0.403	10.24	1	1.000	25.40	•		•	
1404-08-08*	1/2	1/2-14	1/2-14	1.620	41.15	0.370	9.40	1	1.000	25.40	•		•	
1404-08-12	1/2 3/4	1/2-14	3/4-14	1.750	44.45	0.391	9.93	1 1/4	1.250	31.75	•		•	
1404-12-06	3/4 3/8	3/4-14	3/8-18	1.550	39.37	0.370	9.40	1 1/4	1.250	31.75	•		•	
1404-12-08	3/4 1/2	3/4-14	1/2-14	1.650	41.91	0.386	9.80	1 1/4	1.250	31.75	•		•	
1404-12-12*	3/4	3/4-14	3/4-14	1.750	44.45	0.370	9.40	1 1/4	1.250	31.75	•		•	
1404-12-16	3/4 1	3/4-14	1-11 1/2	1.812	46.02	0.430	10.92	1 1/2	1.500	38.10	•		•	
1404-12-20	3/4 1 1/4	3/4-14	1 1/4-11 1/2	1.840	46.74	0.490	12.45	1 7/8	1.875	47.63	•		•	
1404-16-06	1 3/8	1-11 1/2	3/8-18	1.830	46.48	0.430	10.92	1 1/2	1.500	38.10	•		•	
1404-16-08	1 1/2	1-11 1/2	1/2-14	1.810	45.97	0.430	10.92	1 1/2	1.500	38.10	•		•	
1404-16-12	1 3/4	1-11 1/2	3/4-14	2.010	51.05	0.430	10.92	1 1/2	1.500	38.10	•		•	
1404-16-16	1	1-11 1/2	1-11 1/2	2.000	50.80	0.430	10.92	1 1/2	1.500	38.10	•		•	
1404-16-20	1 1/4	1-11 1/2	1 1/4-11 1/2	2.050	52.07	0.490	12.45	1 7/8	1.875	47.63	•		•	
NEW 1404-16-24											•		•	
1404-20-16	1 1/4 1	1 1/4-11 1/2	1-11 1/2	2.017	51.23	0.490	12.45	1 7/8	1.875	47.63	•		•	
1404-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.060	52.32	0.490	12.45	1 7/8	1.875	47.63	•		•	
1404-20-24	1 1/4 1 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2.093	53.16	0.490	12.45	2 1/8	2.125	53.98	•		•	
1404-24-20	1 1/4 1 1/4	1 1/2-11 1/2	1 1/4-11 1/2	2.187	55.55	0.490	12.45	2 1/8	2.125	53.98	•		•	
1404-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.190	55.63	0.490	12.45	2 1/8	2.125	53.98	•		•	
1404-32-32	2	2-11 1/2	2-11 1/2	2.380	60.45	0.610	15.49	2 5/8	2.625	66.68	•		•	

*available in blanks

FP-FPS Straight 1405 Series

SAE # 140131

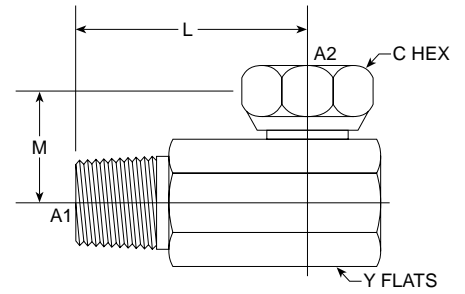


PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPSM	L LGTH	M.M.	T WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
1405-02-02	1/8	1/8-27	1/8-27	0.880	22.35	0.500	12.70	9/16	0.562	14.27	•		•	
1405-02-04	1/8 1/4	1/8-27	1/4-18	1.260	32.00	0.812	20.62	11/16	0.687	17.45	•		•	
1405-04-02	1/4 1/8	1/4-18	1/8-27	1.170	29.72	0.812	20.62	11/16	0.687	17.45	•		•	
1405-04-04	1/4	1/4-18	1/4-18	1.240	31.50	0.812	20.62	11/16	0.687	17.45	•		•	
1405-04-06	1/4 3/8	1/4-18	3/8-18	1.250	31.75	0.812	20.62	11/16	0.687	17.45	•		•	
NEW 1405-04-08											•		•	
1405-06-04	3/8 1/4	3/8-18	1/4-18	1.312	33.32	0.875	22.23	7/8	0.875	22.23	•		•	
1405-06-06	3/8	3/8-18	3/8-18	1.310	33.27	0.875	22.23	7/8	0.875	22.23	•		•	
1405-06-08	3/8 1/2	3/8-18	1/2-14	1.357	34.47	0.875	22.23	1	1.000	25.40	•		•	
1405-08-04	1/2 1/4	3/4-16	1/4-18	1.550	39.37	1.120	28.45	1	1.000	25.40	•		•	
1405-08-06	1/2 3/8	1/2-14	3/8-18	1.453	36.91	1.036	26.31	1	1.000	25.40	•		•	
1405-08-08	1/2	1/2-14	1/2-14	1.500	38.10	1.015	25.78	1	1.000	25.40	•		•	
1405-08-12	1/2 3/4	1/2-14	3/4-14	1.620	41.15	1.015	25.78	1 1/4	1.250	31.75	•		•	
1405-12-08	3/4 1/2	3/4-14	1/2-14	1.530	38.86	1.023	25.98	1 1/4	1.250	31.75	•		•	
1405-12-12	3/4	3/4-14	3/4-14	1.620	41.15	1.015	25.78	1 1/4	1.250	31.75	•		•	
1405-12-16	3/4 1	3/4-14	1-11 1/2	1.920	48.77	1.261	32.03	1 1/2	1.500	38.10	•		•	
1405-16-12	1 3/4	1-11 1/2	3/4-14	1.930	49.02	1.261	32.03	1 1/2	1.500	38.10	•		•	
1405-16-16	1	1-11 1/2	1-11 1/2	2.000	50.80	1.375	34.93	1 1/2	1.500	38.10	•		•	
1405-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.000	50.80	1.281	32.54	1 7/8	1.875	47.63	•		•	
1405-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.000	50.80	1.312	33.32	2 1/8	2.125	53.98	•		•	
1405-32-32	2	2-11 1/2	2-11 1/2	2.120	53.85	1.375	34.93	2 5/8	2.625	66.68	•		•	

Tube Fittings & Adapters

MP-FPS 90° 1501 Series

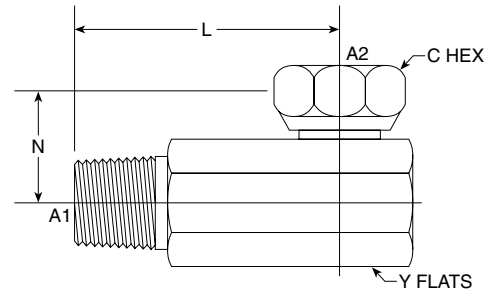
SAE # 140230



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPSM	L LGTH	M		C HEX	C HEX	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
					M.M.	M.M.						S	FG	SS	B		
1501-02-02	1/8	1/8-27	1/8-27	0.940	23.88	0.690	17.53	9/16	0.562	14.27	9/16	0.562	14.27	•		•	
1501-02-04	1/8 1/4	1/8-27	1/4-18	1.190	30.23	0.750	19.05	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
1501-04-02	1/4 1/8	1/4-18	1/8-27	1.010	25.65	0.700	17.78	9/16	0.562	14.27	11/16	0.687	17.45	•		•	
1501-04-04*	1/4	1/4-18	1/4-18	1.190	30.23	0.750	19.05	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
1501-04-06	1/4 3/8	1/4-18	3/8-18	1.500	38.10	0.937	23.80	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
1501-04-08	1/4 1/2	1/4-18	1/2-14	1.620	41.15	1.000	25.40	1	1.000	25.40	1	1.000	25.40	•		•	
1501-06-04	3/8 1/4	3/8-18	1/4-18	1.500	38.10	0.858	21.79	11/16	0.687	17.45	7/8	0.875	22.23	•		•	
1501-06-06*	3/8	3/8-18	3/8-18	1.500	38.10	0.940	23.88	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
1501-06-08	3/8 1/2	3/8-18	1/2-14	1.586	40.28	0.937	23.80	1	1.000	25.40	1	1.000	25.40	•		•	
1501-06-12	3/4	3/8-18	3/4-14	1.125	28.58	1.810	45.97	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
1501-08-04	1/2 1/4	3/4-16	1/4-18	1.750	44.45	0.920	23.37	11/16	0.687	17.45	1	1.000	25.40	•		•	
1501-08-06	1/2 3/8	1/2-14	3/8-18	1.750	44.45	1.000	25.40	1	1.000	25.40	1	1.000	25.40	•		•	
1501-08-08*	1/2	1/2-14	1/2-14	1.875	47.63	1.500	38.10	1	1.000	25.40	1	1.000	25.40	•		•	
1501-08-12	1/2 3/4	1/2-14	3/4-14	1.250	31.75	1.190	30.23	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
1501-12-04	3/4 1/4	3/4-14	1/4-18	2.000	50.80	0.960	24.38	11/16	0.687	17.45	1 1/4	1.250	31.75	•		•	
1501-12-06	3/4 3/8	3/4-14	3/8-18	2.000	50.80	1.020	25.91	7/8	0.875	22.23	1 1/4	1.250	31.75	•		•	
1501-12-08	3/4 1/2	3/4-14	1/2-14	2.000	50.80	1.170	29.72	1	1.000	25.40	1 1/4	1.250	31.75	•		•	
1501-12-12*	3/4	3/4-14	3/4-14	2.000	50.80	1.190	30.23	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
1501-12-16	3/4 1	3/4-14	1-11 1/2	2.190	55.63	1.440	36.58	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
1501-12-20	3/4 1 1/4	3/4-14	1 1/4-11 1/2	2.370	60.20	1.620	41.15	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•		•	
1501-16-08	1 1 1/2	1-11 1/2	1/2-14	2.380	60.45	1.230	31.24	1	1.000	25.40	1 1/2	1.500	38.10	•		•	
1501-16-12	1 3/4	1-11 1/2	3/4-14	2.380	60.45	1.390	35.31	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•		•	
1501-16-16	1	1-11 1/2	1-11 1/2	2.380	60.45	1.440	36.58	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
1501-16-20	1 1 1/4	1-11 1/2	1 1/4-11 1/2	2.620	66.55	1.620	41.15	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•		•	
1501-20-12	1 1/4 3/4	1 1/4-11 1/2	3/4-14	2.620	66.55	1.570	39.88	1 1/4	1.250	31.75	1 7/8	1.875	47.63	•		•	
1501-20-16	1 1/4 1	1 1/4-11 1/2	1-11 1/2	2.620	66.55	1.580	40.13	1 1/2	1.500	38.10	1 7/8	1.875	47.63	•		•	
1501-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.620	66.55	1.620	41.15	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•		•	
1501-20-24	1 1/4 1 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2.810	71.37	1.720	43.69	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•		•	
1501-24-20	1 1/2 1 1/4	1 1/2-11 1/2	1 1/4-11 1/2	2.810	71.37	1.750	44.45	1 7/8	1.875	47.63	2 1/8	2.125	53.98	•		•	
1501-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.810	71.37	1.750	44.45	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•		•	
1501-32-32	2	2-11 1/2	2-11 1/2	3.120	79.25	2.310	58.67	2 5/8	2.625	66.68	2 5/8	2.625	66.68	•		•	

*Note: Available in blanks.

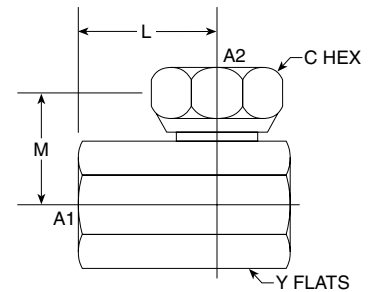
MP-FPS 90° Long 1501-L Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPSM	L LGTH	N		C		Y			Standard Material From Stock					
					M.M.	LGTH M.M.	HEX	HEX	M.M.	FLATS	FLATS	M.M.	S	FG	SS	B	
1501-L-02-02	1/8	1/8-27	1/8-27	1.640	41.66	0.940	23.88	9/16	0.562	14.27	9/16	0.562	14.27	•		•	
1501-L-04-04	1/4	1/4-18	1/4-18	2.250	57.15	1.190	30.23	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
1501-L-06-06	3/8	3/8-18	3/8-18	2.760	70.10	1.500	38.10	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
NEW 1501-L-08-06														•		•	
1501-L-08-08	1/2	1/2-14	1/2-14	3.190	81.03	1.500	38.10	1	1.000	25.40	1	1.000	25.40	•		•	
1501-L-12-12	3/4	3/4-14	3/4-14	3.660	92.96	2.000	50.80	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
1501-L-16-16	1	1 11-1/2	1 11-1/2	4.330	109.99	1.440	36.58	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	

FP-FPS 90° 1502 Series

SAE # 140231

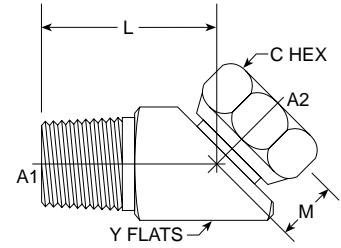


PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPSM	L LGTH	M		C		Y			Standard Material From Stock					
					M.M.	LGTH M.M.	HEX	HEX	M.M.	FLATS	FLATS	M.M.	S	FG	SS	B	
1502-02-02	1/8	1/8-27	1/8-27	0.656	16.66	0.687	17.45	9/16	0.560	14.22	9/16	0.560	14.22	•			
1502-02-04	1/8 1/4	1/8-27	1/4-18	0.781	19.84	0.690	17.53	11/16	0.687	17.45	11/16	0.687	17.45	•			
1502-04-02	1/4 1/8	1/4-18	1/8-27	0.750	19.05	0.937	23.80	9/16	0.560	14.22	11/16	0.687	17.45	•			
1502-04-04	1/4	1/4-18	1/4-18	0.781	19.84	0.937	23.80	11/16	0.687	17.45	11/16	0.687	17.45	•			
1502-04-06	1/4 3/8	1/4-18	3/8-18	0.937	23.80	1.062	26.97	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
1502-06-04	3/8 1/4	3/8-18	1/4-18	0.796	20.22	1.062	26.97	11/16	0.687	17.45	7/8	0.875	22.23	•		•	
1502-06-06	3/8	3/8-18	3/8-18	0.937	23.80	1.062	26.97	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
1502-06-08	3/8 1/2	3/8-18	1/2-14	1.000	25.40	1.250	31.75	1	1.000	25.40	1	1.000	25.40	•		•	
1502-08-04	1/2 1/4	3/4-16	1/4-18	0.937	23.80	1.250	31.75	11/16	0.687	17.45	1	1.000	25.40	•		•	
1502-08-06	1/2 3/8	1/2-14	3/8-18	1.000	25.40	1.250	31.75	7/8	0.875	22.23	1	1.000	25.40	•		•	
1502-08-08	1/2	1/2-14	1/2-14	1.000	25.40	1.250	31.75	1	1.000	25.40	1	1.000	25.40	•		•	
1502-08-12	1/2 3/4	1/2-14	3/4-14	1.250	31.75	1.437	36.50	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
1502-12-08	3/4	3/4-14	1/2-14	1.125	28.58	1.437	36.50	1	1.000	25.40	1 1/4	1.250	31.75	•		•	
1502-12-12	3/4 1/2	3/4-14	3/4-14	1.250	31.75	1.437	36.50	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•	•	•	
1502-12-16	3/4 1	3/4-14	1-11 1/2	1.390	35.31	1.750	44.45	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
1502-16-12	1 3/4	1-11 1/2	3/4-14	1.375	34.93	1.750	44.45	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•		•	
1502-16-16	1	1-11 1/2	1-11 1/2	0.390	09.91	1.750	44.45	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•	•	•	
1502-20-16	1 1/4 1	1 1/4-11 1/2	1-11 1/2	1.626	41.30	2.000	50.80	1 1/2	1.500	38.10	1 7/8	1.875	47.63	•		•	
1502-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.656	42.06	2.000	50.80	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•		•	
1502-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.734	44.04	2.250	57.15	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•		•	
1502-32-32	2	2-11 1/2	2-11 1/2	2.312	58.72	2.500	63.50	2 5/8	2.625	66.68	2 5/8	2.625	66.68	•		•	

Tube Fittings & Adapters

MP-FPS 45° 1503 Series

SAE # 140330

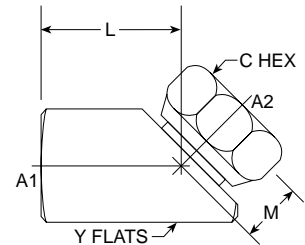


PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	L LGTH	M		C HEX	C HEX	Y FLATS	Y FLATS	Y FLATS	Standard Material From Stock					
					M.M.	LGTH						M.M.	M.M.	S	FG	SS	B
1503-02-02	1/8	1/8-27	1/8-27	0.620	15.75	0.500	12.70	9/16	0.562	14.27	9/16	0.562	14.27	•	•	•	
1503-02-04	1/8 1/4	1/8-27	1/4-18	0.656	16.66	0.468	11.89	11/16	0.687	17.45	11/16	0.687	17.45	•			
1503-04-02	1/4 1/8	1/4-18	1/8-27	0.910	23.11	0.510	12.95	9/16	0.562	14.27	11/16	0.687	17.45	•			
1503-04-04*	1/4	1/4-18	1/4-18	0.940	23.88	0.690	17.53	11/16	0.687	17.45	11/16	0.687	17.45	•	•	•	
1503-04-06	1/4 3/8	1/4-18	3/8-18	0.750	19.05	1.062	26.97	7/8	0.875	22.23	7/8	0.875	22.23	•			
1503-04-08	1/4 1/2	1/4-18	1/2-14	1.310	33.27	0.690	17.53	1	1.000	25.40	1	1.000	25.40	•			
1503-06-04	3/8 1/4	3/8-18	1/4-18	0.625	15.88	1.062	26.97	11/16	0.687	17.45	7/8	0.875	22.23	•			
1503-06-06	3/8	3/8-18	3/8-18	1.060	26.92	0.750	19.05	7/8	0.875	22.23	7/8	0.875	22.23	•	•	•	
1503-06-08	3/8 3/8	3/8-18	1/2-14	0.781	19.84	1.187	30.15	1	1.000	25.40	1	1.000	25.40	•			
1503-08-04	1/2 1/4	3/4-16	1/4-18	0.734	18.64	1.375	34.93	11/16	0.687	17.45	1	1.000	25.40	•			
1503-08-06	1/2 3/8	1/2-14	3/8-18	0.828	21.03	1.375	34.93	7/8	0.875	22.23	1	1.000	25.40	•			
1503-08-08*	1/2	1/2-14	1/2-14	1.310	33.27	0.880	22.35	1	1.000	25.40	1	1.000	25.40	•	•	•	
1503-08-12	1/2 3/4	1/2-14	3/4-14	1.500	38.10	1.000	25.40	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
1503-12-06	3/8	3/4-14	3/8-18	1.326	33.68	1.000	25.40	7/8	0.875	22.23	1 1/4	1.250	31.75	•			
1503-12-08	3/4 1/2	3/4-14	1/2-14	0.875	22.23	1.150	29.21	1	1.000	25.40	1 1/4	1.250	31.75	•	•	•	
1503-12-12	3/4	3/4-14	3/4-14	1.500	38.10	1.000	25.40	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•	•	•	
1503-12-16	3/4 1	3/4-14	1-11 1/2	0.046	01.17	1.312	33.32	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
1503-16-12	1 3/4	1-11 1/2	3/4-14	1.031	26.19	1.500	38.10	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•			
1503-16-16	1	1-11 1/2	1-11 1/2	1.500	38.10	1.060	26.92	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•	•	•	
1503-16-20	1 1 1/4	1-11 1/2	1 1/4-11 1/2	1.750	44.45	1.065	27.05	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			
1503-20-16	1 1/4 1	1 1/4-11 1/2	1-11 1/2	1.296	32.92	1.796	45.62	1 1/2	1.500	38.10	1 7/8	1.875	47.63	•			
1503-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.750	44.45	1.250	31.75	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			
1503-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.940	49.28	1.380	35.05	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•	•	•	
1503-32-32	2	2-11 1/2	2-11 1/2	2.000	50.80	1.500	38.10	2 5/8	2.625	66.68	2 5/8	2.625	66.68	•			

*Note: Available in blanks.

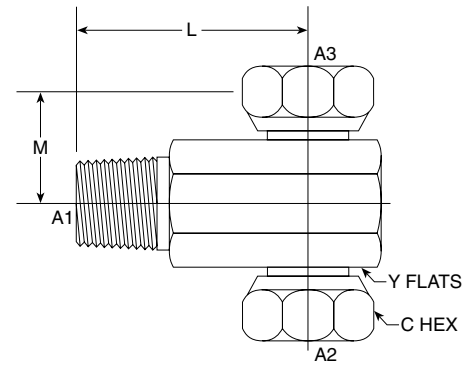
FP-FPS 45° 1504 Series

SAE # 140331



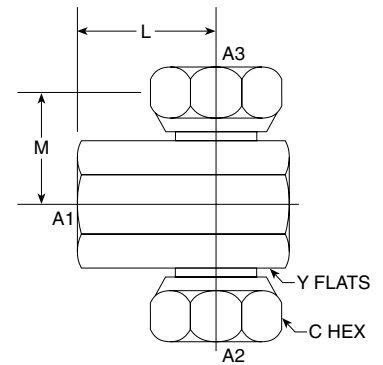
PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	L LGTH	M		C HEX	C HEX	Y FLATS	Y FLATS	Y FLATS	Standard Material From Stock					
					M.M.	LGTH						M.M.	M.M.	S	FG	SS	B
1504-02-02	1/8	1/8-27	1/8-27	0.500	12.70	0.460	11.68	9/16	0.562	14.27	9/16	0.562	14.27				
1504-02-04	1/8 1/4	1/8-27	1/4-18	0.500	12.70	0.560	14.22	11/16	0.687	17.45	11/16	0.687	17.45				
1504-04-04	1/4	1/4-18	1/4-18	0.656	16.66	0.906	23.01	11/16	0.687	17.45	11/16	0.687	17.45				
1504-04-06	1/4 3/8	1/4-18	3/8-18	0.734	18.64	1.004	25.50	7/8	0.875	22.23	7/8	0.875	22.23				
1504-06-04	3/8 1/4	3/8-18	1/4-18	1.062	26.97	0.625	15.88	11/16	0.687	17.45	7/8	0.875	22.23				
1504-06-06	3/8	3/8-18	3/8-18	0.734	18.64	1.062	26.97	7/8	0.875	22.23	7/8	0.875	22.23				
1504-06-08	3/8 1/2	3/8-18	1/2-14	0.781	19.84	1.375	34.93	1	1.000	25.40	1	1.000	25.40				
1504-08-06	1/2 3/8	1/2-14	3/8-18	1.375	34.93	0.785	19.94	7/8	0.875	22.23	1	1.000	25.40				
1504-08-08	1/2	1/2-14	1/2-14	0.781	19.84	1.375	34.93	1	1.000	25.40	1	1.000	25.40				
NEW 1504-12-08																	
1504-12-12	3/4	3/4-14	3/4-14	1.000	25.40	1.250	31.75	1 1/4	1.250	31.75	1 1/4	1.250	31.75				
1504-16-12	1 3/4	1-11 1/2	3/4-14	1.500	38.10	1.031	26.19	1 1/4	1.250	31.75	1 1/2	1.500	38.10				
1504-16-16	1	1-11 1/2	1-11 1/2	1.046	26.57	1.500	38.10	1 1/2	1.500	38.10	1 1/2	1.500	38.10				
1504-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.328	33.73	1.781	45.24	1 7/8	1.875	47.63	1 7/8	1.875	47.63				
1504-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.250	31.75	1.968	49.99	2 1/8	2.125	53.98	2 1/8	2.125	53.98				

MP-FPS-FPS Tee 1601 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	A3 NPSM	L		M		C HEX	C HEX M.M.	Y FLATS	Y FLATS M.M.	Standard Material From Stock					
					LGTH	M.M.	LGTH	M.M.					S	FG	SS	B		
1601-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.940	23.88	0.690	17.53	9/16	0.562	14.27	9/16	0.562	14.27	•			
1601-02-04-04	1/8	1/8-27	1/4-18	1/4-18	1.190	30.23	0.712	18.08	11/16	0.687	17.45	11/16	0.687	17.45	•			
1601-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.190	30.23	0.750	19.05	11/16	0.687	17.45	11/16	0.687	17.45	•			
1601-04-06-06	1/4	1/4-18	3/8-18	3/8-18	1.500	38.10	0.822	20.88	7/8	0.875	22.23	7/8	0.875	22.23	•			
1601-06-04-04	3/8	3/8-18	1/4-18	1/4-18	1.500	38.10	0.872	22.15	11/16	0.687	17.45	7/8	0.875	22.23	•			
1601-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.500	38.10	0.940	23.88	7/8	0.875	22.23	7/8	0.875	22.23	•	•		
1601-08-04-04	1/2	1/2-14	1/4-18	1/4-18	1.750	44.45	0.937	23.80	11/16	0.687	17.45	1	1.000	25.40	•			
1601-08-06-06	1/2	1/2-14	3/8-18	3/8-18	1.750	44.45	1.000	25.40	7/8	0.875	22.23	1	1.000	25.40	•			
1601-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.810	45.97	1.000	25.40	1	1.000	25.40	1	1.000	25.40	•		•	
1601-12-08-08	3/4	3/4-14	1/2-14	1/2-14	2.000	50.80	2.125	53.98	1	1.000	25.40	1 1/4	1.250	31.75	•			
1601-12-12-12	3/4	3/4-14	3/4-14	3/4-14	2.000	50.80	1.190	30.23	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
1601-12-16-16	3/4	3/4-14	1-11 1/2	1-11 1/2	2.000	50.80	1.390	35.31	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
1601-16-12-12	1	1-11 1/2	3/4-14	3/4-14	2.375	60.33	1.338	33.99	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•			
1601-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	2.380	60.45	1.440	36.58	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
1601-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.620	66.55	1.620	41.15	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			
1601-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.810	71.37	1.750	44.45	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•			

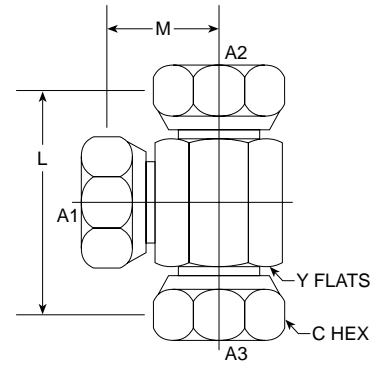
FP-FPS-FPS Tee 1602 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	A3 NPSM	L		M		C HEX	C HEX M.M.	Y FLATS	Y FLATS M.M.	Standard Material From Stock					
					LGTH	M.M.	LGTH	M.M.					S	FG	SS	B		
1602-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.656	16.66	0.687	17.45	9/16	0.562	14.27	9/16	0.562	14.27	•			
1602-04-04-04	1/4	1/4-18	1/4-18	1/4-18	0.937	23.80	0.781	19.84	11/16	0.687	17.45	11/16	0.687	17.45	•			
1602-06-04-04	3/8	3/8-18	1/4-18	1/4-18	1.062	26.97	0.872	22.15	11/16	0.687	17.45	7/8	0.875	22.23	•			
1602-06-06-06	3/8	3/8-18	3/8-18	3/8-18	0.937	23.80	1.062	26.97	7/8	0.875	22.23	7/8	0.875	22.23	•			
1602-08-06-06	1/2	1/2-14	3/8-18	3/8-18	1.250	31.75	1.000	25.40	7/8	0.875	22.23	1	1.000	25.40	•			
1602-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.000	25.40	1.250	31.75	1	1.000	25.40	1	1.000	25.40	•			
1602-08-12-12	1/2	1/2-14	3/4-14	3/4-14	1.250	31.75	1.437	36.50	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
1602-12-08-08	3/4	3/4-14	1/2-14	1/2-14	1.437	36.50	1.125	28.58	1	1.000	25.40	1 1/4	1.250	31.75	•			
1602-12-12-12	3/4	3/4-14	3/4-14	3/4-14	1.250	31.75	1.437	36.50	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
1602-16-12-12	1	1-11 1/2	3/4-14	3/4-14	1.750	44.45	1.375	34.93	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•			
1602-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1.755	44.58	1.390	35.31	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
1602-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.000	50.80	1.656	42.06	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			

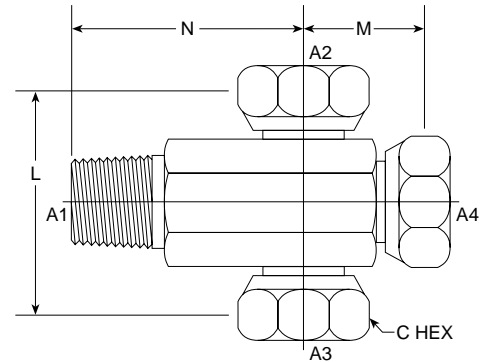
Tube Fittings & Adapters

FPS-FPS-FPS Tee 1603 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	A3 NPSM	L LGTH	M M.M.	C HEX	C HEX	Y M.M.	Y FLATS	Y M.M.	Standard Material From Stock						
												S	FG	SS	B			
1603-02-02-02	1/8	1/8-27	1/8-27	1/8-27	1.406	35.71	0.656	16.66	9/16	0.562	14.27	9/16	0.562	14.27	•			
1603-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.718	43.64	0.781	19.84	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
1603-04-04-06	1/4	1/4-18	1/4-18	3/8-18	1.718	43.64	0.878	22.30	11/16	0.687	17.45	7/8	0.875	22.23	•			
1603-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.718	43.64	0.937	23.80	7/8	0.875	22.23	7/8	0.875	22.23	•			
1603-06-06-08	3/8	3/8-18	3/8-18	1/2-14	2.190	55.63	0.949	24.10	1	1.000	25.40	1	1.000	25.40	•			
1603-08-08-08	1/2	1/2-14	1/2-14	1/2-14	2.218	56.34	1.000	25.40	1	1.000	25.40	1	1.000	25.40	•	•		
1603-12-12-12	3/4	3/4-14	3/4-14	3/4-14	2.781	70.64	1.250	31.75	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
1603-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	3.062	77.77	1.390	35.31	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
1603-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	3.312	84.12	1.656	42.06	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			

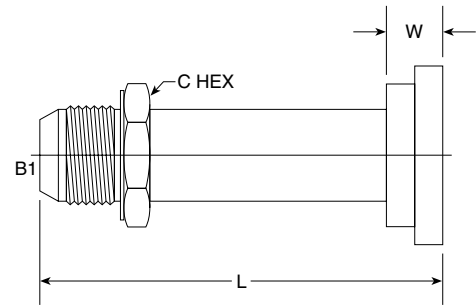
MP-FPS-FPS-FPS Cross 1604 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPSM	A3 NPSM	A4 NPSM	L LGTH	M M.M.	N LGTH	C HEX	C HEX	Y M.M.	Standard Material From Stock						
												S	FG	SS	B			
1604-04-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1/4-18	1.580	40.13	0.880	22.35	1.09	27.69	11/16	0.687	17.46	•			

MJ-Flange Straight Code 61 1700 Series

SAE # J518

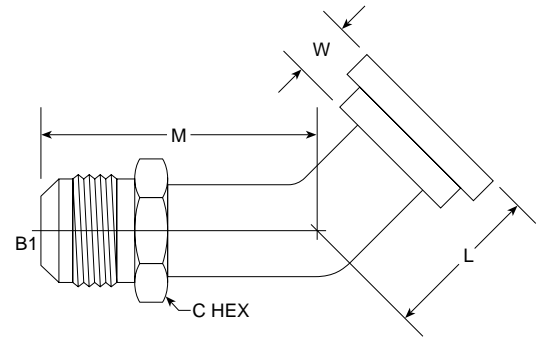


PART NO. SIZE	TUBE O.D.	FLANGE SIZE	B1 SAE 37	L LGTH	M.M.	W* WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
1700-08-08	1/2	1/2	3/4-16	2.350	59.69	0.500	12.70	13/16	0.812	20.62	•		•	
1700-08-12	1/2	3/4	3/4-16	2.350	59.69	0.560	14.22	1 1/4	1.125	28.57	•			
NEW 1700-10-10											•			
NEW 1700-12-10											•			
1700-12-12	3/4	3/4	1 1/16-12	2.600	66.04	0.560	14.22	1 1/4	1.125	28.57	•		•	
1700-12-16	3/4	1	1 1/16-12	2.600	66.04	0.560	14.22	1 1/4	1.125	28.57	•		•	
1700-12-20	3/4	1 1/4	1 1/16-12	2.600	66.04	0.560	14.22	1 3/8	1.375	34.92	•			
NEW 1700-12-24											•			
1700-16-12	1	3/4	1 5/16-12	2.640	67.04	0.560	14.22	1 3/8	1.375	34.92	•		•	
1700-16-16	1	1	1 5/16-12	2.640	67.04	0.560	14.22	1 3/8	1.375	34.92	•			
1700-16-20	1	1 1/4	1 5/16-12	2.640	67.04	0.560	14.22	1 3/8	1.375	34.92	•			
1700-16-24	1	1 1/2	1 5/16-12	2.640	67.04	0.620	15.75	2	2.000	50.80	•			
1700-20-16	1 1/4	1	1 5/8-12	3.125	79.38	0.560	14.22	1 11/16	1.687	42.85	•			
1700-20-20	1 1/4	1 1/4	1 5/8-12	3.125	79.38	0.560	14.22	1 11/16	1.687	42.85	•		•	
1700-20-24	1 1/4	1 1/2	1 5/8-12	2.687	68.25	0.620	15.75	2	2.000	50.80	•			
1700-20-32	1 1/4	2	1 5/8-12	3.100	78.74	0.620	16.00	1 11/16	1.688	42.88	•			
NEW 1700-24-16											•			
1700-24-20	1 1/2	1 1/4	1 7/8-12	3.000	76.20	0.560	14.22	2	2.000	50.80	•			
1700-24-24	1 1/2	1 1/2	1 7/8-12	3.000	76.20	0.620	15.75	2	2.000	50.80	•		•	
1700-24-32	1 1/2	2	1 7/8-12	3.000	76.20	0.620	16.00	2	2.000	50.80	•			
1700-32-24	2	1 1/2	2 1/2-12	3.350	85.09	0.620	15.75	2 3/4	2.750	69.85	•			
1700-32-32											•			

Tube Fittings & Adapters

MJ-Flange 45° Code 61 1703 Series

SAE# J 518

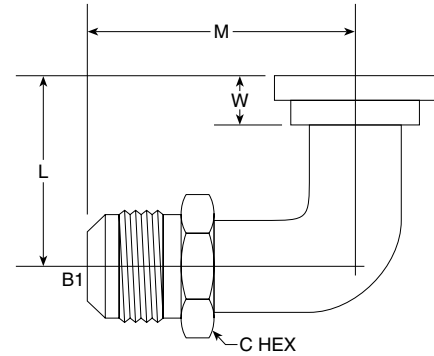


PART NO.	SIZE	TUBE O.D.	FLANGE SIZE	B1 SAE 37	L LGTH M.M.	M LGTH M.M.	W* WIDTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock						
											S	FG	SS	B			
NEW 1703-08-08		1/2	1/2	3/4-16	1.080	27.43	1.770	44.96	0.500	12.70	13/16	0.812	20.62	•			
1703-08-12														•			
1703-12-12		3/4	3/4	1 1/16-12	1.500	38.10	1.650	41.93	0.560	14.22	1 1/8	1.125	28.57	•			
1703-12-16		3/4	1	1 1/16-12	1.300	33.02	1.850	46.99	0.560	14.22	1 1/8	1.125	28.57	•			
NEW 1703-12-20														•			
NEW 1703-16-12														•			
1703-16-16		1	1	1 5/16-12	1.400	35.56	2.200	55.88	0.560	14.22	1 3/8	1.375	34.92	•			
NEW 1703-16-20														•			
NEW 1703-16-24														•			
NEW 1703-20-16														•			
1703-20-20		1 1/4	1 1/4	1 5/8-12	1.300	33.02	2.350	59.69	0.560	14.22	1 11/16	1.687	42.85	•			
NEW 1703-24-16														•			
1703-20-24		1 1/4	1 1/2	1 5/8-12	1.750	44.45	2.000	50.80	0.560	14.22	1 11/16	1.687	42.85	•			
NEW 1703-24-20														•			
1703-24-24		1 1/2	1 1/2	1 7/8-12	1.600	40.64	2.300	58.42	0.620	15.75	2	2.000	50.80	•			
1703-32-32		2	2	2 1/2-12	1.700	43.18	2.900	73.66	0.620	15.75	2 5/8	2.625	66.68	•			

*Note: Fitting design beyond dimension "W" is optional providing that adequate clearance for installing bolts is maintained.

MJ-Flange 90° Code 61 1704 Series

SAE # J518



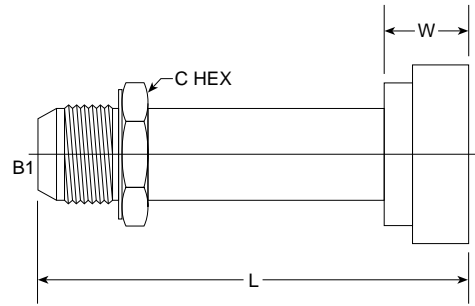
PART NO.	SIZE	TUBE O.D.	FLANGE SIZE	B1 SAE 37	L LGTH M.M.	M LGTH M.M.	W* WIDTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock						
											S	FG	SS	B			
1704-08-08		1/2	1/2	3/4-16	1.650	41.91	1.700	43.18	0.500	12.70	13/16	0.812	20.64	•			
1704-08-12		1/2	3/4	3/4-16	1.67	42.42	1.890	48.01	0.560	14.22	1 1/16	1.062	26.97	•			
NEW 1704-10-10														•			
NEW 1704-12-10														•			
1704-12-12		3/4	3/4	1 1/16-12	3.100	78.74	2.250	57.15	0.560	14.22	1 1/8	1.125	28.57	•	•		
1704-12-16		3/4	1	1 1/16-12	2.120	53.85	2.480	62.99	0.560	14.22	1 1/8	1.125	28.57	•			
1704-12-20		3/4	1 1/4	1 1/16-12	2.150	54.61	2.500	63.50	0.560	14.22	1 1/8	1.125	28.57	•			
1704-16-12		1	3/4	1 5/16-12	1.800	45.72	2.600	66.04	0.560	14.22	1 3/8	1.375	34.92	•			
1704-16-16		1	1	1 5/16-12	2.375	60.33	1.812	46.02	0.560	14.22	1 3/8	1.375	34.92	•	•		
1704-16-20		1	1 1/4	1 5/16-12	2.450	62.23	2.870	72.90	0.560	14.22	1 3/8	1.375	34.92	•			
1704-16-24		1	1 1/2	1 5/16-12	1.170	29.72	2.950	74.93	0.620	15.75	1 3/8	1.375	34.92	•			
1704-20-16		1 1/4	1	1 5/8-12	2.168	55.07	3.051	77.50	0.560	14.22	1 11/16	1.688	42.88	•			
1704-20-12		1 1/4	3/4	1 5/8-12	1.810	45.97	2.630	66.80	0.560	14.22	1 11/16	1.687	42.86	•			
1704-20-20		1 1/4	1 1/4	1 5/8-12	2.500	63.50	2.062	52.37	0.560	14.22	1 11/16	1.687	42.85	•	•		
NEW 1704-20-24														•			
1704-20-32		1 1/4	2	1 5/8-12	2.500	63.50	3.400	86.36	0.620	15.75	1 11/16	1.687	42.86	•			
1704-24-16		1 1/2	1	1 7/8-12	2.240	56.90	3.178	80.72	0.560	14.22	2 3/64	2.047	51.99	•			
1704-24-20		1 1/2	1 1/4	1 7/8-12	2.700	68.58	3.530	89.66	0.560	14.22	2	2.000	50.80	•			
1704-24-24		1 1/2	1 1/2	1 7/8-12	2.750	69.85	2.328	59.13	0.620	15.75	2 3/64	2.046	50.80	•	•	•	
NEW 1704-24-32														•			
NEW 1704-32-24														•			
1704-32-32		2	2	2 1/2-12	3.700	93.98	4.950	125.73	0.620	15.75	2 3/4	2.750	69.85	•	•		

*Note: Fitting design beyond dimension "W" is optional providing that adequate clearance for installing bolts is maintained.

Tube Fittings & Adapters

MJ-Flange Straight Code 62 1800 Series

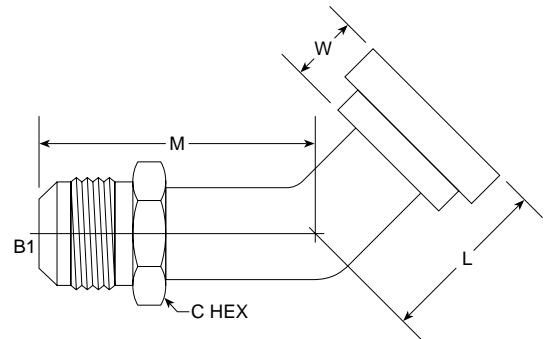
SAE # J 5 1 8



PART NO. SIZE	TUBE O.D.	FLANGE SIZE	B1 SAE 37	L LGTH M.M.	W* WIDTH M.M.	C HEX M.M.	C HEX M.M.	Standard Material From Stock	Standard Material From Stock					
									S	FG	SS	B		
1800-12-12	3/4	3/4	1 1/16-12	2.570	65.28	0.690	17.53	1 1/8	1.125	28.57	•			
1800-12-16	3/4	3/4	1 1/16-12	2.930	74.42	0.810	20.57	1 1/8	1.125	28.57	•			
1800-16-16	1	1	1 5/16-12	2.900	73.66	0.810	20.57	1 3/8	1.375	34.92	•			
1800-16-20	1	1 1/4	1 5/16-12	2.880	73.15	1.000	25.40	1 3/8	1.375	34.92	•			
1800-16-24	1	1 1/2	1 5/16-12	4.026	102.26	1.190	30.23	1 3/8	1.375	34.93	•			
1800-20-16	1 1/4	1	1 5/8-12	2.950	74.93	0.810	20.57	1 11/16	1.687	42.86	•			
1800-20-20	1 1/4	1 1/4	1 5/8-12	3.123	79.32	1.000	25.40	1 11/16	1.688	42.88	•			
1800-20-24	1 1/4	1 1/2	1 5/8-12	4.170	105.92	1.190	30.23	1 3/4	1.75	44.45	•			
1800-24-20	1 1/2	1 1/4	1 7/8-12	2.240	56.90	1.000	25.40	2 3/64	2.047	51.99	•			
1800-24-24	1 1/2	1 1/2	1 7/8-12	2.288	58.12	1.190	30.23	2	2.000	50.80	•			
NEW 1800-32-32											•			

MJ-Flange 45° Code 62 1803 Series

SAE # J 5 1 8

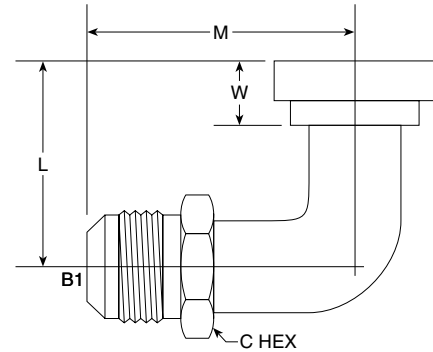


PART NO. SIZE	TUBE O.D.	FLANGE SIZE	B1 SAE 37	L LGTH M.M.	M LGTH M.M.	W* WIDTH M.M.	C HEX M.M.	C HEX M.M.	Standard Material From Stock	Standard Material From Stock						
										S	FG	SS	B			
1803-08-08	1/2	1/2	3/4-16	1.100	27.94	1.600	40.64	0.560	14.22	13/16	0.812	20.62	•			
1803-12-12	3/4	3/4	1 1/16-12	1.400	35.56	1.800	45.72	0.690	17.53	1 1/8	1.125	28.57	•			
1803-12-20	3/4	1 1/4	1 1/16-12	2.000	50.80	2.190	55.63	1.000	25.40	1 1/4	1.25	31.75	•			
1803-12-16	3/4	1	1 1/16-12	1.400	35.56	1.900	48.26	0.812	20.57	1 7/64	1.109	28.17	•			
1803-16-12	1	3/4	1 5/16-12	1.560	39.62	2.400	60.96	1.190	30.23	1 3/8	1.375	34.93	•			
1803-16-16	1	1	1 5/16-12	1.800	45.72	2.200	55.88	0.812	20.57	1 3/8	1.375	34.92	•			
1803-16-20	1	1 1/4	1 5/16-12	1.400	35.56	2.000	50.80	1.000	25.40	1 3/8	1.375	34.92	•			
NEW 1803-16-24													•			
NEW 1803-20-12													•			
1803-20-16	1 1/4	1	1 5/8-12	1.550	39.37	2.020	51.31	0.810	20.57	1 11/16	1.688	42.88	•			
1803-20-20	1 1/4	1 1/4	1 5/8-12	2.170	55.12	2.190	55.63	1.000	25.40	2	2.000	50.80	•			
1803-20-24	1 1/2	1 1/2	1 7/8-12	1.700	43.18	2.500	63.50	1.190	30.23	2 3/64	2.046	51.97	•			
1803-24-20	1 1/2	1 1/4	1 7/8-12	1.500	38.10	2.330	59.18	1.000	25.40	2 3/64	2.047	51.99	•			
1803-24-24	1 1/2	1 1/2	1 7/8-12	2.400	60.96	3.430	87.12	1.190	30.23	2	2.000	50.80	•			
1803-32-32	2	2	1 1/2-12	2.600	66.04	3.200	81.28	1.500	38.10	2 3/4	2.750	69.87	•			

*Note: Fitting design beyond dimension "W" is optional providing that adequate clearance for installing bolts is maintained.

MJ-Flange 90° Code 62 1804 Series

SAE # J518

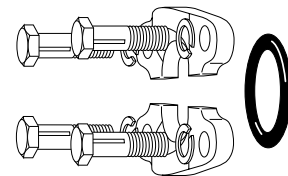


PART NO. SIZE	TUBE O.D.	FLANGE SIZE	B1 SAE 37	L LGTH M.M.	M LGTH M.M.	W* WIDTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock						
										S	FG	SS	B			
1804-08-08	1/2	1/2	3/4-16	1.970	50.04	1.470	37.34	0.560	14.22	7/8	0.875	22.22	•			
1804-12-12	3/4	3/4	1 1/16-12	3.100	78.74	2.250	57.17	0.690	17.53	1 1/8	1.125	28.57	•			
NEW 1804-12-16													•			
1804-12-20	3/4	1 1/4	1 1/16-12	1.980	50.29	2.580	65.53	1.000	25.40	1 1/8	1.125	28.58	•			
1804-16-12	1	3/4	1 5/16-12	1.800	45.72	2.560	65.02	0.690	17.53	1 3/8	1.375	34.93	•			
1804-16-16	1	1	1 5/16-12	2.480	62.99	3.100	78.74	0.810	20.57	1 3/8	1.375	34.93	•	•		
1804-16-20	1	1 1/4	1 5/16-12	2.500	63.50	3.000	76.20	1.000	25.40	1 3/8	1.375	34.93	•	•		
1804-16-24	1	1 1/2	1 1/16-12	2.950	74.93	2.350	59.69	1.190	30.23	1 3/8	1.375	34.92	•			
1804-20-16	1 1/4	1	1 5/8-12	3.310	84.07	2.350	59.69	0.810	20.57	1 11/16	1.687	42.86	•			
1804-20-20	1 1/4	1 1/4	1 5/8-12	3.380	85.85	2.460	62.48	1.000	24.50	1 11/16	1.687	42.86	•	•		
1804-20-24	1 1/4	1 1/2	1 5/8-12	3.750	95.25	2.720	69.09	1.190	30.23	1 11/16	1.687	42.86	•			
NEW 1804-24-16													•			
NEW 1804-24-20													•			
1804-24-24	1 1/2	1 1/2	1 7/8-12	4.000	101.60	3.000	76.20	1.190	30.23	2 3/64	2.046	51.97	•			
1804-24-32	1 1/2	2	1 7/8-12	3.680	93.47	4.050	102.87	1.500	38.10	2	2.000	50.80	•			
1804-32-32	2	2	2 1/2-12	4.688	119.08	6.600	167.64	1.500	38.10	2 3/4	2.750	69.85	•			

PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1901-08	1/2	•			
1901-12	3/4	•			
1901-16	1	•			
1901-20	1 1/4	•			
1901-24	1 1/2	•			
1901-32	2	•			
NEW 1901-40		•			

Flange Kit Code 61 1901 Series

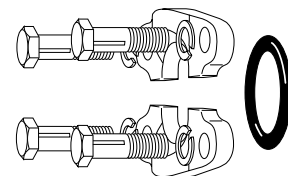
SAE # J518



PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1902-08	1/2	•			
1902-12	3/4	•			
1902-16	1	•			
1902-20	1 1/4	•			
1902-24	1 1/2	•			
1902-32	2	•			

Flange Kit Code 62 1902 Series

SAE # J518

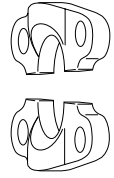


Tube Fittings & Adapters

PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1951-08	1/2	•			
1951-12	3/4	•			
1951-16	1	•			
1951-20	1 1/4	•			
1951-24	1 1/2	•			
1951-32	2	•			
NEW 1951-40					
NEW 1951-48					

Flange Halves Code 61 1951 Series

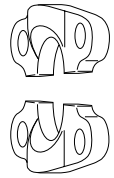
SAE# J 5 1 8



PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1952-12	3/4	•			
1952-16	1	•			
1952-20	1 1/4	•			
1952-24	1 1/2	•			
1952-32	2	•			

Flange Halves Code 62 1952 Series

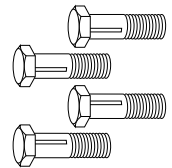
SAE# J 5 1 8



PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1961-08	1/2	•			
1961-12	3/4	•			
1961-16	1	•			
1961-20	1 1/4	•			
1961-24	1 1/2	•			
1961-32	2	•			
NEW 1961-40					
NEW 1961-48					

Bolts Code 61 1961 Series

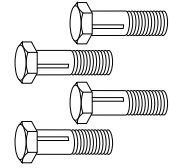
SAE# J 5 1 8



PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1962-12	3/4	•			
1962-16	1	•			
1962-20	1 1/4	•			
1962-24	1 1/2	•			
1962-32	2	•			

Bolts Code 62 1962 Series

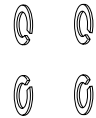
SAE # J518



PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1971-08	1/2	•			
1971-12	3/4	•			
1971-16	1	•			
1971-20	1 1/4	•			
1971-24	1 1/2	•			
1971-32	2	•			
NEW 1971-40					
NEW 1971-48					

Washers Code 61 1971 Series

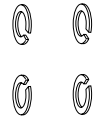
SAE # J518



PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
1972-12	3/4	•			
1972-16	1	•			
1972-20	1 1/4	•			
1972-24	1 1/2	•			
1972-32	2	•			

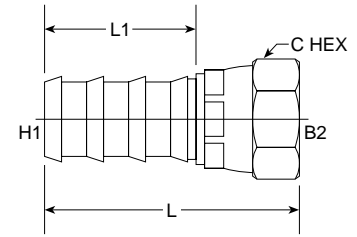
Washers Code 62 1972 Series

SAE # J518



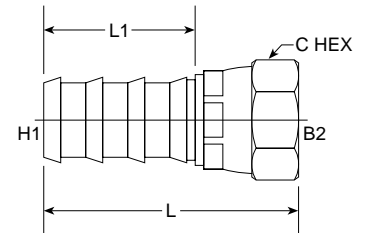
Tube Fittings & Adapters

PL-FJS Straight 2111 Series



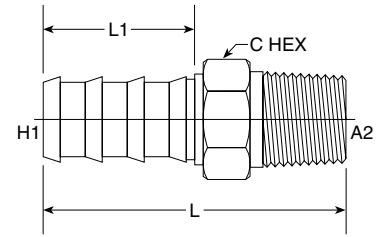
PART NO. SIZE	H1 HOSE I.D.	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
								S	FG	SS	B		
2111-04-04	1/4	7/16-20	1.488	37.79	0.700	17.78	9/16	0.562	14.28			•	•
2111-04-05	1/4	1/2-20	1.560	39.62	0.700	17.78	5/8	0.625	15.87			•	•
2111-04-06	1/4	9/16-18	1.588	40.33	0.830	21.08	11/16	0.687	17.46			•	•
2111-05-05	5/16	1/2-20	1.580	40.13	0.830	21.08	5/8	0.625	15.87			•	•
2111-06-06	3/8	9/16-18	1.700	43.18	0.830	21.08	11/16	0.687	17.46			•	•
2111-06-08	3/8	3/4-16	1.780	45.21	0.930	23.62	7/8	0.875	22.22			•	•
2111-08-08	1/2	3/4-16	2.060	52.32	1.000	25.40	7/8	0.875	22.22			•	•
2111-08-10	1/2	5/8-12	1.840	46.74	0.930	23.62	1	1.000	25.40			•	•
2111-10-08	5/8	3/4-16	2.540	64.52	1.500	38.10	7/8	0.875	22.22			•	•
2111-10-10	5/8	5/8-12	2.700	68.58	1.500	38.10	7/8	0.875	22.22			•	•
2111-12-12	3/4	1 1/16-12	2.400	60.96	1.400	35.56	1 1/4	1.250	31.75			•	•

PL-FSAES Straight 2112 Series



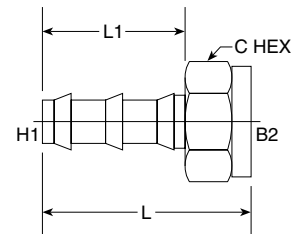
PART NO. SIZE	H1 HOSE I.D.	B2 SAE 45	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
								S	FG	SS	B		
NEW 2112-04-06	1/4	9/16-18	1.620	41.15	0.873	22.17	3/4	0.750	19.05				•
2112-05-06	1/4	1/2-20	1.560	39.62	0.700	17.78	5/8	0.625	15.87				•
2112-06-06	3/8	9/16-18	1.710	43.43	0.975	24.77	3/4	0.750	19.05				•
2112-08-06	3/8	5/8-18	1.930	49.02	1.000	25.40	3/4	0.750	19.05				•
NEW 2112-08-08	1/2	3/4-16	2.060	52.32	1.000	25.40	7/8	0.875	22.22				•
2112-12-12	3/4	1 1/16-14	2.380	60.45	1.400	35.56	1 1/4	1.250	31.75				•

PL-MP Straight 2113 Series



PART NO. SIZE	H1 HOSE I.D.	A2 NPTF	L LGTH M.M.	L1 LGTH M.M.	C HEX M.M.	C HEX M.M.	C HEX M.M.	Standard Material From Stock					
								S	FG	SS	B		
2113-04-02	1/4	1/8-27	1.290	32.77	0.700	17.78	7/16	0.4375	11.11			•	•
2113-04-04	1/4	1/4-18	1.430	36.32	0.700	17.78	9/16	0.562	14.28			•	•
2113-04-06	1/4	3/8-18	1.430	36.32	0.700	17.78	11/16	0.687	17.46			•	•
2113-05-02	5/16	1/2-27	1.416	35.97	0.819	20.80	7/16	0.438	11.13			•	•
2113-05-04	5/16	1/4-18	1.660	42.16	0.871	22.12	9/16	0.562	14.27			•	•
2113-06-02	3/8	1/8-27	1.450	36.83	0.830	21.08	1/2	0.500	12.70			•	•
2113-06-04	3/8	1/4-18	1.550	39.37	0.830	21.08	9/16	0.562	14.28			•	•
2113-06-06	3/8	3/8-18	1.620	41.15	0.830	21.08	11/16	0.687	17.46			•	•
2113-06-08	3/8	1/2-14	1.670	42.42	0.830	21.08	7/8	0.875	22.22			•	•
2113-08-04	1/2	1/4-18	1.770	44.96	0.930	23.62	11/16	0.687	17.46			•	•
2113-08-06	1/2	3/8-18	1.810	45.97	1.000	25.40	11/16	0.687	17.46			•	•
2113-08-08	1/2	1/2-14	1.860	47.24	1.000	25.40	7/8	0.875	22.22			•	•
2113-08-12	1/2	3/4-14	1.970	50.04	0.930	23.62	1 1/16	1.062	26.99			•	•
2113-10-06	5/8	3/8-18	2.370	60.20	1.560	39.62	3/4	0.750	19.05			•	•
2113-10-08	5/8	1/2-14	2.550	64.77	1.500	38.10	7/8	0.875	22.22			•	•
2113-10-12	5/8	3/4-14	2.500	63.51	1.500	38.10	1 1/16	1.062	26.99			•	•
2113-12-08	3/4	1/2-14	2.450	62.23	1.500	38.10	7/8	0.875	22.22			•	•
2113-12-12	3/4	3/4-14	2.450	62.23	1.400	35.56	1 1/16	1.062	26.99			•	•

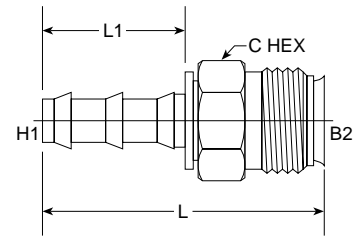
PL-FIF Straight 2114 Series



PART NO. SIZE	H1 HOSE I.D.	B2 SAE 45	L LGTH M.M.	L1 LGTH M.M.	C HEX M.M.	C HEX M.M.	C HEX M.M.	Standard Material From Stock					
								S	FG	SS	B		
2114-04-03	1/4	3/8-24	1.170	29.72	0.760	19.30	7/16	0.438	11.11				•
2114-04-04	1/4	7/16-20	1.110	28.19	0.700	17.78	1/2	0.500	25.40				•
2114-04-05	1/4	1/2-20	1.570	39.88	0.700	17.78	9/16	0.562	14.28				•
2114-06-05	3/8	1/2-20	1.275	32.38	0.830	21.08	9/16	0.562	14.28				•
2114-06-06	3/8	5/8-18	1.330	33.78	0.830	21.08	3/4	0.750	19.05				•
NEW 2114-08-08													•

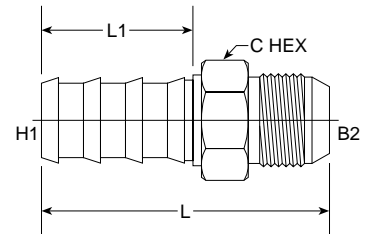
Tube Fittings & Adapters

PL-MIFS Straight 2115 Series



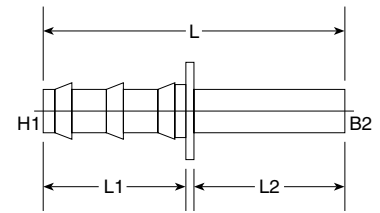
PART NO. SIZE	H1 HOSE I.D.	B2 MALE SWIVEL	L LGTH	M.M.	L1 LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
2115-04-03	1/4	3/8-24	1.392	35.36	0.700	17.78	3/8	0.375	9.52				•
2115-04-04	1/4	7/16-24	1.425	36.19	0.700	17.78	7/16	0.437	11.11				•
2115-04-05	1/4	1/2-20	1.520	38.61	0.700	17.78	1/2	0.500	12.70				•
2115-05-05	5/16	1/2-20	1.610	40.89	0.830	21.08	1/2	0.500	12.70				•
2115-06-05	3/8	1/2-20	1.650	41.91	0.830	21.08	1/2	0.500	12.70				•
2115-06-06	3/8	5/8-18	1.670	42.42	0.830	21.08	5/8	0.625	15.87				•
2115-06-08	3/8	3/4-18	1.800	45.72	0.830	21.08	3/4	0.750	19.05				•
2115-08-06	1/2	5/8-18	1.769	44.93	0.971	24.99	5/8	0.625	15.87				•
2115-08-08	1/2	3/4-18	1.960	49.78	1.000	25.40	3/4	0.750	19.05				•
2115-10-10	5/8	5/8-18	2.500	63.50	1.500	38.10	7/8	0.875	22.22				•

PL-SAE Straight 2116 Series



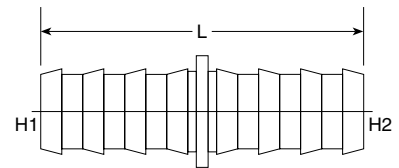
PART NO. SIZE	H1 HOSE I.D.	B2 SAE 45	L LGTH	M.M.	L1 LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
2116-04-04	1/4	7/16-24	1.435	36.45	0.742	18.85	7/16	0.438	11.13				•
2116-04-05	1/4	1/2-20	1.534	38.96	0.749	19.02	1/2	0.500	12.70				•
2116-06-05	3/8	1/2-20	1.646	41.81	0.866	22.00	1/2	0.500	12.70				•
2116-06-06	3/8	5/8-18	1.700	43.18	0.830	21.08	5/8	0.625	15.87				•
<i>NEW</i> 2116-08-06													•
2116-08-08	1/2	3/4-16	2.050	52.07	1.000	25.40	3/4	0.750	19.05				•
<i>NEW</i> 2116-10-10													•

PL-Stem Straight 2117 Series



PART NO. SIZE	H1 HOSE I.D.	STEM	L LGTH M.M.	L1 LGTH M.M.	L2 LGTH M.M.	Standard Material From Stock						
						S	FG	SS	B			
2117-04-03	1/4	3/16	1.570	39.88	0.700	17.78	0.750	19.05				•
2117-04-04	1/4	1/4	1.615	41.02	0.700	17.78	0.800	20.32				•
2117-06-06	3/8	3/8	1.800	45.72	0.830	21.08	0.880	22.35				•
2117-08-08	1/2	1/2	2.110	53.59	1.020	25.91	0.986	25.04				•

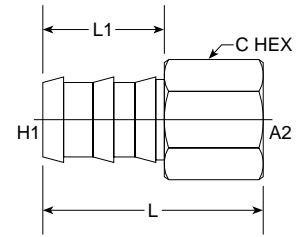
PL-PL Straight 2118 Series



PART NO. SIZE	H1 TUBE I.D.	H2 TUBE I.D.	L LGTH M.M.	Standard Material From Stock				
				S	FG	SS	B	
2118-04-04	1/4	1/4	1.550	39.37				•
2118-05-05	5/16	5/16	1.800	45.72				•
2118-06-06	3/8	3/8	1.900	48.26				•
2118-08-08	1/2	1/2	2.000	50.80				•
2118-10-10	7/8	7/8	3.000	76.20				•
2118-12-12	3/4	3/4	3.000	76.20				•

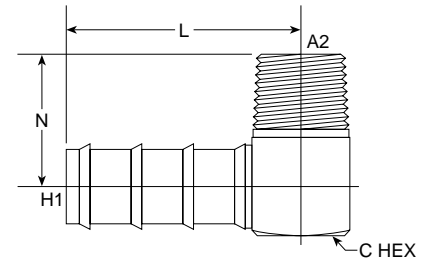
Tube Fittings & Adapters

PL-FP Straight 2119 Series



PART NO. SIZE	PIPE O.D.	H1 HOSE I.D.	A2 NPTF	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	C HEX	Standard Material From Stock					
									S	FG	SS	B		
2119-04-02	1/8	1/4	1/8-27	1.340	34.04	0.700	17.78	1/2	0.055	12.70				•
2119-04-04	1/4	1/4	1/4-18	1.410	35.81	0.700	17.78	5/8	0.625	15.87				•
NEW 2119-04-06														•
2119-06-04	1/4	3/8	1/4-18	1.630	41.40	0.940	23.88	5/8	0.625	15.87				•
2119-06-06	3/8	3/8	3/8-18	1.530	38.86	0.830	21.08	13/16	0.812	20.63				•
NEW 2119-06-08														•
2119-08-06	3/8	1/2	3/8-18	1.730	43.94	1.020	25.91	13/16	.812	20.63				•
2119-08-08	1/2	1/2	1/2-14	1.750	44.45	0.925	23.49	15/16	0.938	23.83				•

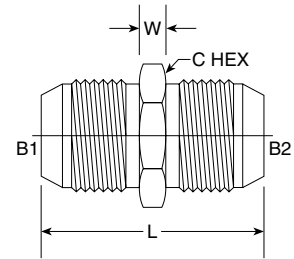
PL-MP 90° Elbow 2120 Series



PART NO. SIZE	PIPE O.D.	H1 HOSE I.D.	A2 NPTF	L LGTH M.M.	N LGTH M.M.	C HEX	C HEX	C HEX	Standard Material From Stock					
									S	FG	SS	B		
2120-04-02	1/8	1/4	1/8-27	0.990	25.15	0.750	19.05	1/2	0.500	12.70				•
2120-04-04	1/4	1/4	1/4-18	1.010	25.65	0.900	22.86	9/16	0.562	14.27				•
2120-06-02	1/8	3/8	1/8-27	1.120	28.45	0.750	19.05	1/2	0.500	12.70				•
2120-06-04	1/4	3/8	1/4-18	1.140	28.96	0.908	23.06	9/16	0.562	14.27				•
2120-06-06	3/8	3/8	3/8-18	1.205	30.61	0.905	22.99	11/16	0.688	17.46				•
2120-06-08	1/2	3/8	1/2-14	1.310	33.27	1.185	30.10	7/8	0.875	22.22				•
2120-08-06	3/8	1/2	3/8-18	1.387	35.20	0.900	22.86	11/16	0.688	17.46				•
2120-08-08	1/2	1/2	1/2-14	1.490	37.85	1.180	29.97	7/8	0.875	22.22				•
NEW 2120-10-08														•
2120-12-12	3/4	3/4	3/4-14	2.070	52.58	1.270	32.26	1 1/16	1.062	26.98				•

MJ-MJ Straight 2403 Series

SAE # 070101 / MS# 51501

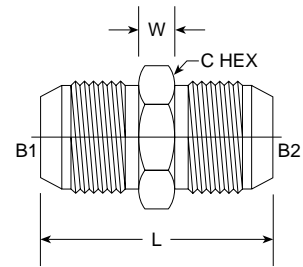


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2403-02-02	1/8	5/16-24	5/16-24	1.170	29.72	0.220	5.59	7/16	0.438	11.13	•		•	•
2403-03-02	3/16	3/8-24	5/16-24	1.200	30.50	0.220	5.59	7/16	0.438	11.13	•		•	
2403-03-03	3/16	3/8-24	3/8-24	1.230	31.24	0.220	5.59	7/16	0.438	11.13	•		•	•
2403-04-02	1/4 1/8	7/16-20	5/16-24	1.270	32.26	0.220	5.59	1/2	0.500	12.70	•		•	
2403-04-03	1/4 3/16	7/16-20	3/8-24	1.300	33.04	0.220	5.59	1/2	0.500	12.70	•		•	
2403-04-04	1/4	7/16-20	7/16-20	1.375	34.93	0.220	5.59	1/2	0.500	12.70	•		•	•
2403-05-04	5/16 1/4	1/2-20	7/16-20	1.375	34.93	0.220	5.59	9/16	0.562	14.27	•		•	
2403-05-05	5/16	1/2-20	1/2-20	1.375	34.93	0.220	5.59	9/16	0.562	14.27	•		•	•
2403-06-04	3/8 1/4	9/16-18	7/16-20	1.406	35.71	0.250	6.35	5/8	0.625	15.88	•		•	•
2403-06-05	3/8 5/16	9/16-18	1/2-20	1.400	35.56	0.250	6.35	5/8	0.625	15.88	•		•	
2403-06-06	3/8	9/16-18	9/16-18	1.400	35.56	0.250	6.35	5/8	0.625	15.88	•		•	•
2403-08-04	1/2 1/4	3/4-16	7/16-20	1.510	38.35	0.250	6.35	13/16	0.812	20.62	•		•	
2403-08-05	1/2 5/16	3/4-16	1/2-20	1.510	38.35	0.250	6.35	13/16	0.812	20.62	•		•	
2403-08-06	1/2 3/8	3/4-16	9/16-18	1.515	38.48	0.250	6.35	13/16	0.812	20.62	•		•	
2403-08-08	1/2	3/4-16	3/4-16	1.625	41.28	0.250	6.35	13/16	0.812	20.62	•		•	•
2403-10-04	5/8 1/4	7/8-14	7/16-20	1.670	42.42	0.310	7.87	15/16	0.937	23.80	•		•	
2403-10-05	5/8 5/16	7/8-14	1/2-20	1.670	42.42	0.310	7.87	15-16	0.937	23.80	•		•	
2403-10-06	5/8 3/8	7/8-14	9/16-18	1.680	42.67	0.310	7.87	15/16	0.937	23.80	•		•	
2403-10-08	5/8 1/2	7/8-14	3/4-16	1.781	45.24	0.310	7.87	15/16	0.937	23.80	•		•	
2403-10-10	5/8	7/8-14	7/8-14	1.875	47.63	0.310	7.87	15/16	0.937	23.80	•		•	•
2403-12-04	3/4 1/4	1 1/16-12	7/16-20	1.850	46.99	0.380	9.65	1 1/8	1.125	28.58	•		•	
2403-12-05	3/4 5/16	1 1/16-12	1/2-20	1.840	46.74	0.380	9.65	1 1/8	1.125	28.58	•		•	
2403-12-06	3/4 3/8	1 1/16-12	9/16-18	1.856	47.14	0.380	9.65	1 1/8	1.125	28.58	•		•	
2403-12-08	3/4 1/2	1 1/16-12	3/4-16	1.953	49.61	0.380	9.65	1 1/8	1.125	28.58	•		•	
2403-12-10	3/4 5/8	1 1/16-12	7/8-14	2.046	51.97	0.380	9.65	1 1/8	1.125	28.58	•		•	
2403-12-12	3/4	1 1/16-12	1 1/16-12	2.156	54.76	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2403-14-12	7/8 3/4	1 3/16-12	1 1/16-12	2.180	55.37	0.380	9.65	1 1/4	1.250	31.75	•		•	
2403-14-14	7/8	1 3/16-12	1 3/16-12	2.218	56.34	0.380	9.65	1 1/4	1.250	31.75	•		•	•
2403-16-06	1 3/8	1 1/16-12	9/16-18	1.900	48.26	0.525	13.34	1 3/8	1.375	34.93	•		•	
2403-16-08	1 1/2	1 5/16-12	3/4-16	2.000	50.80	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-16-10	1 5/8	1 5/16-12	7/8-14	2.100	53.34	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-16-12	1 3/4	1 5/16-12	1 1/16-12	2.210	56.13	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-16-14	1 7/8	1 5/16-12	1 3/16-12	2.240	56.90	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-16-16	1	1 5/16-12	1 5/16-12	2.250	57.15	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2403-20-12	1 1/4 3/4	1 5/8-12	1 1/16-12	2.347	59.61	0.460	11.68	1 11/16	1.688	42.86	•		•	
2403-20-16	1 1/4 1	1 5/8-12	1 5/16-12	2.380	60.45	0.460	11.68	1 11/16	1.688	42.86	•		•	
2403-20-20	1 1/4	1 5/8-12	1 5/8-12	2.437	61.90	0.460	11.68	1 11/16	1.688	42.86	•		•	
2403-24-10	1 1/4 7/8	1 7/8-12	7/8-14	2.420	61.47	0.530	13.46	2	2.000	50.80	•		•	
2403-24-12	1 1/2 3/4	1 7/8-12	1 1/16-12	2.530	64.26	0.530	13.46	2	2.000	50.80	•		•	
2403-24-16	1 1/2 1	1 7/8-12	1 5/16-12	2.580	65.53	0.530	13.46	2	2.000	50.80	•		•	
2403-24-20	1 1/2 1 1/4	1 7/8-12	1 5/8-12	2.620	66.55	0.530	13.46	2	2.000	50.80	•		•	
2403-24-24	1 1/2	1 7/8-12	1 7/8-12	2.750	69.85	0.530	13.46	2	2.000	50.80	•		•	
2403-32-16	1 1/2 1	2 1/2-12	1 5/16-12	2.980	75.70	0.680	17.27	2 5/8	2.625	66.68	•		•	
2403-32-20	1 1/2 1 1/4	2 1/2-12	1 5/16-12	3.020	76.71	0.680	17.27	2 5/8	2.625	66.68	•		•	
2403-32-24	1 1/2 1 1/2	2 1/2-12	1 7/8-1/2	3.150	80.01	0.680	17.27	2 5/8	2.625	66.68	•		•	
2403-32-32	2	2 1/2-12	2 1/2-12	3.406	86.51	0.680	17.27	2 5/8	2.625	66.68	•		•	
2403-40-40	2 1/2	3-12	3-12	2.950	75.93	0.725	18.42	3 1/4	3.250	82.55	•		•	

Tube Fittings & Adapters

MJ-MJ Straight Large Hex 2403-LH Series

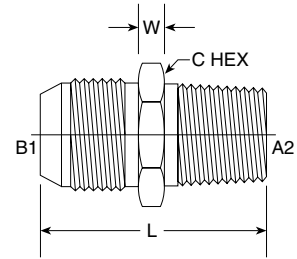
SAE# 070119 / MS# 51519



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH M.M.	W WIDTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
									S	FG	SS	B		
2403-LH-02-02	1/8 1/8	5/16-24	5/16-24	1.170	29.72	0.220	5.59	5/8	0.625	15.87			•	
2403-LH-03-02	3/16 1/8	3/8-24	5/16-24	1.200	30.48	0.220	5.59	5/8	0.625	15.88	•		•	
2403-LH-03-03	3/16	3/8-24	3/8-24	1.230	31.24	0.220	5.59	5/8	0.625	14.27	•		•	
2403-LH-04-02	1/4 1/8	7/16-20	5/16-24	1.270	32.26	0.220	5.59	11/16	0.687	17.45	•		•	
2403-LH-04-03	1/4 3/16	7/16-20	3/8-24	1.300	33.02	0.220	5.59	11/16	0.687	17.45	•		•	
2403-LH-04-04	1/4	7/16-20	7/16-20	1.375	34.93	0.220	5.59	11/16	0.687	17.45	•		•	
2403-LH-05-04	5/16 1/4	1/2-20	7/16-20	1.375	34.93	0.220	5.59	3/4	0.750	19.05	•		•	
2403-LH-05-05	5/16	1/2-20	1/2-20	1.375	34.93	0.220	5.59	3/4	0.750	19.05	•		•	
2403-LH-06-04	3/8 1/4	9/16-18	7/16-20	1.400	35.56	0.250	6.35	13/16	0.812	20.62	•		•	
2403-LH-06-05	3/8 5/16	9/16-18	1/2-20	1.400	35.71	0.310	7.87	15-16	0.937	23.80	•		•	
2403-LH-06-06	3/8 3/8	9/16-18	9/16-18	1.410	35.80	0.250	6.35	13/16	0.812	20.62	•		•	•
2403-LH-08-04	1/2 1/4	3/4-16	7/16-20	1.510	38.35	0.250	6.35	1	1.000	25.40	•		•	
2403-LH-08-05	1/2 5/16	3/4-16	1/2-20	1.510	38.35	0.250	6.35	1	1.000	25.40	•		•	
2403-LH-08-06	1/2 3/8	3/4-16	9/16-18	1.520	38.61	0.250	6.35	1	1.000	25.40	•		•	
2403-LH-08-08	1/2	3/4-16	3/4-16	1.625	41.28	0.250	6.35	1	1.000	25.40	•		•	
2403-LH-10-04	5/8 1/4	7/8-14	7/16-20	1.670	42.42	0.310	7.87	1 1/8	1.125	28.58	•		•	
2403-LH-10-06	3/8	7/8-14	9/16-18	1.670	42.42	0.310	7.87	1 1/8	1.125	28.58	•		•	
2403-LH-10-08	5/8 1/2	7/8-14	3/4-16	1.780	45.21	0.310	7.87	1 1/8	1.125	28.58	•		•	
2403-LH-10-10	5/8	7/8-14	7/8-14	1.875	47.63	0.310	7.87	1 1/8	1.125	28.58	•		•	
2403-LH-12-04	3/4 1/4	1 1/16-12	7/16-20	1.840	45.99	0.380	9.65	1 3/8	1.375	34.92	•		•	
2403-LH-12-05	3/4 5/16	1 1/16-12	1/2-20	1.840	46.99	0.380	9.65	1 3/8	1.375	41.28	•		•	
2403-LH-12-08	3/4 1/2	1 1/16-12	3/4-16	1.960	49.78	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-LH-12-10	3/4 5/8	1 1/16-12	7/8-14	2.046	51.97	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-LH-12-12	3/4	1 1/16-12	1 1/16-12	2.156	54.76	0.380	9.65	1 3/8	1.375	34.93	•		•	
2403-LH-14-14	7/8	1 3/16-12	1 3/16-12	2.218	56.34	0.380	9.65	1 1/2	1.500	38.10	•		•	
2403-LH-16-08	1 1/2	1 5/16-12	3/4-16	2.000	50.80	0.380	9.65	1 5/8	1.625	41.28	•		•	
2403-LH-16-10	1 5/8	7/8-14	7/8-14	2.100	53.34	0.380	9.65	1 5/8	1.625	41.28	•		•	
2403-LH-16-12	1 3/4	1 5/16-12	1 1/16-12	2.200	55.88	0.380	9.65	1 5/8	1.625	41.28	•		•	
2403-LH-16-16	1	1 5/16-12	1 5/16-12	2.250	57.15	0.380	9.65	1 5/8	1.625	41.28	•		•	
2403-LH-20-10	1 1/4 5/8	1 5/8-12	7/8-14	2.230	56.64	0.460	11.68	1 7/8	1.875	47.63	•		•	
2403-LH-20-12	1 1/4 3/4	1 5/8-12	1 1/16-12	2.330	59.18	0.460	11.68	1 7/8	1.875	47.63	•		•	
2403-LH-20-16	1 1/4 1	1 5/8-12	1 5/16-12	2.380	60.45	0.460	11.68	1 7/8	1.875	47.63	•		•	
2403-LH-20-20	1 1/4	1 5/8-12	1 5/8-12	2.437	61.90	0.460	11.68	1 7/8	1.875	47.63	•		•	
2403-LH-24-16	1 1/2 1	1 7/8-12	1 5/16-12	2.580	65.53	0.530	13.46	2 1/8	2.125	53.98	•		•	
2403-LH-24-20	1 1/2 1 1/4	1 7/8-12	1 5/8-12	2.370	60.20	0.530	13.46	2 1/8	2.125	53.97	•		•	
2403-LH-24-24	1 1/2	1 7/8-12	1 7/8-12	2.750	69.85	0.530	13.46	2 1/8	2.125	63.50	•		•	
2403-LH-32-32	2 2	2-12	2-12	3.400	86.36	0.680	17.27	2 3/4	2.750	69.85	•		•	

MJ-MP Straight 2404 Series

SAE # 070102 / MS # 51500



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2404-02-02	1/8	5/16-24	1/8-27	1.110	28.19	0.220	5.59	7/16	0.438	11.13	•		•	•
2404-02-04	1/8	5/16-24	1/4-18	1.120	28.45	0.220	5.59	5/8	0.625	15.88	•		•	•
2404-03-02	3/16	3/8-24	1/8-27	1.140	28.96	0.220	5.59	7/16	0.438	11.13	•		•	•
NEW 2404-03-04													•	•
2404-04-02	1/4	7/16-20	1/8-27	1.218	30.94	0.220	5.59	1/2	0.500	12.70	•		•	•
2404-04-04	1/4	7/16-20	1/4-18	1.421	36.09	0.250	6.35	9/16	0.562	15.88	•		•	•
2404-04-06	1/4	7/16-20	3/8-18	1.421	36.09	0.250	6.35	3/4	0.750	20.62	•		•	•
2404-04-08	1/4	7/16-20	1/2-14	1.640	41.66	0.250	6.35	7/8	0.875	22.23	•		•	•
2404-04-12	1/4	7/16-20	3/4-14	1.750	44.45	0.380	9.65	1 1/8	1.125	28.57	•		•	•
2404-05-02	5/16	1/2-20	1/8-27	1.218	30.94	0.220	5.59	9/16	0.562	14.27	•		•	•
2404-05-04	5/16	1/2-20	1/4-18	1.421	36.09	0.250	6.35	9/16	0.562	15.88	•		•	•
2404-05-06	5/16	1/2-20	3/8-18	1.421	36.09	0.250	6.35	3/4	0.750	20.62	•		•	•
2404-05-08	5/16	1/2-20	1/2-14	1.710	43.43	0.250	6.35	7/8	0.875	15.88	•		•	•
2404-06-02	3/8	9/16-18	1/8-27	1.250	31.75	0.250	6.35	5/8	0.625	15.88	•		•	•
2404-06-04	3/8	9/16-18	1/4-18	1.437	36.50	0.250	6.35	5/8	0.625	15.88	•		•	•
2404-06-06	3/8	9/16-18	3/8-18	1.421	36.09	0.250	6.35	3/4	0.750	20.62	•		•	•
2404-06-08	3/8	9/16-18	1/2-14	1.687	42.85	0.250	6.35	7/8	0.875	23.80	•		•	•
2404-06-12	3/8	9/16-18	3/4-14	1.750	44.45	0.380	9.65	1-1/8	1.125	28.58	•		•	•
2404-06-16	3/8	9/16-18	1-11 1/2	1.940	49.29	0.380	9.65	1 3/8	1.375	34.92	•		•	•
2404-08-02	1/2	3/4-16	1/8-27	1.340	34.04	0.250	6.35	13/16	0.812	20.62	•		•	•
2404-08-04	1/2	3/4-16	1/4-18	1.531	38.89	0.250	6.35	13/16	0.812	20.62	•		•	•
2404-08-06	1/2	3/4-16	3/8-18	1.531	38.89	0.250	6.35	13/16	0.812	20.62	•		•	•
2404-08-08	1/2	3/4-16	1/2-14	1.781	45.24	0.310	7.87	15/16	0.937	23.80	•		•	•
2404-08-12	1/2	3/4-16	3/4-14	1.859	47.22	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2404-08-16	1/2	3/4-16	1-11 1/2	2.050	52.07	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-10-04	5/8	7/8-14	1/4-18	1.690	42.93	0.310	7.87	15/16	0.937	23.80	•		•	•
2404-10-06	5/8	7/8-14	3/8-18	1.700	43.18	0.380	9.65	15/16	0.937	23.80	•		•	•
2404-10-08	5/8	7/8-14	1/2-14	1.890	48.01	0.310	7.87	15/16	0.937	23.80	•		•	•
2404-10-12	5/8	7/8-14	3/4-14	1.950	49.53	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2404-10-16	5/8	7/8-14	1-11 1/2	2.150	54.61	0.380	9.65	1 3/8	1.375	34.93	•		•	•
NEW 2404-10-20													•	•
2404-12-04	3/4	1 1/16-12	1/4-18	1.820	46.23	0.380	9.65	1 1/8	1.125	28.57	•		•	•
2404-12-06	3/4	1 1/16-12	3/8-18	1.765	44.83	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2404-12-08	3/4	1 1/16-12	3/8-18	1.765	44.83	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2404-12-12	3/4	1 1/16-12	3/4-14	2.062	52.37	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2404-12-16	3/4	1 1/16-12	1-11 1/2	2.250	57.15	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-12-20	3/4	1 1/16-12	1 1/4-11 1/2	2.360	59.94	0.460	11.68	1 11/16	1.688	42.86	•		•	•
2404-12-24	3/4	1 1/16-12	1 1/2-11 1/2	2.461	62.51	0.530	13.46	2	2.000	50.80	•		•	•
2404-14-08	7/8	1 3/16-12	1/2-14	2.090	53.09	0.380	9.65	1 1/4	1.250	31.75	•		•	•
2404-14-12	7/8	1 3/16-12	3/4-14	2.093	53.16	0.380	9.65	1 1/4	1.250	31.75	•		•	•
2404-14-16	7/8	1 3/16-12	1-11 1/2	2.275	57.79	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-16-06	1	1 5/16-12	3/8-18	1.920	48.77	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-16-08	1	1 5/16-12	1/2-14	2.110	53.59	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-16-12	1	1 5/16-12	3/4-14	2.110	53.59	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-16-16	1	1 5/16-12	1-11 1/2	2.296	58.32	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2404-16-20	1	1 5/16-12	1 1/4-11 1/2	2.406	61.11	0.460	11.68	1 11/16	1.688	42.86	•		•	•
2404-16-24	1	1 5/16-12	1 1/2-11 1/2	2.510	63.75	0.530	13.46	2	2.000	50.80	•		•	•
NEW 2404-16-32													•	•
2404-20-12	1 1/4	1 5/8-12	3/4-14	2.200	55.88	0.460	11.68	1 11/16	1.688	42.86	•		•	•
2404-20-16	1 1/4	1 5/8-12	1-11 1/2	2.421	61.49	0.460	11.68	1 11/16	1.688	42.86	•		•	•
2404-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	2.453	62.31	0.460	11.68	1 11/16	1.688	42.86	•		•	•
2404-20-24	1 1/4	1 5/8-12	1 1/4-11 1/2	2.555	64.90	0.530	13.46	2	2.000	50.80	•		•	•
2404-20-32	1 1/4	1 5/8-12	2-11 1/2	2.730	69.34	0.680	17.27	2 5/8	2.625	66.68	•		•	•
NEW 2404-20-40													•	•
2404-24-16	1 1/2	1 7/8-12	1-11 1/2	2.620	66.55	0.530	13.46	2	2.000	50.80	•		•	•
2404-24-20	1 1/2	1 7/8-12	1 1/4-11 1/2	2.640	67.06	0.530	13.46	2	2.000	50.80	•		•	•
2404-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	2.687	68.25	0.530	13.46	2	2.000	50.80	•		•	•

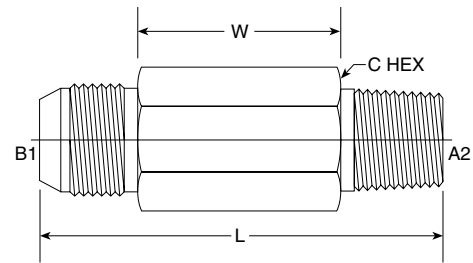
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Tube Fittings & Adapters

2404 Series *continued*

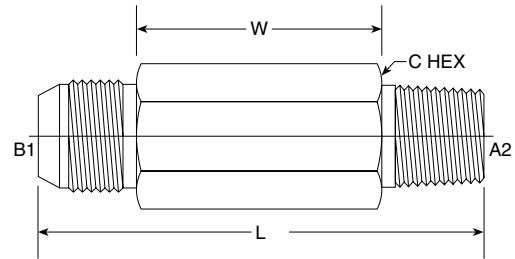
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2404-24-32	1 1/2	1 7/8-12	2-11 1/2	2.860	72.64	0.680	17.27	2 1/2	2.500	63.50	•		•	
2404-32-16	2 1	2 1/2-12	1-11 1/2	3.020	76.71	0.680	17.27	2 5/8	2.625	66.68	•		•	
2404-32-20	2	2 1/2-12	1 1/4-11 1/2	3.050	77.47	0.680	17.27	2 5/8	2.625	66.68	•		•	
2404-32-24	2	2 1/2-12	1 1/2-11 1/2	3.080	78.23	0.680	17.27	2 5/8	2.625	66.68	•		•	•
2404-32-32	2	2 1/2-12	2-11 1/2	3.109	78.97	0.680	17.27	2 5/8	2.625	66.68	•		•	•
NEW 2404-32-40											•			
NEW 2404-32-48											•			
2404-40-40	2 1/2	3-12	2 1/2-8	3.375	85.73	0.750	19.05	3 1/4	3.250	82.55	•		•	•
NEW 2404-48-48											•			

MJ-MP Straight Long 2404-L Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2404-L-04-02	1/4	7/16-20	1/8-27	1.812	46.02	0.890	22.61	1/2	0.500	12.70	•		•	
2404-L-04-04	1/4	7/16-20	1/4-18	2.253	57.23	0.890	22.61	5/8	0.625	15.88	•		•	
2404-L-05-02	5/16	1/2-20	1/8-27	1.937	49.20	1.020	25.91	9/16	0.562	14.27	•		•	
2404-L-05-04	5/16	1/2-20	1/4-18	2.250	57.15	1.140	28.96	5/8	0.625	15.88	•		•	
2404-L-06-02	3/8	9/16-18	1/8-27	2.202	55.93	1.125	28.58	5/8	0.625	15.88	•		•	
2404-L-06-04	3/8	9/16-18	1/4-18	2.250	57.15	1.125	28.58	5/8	0.625	15.88	•		•	
2404-L-06-06	3/8	9/16-18	3/8-18	2.501	63.53	1.351	34.30	3/4	0.750	19.05	•		•	
2404-L-06-08	3/8	9/16-18	1/2-14	2.945	74.80	1.654	42.01	7/8	0.875	22.23	•			
2404-L-08-04	1/2	3/4-16	1/4-18	2.749	69.82	1.481	37.62	13/16	0.812	20.62	•			
2404-L-08-06	1/2	3/4-16	3/8-18	2.750	69.85	1.531	38.89	13/16	0.812	20.62	•			
2404-L-08-08	1/2	3/4-16	1/2-14	3.041	77.24	1.590	40.37	7/8	0.875	22.23	•		•	
NEW 2404-L-10-06											•			
2404-L-10-08	5/8	7/8-14	1/2-14	3.125	79.38	1.625	41.28	15/16	0.937	23.80	•			
2404-L-12-12	3/4	1 1/16-12	3/4-14	3.500	88.90	1.890	48.01	1 1/8	1.125	28.58	•		•	
2404-L-16-12	1	1 5/16-12	3/4-14	3.809	96.75	2.141	54.38	1 3/8	1.375	34.93	•		•	
2404-L-16-16	1	1 5/16-12	1-11 1/2	4.000	101.60	2.156	54.76	1 3/8	1.375	34.93	•		•	
2404-L-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	4.500	114.30	2.578	65.48	1 11/16	1.688	42.86	•		•	
2404-L-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	4.880	123.95	2.780	70.60	2	2.000	50.80	•		•	
2404-L-32-32	2	2 1/2-12	2-11 1/2	5.620	142.75	3.250	82.55	2 5/8	2.625	66.68	•		•	

MJ-MP Straight X-Long 2404-LL Series

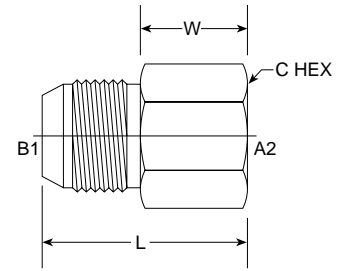


PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2404-LL-04-02	1/4	7/16-20	1/8-27	2.562	65.07	1.640	41.66	1/2	0.500	12.70	•		•	
2404-LL-04-04	1/4	7/16-20	1/4-18	3.251	82.58	2.120	53.85	5/8	0.625	15.88	•		•	
2404-LL-05-02	5/16	1/2-20	1/8-27	2.812	71.42	1.890	48.01	9/16	0.562	14.27	•		•	
2404-LL-06-04	3/8	9/16-18	1/4-18	3.250	82.55	2.125	53.98	5/8	0.625	15.88	•		•	
2404-LL-06-06	3/8	9/16-18	3/8-18	3.922	99.62	2.795	70.99	3/4	0.750	19.05	•		•	
2404-LL-08-06	1/2	3/4-16	3/8-18	4.000	101.60	2.781	70.64	13/16	0.812	20.62	•		•	
2404-LL-08-08	1/2	3/4-16	1/2-14	4.199	106.65	2.839	72.11	7/8	0.875	22.23	•		•	
2404-LL-10-08	5/8	7/8-14	1/2-14	4.375	111.13	2.875	73.03	15/16	0.937	23.80	•		•	
2404-LL-12-12	3/4	1 1/16-12	3/4-14	5.000	127.00	3.390	86.11	1-1/8	1.125	28.58	•		•	
NEW 2404-LL-16-12											•		•	
2404-LL-16-16	1	1 5/16-12	1-11 1/2	5.750	146.05	3.906	99.21	1-3/8	1.375	34.93	•		•	

Tube Fittings & Adapters

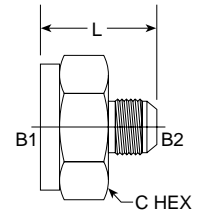
MJ-FP Straight 2405 Series

SAE# 070103 / MS# 51503



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2405-02-02	1/8	5/16-24	1/8-27	1.120	28.45	0.460	11.68	9/16	0.562	14.27	•		•	•
2405-03-02	3/16	3/8-24	1/8-27	1.130	28.70	0.460	11.68	9/16	0.562	14.27	•		•	•
2405-03-04	3/16	3/8-24	1/4-18	1.310	33.27	0.831	21.11	3/4	0.750	19.05	•		•	•
2405-04-02	1/4	7/16-20	1/8-27	1.187	30.15	0.460	11.68	9/16	0.562	14.27	•		•	•
2405-04-04	1/4	7/16-20	1/4-18	1.390	35.31	0.840	21.34	3/4	0.750	19.05	•		•	•
2405-04-06	1/4	7/16-20	3/8-18	1.430	36.32	0.880	22.35	7/8	0.875	22.23	•		•	•
2405-04-08	1/4	7/16-20	1/2-14	1.690	42.93	1.140	28.96	1 1/8	1.125	28.58	•		•	•
2405-05-02	5/16	1/2-20	1/8-27	1.171	29.74	0.460	11.68	9/16	0.562	14.27	•		•	•
2405-05-04	5/16	1/2-20	1/4-18	1.394	35.41	0.843	21.41	3/4	0.750	19.05	•		•	•
2405-05-06	5/16	1/2-20	3/8-18	1.460	37.08	0.910	23.11	7/8	0.875	22.23	•		•	•
2405-06-02	3/8	9/16-18	1/8-27	1.180	29.97	0.625	15.88	5/8	0.625	15.88	•		•	•
2405-06-04	3/8	9/16-18	1/4-18	1.406	35.71	0.670	17.02	3/4	0.750	19.05	•		•	•
2405-06-06	3/8	9/16-18	3/8-18	1.459	37.06	0.906	23.01	7/8	0.875	22.23	•		•	•
2405-06-08	3/8	9/16-18	1/2-14	1.688	42.88	1.132	28.75	1 1/8	1.125	28.58	•		•	•
NEW 2405-06-12											•		•	•
2405-08-04	1/2	3/4-16	1/4-18	1.510	38.35	0.853	21.67	13/16	0.812	20.62	•		•	•
2405-08-06	1/2	3/4-16	3/8-18	1.562	39.67	0.680	17.27	7/8	0.875	22.23	•		•	•
2405-08-08	1/2	3/4-16	1/2-14	1.789	45.44	1.125	28.58	1 1/8	1.125	28.58	•		•	•
2405-08-12	1/2	3/4-16	3/4-14	1.850	46.99	1.193	30.30	1 3/8	1.375	34.93	•		•	•
2405-08-16	1/2	3/4-16	1-11 1/2	2.100	56.13	1.140	28.96	1 5/8	1.625	41.28	•		•	•
2405-10-04	5/8	7/8-14	1/4-18	1.760	44.70	1.000	25.40	15/16	0.937	23.80	•		•	•
NEW 2405-10-06											•		•	•
2405-10-08	5/8	7/8-14	1/2-14	1.890	48.01	0.900	22.86	1 1/8	1.125	28.58	•		•	•
2405-10-12	5/8	7/8-14	3/4-14	1.954	49.63	1.196	30.38	1 3/8	1.375	34.93	•		•	•
2405-10-16	5/8	7/8-14	1-11 1/2	2.300	58.42	1.525	38.74	1 5/8	1.625	41.28	•		•	•
2405-12-08	3/4	1 1/16-12	1/2-14	2.050	52.07	1.186	30.12	1 1/8	1.125	28.58	•		•	•
2405-12-12	3/4	1 1/16-12	3/4-14	2.062	52.37	1.213	30.81	1 3/8	1.375	34.93	•		•	•
2405-12-16	3/4	1 1/16-12	1-11 1/2	2.300	58.42	1.436	36.47	1 5/8	1.625	41.28	•		•	•
2405-14-08	7/8	1 3/16-12	1/2-14	2.076	52.73	1.186	30.12	1 1/4	1.250	31.75	•		•	•
2405-14-12	7/8	1 3/16-12	3/4-14	2.062	52.37	0.910	23.11	1 3/8	1.375	34.93	•		•	•
2405-16-12	1	1 5/16-12	3/4-14	2.085	52.96	1.172	29.77	1 3/8	1.375	34.93	•		•	•
2405-16-16	1	1 5/16-12	1-11 1/2	2.343	59.51	1.140	28.96	1 5/8	1.625	41.28	•		•	•
2405-16-20	1	1 5/8-12	1 1/4-11 1/2	2.420	41.47	1.525	38.74	2	2.000	50.80	•		•	•
2405-20-16	1 1/4	1 5/8-12	1-11 1/2	2.400	60.96	1.442	36.63	1 11/16	1.688	42.86	•		•	•
2405-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	2.484	63.09	1.160	29.46	2	2.000	50.80	•		•	•
2405-20-24	1 1/4	1 5/8-12	1 1/2-11 1/2	2.500	63.50	1.536	39.01	2 3/8	2.375	60.33	•		•	•
NEW 2405-24-16											•		•	•
2405-24-20	1 1/2	1 7/8-12	1 1/4-11 1/2	2.614	66.40	1.531	38.90	2	2.000	50.80	•		•	•
2405-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	2.625	66.68	1.160	29.46	2 3/8	2.375	60.33	•		•	•
2405-24-32	1 1/2	1 7/8-12	1 5/8-12	2.615	66.42	1.532	38.91	2	2.000	50.80	•		•	•
NEW 2405-32-24											•		•	•
2405-32-32	2	2 1/2-12	2-11 1/2	2.968	75.39	1.180	29.97	2 7/8	2.375	60.33	•		•	•

FJ-MJ Straight Reducer 2406 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
									S	FG	SS	B		
NEW 2406-03-04														
NEW 2406-04-02														
2406-04-03	1/4	7/16-20	3/8-24	1.049	26.64	—	—	9/16	0.562	14.27	•			•
NEW 2406-04-05											•			•
2406-04-06	1/4	7/16-20	9/16-18	1.007	25.58	—	—	5/8	0.625	15.88	•			•
2406-05-04	5/16	1/2-20	7/16-20	1.159	29.44	—	—	5/8	0.625	15.88	•			•
NEW 2406-05-06											•			•
2406-05-08	5/16	1/2-20	3/4-16	1.266	32.16	—	—	13/16	0.812	20.62	•			•
2406-06-02	3/8	9/16-18	5/16-24	1.073	27.25	—	—	11/16	0.687	17.45	•			•
2406-06-03	3/8	9/16-18	3/8-24	1.104	28.04	—	—	11/16	0.687	17.45	•			•
2406-06-04* +	3/8	9/16-18	7/16-20	1.187	30.15	0.970	24.64	11/16	0.687	17.45	•			•
2406-06-05	3/8	9/16-18	1/2-20	1.181	30.00	—	—	11/16	0.687	17.45	•			•
2406-06-06	3/8	9/16-18	9/16-18	1.185	30.10	—	—	11/16	0.687	17.47	•			•
2406-06-08	3/8	9/16-18	3/4-16	1.282	32.56	—	—	13/16	0.812	20.62	•			•
NEW 2406-06-10											•			•
2406-08-04* +	1/2	3/4-16	7/16-20	1.328	33.73	1.000	25.40	7/8	0.875	22.23	•			•
2406-08-05	1/2	3/4-16	1/2-20	1.310	33.27	—	—	7/8	0.875	22.23	•			•
2406-08-06* +	1/2	3/4-16	9/16-18	1.328	33.73	1.000	25.40	7/8	0.875	22.23	•			•
2406-08-10	1/2	3/4-16	7/8-14	1.288	32.72	—	—	15/16	0.937	23.81	•			•
2406-08-12	1/2	3/4-16	1 1/16-12	1.620	41.15	—	—	1 1/8	1.125	28.58	•			•
2406-10-04* +	5/8	7/8-14	7/16-20	1.468	37.29	1.030	26.16	1	1.000	25.40	•			•
2406-10-06* +	5/8	7/8-14	9/16-18	1.406	35.71	1.030	26.16	1	1.000	25.40	•			•
2406-10-08	5/8	7/8-14	3/4-16	1.406	35.71	—	—	1	1.000	25.40	•			•
2406-10-12	5/8	7/8-14	1 1/16-12	1.740	44.20	—	—	1 1/8	1.125	28.58	•			•
2406-10-16	5/8	7/8-14	1 5/16-12	1.220	41.20	—	—	1 3/8	1.375	34.93	•			•
2406-12-04* +	3/4	1 1/16-12	7/16-20	1.499	38.07	1.090	27.69	1 1/4	1.250	31.75	•			•
2406-12-06* +	3/4	1 1/16-12	9/16-18	1.460	37.08	1.090	27.69	1 1/4	1.250	31.75	•			•
2406-12-08* +	3/4	1 1/16-12	3/4-16	1.563	39.70	1.090	27.69	1 1/4	1.250	31.75	•			•
2406-12-10	3/4	1 1/16-12	7/8-14	1.638	41.59	—	—	1 1/4	1.250	31.75	•			•
2406-12-12	3/4	1 1/16-12	1 1/16-12	1.740	44.19	—	—	1 1/4	1.250	31.75	•			•
2406-12-16	3/4	1 1/16-12	1 5/16-12	1.608	40.84	—	—	1 3/8	1.375	34.93	•			•
NEW 2406-14-04											•			•
2406-14-06	7/8	1 3/16-12	9/16-18	1.682	42.72	—	—	1 3/8	1.375	34.93	•			•
2406-14-08	7/8	1 3/16-12	3/4-16	1.760	44.70	—	—	1 3/8	1.375	34.93	•			•
2406-14-10	7/8	1 3/16-12	7/8-14	1.730	43.94	—	—	1 3/8	1.375	34.93	•			•
2406-14-12	7/8	1 3/16-12	1 1/16-12	1.796	45.62	—	—	1 3/8	1.375	34.93	•			•
2406-14-16	7/8	1 3/16-12	1 5/16-12	1.986	50.44	—	—	1 3/8	1.375	34.93	•			•
2406-16-04	1	1 5/16-12	7/16-20	1.840	46.74	—	—	1 1/2	1.500	38.10	•			•
2406-16-06	1	1 5/16-12	9/16-18	1.840	46.74	—	—	1 1/2	1.500	38.10	•			•
2406-16-08* +	1	1 5/16-12	3/4-16	1.719	43.66	1.270	32.26	1 1/2	1.500	38.10	•			•
2406-16-10* +	1	1 5/16-12	7/8-14	1.821	46.24	1.380	35.05	1 1/2	1.500	38.10	•			•
2406-16-12* +	1	1 5/16-12	1 1/16-12	1.823	46.30	1.470	37.34	1 1/2	1.500	38.10	•			•
2406-16-14	1	1 5/16-12	1 3/16-12	1.830	46.48	—	—	1 1/2	1.500	38.10	•			•
2406-16-20	1	1 5/16-12	1 5/8-12	2.300	58.42	—	—	1 11/16	1.688	42.86	•			•
NEW 1406-16-24											•			•
2406-20-06	1 1/4	1 5/8-12	9/16-18	1.743	44.27	—	—	2	2.000	50.80	•			•
2406-20-08*	1 1/4	1 5/8-12	3/4-16	1.844	46.84	1.330	33.78	2	2.000	50.80	•			•
2406-20-10*	1 1/4	1 5/8-12	7/8-14	1.914	48.62	1.440	36.58	2	2.000	50.80	•			•
2406-20-12* +	1 1/4	1 5/8-12	1 1/16-12	2.000	50.80	1.530	38.86	2	2.000	50.80	•			•
2406-20-14	1 1/4	1 5/8-12	1 3/16-12	2.031	51.59	—	—	2	2.000	50.80	•			•
2406-20-16* +	1 1/4	1 5/8-12	1 5/16-12	2.005	50.93	1.590	40.39	2	2.000	50.80	•			•
2406-20-24	1 1/4	1 5/8-12	1 7/8-12	2.145	54.48	—	—	2	2.000	50.80	•			•
2406-24-08	1 1/2	1 7/8-12	3/4-16	2.249	57.12	—	—	2 1/4	2.250	57.15	•			•
2406-24-10	1 1/2	1 7/8-12	7/8-14	2.350	59.69	—	—	2 1/4	2.250	57.15	•			•

*Note: Only Stainless Steel inset style available. Does not include nut.
 + Note: Steel insert style available. Use part number 2406-(size)-IN.

continued on next page

Tube Fittings & Adapters

2406 Series *continued*

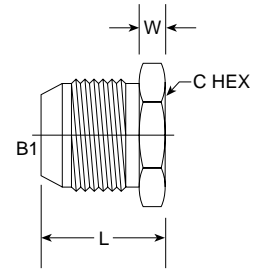
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M.M.	L1 LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
2406-24-12*	1 1/2	1 7/8-12	1 1/16-12	2.456	62.38	1.560	39.63	2 1/4	2.250	57.15	•		•	
2406-24-14	1 1/2	1 7/8-12	1 3/16-12	2.480	62.99	—	—	2 1/4	2.250	57.15	•		•	
2406-24-16*	1 1/2	1 7/8-12	1 5/16-12	2.503	63.58	1.600	40.64	2 1/4	2.250	57.15	•		•	
2406-24-20	1 1/2	1 7/8-12	1 5/8-12	2.650	67.31	—	—	2 1/4	2.250	57.15	•		•	
2406-24-32	1 1/2	1 7/8-12	2 1/2-12	2.395	60.83	—	—	2 5/8	2.625	66.68	•		•	
NEW 2406-32-08													•	
NEW 2406-32-12													•	
NEW 2406-32-16													•	
2406-32-20	2	2 1/2-12	1 5/8-12	2.774	70.46	—	—	2 7/8	2.875	73.03	•		•	
2406-32-24*	2	2 1/2-12	1 7/8-12	2.614	66.40	1.900	48.26	2 7/8	2.875	73.03	•		•	

*Note: Only Stainless Steel insert style available. Does not include nut.

†Note: Steel insert style available. Use part number 2406-(size)-IN.

MJ Plug 2408 Series

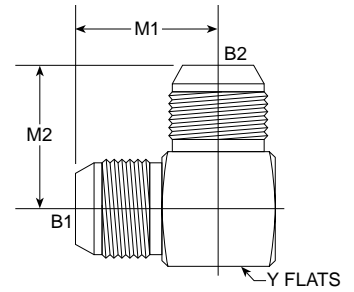
SAE # 070109 / MS # 51518



PART NO. SIZE	TUBE O.D.	B1 SAE 37	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
2408-02	1/8	5/16-24	0.700	17.78	0.220	5.59	7/16	0.438	11.13	•		•	•
2408-03	3/16	3/8-24	0.730	18.54	0.220	5.59	7/16	0.438	11.13	•		•	•
2408-04	1/4	7/16-20	0.796	20.22	0.220	5.59	1/2	0.500	12.70	•		•	•
2408-05	5/16	1/2-20	0.796	20.22	0.220	5.59	9/16	0.562	14.27	•		•	•
2408-06	3/8	9/16-18	0.843	21.41	0.250	6.35	5/8	0.625	15.88	•		•	•
2408-08	1/2	3/4-16	0.937	23.80	0.250	6.35	13/16	0.812	20.62	•		•	•
2408-10	5/8	7/8-14	1.093	27.76	0.310	7.87	15/16	0.937	23.80	•		•	•
2408-12	3/4	1 1/16-12	1.281	32.54	0.380	9.65	1 1/8	1.125	28.58	•		•	•
2408-14	7/8	1 3/16-12	1.312	33.32	0.380	9.65	1 1/4	1.250	31.75	•		•	•
2408-16	1	1 5/16-12	1.328	33.73	0.380	9.65	1 3/8	1.375	34.93	•		•	•
2408-20	1 1/4	1 5/8-12	1.453	36.91	0.460	11.68	1 11/16	1.688	42.86	•		•	•
2408-24	1 1/2	1 7/8-12	1.656	42.06	0.530	13.46	2	2.000	50.80	•		•	•
2408-32	2	2 1/2-12	2.005	50.93	0.680	17.27	2 5/8	2.625	66.68	•		•	•

MJ-MJ 90° 2500 Series

SAE# 070201 / MS# 51505

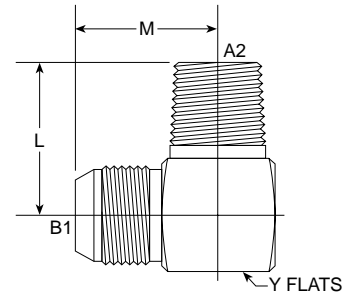


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	M1 LGTH	M.M.	M2 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
2500-02-02	1/8	5/16-24	5/16-24	0.770	19.56	0.770	19.56	3/8	0.312	07.92	•	•	•	
2500-03-03	3/16	3/8-24	3/8-24	0.830	21.10	0.830	21.10	9/16	0.562	11.10	•	•	•	
2500-04-04	1/4	7/16-20	7/16-20	0.890	22.61	0.890	22.61	1/2	0.500	12.70	•	•	•	•
2500-05-04	5/16 1/4	1/2-20	7/16-20	0.950	24.13	0.950	24.13	1/2	0.500	12.70	•	•	•	
2500-05-05	5/16	1/2-20	1/2-20	0.950	24.13	0.950	24.13	9/16	0.562	14.27	•	•	•	•
2500-06-04	3/8 1/4	9/16-18	7/16-20	1.060	26.92	1.050	26.67	9/16	0.562	14.27	•	•	•	
2500-06-05	3/8 5/16	9/16-18	1/2-20	1.060	26.92	1.050	26.67	9/16	0.562	14.27	•	•	•	
2500-06-06	3/8	9/16-18	9/16-18	1.062	26.97	1.060	26.92	5/8	0.625	15.88	•	•	•	•
NEW 2500-08-04											•			
2500-08-06	1/2 3/8	3/4-16	9/16-18	1.250	31.75	1.150	29.21	13/16	0.812	20.62	•	•	•	•
2500-08-08	1/2	3/4-16	3/4-16	1.250	31.75	1.250	31.75	13/16	0.812	20.62	•	•	•	•
2500-10-08	5/8 1/2	7/8-14	3/4-16	1.450	36.83	1.350	34.29	15/16	0.937	23.80	•	•	•	
2500-10-10	5/8	7/8-14	7/8-14	1.450	36.83	1.450	36.83	15/16	0.937	23.80	•	•	•	•
2500-12-08	3/4 1/2	1 1/16-12	3/4-16	1.660	42.16	1.450	36.83	1 1/8	1.125	28.58	•	•	•	
2500-12-10	3/4	1 1/16-12	7/8-14	1.660	42.16	1.540	39.12	1 1/8	1.125	28.58	•	•	•	
2500-12-12	3/4	1 1/16-12	1 1/16-12	1.660	42.16	1.660	42.16	1 1/8	1.125	28.58	•	•	•	•
2500-14-14	7/8	1 3/16-12	1 3/16-12	1.800	45.72	1.800	45.72	1 1/4	1.250	31.75	•	•	•	•
2500-16-12	1 3/4	1 5/16-12	1 1/16-12	1.810	45.97	1.760	44.70	1 3/8	1.375	34.93	•	•	•	
2500-16-16	1	1 5/16-12	1 5/16-12	1.810	45.97	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2500-20-20	1 1/4	1 5/8-12	1 5/8-12	2.060	52.32	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
2500-24-24	1 1/2	1 7/8-12	1 7/8-12	2.330	59.18	2.330	59.18	2	2.000	50.80	•	•	•	
2500-32-32	2	2 1/2-12	2 1/2-12	3.060	77.72	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

Tube Fittings & Adapters

MJ-MP 90° 2501 Series

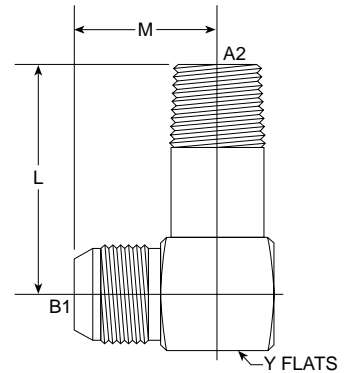
SAE# 070202 / MS# 51504



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
NEW 2501-02-02	1/8	5/16-24	1/8-27	0.720	18.29	0.770	19.56	7/16	0.438	11.13	•	•	•	•
2501-02-04											•	•	•	•
2501-03-02	3/16	3/8-24	1/8-27	0.720	18.29	0.830	21.08	7/16	0.438	11.133	•	•	•	•
NEW 2501-04-01											•	•	•	•
2501-04-02	1/4	7/16-20	1/8-27	0.781	19.84	0.890	22.61	1/2	0.500	12.70	•	•	•	•
2501-04-04	1/4	7/16-20	1/4-18	1.090	27.69	1.050	26.67	5/8	0.625	15.88	•	•	•	•
2501-04-06	1/4	7/16-20	3/8-18	1.220	30.99	1.120	28.45	13/16	0.812	20.62	•	•	•	•
2501-04-08	1/4	7/16-20	1/2-14	1.470	37.34	1.210	30.73	15/16	0.937	23.80	•	•	•	•
2501-04-12	1/4	7/16-20	3/4-14	1.590	40.39	1.350	34.29	1 1/16	1.062	26.97	•	•	•	•
2501-05-02	5/16	1/2-20	1/8-27	0.781	19.84	0.953	24.21	9/16	0.562	14.27	•	•	•	•
2501-05-04	5/16	1/2-20	1/4-18	1.093	27.76	1.050	26.67	5/8	0.625	15.88	•	•	•	•
2501-05-06	5/16	1/2-20	3/8-18	1.220	30.99	1.090	27.69	13/16	0.812	20.62	•	•	•	•
2501-05-08	5/16	1/2-20	1/2-14	1.470	37.34	1.250	31.75	15/16	0.937	23.80	•	•	•	•
2501-06-02	3/8	9/16-18	1/8-27	0.900	22.86	1.062	26.97	5/8	0.625	15.88	•	•	•	•
2501-06-04	3/8	9/16-18	1/4-18	1.093	27.76	1.062	26.97	5/8	0.625	15.88	•	•	•	•
2501-06-06	3/8	9/16-18	3/8-18	0.220	30.99	1.140	28.96	15/16	0.937	23.80	•	•	•	•
2501-06-08	3/8	9/16-18	1/2-14	1.470	37.34	1.220	30.99	15/16	0.937	23.80	•	•	•	•
2501-06-12	3/8	9/16-18	3/4-14	1.590	40.39	1.310	33.27	1 1/16	1.062	26.97	•	•	•	•
2501-08-02	1/2	3/4-16	1/8-27	1.040	26.42	1.250	31.75	3/4	0.750	19.05	•	•	•	•
2501-08-04	1/2	3/4-16	1/4-18	1.220	30.99	1.250	31.75	13/16	0.812	20.62	•	•	•	•
2501-08-06	1/2	3/4-16	3/8-18	1.220	30.99	1.250	31.75	13/16	0.812	20.62	•	•	•	•
2501-08-08	1/2	3/4-16	1/2-14	1.470	37.34	1.330	33.78	15/16	0.937	23.80	•	•	•	•
2501-08-12	1/2	3/4-16	3/4-14	1.593	40.46	1.420	36.07	1 1/8	1.125	28.58	•	•	•	•
2501-08-16	1/2	3/4-16	1-11 1/2	1.970	50.04	1.560	39.62	1 3/8	1.375	34.93	•	•	•	•
2501-10-06	5/8	7/8-14	3/8-18	1.281	32.54	1.453	36.91	15/16	0.937	23.80	•	•	•	•
2501-10-08	5/8	7/8-14	1/2-14	1.470	37.34	1.453	36.91	15/16	0.937	23.80	•	•	•	•
2501-10-12	5/8	7/8-14	3/4-14	1.593	40.46	1.546	39.27	1 1/8	1.125	28.58	•	•	•	•
2501-10-16	5/8	7/8-14	1-11 1/2	1.970	50.04	1.660	42.16	1 3/8	1.375	34.93	•	•	•	•
2501-12-06	3/4	1 1/16-12	3/8-18	1.370	34.80	1.660	42.16	1 1/8	1.125	28.58	•	•	•	•
2501-12-08	3/4	1 1/16-12	1/2-14	1.590	40.39	1.656	42.06	1 1/8	1.125	28.58	•	•	•	•
2501-12-12	3/4	1 1/16-12	3/4-14	1.593	40.46	1.656	42.06	1 1/8	1.125	28.58	•	•	•	•
2501-12-16	3/4	1 1/16-12	1-11 1/2	1.968	49.99	1.760	44.70	1 3/8	1.375	34.93	•	•	•	•
2501-12-20	3/4	1 1/16-12	1 1/4-11 1/2	2.380	60.45	1.950	49.53	1 3/4	1.750	44.45	•	•	•	•
2501-14-08	7/8	1 3/16-12	1/2-14	1.690	42.93	1.730	43.94	1 1/4	1.250	31.75	•	•	•	•
2501-14-12	7/8	1 3/16-12	3/4-14	1.687	42.85	1.800	45.72	1 1/4	1.250	31.75	•	•	•	•
2501-14-16	7/8	1 3/16-12	1-11 1/2	1.970	50.04	1.790	45.47	1 3/8	1.375	34.93	•	•	•	•
2501-16-08	1	1 5/16-12	1/2-14	1.780	45.21	1.810	45.97	1 3/8	1.375	34.93	•	•	•	•
2501-16-12	1	1 5/16-12	3/4-14	1.780	45.21	1.812	46.02	1 3/8	1.375	34.93	•	•	•	•
2501-16-16	1	1 5/16-12	1-11 1/2	1.968	49.99	1.812	46.02	1 3/8	1.375	34.93	•	•	•	•
2501-16-20	1	1 5/16-12	1 1/4-11 1/2	2.375	60.33	2.090	53.09	1 3/4	1.750	44.45	•	•	•	•
2501-16-24	1	1 5/16-12	1 1/2-11 1/2	2.640	67.06	2.140	54.36	2	2.000	50.80	•	•	•	•
2501-20-12	1 1/4	1 5/8-12	3/4-14	1.970	50.04	2.060	52.32	1 3/4	1.750	44.45	•	•	•	•
2501-20-16	1 1/4	1 5/8-12	1-11 1/2	2.156	54.76	2.062	52.37	1 3/4	1.750	44.45	•	•	•	•
2501-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	2.375	60.33	2.062	52.37	1 3/4	1.750	44.45	•	•	•	•
2501-20-24	1 1/4	1 5/8-12	1 1/2-11 1/2	2.640	67.06	2.300	58.42	2	2.000	50.80	•	•	•	•
2501-24-16	1 1/2	1 7/8-12	1-11 1/2	2.380	60.45	2.330	59.18	2	2.000	50.80	•	•	•	•
2501-24-20	1 1/2	1 7/8-12	1 1/4-11 1/2	2.500	63.50	2.328	59.13	2	2.000	50.80	•	•	•	•
2501-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	2.640	67.06	2.328	59.13	2	2.000	50.80	•	•	•	•
NEW 2501-24-32											•	•	•	•
2501-32-24	2	2 1/2-12	1 1/2-11 1/2	2.640	67.06	3.080	78.23	2 5/8	2.625	66.68	•	•	•	•
2501-32-32	2	2 1/2-12	2-11 1/2	3.000	76.20	3.062	77.77	2 5/8	2.625	66.68	•	•	•	•
NEW 2501-40-40											•	•	•	•

MJ-MP 90° Long 2501-L Series

SAE# 071502

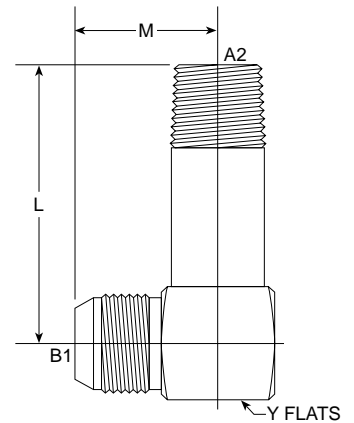


PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
									S	FG	SS	B		
2501-L-04-02	1/4	7/16-20	1/8-27	1.171	29.74	0.890	22.61	1/2	0.500	12.70	•	•	•	
2501-L-04-04	1/4	7/16-20	1/4-18	1.580	40.13	0.970	24.64	5/8	0.625	15.88	•	•	•	
2501-L-05-02	5/16	1/2-20	1/8-27	1.170	29.72	0.953	24.21	9/16	0.562	14.27	•		•	
2501-L-05-04	5/16	1/2-20	1/4-18	1.580	40.13	0.953	24.21	9/16	0.562	14.27	•		•	
2501-L-06-02	3/8	9/16-18	1/8-27	1.229	31.22	1.062	26.97	5/8	0.625	15.88	•		•	
2501-L-06-04	3/8	9/16-18	1/4-18	1.580	40.13	1.062	26.97	5/8	0.625	15.88	•	•	•	
2501-L-06-06	3/8	9/16-18	3/8-18	1.828	46.43	1.156	29.36	13/16	0.812	20.62	•	•	•	
2501-L-06-08	3/8	9/16-18	1/2-14	2.250	57.15	1.220	30.99	15/16	0.937	23.80	•	•	•	
2501-L-08-04	1/2	3/4-16	1/4-18	1.840	46.74	1.250	31.75	13/16	0.812	20.62	•		•	
2501-L-08-06	1/2	3/4-16	3/8-18	1.828	46.43	1.250	31.75	13/16	0.812	20.62	•	•	•	•
2501-L-08-08	1/2	3/4-16	1/2-14	2.230	56.64	1.250	31.75	15/16	0.937	23.80	•	•	•	
2501-L-08-12	1/2	3/4-16	3/4-14	2.437	61.90	1.406	35.71	1 1/8	1.125	28.58	•		•	
2501-L-10-08	5/8	7/8-14	1/2-14	2.171	55.14	1.453	36.91	15/16	0.937	23.80	•	•	•	
2501-L-10-12	5/8	7/8-14	3/4-14	2.480	62.99	1.550	39.37	1 1/8	1.125	28.58	•		•	
2501-L-12-08	3/4	1 1/16-12	1/2-14	2.250	57.15	1.660	42.16	1 1/8	1.125	28.58	•		•	
2501-L-12-12	3/4	1 1/16-12	3/4-14	2.437	61.90	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
2501-L-12-16	3/4	1 1/16-12	1-11 1/2	3.010	76.45	1.760	44.70	1 5/16	1.312	33.34	•	•	•	
2501-L-14-12	7/8	1 3/16-12	3/4-14	2.590	65.79	1.800	45.72	1 1/4	1.250	31.75	•		•	
2501-L-16-12	1	1 5/16-12	3/4-14	2.630	66.80	1.810	45.97	1 3/8	1.375	34.93	•		•	
2501-L-16-16	1	1 5/16-12	1-11 1/2	3.015	76.58	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2501-L-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	3.687	93.65	2.062	52.37	1 3/4	1.750	44.45	•	•	•	
2501-L-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	4.109	104.37	2.323	59.00	2	2.000	50.80	•		•	

Tube Fittings & Adapters

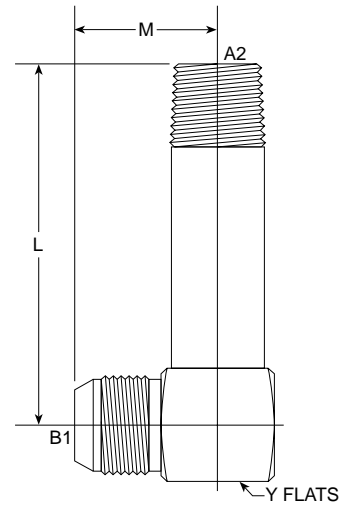
MJ-MP 90° X-Long 2501-LL Series

SAE# 071602



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
2501-LL-04-02	1/4	7/16-20	1/8-27	1.562	39.67	0.890	22.61	1/2	0.500	12.70	•	•	•	
2501-LL-04-04	1/4	7/16-20	1/4-18	2.070	52.59	0.970	24.64	5/8	0.625	15.88	•	•	•	
2501-LL-05-02	5/16	1/2-20	1/8-27	1.625	41.28	0.950	24.13	9/16	0.562	14.27	•	•	•	
2501-LL-05-04	5/16	1/2-20	1/4-18	2.060	52.32	0.950	24.13	9/16	0.562	14.27	•	•	•	
2501-LL-06-04	3/8	9/16-18	1/4-18	2.078	52.78	1.060	26.92	5/8	0.625	15.88	•	•	•	
2501-LL-06-06	3/8	9/16-18	3/8-18	2.420	61.47	1.140	28.96	13/16	0.812	20.62	•	•	•	
2501-LL-06-08	3/8	9/16-18	1/2-14	2.870	72.90	1.220	30.99	15/16	0.937	23.80	•	•	•	
2501-LL-08-04	1/2	3/4-16	1/4-18	2.160	54.86	1.250	31.75	13/16	0.812	20.62	•	•	•	
2501-LL-08-06	1/2	3/4-16	3/8-18	2.421	61.49	1.250	31.75	13/16	0.812	20.62	•	•	•	
2501-LL-08-08	1/2	3/4-16	1/2-14	3.010	76.45	1.250	31.75	15/16	0.937	23.80	•	•	•	
2501-LL-10-08	5/8	7/8-14	1/2-14	2.875	73.03	1.450	36.83	15/16	0.937	23.80	•	•	•	
2501-LL-10-12	5/8	7/8-14	3/4-14	3.280	83.31	1.550	39.37	1 1/8	1.125	28.58	•	•	•	
2501-LL-12-08	3/4	1 1/16-12	1/2-14	3.090	78.49	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
2501-LL-12-12	3/4	1 1/16-12	3/4-14	3.280	83.31	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
2501-LL-14-12	7/8	1 3/16-12	3/4-14	3.500	88.90	1.800	45.72	1 1/4	1.250	31.75	•	•	•	
2501-LL-16-12	1	1 5/16-12	3/4-14	3.380	85.85	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2501-LL-16-16	1	1 5/16-12	1-11 1/2	4.050	102.87	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2501-LL-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	5.000	127.00	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
2501-LL-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	5.550	140.97	2.330	59.18	2	2.000	50.80	•	•	•	

MJ-MP 90° XX-Long 2501-LLL Series

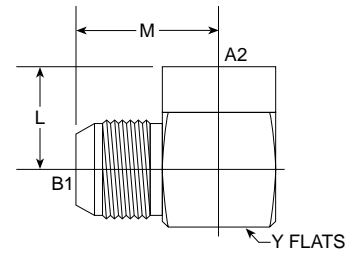


PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
2501-LLL-04-02	1/4	7/16-20	1/8-27	2.312	58.72	0.890	22.61	1/2	0.500	12.70	•	•		
2501-LLL-04-04	1/4	7/16-20	1/4-18	3.000	76.20	0.950	24.13	5/8	0.625	15.88	•		•	
2501-LLL-05-02	5/16	1/2-20	1/8-27	2.310	58.67	0.950	24.13	9/16	0.562	14.27	•			
2501-LLL-06-04	3/8	9/16-18	1/4-18	3.062	77.77	1.060	26.92	5/8	0.625	15.88	•			
2501-LLL-06-06	3/8	9/16-18	3/8-18	3.750	95.25	1.160	29.46	13/16	0.812	20.62	•			
2501-LLL-08-06	1/2	3/4-16	3/8-18	3.750	95.25	1.250	31.75	13/16	0.812	20.62	•			
2501-LLL-08-08	1/2	3/4-16	1/2-14	4.500	114.30	1.310	33.27	15/16	0.937	23.80	•	•		
2501-LLL-10-08	5/8	7/8-14	1/2-14	4.500	114.30	1.450	36.83	15/16	0.937	23.80	•			
2501-LLL-12-12	3/4	1 1/16-12	3/4-14	5.031	127.97	1.660	42.16	1 1/8	1.125	28.58	•			
2501-LLL-16-16	1	1 5/16-12	1-11 1/2	6.343	161.11	1.810	45.97	1 3/8	1.375	34.93	•		•	
2501-LLL-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	7.343	186.51	2.060	52.32	1 3/4	1.750	44.45	•			

Tube Fittings & Adapters

MJ-FP 90° 2502 Series

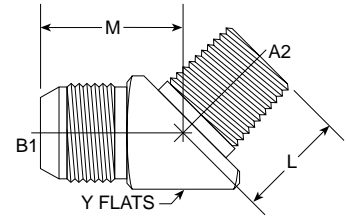
SAE# 070203 / MS# 51506



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock						
											S	FG	SS	B			
NEW NEW 2502-02-02																	
2502-03-02																	
2502-04-02	1/4	7/16-20	1/8-27	1.080	27.43	0.660	16.76	5/8	0.625	15.88							
2502-04-04	1/4	7/16-20	1/4-18	1.220	30.98	0.880	22.35	3/4	0.750	19.05							
2502-04-06	1/4	7/16-20	3/8-18	1.020	25.91	1.290	32.77	3/4	0.750	19.05							
2502-04-08	1/4	7/16-20	1/2-14	1.230	31.24	1.400	35.56	1 1/8	1.125	28.58							
2502-05-02	5/16	1/2-20	1/8-27	0.660	16.76	1.080	27.43	5/8	0.625	15.88							
2502-05-04	5/16	1/2-20	1/4-18	0.880	22.35	1.220	30.98	7/8	0.875	22.23							
2502-05-06	5/16	1/2-20	3/8-18	1.020	25.91	1.290	32.76	3/4	0.750	19.05							
2502-06-02	3/8	9/16-18	1/8-27	0.670	17.02	1.234	31.34	3/4	0.750	19.05							
2502-06-04	3/8	9/16-18	1/4-18	0.880	22.35	1.234	31.34	3/4	0.750	19.05							
2502-06-06	3/8	9/16-18	3/8-18	1.020	25.91	1.310	33.27	3/4	0.750	19.05							
2502-06-08	3/8	9/16-18	1/2-14	1.234	31.34	1.410	35.81	1 1/8	1.125	28.58							
2502-08-04	1/2	3/4-16	1/4-18	1.010	25.65	1.421	36.09	7/8	0.875	22.23							
2502-08-06	1/2	3/4-16	3/8-18	1.020	25.91	1.421	36.09	7/8	0.875	22.23							
2502-08-08	1/2	3/4-16	1/2-14	1.234	31.34	1.520	38.61	1 1/8	1.125	28.58							
2502-08-12	1/2	3/4-16	3/4-14	1.360	34.54	1.650	41.91	1 3/8	1.375	34.93							
2502-10-06	5/8	7/8-14	3/8-18	1.010	25.65	1.640	41.66	1 1/8	1.125	28.58							
2502-10-08	5/8	7/8-14	1/2-14	1.234	31.34	1.640	41.66	1 1/8	1.125	28.58							
2502-10-12	5/8	7/8-14	3/4-14	1.360	34.54	1.770	44.96	1 3/8	1.375	34.93							
2502-12-08	3/4	1 1/16-12	1/2-14	1.359	34.52	1.890	48.01	1 3/8	1.375	34.93							
2502-12-12	3/4	1 1/16-12	3/4-14	1.359	34.52	1.890	48.01	1 3/8	1.375	34.93							
2502-12-16	3/4	1 1/16-12	1-11 1/2	1.625	41.28	1.701	43.21	1 5/8	1.625	41.28							
2502-14-12	7/8	1 3/16-12	3/4-14	1.421	36.09	1.859	47.22	1 3/8	1.375	34.93							
2502-16-12	1	1 5/16-12	3/4-14	1.390	35.31	2.171	55.14	1 5/8	1.625	41.28							
2502-16-16	1	1 5/16-12	1-11 1/2	1.625	41.28	2.171	55.14	1 5/8	1.625	41.28							
2502-16-20	1	1 5/16-12	1 1/4-11 1/2	1.703	43.26	2.281	57.94	2	2.000	50.80							
2502-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1.703	43.26	2.328	59.13	2	2.000	50.80							
2502-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	2.080	52.83	2.890	73.41	2 3/8	2.375	60.33							
2502-32-32	2	2 1/2-12	2-11 1/2	2.390	60.71	3.300	83.82	2 7/8	2.875	73.03							

MJ-MP 45° 2503 Series

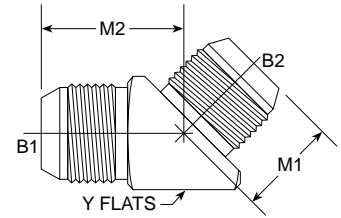
SAE# 070302 / MS# 51508



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
2503-02-02	1/8	5/16-24	1/8-27	0.520	13.21	0.690	17.53	1/2	0.500	12.70	•	•	•	
2503-03-02	3/16	3/8-24	1/8-27	0.520	13.21	0.690	17.53	1/2	0.500	12.70	•	•	•	
2503-04-02	1/4	7/16-20	1/8-27	0.640	16.26	0.720	18.29	1/2	0.500	12.70	•	•	•	•
2503-04-04	1/4	7/16-20	1/4-18	0.860	21.84	0.820	20.83	5/8	0.625	15.88	•	•	•	•
2503-04-06	1/4	7/16-20	3/8-18	0.950	24.13	0.850	21.59	13/16	0.812	20.62	•	•	•	
2503-04-08	1/4	7/16-20	1/2-14	1.170	29.72	0.870	22.10	15/16	0.937	23.80	•	•	•	
2503-05-02	5/16	1/2-20	1/8-27	0.640	16.26	0.770	19.59	9/16	0.562	14.27	•	•	•	
2503-05-04	5/16	1/2-20	1/4-18	0.859	21.82	0.820	20.83	5/8	0.625	15.88	•	•	•	
2503-05-06	5/16	1/2-20	3/8-18	0.950	24.13	0.850	21.59	13/16	0.812	20.62	•	•	•	
2503-06-02	3/8	9/16-18	1/8-27	0.656	16.66	0.830	21.08	5/8	0.625	15.88	•	•	•	
2503-06-04	3/8	9/16-18	1/4-18	0.859	21.82	0.830	21.08	5/8	0.625	15.88	•	•	•	•
2503-06-06	3/8	9/16-18	3/8-18	0.950	24.13	0.870	22.10	13/16	0.812	20.62	•	•	•	•
2503-06-08	3/8	9/16-18	1/2-14	1.171	29.74	0.880	22.35	15/16	0.937	23.80	•	•	•	•
2503-06-12	3/8	9/16-18	3/4-14	1.200	30.48	0.930	23.62	1 1/8	1.125	28.58	•	•	•	
2503-08-04	1/2	3/4-16	1/4-18	0.760	19.30	0.980	24.89	13/16	0.812	20.62	•	•	•	
2503-08-06	1/2	3/4-16	3/8-18	0.953	24.21	0.980	24.89	13/16	0.812	20.62	•	•	•	•
2503-08-08	1/2	3/4-16	1/2-14	1.171	29.74	0.990	25.15	15/16	0.937	23.80	•	•	•	•
2503-08-12	1/2	3/4-16	3/4-14	1.200	30.48	1.040	26.42	1 1/8	1.125	28.58	•	•	•	
2503-10-04	5/8	7/8-14	1/4-18	0.980	24.89	1.110	28.19	7/8	0.875	22.23	•	•	•	
2503-10-06	5/8	7/8-14	3/8-18	1.060	26.92	1.110	28.19	15/16	0.937	23.80	•	•	•	
2503-10-08	5/8	7/8-14	1/2-14	1.170	29.72	1.110	28.19	15/16	0.937	23.80	•	•	•	•
2503-10-12	5/8	7/8-14	3/4-14	1.200	30.48	1.160	29.46	1 1/8	1.125	28.58	•	•	•	
2503-12-08	3/4	1 1/16-12	1/2-14	1.200	30.48	1.280	32.51	1 1/8	1.125	28.58	•	•	•	
2503-12-12	3/4	1 1/16-12	3/4-14	1.200	30.48	1.280	32.51	1 1/8	1.125	28.58	•	•	•	•
2503-12-16	3/4	1 1/16-12	1-11 1/2	1.480	37.59	1.420	36.07	1 3/8	1.375	34.93	•	•	•	
2503-14-12	7/8	1 3/16-12	3/4-14	1.300	33.02	1.450	36.83	1 1/4	1.250	31.75	•	•	•	
2503-16-08	1	1 5/16-12	1/2-14	1.280	32.51	1.470	37.34	1 3/8	1.375	34.93	•	•	•	
2503-16-12	1	1 5/16-12	3/4-14	1.290	32.17	1.470	37.34	1 3/8	1.375	34.93	•	•	•	
2503-16-16	1	1 5/16-12	1-11 1/2	1.480	37.59	1.470	37.34	1 3/8	1.375	34.93	•	•	•	•
2503-16-20	1	1 5/16-12	1 1/4-11 1/2	1.670	42.42	1.550	39.37	1 3/4	1.750	44.45	•	•	•	
2503-20-16	1 1/4	1 5/8-12	1-11 1/2	1.640	41.66	1.590	40.39	1 3/4	1.750	44.45	•	•	•	
2503-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1.670	42.42	1.590	40.39	1 3/4	1.750	44.45	•	•	•	
2503-20-24	1 1/4	1 5/8-12	1 1/2-11 1/2	1.770	44.96	1.660	42.16	2	2.000	50.80	•	•	•	
2503-24-20	1 1/2	1 7/8-12	1 1/2-11 1/2	1.740	44.20	1.780	45.21	1 7/8	1.875	47.63	•	•	•	
2503-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	1.770	44.96	1.780	45.21	2	2.000	50.80	•	•	•	
2503-32-32	2	2 1/2-12	2-11 1/2	2.110	53.59	2.220	56.38	2 5/8	2.625	66.68	•	•	•	
2503-40-40	2 1/2	3/8	2 1/2-8	2.485	63.12	2.200	55.88	3 15/64	3.234	82.15	•	•	•	

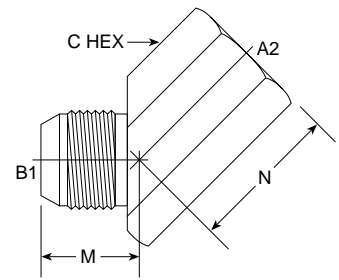
Tube Fittings & Adapters

MJ-MJ 45° 2504 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	M1 LGTH M.M.	M2 LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
									S	FG	SS	B		
2504-04-04	1/4	7/16-20	7/16-20	0.720	18.29	0.720	18.29	1/2	0.500	12.70	•	•	•	
2504-06-04	3/8	9/16-18	7/16-20	0.820	20.83	0.830	21.08	5/8	0.625	15.88	•	•	•	
2504-06-06	3/8	9/16-18	9/16-18	0.830	21.08	0.830	21.08	5/8	0.625	15.88	•	•	•	
2504-08-08	1/2	3/4-16	3/4-16	0.980	24.89	0.980	24.89	13/16	0.812	20.62	•	•	•	
2504-10-10	5/8	7/8-14	7/8-14	1.110	28.19	1.110	28.19	15/16	0.937	23.80	•	•	•	
2504-12-12	3/4	1 1/16-12	1 1/16-12	1.280	32.51	1.280	32.51	1 1/8	1.125	28.58	•	•	•	
2504-16-16	1	1 1/16-12	1 1/16-12	1.510	38.35	1.510	38.35	1 3/8	1.375	34.93	•	•	•	

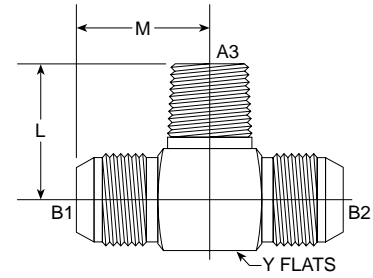
MJ-FP 45° 2505 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	M LGTH M.M.	N LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
									S	FG	SS	B		
2505-04-04	1/4	7/16-20	1/4-18	0.870	22.10	0.610	15.49	3/4	0.750	19.05	•	•	•	
2505-06-04	3/8	9/16-18	1/4-18	0.740	18.80	1.120	28.45	3/4	0.750	19.05	•	•	•	
2505-06-06	3/8	9/16-18	3/8-18	1.050	26.67	0.790	20.07	7/8	0.875	22.23	•	•	•	
2505-08-06	1/2	3/4-16	3/8-18	0.940	23.88	1.200	30.48	7/8	0.875	22.23	•	•	•	
2505-08-08	1/2	1/2-14	1/2-14	0.960	24.38	1.220	30.99	1 1/8	1.125	28.58	•	•	•	
2505-10-08	5/8	7/8-14	1/2-14	0.960	24.38	1.410	35.81	1 1/8	1.125	28.58	•	•	•	
2505-12-12	3/4	1 1/16-12	3/4-14	1.030	26.16	1.530	38.86	1 3/16	1.188	30.16	•	•	•	
2505-16-16	1	1 5/16-12	1-11 1/2	1.110	28.19	1.700	43.18	1 5/8	1.625	41.28	•	•	•	

MJ-MJ-MP Tee 2601 Series

SAE# 070425 / MS# 51512

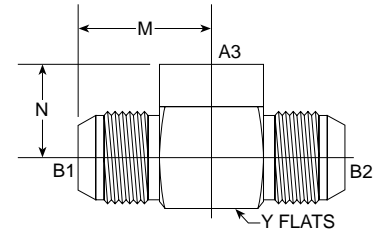


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	A3 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
2601-02-02-02	1/8	5/16-24	5/16-24	1/8-27	0.720	18.30	0.770	19.56	7/16	0.438	11.11			•	
2601-03-03-02	3/16	3/8-24	3/8-24	1/8-27	0.720	18.29	0.830	21.08	7/16	0.438	11.13	•	•	•	
2601-04-04-02	1/4	7/16-20	7/16-20	1/8-27	0.780	19.81	0.890	22.61	1/2	0.500	12.70	•	•	•	
2601-04-04-04	1/4	7/16-20	7/16-20	1/4-18	1.090	27.69	1.050	26.67	5/8	0.625	15.88	•	•	•	
2601-04-04-06	1/4	7/16-20	7/16-20	3/8-18	1.220	30.99	1.020	25.91	5/8	0.625	15.88	•	•	•	
2601-05-05-02	5/16	1/2-20	1/2-20	1/8-27	0.780	19.81	0.950	24.13	9/16	0.562	14.27	•	•	•	
2601-05-05-04	5/16	1/2-20	1/2-20	1/4-18	1.090	27.69	1.050	26.67	5/8	0.625	15.88	•	•	•	
2601-06-06-02	3/8	9/16-18	9/16-18	1/8-27	0.830	21.08	1.060	26.92	5/8	0.625	15.88	•	•	•	
2601-06-06-04	3/8	9/16-18	9/16-18	1/4-18	1.090	27.69	1.060	26.92	5/8	0.625	15.88	•	•	•	
2601-06-06-06	3/8	9/16-18	9/16-18	3/8-18	1.220	30.99	1.150	29.21	13/16	0.812	20.62	•	•	•	
2601-06-06-08	3/8	9/16-18	9/16-18	1/2-14	1.470	37.34	1.220	30.99	15/16	0.937	23.80	•	•	•	
2601-08-04-08	1/2	3/4-16	3/4-16	1/4-18	1.470	37.34	1.090	27.68	15/16	0.937	23.81	•	•	•	
2601-08-08-04	1/2	3/4-16	3/4-16	1/4-18	1.190	30.23	1.250	31.75	13/16	0.812	20.62	•	•	•	
2601-08-08-06	1/2	3/4-16	3/4-16	3/8-18	1.220	30.99	1.250	31.75	13/16	0.812	20.62	•	•	•	
2601-08-08-08	1/2	3/4-16	3/4-16	1/2-14	1.470	37.34	1.330	33.78	15/16	0.937	23.80	•	•	•	
2601-08-08-12	1/2	3/4-16	3/4-16	3/4-14	1.590	40.39	1.420	36.07	1 1/8	1.125	28.58	•	•	•	
2601-10-10-06	5/8	7/8-14	7/8-14	3/8-18	1.290	32.77	1.450	36.83	15/16	0.937	23.80	•	•	•	
2601-10-10-08	5/8	7/8-14	7/8-14	1/2-14	1.470	37.34	1.450	36.83	15/16	0.937	23.80	•	•	•	
2601-10-10-12	5/8	7/8-14	7/8-14	3/4-14	1.590	40.39	1.550	39.37	1 1/8	1.125	28.58	•	•	•	
2601-12-12-08	3/4	1 1/16-12	1 1/16-12	1/2-14	1.590	40.39	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
2601-12-12-12	3/4	1 1/16-12	1 1/16-12	3/4-14	1.590	40.39	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
2601-12-12-16	3/4	1 1/16-12	1 1/16-12	1-11 1/2	1.970	50.04	1.800	45.72	1 3/8	1.375	34.93	•	•	•	
NEW 2601-12-16-20												•	•	•	
2601-14-14-12	7/8	1 3/16-12	1 3/16-12	3/4-14	1.687	42.85	1.800	45.72	1 1/4	1.250	31.75	•	•	•	
2601-16-16-12	1	1 5/16-12	1 5/16-12	3/4-14	1.730	43.94	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2601-16-16-16	1	1 5/16-12	1 5/16-12	1-11 1/2	1.968	49.99	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2601-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.800	71.12	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
2601-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.640	67.06	2.328	59.13	2	2.000	50.80	•	•	•	
2601-32-32-32	2	2 1/2-12	2 1/2-12	2-11 1/2	3.000	76.20	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

Tube Fittings & Adapters

MJ-MJ-FP Tee 2602 Series

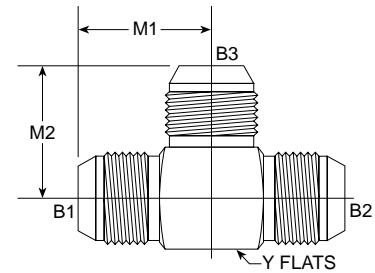
SAE# 070427 / MS# 51513



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	A3 NPTF	M LGTH M.M.	N LGTH M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock						
									S	FG	SS	B			
2602-04-04-02	1/4	7/16-20	7/16-20	1/8-27	1.080	27.43	0.660	16.76	5/8	0.625	15.88	•	•	•	
2602-04-04-04	1/4	7/16-20	7/16-20	1/4-18	1.130	28.70	0.880	22.35	3/4	0.750	19.05	•	•	•	
2602-05-05-02	5/16	1/2-20	1/2-20	1/8-27	1.080	27.43	0.660	16.76	5/8	0.625	15.88	•	•	•	
2602-06-06-04	3/8	9/16-18	9/16-18	1/4-18	1.240	31.50	0.880	22.35	3/4	0.750	19.05	•	•	•	
2602-06-06-06	3/8	9/16-18	9/16-18	3/8-18	1.320	33.53	1.020	25.91	7/8	0.875	22.23	•	•	•	
2602-08-08-04	1/2	3/4-16	3/4-16	1/4-18	1.420	36.07	0.900	22.86	13/16	0.812	20.62	•	•	•	
2602-08-08-06	1/2	3/4-16	3/4-16	3/8-18	1.420	36.07	1.015	25.78	7/8	0.875	22.23	•	•	•	•
2602-08-08-08	1/2	3/4-16	3/4-16	1/2-14	1.520	38.61	1.230	31.24	1 1/8	1.125	28.58	•	•	•	
2602-10-10-04	5/8	7/8-14	7/8-14	1/4-18	1.450	36.83	1.000	25.40	15/16	0.937	23.80	•	•	•	
2602-10-10-08	5/8	7/8-14	7/8-14	1/2-14	1.640	41.66	1.240	31.50	1 1/8	1.125	28.58	•	•	•	
2602-10-10-12	5/8	7/8-14	7/8-14	3/4-14	1.760	44.70	1.360	34.54	1 3/8	1.375	34.93	•	•	•	
2602-12-12-08	3/4	1 1/16-12	1 1/16-12	1/2-14	1.660	42.16	1.240	31.50	1 1/8	1.125	28.58	•	•	•	
2602-12-12-12	3/4	1 1/16-12	1 1/16-12	3/4-14	1.890	48.01	1.359	34.52	1 3/8	1.375	34.93	•	•	•	•
2602-12-12-16	3/4	1 1/16-12	1 1/16-12	1-11 1/2	2.000	50.80	1.620	41.15	1 5/8	1.623	41.28	•	•	•	
2602-14-14-12	7/8	1 3/16-12	1 3/16-12	3/4-14	1.859	47.22	1.421	36.09	1 3/8	1.375	34.93	•	•	•	
2602-16-16-12	1	1 5/16-12	1 5/16-12	3/4-14	2.170	55.12	1.360	34.54	1 3/8	1.375	34.93	•	•	•	
2602-16-16-16	1	1 5/16-12	1 5/16-12	1-11 1/2	2.170	55.12	1.625	41.28	1 5/8	1.625	41.28	•	•	•	•
2602-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 1/4-11 1/2	2.330	59.18	1.703	43.26	2	2.000	50.80	•	•	•	
2602-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 1/2-11 1/2	2.890	73.41	2.078	52.78	2 3/8	2.375	60.33	•	•	•	
2602-32-32-32	2	2 1/2-12	2 1/2-12	2-11 1/2	3.300	83.82	2.390	60.71	2 7/8	2.875	73.03	•	•	•	

MJ-MJ-MJ Tee 2603 Series

SAE# 070401 / MS# 51510

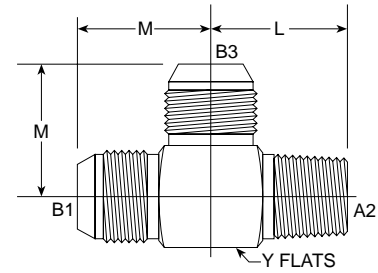


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	M1		M2		Y		Standard Material From Stock				
					LGTH	M.M.	LGTH	M.M.	FLATS	FLATS	M.M.	S	FG	SS	B
2603-02-02-02	1/8	5/16-24	5/16-24	5/16-24	0.770	19.56	0.770	19.56	7/16	0.438	11.13	•	•	•	•
2603-03-03-03	3/16	3/8-24	3/8-24	3/8-24	0.830	21.08	0.830	21.08	7/16	0.438	11.13	•	•	•	•
2603-04-04-04	1/4	7/16-20	7/16-20	7/16-20	0.890	22.61	0.890	22.61	1/2	0.500	12.70	•	•	•	•
2603-04-04-06	1/4	7/16-20	7/16-20	9/16-18	1.050	26.67	1.060	26.92	5/8	0.625	15.88	•	•	•	•
2603-05-05-04	5/16	1/2-20	1/2-20	7/16-20	0.950	24.13	0.890	22.61	9/16	0.562	14.27	•	•	•	•
2603-05-05-05	5/16	1/2-20	1/2-20	1/2-20	0.950	24.13	0.950	24.13	9/16	0.562	14.27	•	•	•	•
2603-06-06-04	3/8	9/16-18	9/16-18	7/16-20	1.060	26.92	0.980	24.89	9/16	0.562	14.28	•	•	•	•
2603-06-06-06	3/8	9/16-18	9/16-18	9/16-18	1.060	26.92	1.060	26.92	5/8	0.625	15.88	•	•	•	•
2603-06-06-08	3/8	9/16-18	9/16-18	3/4-16	1.140	28.96	1.250	31.75	13/16	0.812	20.62	•	•	•	•
NEW 2603-06-06-10															
2603-08-06-06	1/2	3/4-16	9/16-18	9/16-18	1.250	31.75	1.140	28.96	13/16	0.812	20.62	•	•	•	•
2603-08-08-06	1/2	3/4-16	3/4-16	9/16-18	1.250	31.75	1.140	28.96	13/16	0.812	20.62	•	•	•	•
2603-08-08-08	1/2	3/4-16	3/4-16	3/4-16	1.250	31.75	1.250	31.75	13/16	0.812	20.62	•	•	•	•
2603-08-08-10	1/2	3/4-16	3/4-16	7/8-14	1.350	34.29	1.450	36.83	15/16	0.937	23.80	•	•	•	•
2603-08-08-12	1/2	3/4-16	3/4-16	1 1/16-12	1.450	36.83	1.660	42.16	1 1/8	1.125	28.58	•	•	•	•
2603-10-08-08	5/8	7/8-14	3/4-16	3/4-16	1.453	36.91	1.312	33.32	15/16	0.937	23.80	•	•	•	•
NEW 2603-10-10-06															
2603-10-10-08	5/8	7/8-14	7/8-14	3/4-16	1.450	36.83	1.350	34.29	15/16	0.937	23.80	•	•	•	•
2603-10-10-10	5/8	7/8-14	7/8-14	7/8-14	1.450	36.83	1.450	36.83	15/16	0.937	23.80	•	•	•	•
2603-10-10-12	5/8	7/8-14	7/8-14	1 1/16-12	1.550	39.37	1.660	42.16	1 1/8	1.125	28.58	•	•	•	•
2603-12-10-10	3/4	1 1/16-12	7/8-14	7/8-14	1.660	42.16	1.550	39.37	1 1/16	1.062	26.98	•	•	•	•
2603-12-12-06	3/4	1 1/16-12	1 1/16-12	9/16-18	1.660	42.16	1.350	34.29	1 1/8	1.125	28.58	•	•	•	•
2603-12-12-08	3/4	1 1/16-12	1 1/16-12	3/4-16	1.660	42.16	1.430	36.32	1 1/8	1.125	28.58	•	•	•	•
2603-12-12-10	3/4	1 1/16-12	1 1/16-12	7/8-14	1.660	42.16	1.560	39.62	1 1/8	1.125	28.58	•	•	•	•
2603-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.660	42.16	1.660	42.16	1 1/8	1.125	28.58	•	•	•	•
2603-12-12-16	3/4	1 1/16-12	1 1/16-12	1 5/16-12	1.760	44.70	1.810	45.97	1 3/8	1.375	34.93	•	•	•	•
2603-12-12-20	3/4	1 1/16-12	1 1/16-12	1 5/8-12	1.970	50.04	2.060	52.32	1 3/4	1.750	44.45	•	•	•	•
2603-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	1.800	45.72	1.800	45.72	1 1/4	1.250	31.75	•	•	•	•
2603-16-12-12	1	1 5/16-12	1 1/16-12	1 1/16-12	1.810	45.97	1.760	44.70	1 5/16	1.313	33.35	•	•	•	•
2603-16-12-16	1	1 5/16-12	1 1/16-12	1 5/16-12	1.760	44.70	1.810	45.97	1 5/16	1.313	33.35	•	•	•	•
2603-16-16-12	1	1 5/16-12	1 5/16-12	1 1/16-12	1.810	45.97	1.760	44.70	1 3/8	1.375	34.93	•	•	•	•
2603-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	1.810	45.97	1.810	45.97	1 3/8	1.375	34.93	•	•	•	•
NEW 2603-20-20-12															
2603-20-20-16	1 1/4	1 5/8-12	1 5/8-12	1 5/16-12	2.060	52.32	2.010	51.05	1 3/4	1.750	44.45	•	•	•	•
2603-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	2.060	52.32	2.060	52.32	1 3/4	1.750	44.45	•	•	•	•
2603-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	2.330	59.18	2.330	59.18	2	2.000	50.80	•	•	•	•
2603-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	3.060	77.72	3.060	77.72	2 5/8	2.625	66.68	•	•	•	•

Tube Fittings & Adapters

MJ-MP-MJ Tee 2605 Series

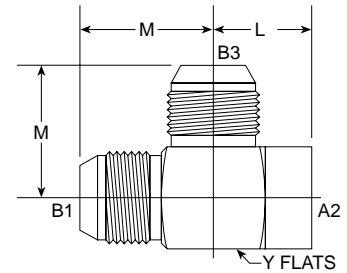
SAE# 070424 / MS# 51511



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	B3 SAE 37	L LGTH M.M.	M LGTH M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock						
									S	FG	SS	B			
2605-03-02-03	3/16	3/8-24	1/8-27	3/8-24	0.720	18.29	0.830	21.08	7/16	0.438	11.13	•	•	•	
2605-04-02-04	1/4	7/16-20	1/8-27	7/16-20	0.781	19.84	0.890	22.61	1/2	0.500	12.70	•	•	•	
2605-04-04-04	1/4	7/16-20	1/4-18	7/16-20	1.090	27.69	0.890	22.61	5/8	0.625	15.88	•	•	•	•
2605-05-02-05	5/16	1/2-20	1/8-27	1/2-20	0.810	20.57	0.950	24.13	9/16	0.562	14.27	•		•	
2605-05-04-05	5/16	1/2-20	1/4-18	1/2-20	1.090	27.69	0.950	24.13	9/16	0.562	14.27	•		•	
2605-06-02-06	3/8	9/16-18	1/8-27	9/16-18	0.900	22.86	1.060	26.92	5/8	0.625	15.88	•	•		
NEW 2605-06-04-04													•		
2605-06-04-06	3/8	9/16-18	1/4-18	9/16-18	1.090	27.69	1.060	26.92	5/8	0.625	15.88	•	•	•	
2605-06-06-06	3/8	9/16-18	3/8-18	9/16-18	1.220	30.99	1.060	26.92	13/16	0.812	20.62	•	•	•	
2605-06-08-06	3/8	9/16-18	1/2-14	9/16-18	1.470	37.34	1.220	30.99	15/16	0.937	23.80	•			
2605-08-04-08	1/2	3/4-16	1/4-18	3/4-16	1.220	30.99	1.250	31.75	13/16	0.812	20.62	•	•		
2605-08-06-06	1/2	3/4-16	3/8-18	3/8-18	1.220	30.99	1.250	31.75	13/16	0.812	20.62	•			
2605-08-06-08	1/2	3/4-16	3/8-18	3/4-16	1.218	30.94	1.250	31.75	13/16	0.812	20.62	•	•	•	
2605-08-08-06	1/2	3/4-16	1/2-14	3/8-18	1.220	30.99	1.250	31.75	13/16	0.8125	20.62	•			
2605-08-08-08	1/2	3/4-16	1/2-14	3/4-16	1.470	37.34	1.250	31.75	15/16	0.937	23.80	•	•	•	
2605-08-12-08	1/2	3/4-16	3/4-14	3/4-16	1.590	40.39	1.250	31.75	1 1/8	1.125	28.58	•			
2605-10-08-10	5/8	7/8-14	1/2-14	7/8-14	1.470	37.34	1.450	36.83	15/16	0.937	23.80	•	•	•	
2605-10-12-10	5/8	7/8-14	3/4-14	7/8-14	1.590	40.39	1.540	39.12	1 1/8	1.125	28.58	•			
2605-12-08-12	3/4	1 1/16-12	1/2-14	1 1/16-12	1.590	40.39	1.660	42.16	1 1/4	1.250	31.75	•		•	
2605-12-12-08	3/4	1 1/16-12	3/4-14	3/4-16	1.590	40.39	1.660	42.16	1 1/8	1.125	28.58	•			
2605-12-12-12	3/4	1 1/16-12	3/4-14	1 1/16-12	1.690	42.93	1.800	45.72	1 1/8	1.125	28.58	•	•	•	
2605-14-12-14	7/8	1 3/16-12	3/4-14	1 3/16-12	1.687	42.85	1.734	44.04	1 1/4	1.250	31.75	•			
2605-16-12-16	1	1 5/16-12	3/4-14	1 5/16-12	1.780	45.21	1.810	49.97	1 3/8	1.375	34.93	•			
2605-16-16-16	1	1 5/16-12	1-11 1/2	1 5/16-12	1.970	50.04	1.810	49.97	1 3/8	1.375	34.93	•		•	
2605-20-16-20	1 1/4	1 5/8-12	1-11 1/2	1 5/8-12	2.350	59.69	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
2605-20-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1 5/8-12	2.380	60.45	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
2605-24-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	1 7/8-12	2.640	67.06	2.330	59.18	2	2.000	50.80	•	•	•	
2605-32-32-32	2	2 1/2-12	2-11 1/2	2 1/2-12	3.000	76.20	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

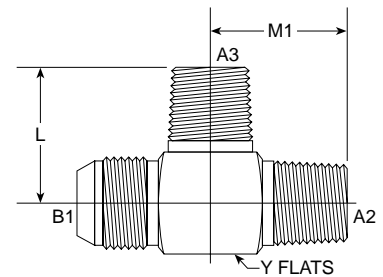
MJ-FP-MJ Tee 2606 Series

SAE# 070426 / MS# 51514



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	B3 SAE 37	L LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	Y FLATS M.M.	Standard Material From Stock					
										S	FG	SS	B		
NEW 2606-03-02-03											•				
2606-04-02-04	1/4	7/16-20	1/8-27	7/16-20	0.660	16.76	1.080	27.43	5/8	0.625	15.87	•			•
2606-04-04-04	1/4	7/16-20	1/4-18	7/16-20	0.880	22.35	1.130	28.70	3/4	0.750	19.05	•	•		•
2606-05-02-05	5/16	1/2-20	1/8-27	1/2-20	0.660	16.76	1.080	27.43	5/8	0.625	15.87	•	•		
2606-05-04-05	5/16	1/2-20	1/4-18	1/2-20	0.880	22.35	1.220	30.99	3/4	0.750	19.05	•			
2606-06-04-06	3/8	9/16-18	1/4-18	9/16-18	0.880	22.35	1.230	31.24	3/4	0.750	19.05	•	•		•
2606-06-06-04	3/8	9/16-18	3/8-18	1/4-18	1.020	25.91	1.290	32.77	3/4	0.750	19.05	•			
2606-06-06-06	3/8	9/16-18	3/8-18	9/16-18	1.020	25.91	1.310	33.27	7/8	0.875	22.23	•			
2606-08-06-08	1/2	3/4-16	3/8-18	3/4-16	1.230	31.24	1.420	36.07	7/8	0.875	22.23	•			•
2606-08-08-08	1/2	3/4-16	1/2-14	3/4-16	1.230	31.24	1.520	38.61	1 1/8	1.125	28.58	•			
2606-10-08-10	5/8	7/8-14	1/2-14	7/8-14	1.230	31.24	1.640	41.66	1 1/8	1.125	28.58	•			
2606-12-12-12	3/4	1 1/16-12	3/4-14	1 1/16-12	1.360	34.54	1.890	48.01	1 3/8	1.375	34.93	•	•		
2606-14-12-14	7/8	1 3/16-12	3/4-14	1 3/16-12	1.420	36.07	1.860	47.24	1 3/8	1.375	34.93	•			
2606-16-16-16	1	1 5/16-12	1-11 1/2	1 5/16-12	1.630	41.40	2.170	55.12	1 5/8	1.625	41.28	•	•		
2606-20-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1 5/8-12	1.700	43.18	2.330	59.18	2	2.000	50.80	•	•		
2606-24-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	1 7/8-12	2.080	52.83	2.890	73.41	2 3/8	2.375	60.33	•	•		

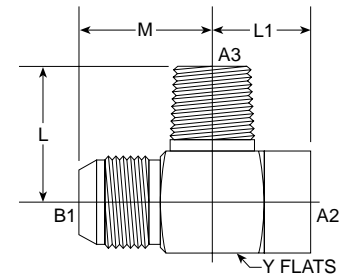
MJ-MP-MP Tee 2607 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	A3 NPTF	L LGTH M.M.	M1 LGTH M.M.	Y FLATS	Y FLATS	Y FLATS M.M.	Standard Material From Stock					
										S	FG	SS	B		
2607-04-02-02	1/4	7/16-20	1/8-27	1/8-27	0.760	19.30	0.875	22.23	1/2	0.500	12.70	•			
2607-06-04-04	3/8	9/16-18	1/4-18	1/4-18	1.080	27.43	1.060	26.92	5/8	0.625	15.88	•			
2607-06-06-06	3/8	9/16-18	3/8-18	3/8-18	1.220	30.99	1.220	30.99	13/16	0.812	20.62	•			
2607-08-06-06	1/2	3/4-16	3/8-18	3/8-18	1.200	30.48	1.250	31.75	13/16	0.812	20.62	•			
2607-08-08-08	1/2	3/4-16	1/2-14	1/2-14	1.450	36.83	1.320	33.53	15/16	0.937	23.80	•			
2607-10-08-06	5/8	7/8-14	1/2-14	3/8-18	0.775	19.68	0.800	20.32	7/8	0.875	22.22	•		•	
2607-10-08-08	5/8	7/8-14	1/2-14	1/2-14	1.480	37.59	1.450	36.83	5/16	0.937	23.80	•			
2607-12-12-12	3/4	1 1/16-12	3/4-14	3/4-14	1.600	40.64	1.650	41.91	1 1/8	1.125	28.58	•			
2607-16-16-16	1	1 5/16-12	1-11 1/2	1-11 1/2	1.970	50.04	1.820	46.23	1 3/8	1.375	34.93	•			
2607-20-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.375	60.33	2.062	52.37	2	2.000	50.80	•	•		

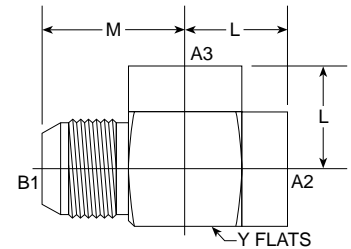
Tube Fittings & Adapters

MJ-FP-MP Tee 2608 Series



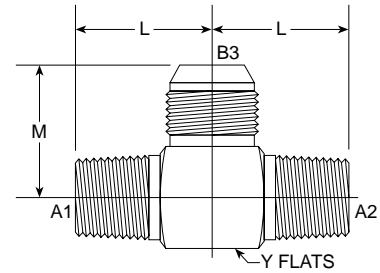
PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	A3 NPTF	L LGTH M.M.	L1 LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock						
											S	FG	SS	B			
2608-04-02-02	1/4	7/16-20	1/8-27	1/8-27	0.850	21.59	0.650	16.51	1.080	27.43	11/16	0.687	17.45	•			
2608-06-04-04	3/8	9/16-18	1/4-18	1/4-18	1.150	29.21	0.875	22.22	1.140	28.96	3/4	0.750	19.05	•			
NEW 2608-08-02-06																	
2608-08-06-06	1/2	3/4-16	3/8-18	3/8-18	1.310	33.27	1.020	25.91	1.430	36.32	1	1.000	25.40	•		•	
2608-10-08-08	5/8	7/8-14	1/2-14	1/2-14	1.470	37.34	1.230	31.24	1.630	41.40	1 1/8	1.125	28.58	•			
2608-12-12-12	3/4	1 1/16-12	3/4-14	3/4-14	1.730	43.94	1.360	34.54	1.790	45.47	1 3/8	1.375	34.93	•			
NEW 2608-16-16-16															•		

MJ-FP-FP Tee 2609 Series



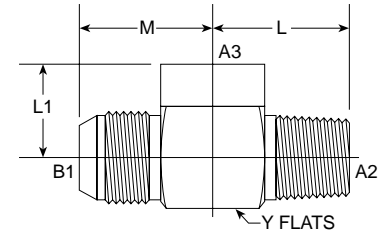
PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	A3 NPTF	L LGTH M.M.	M LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock						
											S	FG	SS	B			
2609-04-02-02	1/4	7/16-20	1/8-27	1/8-27	0.640	16.26	1.080	27.43	5/8	0.625	15.88	•					
2609-05-04-04	5/16	1/2-20	1/4-18	1/4-18	0.510	12.95	1.135	28.83	3/4	0.750	19.05	•					
2609-06-04-04	3/8	9/16-18	1/4-18	1/4-18	0.870	22.10	1.100	27.94	3/4	0.750	19.05	•		•			
2609-08-06-06	1/2	3/4-16	3/8-18	3/8-18	1.010	25.65	1.420	36.07	3/4	0.750	19.05	•					
NEW 2609-08-08-08																	
2609-10-08-08	5/8	7/8-14	1/2-14	1/2-14	1.230	31.24	1.630	41.40	1 1/8	1.125	28.58	•					
2609-12-12-12	3/4	1 1/16-12	3/4-14	3/4-14	1.370	34.80	1.780	45.21	1 3/8	1.375	34.93	•					
2609-16-16-16	1	1 5/16-12	1-11 1/2	1-11 1/2	1.590	40.39	2.200	55.88	1 5/8	1.625	41.30	•		•			
NEW 2609-20-20-20															•		

MP-MP-MJ Tee 2610 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPTF	B3 SAE 37	L		M		Y		Standard Material From Stock				
					LGTH	M.M.	LGTH	M.M.	FLATS	FLATS	M.M.	S	FG	SS	B
2610-04-04-04	1/4	1/4-18	1/4-18	7/16-20	1.090	27.69	0.940	23.88	5/8	0.625	15.88	•			
2610-04-04-06	1/4	1/4-18	1/4-18	9/16-18	1.100	27.94	1.040	26.42	5/8	0.625	15.88	•		•	
2610-06-06-06	3/8	3/8-18	3/8-18	9/16-18	1.210	30.73	1.150	29.21	13/16	0.812	20.62	•			
2610-06-06-08	3/8	3/8-18	3/8-18	3/4-16	1.210	30.73	1.250	31.75	13/16	0.812	20.62	•			
2610-08-08-08	1/2	3/4-16	1/2-14	1/2-14	1.470	37.34	1.320	33.53	15/16	0.937	23.82	•	•		
2610-08-08-10	1/2	1/2-14	1/2-14	7/8-14	1.470	37.34	1.450	36.83	15/16	0.937	23.80	•			
2610-12-12-12	3/4	3/4-14	3/4-14	1 1/16-12	1.590	40.39	1.650	41.91	1 1/8	1.125	28.58	•	•		
2610-12-12-16	3/4	3/4-14	3/4-14	1-11 1/2	1.720	43.69	1.810	45.97	1 3/8	1.375	34.93	•			
2610-16-16-16	1	1 5/16-12	1-11 1/2	1-11 1/2	1.980	50.29	1.810	45.97	1 3/8	1.375	34.93	•			

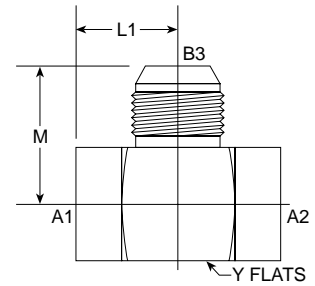
MJ-MP-FP Tee 2611 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	A3 NPTF	L		L1		M		Y		Standard Material From Stock				
					LGTH	M.M.	LGTH	M.M.	LGTH	M.M.	FLATS	FLATS	M.M.	S	FG	SS	B
2611-04-02-02	1/4	7/16-20	1/8-27	1/8-27	0.830	22.35	0.660	16.76	0.940	23.88	5/8	0.625	15.88	•			
2611-04-04-02	1/4	7/16-20	1/4-18	1/8-27	1.030	26.16	0.660	16.76	0.940	23.88	5/8	0.625	15.88	•			
2611-04-04-04	1/4	7/16-20	1/4-18	1/4-18	1.090	27.68	0.880	22.35	1.000	25.40	3/4	0.750	19.05	•			
2611-04-08-06	1/4	7/16-20	1/2-14	3/8-18	1.460	37.08	1.010	25.65	1.090	27.69	7/8	0.875	22.23	•			
2611-06-04-04	3/8	9/16-18	1/4-18	1/4-18	1.160	29.46	0.880	22.35	1.120	28.45	3/4	0.750	19.05	•			
2611-06-06-06	3/8	9/16-18	3/8-18	3/8-18	1.260	32.00	1.010	25.65	1.190	30.23	7/8	0.875	22.23	•			
2611-08-06-06	1/2	3/4-16	3/8-18	3/8-18	1.240	31.50	1.020	25.91	1.270	32.26	7/8	0.875	22.23	•			
2611-08-08-08	1/2	3/4-16	1/2-14	1/2-14	1.460	37.08	1.230	31.24	1.400	35.56	1 1/8	1.125	28.58	•	•		
2611-10-08-08	5/8	7/8-14	1/2-14	1/2-14	1.500	38.10	1.230	31.24	1.480	37.59	1 1/16	1.062	26.98	•			
2611-12-12-12	3/4	1 1/16-12	3/4-14	3/4-14	1.600	40.64	1.360	34.54	1.890	48.01	1 3/8	1.375	34.93	•		•	
2611-16-16-16	1	1 5/16-12	1-11 1/2	1-11 1/2	2.090	53.09	1.630	41.40	2.080	52.83	1 5/8	1.625	41.28	•		•	
2611-20-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	2.480	62.70	1.700	43.25	2.475	62.70	2	2.000	50.80	•	•	•	

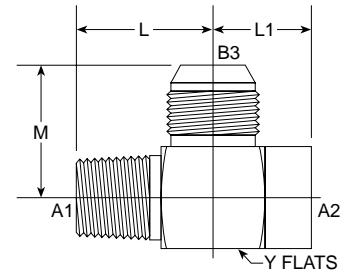
Tube Fittings & Adapters

FP-FP-MJ Tee 2612 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPTF	B3 SAE 37	L1 LGTH	M M.M.	M LGTH	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
											S	FG	SS	B	
2612-02-02-04	1/4	1/8-27	1/8-27	7/16-20	0.660	16.76	1.080	27.43	5/8	0.625	15.27	•			
2612-04-04-06	3/8	1/4-18	1/4-18	3/8-18	0.880	22.35	1.230	31.24	3/4	0.750	19.05	•			
2612-06-06-08	3/8	3/8-18	3/8-18	3/4-16	1.020	25.91	1.420	36.07	7/8	0.875	22.23	•			
2612-08-08-08	1/2	1/2-14	1/2-14	3/4-16	1.300	33.02	1.410	35.81	7/8	0.875	22.23	•			
2612-08-08-10	1/2	1/2-14	1/2-14	7/8-14	1.650	41.91	1.240	31.50	1 1/8	1.125	28.58	•			
2612-12-12-12	3/4	3/4-14	3/4-14	1 1/16-12	1.890	48.01	1.360	34.54	1 3/8	1.375	34.93	•		•	
NEW 2612-16-16-16												•	•		

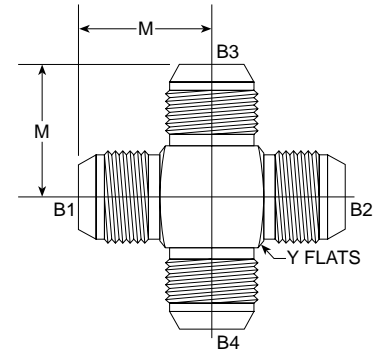
MP-FP-MJ Tee 2613 Series



PART NO. SIZE	TUBE O.D.	B1 NPTF	A2 NPTF	A3 SAE 37	L LGTH	L1 LGTH	M M.M.	M LGTH	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
												S	FG	SS	B		
2613-02-02-04	1/8	1/8-27	1/8-27	7/16-20	0.780	19.81	0.650	16.51	0.960	24.38	5/8	0.625	15.88	•			•
2613-04-04-06	1/4	1/4-18	1/4-18	9/16-18	1.100	27.94	0.870	22.10	1.120	28.45	3/4	0.750	19.05	•		•	
2613-06-06-06	3/8	3/8-18	3/8-18	9/16-18	1.230	31.24	1.020	25.91	1.190	30.23	7/8	0.875	22.23	•			
2613-06-06-08	3/8	3/8-18	3/8-18	3/4-16	1.230	31.24	1.020	25.91	1.290	32.77	7/8	0.875	22.23	•		•	
2613-08-08-10	1/2	1/2-14	1/2-14	7/8-14	1.470	37.34	1.230	31.24	1.570	39.88	1 1/8	1.125	28.58	•			
2613-12-12-12	3/4	3/4-14	3/4-14	1 1/16-12	1.590	40.38	1.360	34.54	1.790	45.47	1 3/8	1.375	34.93	•			
2613-16-16-16	1	1-11 1/2	1-11 1/2	1 5/8-12	1.620	41.15	1.250	31.76	2.170	55.12	1 5/8	1.625	41.30	•	•	•	

MJ-MJ-MJ-MJ Cross 2650 Series

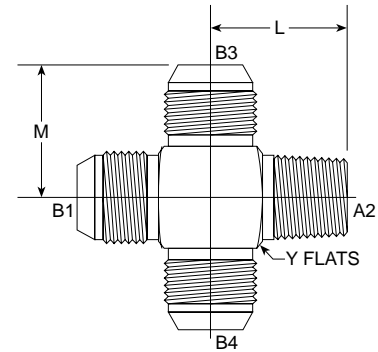
SAE# 070501 / MS# 51517



NEW

PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	B4 SAE 37	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
2650-04-04-04-04	1/4	7/16-20	7/16-20	7/16-20	7/16-20	0.890	22.61	1/2	0.500	12.70	•	•	•	
2650-05-05-05-05	5/16	1/2-20	1/2-20	1/2-20	1/2-20	0.950	24.13	9/16	0.562	14.27	•	•	•	
2650-06-06-06-06	3/8	9/16-18	9/16-18	9/16-18	9/16-18	1.060	26.92	5/8	0.625	15.88	•	•	•	
2650-06-08-06-08	1/2	3/4-16	3/4-16	3/4-16	3/4-16	1.250	31.75	13/16	0.812	20.62	•	•	•	
2650-08-08-08-08	5/8	7/8-14	7/8-14	7/8-14	7/8-14	1.450	36.83	15/16	0.937	23.80	•	•	•	
2650-10-10-10-10	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-12	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
2650-12-12-12-12	7/8	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	1.800	45.72	1 1/4	1.250	31.75	•	•	•	
2650-14-14-14-14	1	1 5/16-12	1 5/16-12	1 5/16-12	1 5/16-12	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
2650-16-16-16-16	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	1 5/8-12	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
2650-20-20-20-20	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	1 7/8-12	2.330	59.18	2	2.000	50.80	•	•	•	
2650-24-24-24-24	2	2 1/2-12	2 1/2-12	2 1/2-12	2 1/2-12	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

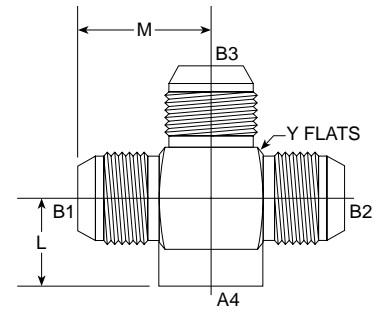
MJ-MP-MJ-MJ Cross 2651 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	B3 SAE 37	B4 SAE 37	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
													S	FG	SS	B
2651-04-04-04-04	1/4	7/16-20	1/4-18	7/16-20	7/16-20	1.090	27.69	1.050	26.67	5/8	0.625	15.88	•			
2651-06-06-04-06	3/8	7/16-20	1/4-18	7/16-20	7/16-20	1.090	27.69	1.060	26.92	5/8	0.625	15.88	•			
2651-06-04-06-06	3/8	9/16-18	1/4-18	9/16-18	9/16-18	1.060	26.92	1.060	26.92	5/8	0.625	15.88	•			
2651-06-06-06-06	3/8	9/16-18	3/8-18	9/16-18	9/16-18	1.220	30.99	1.140	28.96	13/16	0.812	20.62	•			
2651-08-08-08-08	1/2	3/4-16	1/2-14	3/4-16	3/4-16	1.470	37.34	1.330	33.78	15/16	0.937	23.80	•			
2651-16-16-16-16	1	1 5/8-12	1-11 1/2	1 5/8-12	1 5/8-12	1.970	50.04	1.810	45.97	1 3/8	1.375	34.93	•			
2651-12-12-12-12	3/4	1 1/16-12	3/4-14	1 1/16-12	1 1/16-12	1.660	42.16	1.660	42.16	1 1/8	1.125	28.58	•			

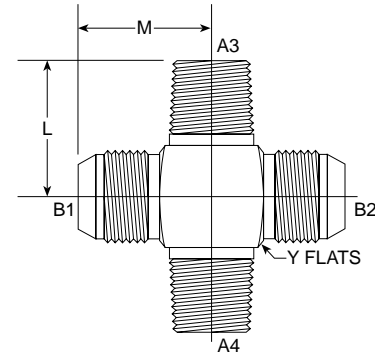
Tube Fittings & Adapters

MJ-MJ-MJ-FP Cross 2652 Series



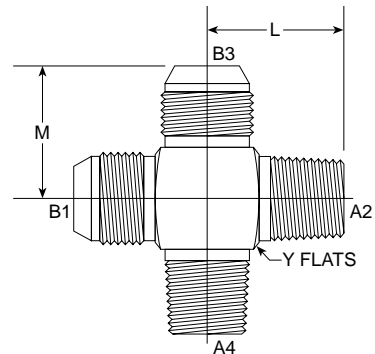
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	A4 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
													S	FG	SS	B	
2652-10-10-10-08	5/8	7/8-14	7/8-14	7/8-14	1/2-14	1.230	31.24	1.640	41.66	1 1/4	1.125	28.58	•				

MJ-MJ-MP-MP Cross 2653 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	A3 NPTF	A4 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
													S	FG	SS	B	
2653-04-04-02-02	1/4	7/16-20	7/16-20	1/8-27	1/8-27	0.780	19.81	0.980	24.89	1/2	0.500	12.70	•				
2653-16-16-16-16	1	15/16-12	15/16-12	1-11 1/2	1-11 1/2	1.970	50.04	1.810	45.97	1 3/8	1.375	34.93	•				

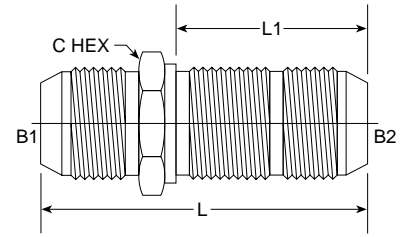
MJ-MP-MJ-MP Cross 2654 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	A2 NPTF	B3 SAE 37	A4 NPTF	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
													S	FG	SS	B	
2654-08-06-08-06	1/2	3/4-16	3/8-18	3/4-16	3/8-18	1.220	30.99	1.250	31.75	13/16	0.812	20.62	•				

MJ-MJ Bulkhead Straight 2700 Series

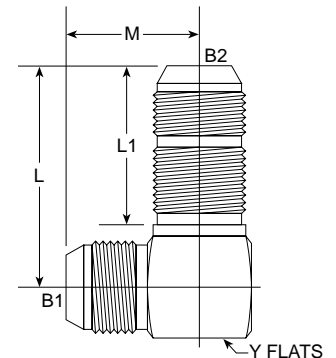
SAE# 070601 / MS# 51520



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	M.M.	PLATE MAX	Standard Material From Stock					
										S	FG	SS	B		
2700-02-02	1/8	5/16-24	5/16-24	1.870	47.50	1.110	28.19	9/16	0.562	14.27	27/64	•		•	
2700-03-03	3/16	3/8-24	3/8-24	1.900	48.26	1.110	28.19	5/8	0.625	15.88	23/64	•		•	
2700-04-04	1/4	7/16-20	7/16-20	2.070	52.58	1.200	30.48	11/16	0.687	17.45	27/64	•		•	•
2700-05-05	5/16	1/2-20	1/2-20	2.070	52.58	1.200	30.48	3/4	0.750	19.05	27/64	•		•	
NEW 2700-06-04												•			
2700-06-06	3/8	9/16-18	9/16-18	2.180	55.37	1.280	32.51	13/16	0.812	20.62	27/64	•		•	
2700-08-08	1/2	3/4-16	3/4-16	2.440	61.98	1.440	36.58	1	1.000	25.40	31/64	•		•	
2700-10-10	5/8	7/8-14	7/8-14	2.740	69.60	1.580	40.13	1 1/8	1.125	28.58	29/64	•		•	
2700-12-12	3/4	1 1/16-12	1 1/16-12	3.090	78.49	1.750	44.45	1 3/8	1.375	34.93	33/64	•		•	
2700-14-14	7/8	1 3/16-12	1 3/16-12	3.125	79.38	1.750	44.45	1 1/2	1.500	38.10	27/64	•			
NEW 2700-16-12												•			
2700-16-16	1	1 5/16-12	1 5/16-12	3.140	79.76	1.750	44.45	1 5/8	1.625	41.28	27/64	•		•	
2700-20-20	1 1/4	1 5/8-12	1 5/8-12	3.310	84.07	1.800	45.72	1 7/8	1.875	47.63	27/64	•		•	
2700-24-24	1 1/2	1 7/8-12	1 7/8-12	3.520	89.41	1.810	45.97	2 1/8	2.125	53.98	21/64	•		•	
2700-32-32	2	2 1/2-12	2 1/2-12	4.200	106.68	2.090	53.09	2 3/4	2.750	69.85	6/16	•		•	

MJ-MJ Bulkhead 90° 2701 Series

SAE# 070701 / MS# 51507

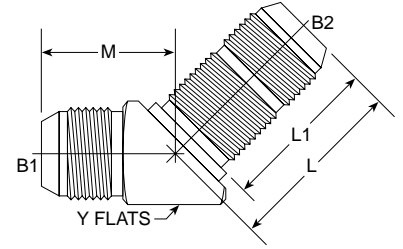


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	PLATE MAX	Standard Material From Stock					
											S	FG	SS	B		
2701-03-03	3/16	3/8-24	3/8-24	1.500	38.10	0.920	23.37	0.940	23.88	7/16	0.438	11.13	•	•	•	
2701-04-04	1/4	7/16-20	7/16-20	1.590	40.39	1.020	25.90	0.970	24.64	1/2	0.500	12.70	5/16	•	•	•
2701-05-05	5/16	1/2-20	1/2-20	1.720	43.69	1.020	25.90	1.060	26.92	9/16	0.562	14.27	17/64	•	•	•
2701-06-06	3/8	9/16-18	9/16-18	1.810	45.97	1.184	30.07	1.090	27.69	5/8	0.625	15.88	19/64	•	•	•
2701-08-08	1/2	3/4-16	3/4-16	2.110	53.59	1.250	31.75	1.360	34.54	13/16	0.812	20.62	5/16	•	•	•
2701-10-10	5/8	7/8-14	7/8-14	2.390	60.71	1.390	35.31	1.560	39.62	15/16	0.937	23.80	3/8	•	•	•
2701-12-12	3/4	1 1/16-12	1 1/16-12	2.760	70.10	1.560	39.62	1.780	45.21	1 1/8	1.125	28.58	25/64	•	•	•
2701-12-16	3/4	1 1/16-12	1 5/16-12	2.750	69.85	1.560	39.62	1.910	48.51	1 3/8	1.375	34.93		•		
NEW 2701-14-14														•		
2701-16-12	1	1 5/16-12	1 1/16-12	2.790	70.87	1.560	39.62	1.800	45.72	1 3/8	1.375	34.93	25/64	•		•
2701-16-16	1	1 5/16-12	1 5/16-12	2.790	70.87	1.560	39.62	1.940	49.28	1 3/8	1.375	34.93	21/64	•	•	•
2701-20-20	1 1/4	1 5/8-12	1 5/8-12	3.120	79.25	1.610	40.89	2.170	55.12	1 3/4	1.750	44.45	1/4	•	•	•
2701-24-24	1 1/2	1 7/8-12	1 7/8-12	3.430	87.12	1.620	41.15	2.340	59.44	2	2.000	50.80	19/64	•	•	•

Tube Fittings & Adapters

MJ-MJ Bulkhead 45° 2702 Series

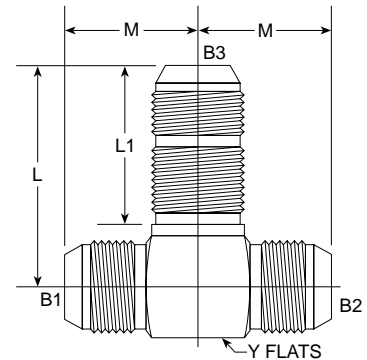
SAE# 070801 / MS# 51509



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	PLATE MAX	Standard Material From Stock							
										S	FG	SS	B				
NEW 2702-03-03	1/4	7/16-20	7/16-20	1.530	38.86	1.020	25.90	0.720	18.29	1/2	0.500	12.70	5/16	•	•	•	•
2702-04-04	5/16	1/2-20	1/2-20	1.660	42.16	1.020	25.90	0.770	19.56	9/16	0.562	14.27	17/64	•	•	•	•
2702-06-06	3/8	9/16-18	9/16-18	1.670	42.42	1.184	30.07	0.830	21.08	5/8	0.625	15.88	19/64	•	•	•	•
2702-08-08	1/2	3/4-16	3/4-16	1.940	49.28	1.250	31.75	0.980	24.89	13/16	0.812	20.62	5/16	•	•	•	•
2702-10-10	5/8	7/8-14	7/8-14	2.170	55.12	1.390	35.31	1.110	28.19	15/16	0.937	23.80	3/8	•	•	•	•
2702-12-12	3/4	1 1/16-12	1 1/16-12	2.440	61.98	1.560	39.62	1.280	32.51	1 1/8	1.125	28.58	25/64	•	•	•	•
2702-14-14	7/8	1 3/16-12	1 3/16-12	2.500	63.50	1.560	39.62	1.450	36.83	1 3/8	1.375	34.93	3/8	•	•	•	•
2702-16-16	1	1 5/16-12	1 5/16-12	2.560	65.02	1.560	39.62	1.470	37.34	1 3/8	1.375	34.93	21/64	•	•	•	•
2702-20-20	1 1/4	1 5/8-12	1 5/8-12	2.650	67.31	1.610	40.89	1.590	40.39	1 3/4	1.750	44.45	1/4	•	•	•	•
2702-24-24	1 1/2	1 7/8-12	1 7/8-12	2.670	67.82	1.620	41.15	1.780	45.21	2	2.000	50.80	19/64	•	•	•	•
NEW 2702-32-32														•	•	•	•

MJ-MJ-MJ Bulkhead Branch Tee 2703 Series

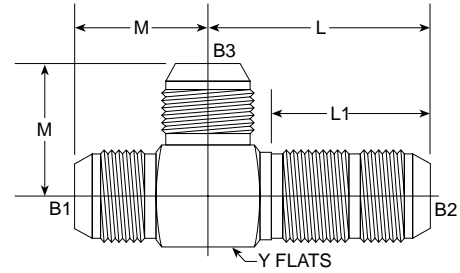
SAE# 070959 / MS# 51515



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	L LGTH M.M.	L1 LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	PLATE MAX	Standard Material From Stock							
											S	FG	SS	B				
2703-03-03-03	3/16	3/8-24	3/8-24	3/8-24	1.500	38.10	0.920	23.37	0.940	23.88	7/16	0.438	11.13	•	•	•	•	
2703-04-04-04	1/4	7/16-20	7/16-20	7/16-20	1.590	40.39	1.020	25.90	0.970	24.64	1/2	0.500	12.70	5/16	•	•	•	•
2703-04-04-06	1/4 3/8	7/16-20	7/16-20	9/16-20	1.810	45.97	1.184	30.07	1.080	27.43	5/8	0.625	15.88	19/64	•	•	•	•
2703-05-05-05	5/16	1/2-20	1/2-20	1/2-20	1.720	43.69	1.020	25.90	1.060	26.92	9/16	0.562	14.27	•	•	•	•	
2703-06-06-06	3/8	9/16-18	9/16-18	9/16-18	1.810	45.97	1.184	30.07	1.090	27.69	5/8	0.625	15.88	19/64	•	•	•	•
2703-08-08-08	1/2	3/4-16	3/4-16	3/4-16	2.110	53.59	1.250	31.75	1.360	34.54	13/16	0.812	20.62	5/16	•	•	•	•
2703-10-10-10	5/8	7/8-14	7/8-14	7/8-14	2.390	60.71	1.390	35.31	1.560	39.62	15/16	0.937	23.80	3/8	•	•	•	•
2703-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	2.670	67.82	1.560	39.62	1.780	45.21	1 1/8	1.125	28.58	25/64	•	•	•	•
2703-12-12-16	3/4 1	1 1/16-12	1 1/16-12	1 5/8-12	2.800	71.12	1.560	39.62	1.890	48.01	1 3/8	1.375	34.93	•	•	•	•	
2703-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	2.800	71.12	1.560	39.62	1.920	48.77	1 1/4	1.250	31.75	3/8	•	•	•	•
2703-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	2.800	71.02	1.560	39.62	1.940	49.28	1 3/8	1.375	34.93	21/64	•	•	•	•
2703-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	2.120	53.85	1.610	46.64	2.170	55.12	1 3/4	1.750	44.45	1/4	•	•	•	•
NEW 2703-24-24-24														•	•	•	•	

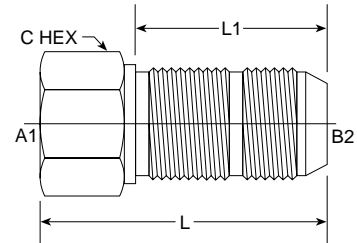
MJ-MJ-MJ Bulkhead Run Tee 2704 Series

SAE# 070958 / MS# 51516



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	L LGTH M.M.	L1 LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	PLATE M.M. MAX	Standard Material From Stock						
											S	FG	SS	B			
2704-03-03-03	3/16	3/8-24	3/8-24	3/8-24	1.500	38.10	0.920	23.37	0.940	23.88	7/16	0.438	11.13	•	•	•	•
2704-04-04-04	1/4	7/16-20	7/16-20	7/16-20	1.590	40.39	1.020	25.91	0.970	24.64	1/2	0.500	12.70	•	•	•	•
2704-05-05-05	5/16	1/2-20	1/2-20	1/2-20	1.720	43.68	1.020	25.90	1.060	26.92	17/64	0.266	6.75	•	•	•	•
2704-06-06-06	3/8	9/16-18	9/16-18	9/16-18	1.810	45.97	1.184	30.07	1.090	27.69	5/8	0.625	15.88	•	•	•	•
2704-08-08-08	1/2	3/4-16	3/4-16	3/4-16	2.110	53.59	1.250	31.75	1.360	34.54	13/16	0.812	20.62	•	•	•	•
2704-10-10-10	5/8	7/8-14	7/8-14	7/8-14	2.390	60.71	1.390	35.31	1.560	39.62	15/16	0.937	23.80	•	•	•	•
2704-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	2.670	67.82	1.560	39.62	1.780	45.21	1 1/8	1.125	28.58	•	•	•	•
2704-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	2.810	71.37	1.560	39.62	1.940	49.28	1 3/8	1.375	34.93	•	•	•	•
2704-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	3.120	79.25	1.610	40.89	2.170	55.12	1 5/8	1.625	41.28	•	•	•	•
2704-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	3.420	86.87	1.620	41.15	2.340	59.44	1 7/8	1.875	47.62	•	•	•	•

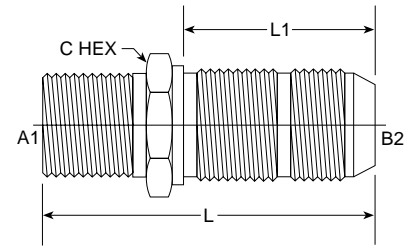
FP-MJ Bulkhead Straight 2705 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	M.M.	PLATE M.M. MAX	Standard Material From Stock					
										S	FG	SS	B		
2705-02-04	1/4	1/8-27	7/16-20	2.080	52.83	1.200	30.48	11/16	0.687	17.45	27/64	•	•	•	•
2705-02-05	5/16	1/8-27	1/2-20	1.785	45.34	1.200	30.48	3/4	0.750	19.05	27/64	•	•	•	•
2705-04-04	1/4	1/4-18	7/16-20	2.041	51.84	1.200	30.48	3/4	0.750	19.05	27/64	•	•	•	•
2705-04-06	3/8	1/4-18	9/16-18	2.124	53.95	1.280	32.51	11/16	0.687	17.45	27/64	•	•	•	•
2705-06-06	3/8	3/8-18	9/16-18	2.190	55.63	1.280	32.51	7/8	0.875	22.23	27/64	•	•	•	•
2705-06-08	1/2	3/8-18	3/4-16	2.480	62.99	1.440	36.58	7/8	0.875	22.23	31/64	•	•	•	•
NEW 2705-08-06	1/2	1/2-14	3/4-16	2.530	64.26	1.440	36.58	1 1/8	1.125	28.58	31/64	•	•	•	•
2705-08-08	1/2	1/2-14	3/4-16	2.530	64.26	1.440	36.58	1 1/8	1.125	28.58	31/64	•	•	•	•
2705-08-10	5/8	1/2-14	7/8-14	2.840	72.14	1.580	40.13	1	1.000	25.40	29/64	•	•	•	•
2705-12-12	3/4	3/4-14	1 1/16-12	3.050	77.47	1.750	44.45	1 3/8	1.375	34.93	33/64	•	•	•	•
2705-12-14	7/8	1 1/16-12	1 3/16-12	2.890	73.41	1.750	44.45	1 1/2	1.500	38.10	27/64	•	•	•	•
2705-16-16	1	1-11 1/2	1 5/16-12	3.250	82.55	1.750	44.45	1 1/2	1.500	38.10	27/64	•	•	•	•
2705-20-20	1 1/4	1 1/4-11 1/2	1 5/8-12	3.218	81.74	1.800	45.72	2	2.000	50.80	27/64	•	•	•	•
2705-24-24	1 1/2	1 1/2-11 1/2	1 7/8-12	3.320	84.33	1.810	45.97	2 3/8	2.375	60.32	21/64	•	•	•	•

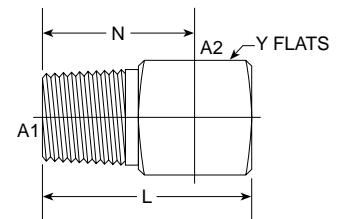
Tube Fittings & Adapters

MP-MJ Bulkhead Straight 2706 Series



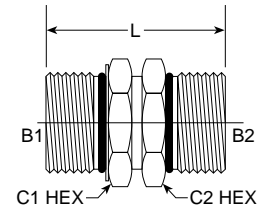
PART NO. SIZE	TUBE O.D.	A1 NPTF	B2 SAE 37	L LGTH M.M.	L1 LGTH M.M.	C HEX	C HEX	M.M.	PLATE MAX	Standard Material From Stock					
										S	FG	SS	B		
2706-02-04	1/4	1/8-27	7/16-20	1.840	46.74	1.200	30.48	11/16	0.687	17.45	27/64	•		•	
2706-04-04	1/4	1/4-18	7/16-20	2.040	51.82	1.200	30.48	11/16	0.687	17.45	27/64	•		•	
2706-04-06	3/8	1/4-18	9/16-18	2.190	55.63	1.280	32.51	13/16	0.812	20.62	27/64	•		•	
2706-06-06	3/8	3/8-18	9/16-18	2.190	55.63	1.280	32.51	13/16	0.812	20.62	27/64	•		•	
2706-06-08	1/2	3/8-18	3/4-16	2.350	59.69	1.440	36.58	1	1.000	25.40	31/64	•		•	
2706-08-08	1/2	1/2-14	3/4-19	2.570	65.28	1.440	36.58	1	1.000	12.70	31/64	•		•	
2706-08-10	5/8	1/2-14	7/8-14	2.720	69.09	1.580	40.13	1 1/8	1.125	28.58	29/64	•		•	
2706-08-12	3/4	1/2-14	1 1/16-12	2.920	74.17	1.750	44.45	1 3/8	1.375	34.93	???	•		•	
2706-12-12	3/4	3/4-14	1 1/16-12	2.920	74.17	1.750	44.45	1 3/8	1.375	34.93	33/64	•		•	
NEW 2706-12-16	1	1-11 1/2	1 5/16-12	3.100	78.74	1.750	44.45	1 5/8	1.625	41.28	27/64	•		•	
2706-16-16	1 1/4	1 1/4-11 1/2	1 5/8-12	3.230	82.04	1.800	45.72	1 7/8	1.875	47.63	27/64	•		•	
2706-20-20	1 1/2	1 1/2-11 1/2	1 7/8-12	3.450	87.63	1.810	45.97	2 1/8	2.125	53.97	21/64	•			
2706-24-24	2	2-11 1/2	2-11 1/2	3.890	98.81	2.090	53.09	2 3/4	2.750	69.85	9/16	•			

MP-FP Low Profile 90° 3051 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	A2 NPTF	L LGTH M.M.	N LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
									S	FG	SS	B		
3051-02-02	1/8	1/8-27	1/8-27	1.020	25.91	0.750	25.91	1/2	0.500	12.70	•		•	
3051-04-04	1/4	1/4-18	1/4-18	2.007	50.98	1.570	39.88	7/8	0.875	22.23	•		•	
3051-06-06	3/8	3/8-18	3/8-18	2.007	50.98	1.570	39.88	7/8	0.875	22.23	•			
3051-08-08	1/2	1/2-14	1/2-14	2.562	65.07	2.000	50.80	1 1/8	1.125	28.58	•			
3051-12-12	3/4	1 1/16-12	3/4-14	2.937	74.60	2.250	57.15	1 3/8	1.375	34.93	•			

MAORB-ORB Straight 3474-NWO Series

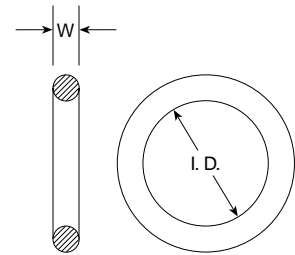


PART NO. SIZE	TUBE O.D.	B1 AORB	B2 ORB	L LGTH M.M.	C1 HEX M.M.	C1 HEX M.M.	C2 HEX M.M.	C2 HEX M.M.	C2 HEX M.M.	C2 HEX M.M.	Standard Material From Stock				
											S	FG	SS	B	
3474-04-04-NWO	1/4	7/16-20	7/16-20	1.360	34.54	9/16	0.562	14.27	9/16	0.562	14.27	•		•	
3474-06-06-NWO	3/8	9/16-18	9/16-18	1.500	38.10	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
3474-08-08-NWO	1/2	3/4-16	3/4-16	1.560	39.62	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
3474-10-10-NWO	5/8	7/8-14	7/8-14	1.790	45.47	1	1.000	25.40	1	1.000	25.40	•		•	
3474-12-08-NWO	3/4	1 1/16-12	3/4-16	2.200	55.88	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
3474-12-12-NWO	3/4	1 1/16-12	1 1/16-12	2.320	58.93	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
3474-16-12-NWO	1 3/4	1 5/16-12	1 1/16-12	2.345	59.56	1 1/2	1.500	38.10	1 1/4	1.250	31.75	•		•	
3474-16-16-NWO	1	1 5/16-12	1 5/16-12	2.130	54.10	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
3474-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	2.130	54.10	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•		•	
3474-24-24-NWO	1 1/2	1 7/8-12	1 7/8-12	2.130	54.10	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•		•	
3474-32-32-NWO	2	2 1/2-12	2 1/2-12	2.130	54.10	2 3/4	2.750	69.85	2 3/4	2.750	69.85	•		•	

PART NO. SIZE	TUBE O.D.	W WIDTH	I.D.	M.M.
4000-02	1/8	0.064	0.239	6.07
4000-03	3/16	0.064	0.301	7.64
4000-04	1/4	0.072	0.351	8.91
4000-05	5/16	0.072	0.414	10.52
4000-06	3/8	0.078	0.468	11.89
4000-08	1/2	0.087	0.644	16.36
4000-10	5/8	0.097	0.755	19.18
4000-12	3/4	0.116	0.924	23.47
4000-14	7/8	0.116	1.048	26.62
4000-16	1	0.116	1.171	37.47
4000-20	1 1/4	0.118	1.475	29.74
4000-24	1 1/2	0.118	1.720	43.69
4000-32	2	0.118	2.337	59.36

Buna O Ring 4000 Series

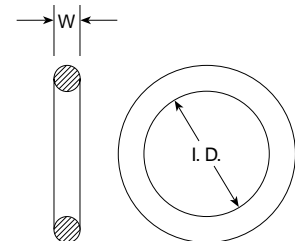
SAE# J515 Type I CH
MS# 28778



PART NO. SIZE	TUBE O.D.	W WIDTH	I.D.	M.M.
4001-02	1/8	0.064	0.239	6.07
4001-03	3/16	0.064	0.301	7.64
4001-04	1/4	0.072	0.351	8.91
4001-06	3/8	0.078	0.468	11.89
4001-08	1/2	0.087	0.644	16.36
4001-10	5/8	0.097	0.755	19.18
4001-12	3/4	0.116	0.924	23.47
4001-14	7/8	0.116	1.048	26.62
4001-16	1	0.116	1.171	37.47
4001-20	1 1/4	0.118	1.475	29.74
4001-24	1 1/2	0.118	1.720	43.69
4001-32	2	0.118	2.337	59.36

Viton O Ring 4001 Series

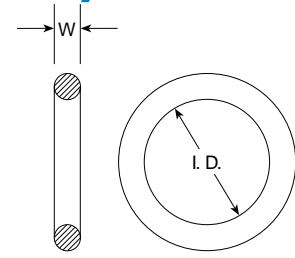
SAE# J515 Type III HK



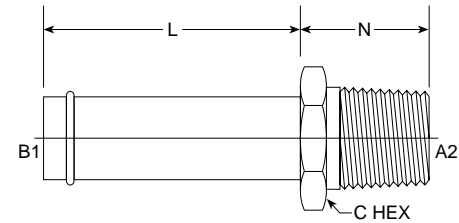
Tube Fittings & Adapters

	PART NO. SIZE	TUBE O.D.	W WIDTH	I.D.	M.M.
NEW	4005-08	1/2	0.140	0.734	18.64
	4005-10				
	4005-12	3/4	0.140	0.984	24.99
	4005-16	1	0.140	1.296	32.92
	4005-20	1 1/4	0.140	1.859	47.22
	4005-24	1 1/2	0.140	1.859	47.22
NEW	4005-32	2	0.140	2.234	56.74
	4005-40				

Flange O Ring 4005 Series

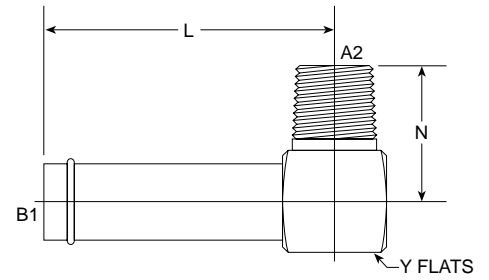


HB-MP Straight 4404 Series



PART NO. SIZE	B1 TUBE O.D.	A2 NPTF	L LGTH M.M.	M.M.	N LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
									S	FG	SS	B	
4404-04-02	1/4	1/8-27	1.500	38.10	0.578	14.68	9/16	0.562	14.27	•		•	
4404-04-04	1/4	1/4-18	1.500	38.10	0.860	21.84	9/16	0.562	14.27	•		•	
4404-05-02	5/16	1/8-27	1.500	38.10	0.580	14.73	7/16	0.438	11.13	•		•	
4404-06-04	3/8	1/4-18	1.500	38.10	0.843	21.41	5/8	0.625	15.88	•		•	•
4404-06-06	3/8	3/8-18	1.500	38.10	0.770	19.56	3/4	0.750	19.05	•		•	
4404-08-04	1/2	1/4-18	1.500	38.10	0.880	22.35	5/8	0.625	15.88	•		•	
4404-08-06	1/2	3/8-18	1.500	38.10	0.875	22.23	3/4	0.750	19.05	•		•	
4404-08-08	1/2	1/2-14	1.500	38.10	1.070	27.18	15/16	0.937	23.80	•		•	
4404-08-12	1/2	3/4-14	1.500	38.10	1.170	29.72	1 1/8	1.125	28.58	•		•	
4404-10-06	5/8	3/8-18	1.500	38.10	0.897	22.78	7/8	0.875	22.23	•		•	
4404-10-08	5/8	1/2-14	1.500	38.10	1.078	27.38	15/16	0.937	23.80	•		•	
4404-10-12	5/8	3/4-14	1.500	38.10	1.160	29.46	1 1/8	1.125	28.58	•		•	
4404-12-06	3/4	3/8-18	1.500	38.10	0.920	23.37	1	1.000	25.40	•		•	
4404-12-08	3/4	1/2-14	1.500	38.10	1.170	29.72	15/16	0.937	23.80	•		•	
4404-12-12	3/4	3/4-14	1.500	38.10	1.171	29.74	1 1/8	1.125	28.58	•		•	
4404-12-16	3/4	1-11 1/2	1.500	38.10	1.353	34.37	1 3/8	1.375	34.93	•		•	
4404-16-12	1	3/4-14	1.500	38.10	1.125	28.58	1 1/4	1.250	31.75	•		•	
4404-16-16	1	1-11 1/2	1.500	38.10	1.359	34.52	1 3/8	1.375	34.93	•		•	
4404-20-12	1 1/4	3/4-14	1.500	38.10	1.120	28.45	1 3/8	1.375	34.93	•		•	
4404-20-16	1 1/4	1-11 1/2	1.500	38.10	1.310	33.27	1 3/8	1.375	34.93	•		•	
4404-20-20	1 1/4	1 1/4-11 1/2	1.500	38.10	1.468	37.29	1 3/4	1.750	44.45	•		•	
4404-20-24	1 1/4	1 1/2-11 1/2	1.500	38.10	1.584	40.23	2	2.000	50.80	•		•	
4404-24-20	1 1/2	1 1/4-11 1/2	1.500	38.10	1.468	37.29	1 3/4	1.750	44.45	•		•	
4404-24-24	1 1/2	1 1/2-11 1/2	1.500	38.10	1.570	39.88	2	2.000	50.80	•		•	
4404-32-32	2	2-11 1/2	1.500	38.10	1.437	36.50	2 1/2	2.500	63.50	•		•	

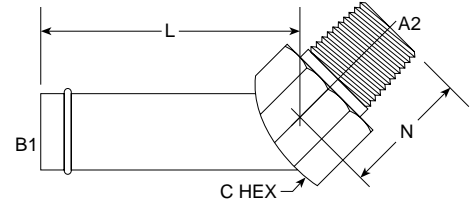
HB-MP 90° 4501 Series



PART NO. SIZE	B1 TUBE O.D.	A2 NPTF	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
4501-04-02	1/4	1/8-27	1.750	44.45	0.781	19.84	1/2	0.500	12.70	•			
4501-04-04	1/4	1/4-18	1.810	45.97	1.060	26.92	5/8	0.625	15.88	•			
4501-05-02	5/16	1/8-27	1.750	44.45	0.780	19.81	1/2	0.500	12.70	•			
NEW 4501-06-02										•			
4501-06-04	3/8	1/4-18	1.812	46.02	1.093	27.76	5/8	0.625	15.88	•			
4501-06-06	3/8	3/8-18	1.890	48.01	1.220	30.99	13/16	0.812	20.62	•		•	
4501-06-08	3/8	1/2-14	1.970	50.04	1.460	37.08	15/16	0.937	23.80	•			
4501-08-04	1/2	1/4-18	1.810	45.97	1.100	27.94	5/8	0.625	15.88	•			
4501-08-06	1/2	3/8-18	1.906	48.41	1.218	30.94	13/16	0.812	20.62	•		•	•
4501-08-08	1/2	1/2-14	1.980	50.29	1.470	37.34	15/16	0.937	23.80	•			
4501-08-12	1/2	3/4-14	1.968	49.99	2.062	52.37	1 1/8	1.125	28.58	•			
4501-10-06	5/8	3/8-18	1.968	49.99	1.278	32.46	15/16	0.937	23.80	•		•	
4501-10-08	5/8	1/2-14	1.968	49.99	1.468	37.29	15/16	0.937	23.80	•			
4501-10-12	5/8	3/4-14	2.060	52.32	1.600	40.64	1 1/8	1.125	28.58	•			
4501-12-06	3/4	3/8-18	1.900	48.26	1.220	30.99	13/16	0.812	20.62	•			
4501-12-08	3/4	1/2-14	1.970	37.34	1.470	50.04	15/16	0.937	23.80	•			
4501-12-12	3/4	3/4-14	2.062	52.37	1.593	40.46	1 1/8	1.125	28.58	•		•	
4501-12-16	3/4	1-11 1/2	2.190	55.63	1.980	50.29	1 3/8	1.375	34.93	•			
4501-16-08	1	1/2-14	2.053	52.15	1.561	39.65	1 1/8	1.125	28.58	•			
4501-16-12	1	3/4-14	2.080	52.83	1.600	40.64	1 1/8	1.125	28.58	•		•	
4501-16-16	1	1-11 1/2	2.187	55.55	1.968	49.99	1 3/8	1.375	34.93	•		•	
4501-16-20	1	1 1/4-11 1/2	2.380	60.45	2.380	60.45	1 3/4	1.750	44.45	•			
4501-16-24	1	1 1/2-11 1/2	2.520	64.01	2.640	67.06	2	2.000	50.80	•			
4501-20-16	1 1/4	1-11 1/2	1.200	30.48	1.980	50.29	1 3/8	1.375	34.93	•			
4501-20-20	1 1/4	1 1/4-11 1/2	2.375	60.33	2.375	60.33	1 3/4	1.750	44.45	•			
4501-20-24	1 1/4	1 1/2-11 1/2	2.500	63.50	2.640	67.06	2	2.000	50.80	•			
4501-24-16	1 1/2	1-11-1/2	2.380	60.45	2.160	54.86	1 3/4	1.750	44.45	•	•		
4501-24-20	1 1/2	1 1/4-11 1/2	2.380	60.45	2.380	60.45	1 3/4	1.750	44.45	•			
4501-24-24	1 1/2	1 1/2-11 1/2	2.500	63.50	2.640	67.06	2	2.000	50.80	•			
4501-32-32	2	2-11 1/2	2.812	71.42	3.000	76.20	2 5/8	2.625	66.68	•	•		

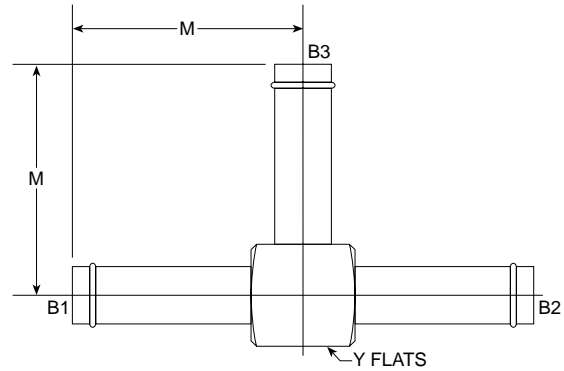
Tube Fittings & Adapters

HB-MP 45° 4503 Series



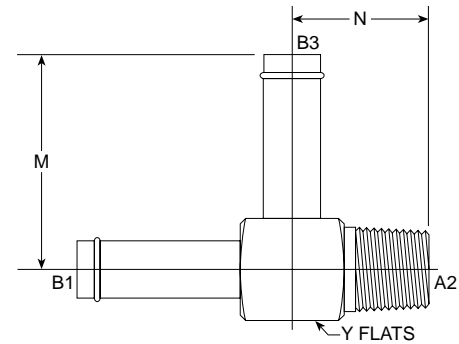
PART NO. SIZE	B1 TUBE O.D.	A2 NPTF	L LGTH M.M.	N LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
								S	FG	SS	B		
4503-04-02	1/4	1/8-27	0.640	16.26	1.562	39.67	1/2	0.500	12.70	•			
4503-04-04	1/4	1/4-18	0.830	21.08	1.810	45.97	5/8	0.625	15.88	•		•	
4503-05-02	5/16	1/8-27	0.640	16.26	1.650	41.91	1/2	0.500	12.70	•			
4503-06-04	3/8	1/4-18	0.859	21.82	1.625	41.28	5/8	0.625	15.88	•			
4503-06-06	3/8	3/8-18	0.950	24.13	1.710	43.43	13/16	0.812	20.62	•			
4503-08-04	1/2	1/4-18	0.830	21.08	1.710	43.43	5/8	0.625	15.88	•			
4503-08-06	1/2	3/8-18	0.953	24.21	1.687	42.85	13/16	0.812	20.62	•			
4503-08-08	1/2	1/2-14	1.180	29.97	1.740	44.20	15/16	0.937	23.80	•			
4503-10-06	5/8	3/8-18	0.981	24.92	1.718	43.64	15/16	0.937	23.80	•			
4503-10-08	5/8	1/2-14	1.171	29.74	1.718	43.64	15/16	0.937	23.80	•			
4503-10-12	5/8	3/4-14	1.220	30.99	1.830	46.48	1 1/8	1.125	28.58	•			
4503-12-08	3/4	1/2-14	1.170	29.72	1.760	44.70	15/16	0.937	23.80	•			
4503-12-12	3/4	3/4-14	1.203	30.56	1.718	43.64	1 1/8	1.125	28.58	•			
4503-12-16	3/4	1-11 1/2	1.540	39.12	2.100	53.34	1 3/8	1.375	34.93	•			
4503-16-12	1	3/4-14	1.203	30.56	1.750	44.45	1 1/8	1.125	28.58	•			
4503-16-16	1	1-11 1/2	1.484	37.69	1.750	44.45	1 3/8	1.375	34.93	•			
4503-16-20	1	1 1/4-11 1/2	1.620	41.15	2.070	52.58	1 3/4	1.750	44.45	•			
4503-20-16	1 1/4	1-11 1/2	1.570	39.88	1.740	44.20	1 3/8	1.375	34.93	•			
4503-20-20	1 1/4	1 1/4-11 1/2	1.671	42.44	1.812	46.02	1 3/4	1.750	44.45	•			
4503-24-20	1 1/2	1 1/4-11 1/2	1.620	41.15	1.930	49.02	1 3/4	1.750	44.45	•			
4503-24-24	1 1/2	1 1/2-11 1/2	1.765	44.83	1.875	47.63	2	2.000	50.80	•			
4503-32-32	2	2-11 1/2	2.109	53.57	2.000	50.80	2 1/2	2.500	63.50	•	•		

HB-HB-HB Tee 4504 Series



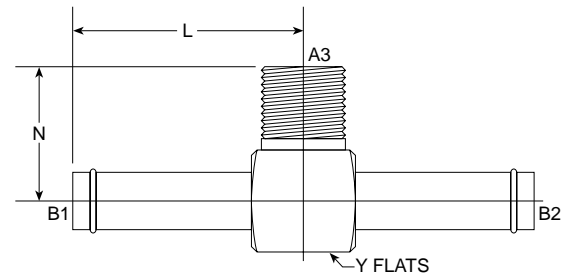
PART NO. SIZE	B1 TUBE O.D.	B2 TUBE O.D.	B3 TUBE O.D.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
									S	FG	SS	B	
4504-04-04-04	1/4	1/4	1/4	1.750	44.45	1/2	0.500	12.70	•				
4504-06-06-06	3/8	3/8	3/8	1.750	44.45	1/2	0.500	12.70	•				
4504-08-08-08	1/2	1/2	1/2	1.750	44.45	13/16	0.812	20.63	•				

HB-MP-HB Tee 4505 Series



PART NO. SIZE	B1 TUBE O.D.	A3 NPTF	B3 TUBE O.D.	M LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
											S	FG	SS	B	
4505-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2	2.500	63.50	2.620	66.55	2	2.000	50.80	•				

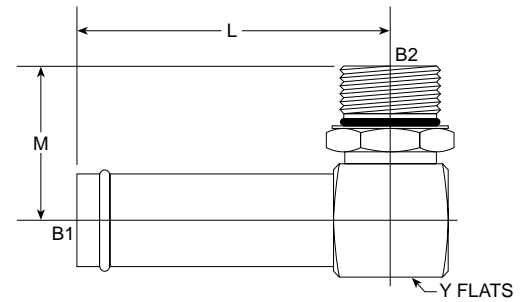
HB-HB-MP Tee 4506 Series



PART NO. SIZE	B1 TUBE O.D.	B2 TUBE O.D.	A3 NPTF	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
											S	FG	SS	B	
4506-08-08-06	1/2	1/2	3/8-18	1.920	48.77	1.220	30.99	13/16	0.812	20.62	•				

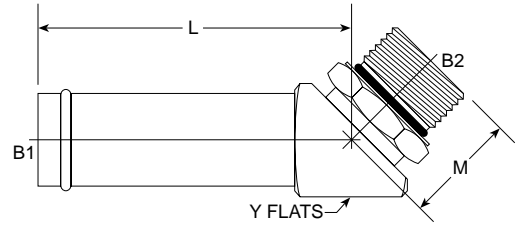
Tube Fittings & Adapters

HB-MAORB 90° 4601-NWO Series



PART NO. SIZE	B1 TUBE O.D.	B2 AORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
4601-04-04-NWO	1/4	7/16-20	1.750	44.45	1.031	26.19	1/2	0.500	12.70	•	•		
4601-04-06-NWO	1/4	9/16-18	1.810	45.97	1.270	32.26	5/8	0.625	15.88	•			
4601-05-04-NWO	5/16	7/16-20	1.770	44.96	1.010	25.65	1/2	0.500	12.70	•			
4601-06-04-NWO	3/8	7/16-20	1.810	45.97	1.190	30.20	7/16	0.438	14.30	•	•		
4601-06-06-NWO	3/8	9/16-18	1.812	46.02	1.250	31.75	5/8	0.625	15.88	•	•		
4601-06-08-NWO	3/8	3/4-16	1.890	48.01	1.470	37.34	13/16	0.812	20.62	•			
4601-08-06-NWO	1/2	9/16-18	1.906	48.41	1.812	46.02	13/16	0.812	20.62	•			
4601-08-08-NWO	1/2	3/4-16	1.906	48.41	1.453	36.91	13/16	0.812	20.62	•			
4601-10-08-NWO	5/8	3/4-16	1.900	48.26	1.450	36.83	13/16	0.812	20.62	•			
4601-10-10-NWO	5/8	7/8-14	1.968	49.99	1.703	43.26	15/16	0.937	23.80	•			
4601-10-12-NWO	5/8	1 1/16-12	2.070	52.58	1.930	49.02	1 1/8	1.125	28.58	•			
4601-12-08-NWO	3/4	3/4-16	1.890	48.01	1.450	36.83	13/16	0.812	20.62	•			
4601-12-10-NWO	3/4	7/8-14	1.930	49.02	1.680	42.67	15/16	0.937	23.80	•			
4601-12-12-NWO	3/4	1 1/16-12	2.062	52.37	1.937	49.20	1 1/8	1.125	28.58	•			
4601-12-16-NWO	3/4	1 5/16-12	2.190	55.63	2.040	51.82	1 3/8	1.375	34.93	•			
4601-14-14-NWO	7/8	1 3/16-12	2.125	53.98	2.000	50.80	1 1/4	1.250	31.75	•			
4601-16-08-NWO	1	3/4-16	2.050	52.07	1.600	40.64	1 1/8	1.125	31.75	•			
4601-16-10-NWO	1	7/8-14	2.375	60.20	2.000	50.80	1 5/16	1.312	33.30	•	•		
4601-16-12-NWO	1	1 1/16-12	2.020	51.31	1.950	49.53	1 1/8	1.125	28.58	•			
4601-16-14-NWO	1	1 3/16-12	2.110	53.59	2.000	50.80	1 1/4	1.250	31.75	•			
4601-16-16-NWO	1	1 5/16-12	2.187	55.55	2.046	51.97	1 3/8	1.375	34.93	•			
4601-16-20-NWO	1	1 5/8-12	2.340	59.44	2.250	57.15	1 3/4	1.750	44.45	•			
4601-16-24-NWO	1	1 7/8-12	2.470	62.74	2.400	60.96	2	2.000	50.80	•			
4601-20-12-NWO	1 1/4	1 1/16-12	2.400	60.96	2.000	50.80	1 5/8	1.625	41.30	•	•		
4601-20-16-NWO	1 1/4	1 5/16-12	2.200	55.88	2.040	51.82	1 3/8	1.375	34.93	•			
4601-20-20-NWO	1 1/4	1 5/8-12	2.375	60.33	2.250	57.15	1 3/4	1.750	44.45	•			
4601-20-24-NWO	1 1/4	1 7/8-12	2.500	63.50	2.400	60.96	2	2.000	50.80	•			
4601-24-16-NWO	1 1/2	1 5/16-12	2.320	58.93	2.170	55.12	1 5/8	1.625	41.28	•			
4601-24-20-NWO	1 1/2	1 5/8-12	2.370	60.20	2.240	56.90	1 3/4	1.750	44.45	•			
4601-24-24-NWO	1 1/2	1 7/8-12	2.500	63.50	2.390	60.71	2	2.000	50.80	•			
4601-32-32-NWO	2	2 1/2-12	2.812	71.42	2.890	73.41	2 5/8	2.625	66.68	•	•		

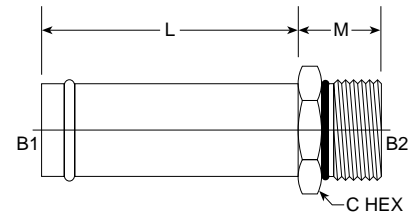
HB-MAORB 45° 4603-NWO Series



PART NO. SIZE	B1 TUBE O.D.	B2 AORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
4603-04-04-NWO	1/4	7/16-20	1.562	39.67	1.046	26.57	1/2	0.500	12.70	•			
4603-06-06-NWO	3/8	9/16-18	1.593	40.46	1.140	28.96	5/8	0.625	15.88	•			
4603-08-08-NWO	1/2	3/4-16	1.625	41.28	1.296	32.92	13/16	0.812	20.62	•	•		
4603-08-10-NWO	1/2	7/8-14	1.870	47.50	1.520	38.61	15/16	0.937	23.80	•			
4603-10-08-NWO	5/8	3/4-16	1.700	43.18	1.320	33.53	13/16	0.812	20.62	•			
4603-10-10-NWO	5/8	7/8-14	1.609	40.87	1.515	38.48	15/16	0.937	23.80	•			
4603-10-12-NWO	5/8	1 1/16-12	1.880	47.75	1.740	44.20	1 1/8	1.125	28.58	•			
4603-12-08-NWO	3/4	3/4-16	1.643	41.73	1.300	33.02	13/16	0.812	20.62	•			
4603-12-10-NWO	3/4	7/8-14	1.650	41.91	1.590	40.39	15/16	0.937	23.80	•			
4603-12-12-NWO	3/4	1 1/16-12	1.703	43.26	1.734	44.04	1 1/8	1.125	28.58	•			
4603-16-12-NWO	1	1 1/16-12	1.780	45.21	1.720	43.69	1 1/8	1.125	28.58	•			
4603-16-14-NWO	1	1 3/16-12	1.850	46.99	1.830	46.48	1 1/4	1.250	31.75	•			
4603-16-16-NWO	1	1 5/16-12	0.859	21.82	1.859	47.22	1 3/8	1.375	34.93	•			
NEW 4603-20-12-NWO										•			
4603-20-16-NWO	1 1/4	1 5/16-12	1.870	47.50	1.900	48.26	1 3/8	1.375	34.93	•			
4603-20-20-NWO	1 1/4	1 5/8-12	1.921	48.79	1.906	48.41	1 3/4	1.750	44.45	•			
4603-24-20-NWO	1 1/2	1 5/8-12	1.990	50.55	1.857	47.17	1 3/4	1.750	44.45	•			
4603-24-24-NWO	1 1/2	1 7/8-12	1.968	49.99	1.906	48.41	2	2.000	50.80	•	•		
4603-32-32-NWO	2	2 1/2-12	2.180	55.37	1.859	47.22	2 5/8	2.625	66.68	•	•		

Tube Fittings & Adapters

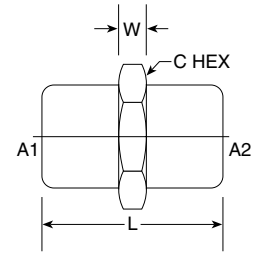
HB-MORB Straight 4604-O Series



PART NO. SIZE	B1 TUBE O.D.	B2 ORB	L LGTH	M.M.	M LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
4604-04-04-O	1/4	7/16-20	1.500	38.10	0.600	15.24	9/16	0.562	14.27	•			
4604-05-05-O	5/16	1/2-20	1.500	38.10	0.670	17.02	5/8	0.625	15.88	•			
4604-06-04-O	3/8	7/16-20	1.500	38.10	0.670	17.02	9/16	0.562	14.27	•			
4604-06-06-O	3/8	9/16-18	1.500	38.10	0.730	18.54	11/16	0.687	17.45	•			
4604-08-06-O	1/2	9/16-18	1.500	38.10	0.730	18.54	11/16	0.687	17.45	•			
4604-08-08-O	1/2	3/4-16	1.500	38.10	0.800	20.32	7/8	0.875	22.23	•			
4604-10-08-O	5/8	3/4-16	1.500	38.10	0.800	20.32	7/8	0.875	22.23	•			
4604-10-10-O	5/8	7/8-14	1.500	38.10	0.940	23.88	1	1.000	25.40	•			
4604-10-12-O	5/8	1 1/16-12	1.500	38.10	1.090	27.69	1 1/4	1.250	31.75	•			
4604-12-08-O	3/4	3/4-16	1.500	38.10	0.800	20.32	7/8	0.875	22.23	•			
4604-12-10-O	3/4	7/8-14	1.500	38.10	0.940	23.88	1	1.000	25.40	•			
4604-12-12-O	3/4	1 1/16-12	1.500	38.10	1.090	27.69	1 1/4	1.250	31.75	•			
4604-12-16-O	3/4	1 5/16-12	1.500	38.10	1.130	28.70	1 1/2	1.500	38.10	•			
4604-16-10-O	1	7/8-14	1.500	38.10	0.940	23.88	1 1/4	1.250	31.75	•			
4604-16-12-O	1	1 1/16-12	1.500	38.10	1.090	27.69	1 1/4	1.250	31.75	•			
4604-16-16-O	1	1 5/16-12	1.500	38.10	1.130	28.70	1 1/2	1.500	38.10	•			
4604-16-20-O	1	1 5/8-12	1.500	38.10	1.200	30.48	1 7/8	1.875	47.63	•			
4604-20-10-O	1 1/4	7/8-14	1.500	38.10	1.075	27.30	1 1/2	1.500	38.10	•			
4604-20-12-O	1 1/4	1 1/16-12	1.500	38.10	1.100	27.94	1 3/8	1.375	34.92	•			
4604-20-16-O	1 1/4	1 5/16-12	1.500	38.10	1.130	28.70	1 1/2	1.500	38.10	•			
4604-20-20-O	1 1/4	1 5/8-12	1.500	38.10	1.200	30.48	1 7/8	1.875	47.63	•			
4604-20-24-O	1 1/4	1 7/8-12	1.500	38.10	1.270	32.26	2 1/8	2.125	53.98	•			
NEW 4604-20-32-O										•			
4604-24-16-O	1 1/2	1 5/16-12	1.500	38.10	1.130	28.70	1 11/16	1.688	42.86	•			
4604-24-20-O	1 1/2	1 5/8-12	1.500	38.10	1.200	30.48	1 7/8	1.875	47.63	•			
4604-24-24-O	1 1/2	1 7/8-12	1.500	38.10	1.270	32.26	2 1/8	2.125	53.98	•			
4604-32-32-O	2	2 1/2-12	1.500	38.10	1.440	36.58	2 3/4	2.750	69.85	•			

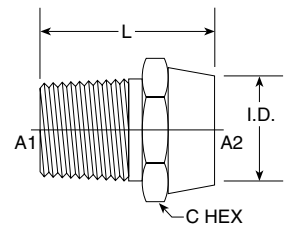
FP-FP Straight 5000 Series

SAE # 140138



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
5000-02-02	1/8	1/8-27	1/8-27	0.750	19.05	0.220	5.59	5/8	0.625	15.88	•		•	•
5000-04-02	1/4	1/4-18	1/8-27	1.130	28.70	0.250	6.35	3/4	0.750	19.05	•		•	•
5000-04-04	1/4	1/4-18	1/4-18	1.130	28.70	0.250	6.35	3/4	0.750	19.05	•		•	•
5000-06-02	3/8	3/8-18	1/8-27	1.130	28.70	0.250	6.35	7/8	0.875	22.23	•		•	•
5000-06-04	3/8	3/8-18	1/4-18	1.130	28.70	0.250	6.35	7/8	0.875	22.23	•		•	•
5000-06-06	3/8	3/8-18	3/8-18	1.130	28.70	0.250	6.35	7/8	0.875	22.23	•		•	•
5000-08-02	1/2	1/2-14	1/8-27	1.500	38.10	0.310	7.87	1 1/8	1.125	28.58	•		•	•
5000-08-04	1/2	1/2-14	1/4-18	1.500	38.10	0.310	7.87	1 1/8	1.125	28.58	•		•	•
5000-08-06	1/2	1/2-14	3/8-18	1.500	38.10	0.310	7.87	1 1/8	1.125	28.58	•		•	•
5000-08-08	1/2	1/2-14	1/2-14	1.500	38.10	0.310	7.87	1 1/8	1.125	28.58	•		•	•
5000-12-04	3/4	3/4-14	1/4-18	1.530	38.86	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5000-12-06	3/4	3/4-14	3/8-18	1.530	38.86	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5000-12-08	3/4	3/4-14	1/2-14	1.530	38.86	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5000-12-12	3/4	3/4-14	3/4-14	1.530	38.86	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5000-16-06	1	1-11 1/2	3/8-18	1.890	48.01	0.380	9.65	1 5/8	1.625	41.28	•		•	•
5000-16-08	1	1-11 1/2	1/2-14	1.890	48.01	0.380	9.65	1 5/8	1.625	41.28	•		•	•
5000-16-12	1	1-11 1/2	3/4-14	1.890	48.01	0.380	9.65	1 5/8	1.625	41.28	•		•	•
5000-16-16	1	1-11 1/2	1-11 1/2	1.890	48.01	0.380	9.65	1 5/8	1.625	41.28	•		•	•
5000-20-12	1 1/4	1 1/4-11 1/2	3/4-14	1.930	49.02	0.460	11.68	2	2.000	50.80	•		•	•
5000-20-16	1 1/4	1 1/4-11 1/2	1-11 1/2	1.930	49.02	0.460	11.68	2	2.000	50.80	•		•	•
5000-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.930	49.02	0.460	11.68	2	2.000	50.80	•		•	•
5000-24-16	1 1/2	1 1/2-11 1/2	1-11 1/2	1.930	49.02	0.530	13.46	2 3/8	2.375	60.33	•		•	•
5000-24-20	1 1/2	1 1/2-11 1/2	1 1/4-11 1/2	1.930	49.02	0.530	13.46	2 3/8	2.375	60.33	•		•	•
5000-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.930	49.02	0.530	13.46	2 3/8	2.375	60.33	•		•	•
5000-32-24	2	2-11 1/2	1 1/2-11 1/2	2.000	50.80	6.600	167.64	2 7/8	2.875	73.03	•		•	•
5000-32-32	2	2-11 1/2	2-11 1/2	1.960	49.78	0.680	17.27	2 7/8	2.875	73.03	•		•	•

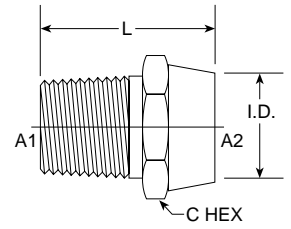
MP-BW Weld-on Fitting 304SS 5304 Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 WELD-ON	I.D.	M.M.	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
5304-04	1/4	1/4-18	1/4	0.250	6.35	1.197	30.40	9/16	0.562	14.28			•	
5304-06	3/8	3/8-18	3/8	0.375	9.52	1.250	31.75	11/16	0.687	17.46			•	
5304-08	1/2	1/2-14	1/2	0.500	12.70	1.438	36.53	7/8	0.875	22.22			•	
5304-12	3/4	3/4-14	3/4	0.750	19.05	1.500	38.10	1 1/16	1.062	26.99			•	
5304-16	1	1-11 1/2	1	1.000	25.40	1.700	43.18	1 5/16	1.312	33.33			•	
5304-20	1 1/4	1 1/4-11 1/2	1 1/4	1.250	31.75	1.940	49.28	1 3/4	1.750	44.45			•	
5304-24	1 1/2	1 1/2-11 1/2	1 1/2	1.500	63.50	2.138	54.31	2	2.000	50.80			•	

Tube Fittings & Adapters

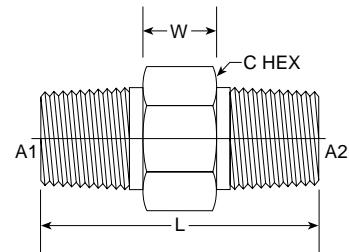
MP-BW Weld-on Fitting 316SS 5316 Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 WELD-ON	I.D.	M.M.	L LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
										S	FG	SS	B	
5316-04	1/4	1/4-18	1/4	0.250	6.35	1.197	30.40	9/16	0.562	14.28			•	
5316-06	3/8	3/8-18	3/8	0.375	9.52	1.250	31.75	11/16	0.687	17.46			•	
5316-08	1/2	1/2-14	1/2	0.500	12.70	1.438	36.52	7/8	0.875	22.22			•	
5316-12	3/4	3/4-14	3/4	0.750	19.05	1.500	38.10	1 1/16	1.062	26.99			•	
5316-16	1	1-11 1/2	1	1.000	25.40	1.700	43.18	1 5/16	1.312	33.33			•	

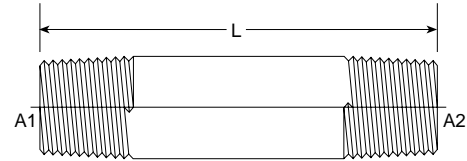
MP-MP Hex Nipple 5404 Series

SAE # 140137



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	L LGTH M.M.	M.M.	W WIDTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
										S	FG	SS	B	
5404-02-02	1/8	1/8-27	1/8-27	1.060	26.92	0.220	5.59	7/16	0.438	11.13	•		•	•
5404-04-02	1/4	1/4-18	1/8-27	1.260	32.00	0.250	6.35	9/16	0.562	14.27	•		•	•
5404-04-04	1/4	1/4-18	1/4-18	1.450	36.83	0.250	6.35	5/8	0.562	14.27	•		•	•
5404-06-02	3/8	3/8-18	1/8-27	1.265	32.13	0.250	6.35	11/16	0.750	19.05	•		•	•
5404-06-04	3/8	3/8-18	1/4-18	1.450	36.83	0.250	6.35	11/16	0.750	19.05	•		•	•
5404-06-06	3/8	3/8-18	3/8-18	1.450	36.83	0.250	6.35	11/16	0.687	17.45	•		•	•
5404-08-04	1/2	1/2-14	1/4-18	1.700	43.18	0.310	7.87	7/8	0.875	22.23	•		•	•
5404-08-06	1/2	1/2-14	3/8-18	1.700	43.18	0.310	7.87	7/8	0.875	22.23	•		•	•
5404-08-08	1/2	1/2-14	1/2-14	1.890	48.01	0.310	7.87	7/8	0.875	22.23	•		•	•
5404-12-04	3/4	3/4-14	1/4-18	1.770	44.96	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5404-12-06	3/4	3/4-14	3/8-18	1.770	44.96	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5404-12-08	3/4	3/4-14	1/2-14	1.960	49.78	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5404-12-12	3/4	3/4-14	3/4-14	1.960	49.78	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5404-16-04	1	1-11 1/2	1/4-18	1.960	49.78	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5404-16-06	1	1-11 1/2	3/8-18	1.970	50.04	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5404-16-08	1	1-11 1/2	1/2-14	2.150	54.61	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5404-16-12	1	1-11 1/2	3/4-14	2.156	54.76	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5404-16-16	1	1-11 1/2	1-11 1/2	2.340	59.44	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5404-20-12	1 1/4	1 1/4-11 1/2	3/4-14	2.410	61.21	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5404-20-16	1 1/4	1 1/4-11 1/2	1-11 1/2	2.450	62.23	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5404-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.480	62.99	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5404-24-12	1 1/2	1 1/2-11 1/2	3/4-14	2.380	60.45	0.530	13.46	2	2.000	50.80	•		•	•
5404-24-16	1 1/2	1 1/2-11 1/2	1-11 1/2	2.560	65.02	0.530	13.46	2	2.000	50.80	•		•	•
5404-24-20	1 1/2	1 1/2-11 1/2	1 1/4-11 1/2	2.590	65.79	0.530	13.46	2	2.000	50.80	•		•	•
5404-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.610	66.29	0.530	13.46	2	2.000	50.80	•		•	•
NEW 5404-32-12											•		•	•
5404-32-16	2	2-11 1/2	1-11 1/2	2.710	68.83	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5404-32-20	2	2-11 1/2	1 1/4-11 1/2	2.760	70.10	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5404-32-24	2	2-11 1/2	1 1/2-11 1/2	2.760	70.10	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5404-32-32	2	2-11 1/2	2-11 1/2	2.820	71.63	0.680	17.27	2 1/2	2.500	63.50	•		•	•
NEW 5404-40-40											•		•	•

MP-MP Straight Nipple Long 5404-N Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	L LGTH	M.M.	Standard Material From Stock			
						S	FG	SS	B
5404-N-02x0.750	1/8	1/8-27	1/8-27	0.750	19.05	•			
5404-N-02x1.000	1/8	1/8-27	1/8-27	1.000	25.40	•			
5404-N-02x1.500	1/8	1/8-27	1/8-27	1.500	38.10	•			•
5404-N-02x2.000	1/8	1/8-27	1/8-27	2.000	50.80	•		•	
5404-N-02x2.500	1/8	1/8-27	1/8-27	2.500	63.50	•		•	
5404-N-02x3.000	1/8	1/8-27	1/8-27	3.000	76.20	•		•	•
5404-N-02x3.500	1/8	1/8-27	1/8-27	3.500	88.90	•			
5404-N-02x4.000	1/8	1/8-27	1/8-27	4.000	101.60	•			
5404-N-02x4.500	1/8	1/8-27	1/8-27	4.500	114.30	•			
5404-N-02x5.000	1/8	1/8-27	1/8-27	5.000	127.00	•			
5404-N-02x6.000	1/8	1/8-27	1/8-27	6.000	152.40	•			
5404-N-04x0.875	1/4	1/4-18	1/4-18	0.875	22.23	•		•	
5404-N-04x1.500	1/4	1/4-18	1/4-18	1.500	38.10	•		•	
5404-N-04x2.000	1/4	1/4-18	1/4-18	2.000	50.80	•		•	
5404-N-04x2.500	1/4	1/4-18	1/4-18	2.500	63.50	•		•	
5404-N-04x3.000	1/4	1/4-18	1/4-18	3.000	76.20	•		•	
5404-N-04x3.500	1/4	1/4-18	1/4-18	3.500	88.90	•			
5404-N-04x4.000	1/4	1/4-18	1/4-18	4.000	101.60	•		•	
5404-N-04x4.500	1/4	1/4-18	1/4-18	4.500	114.30	•			
5404-N-04x5.000	1/4	1/4-18	1/4-18	5.000	127.00	•		•	
5404-N-04x5.500	1/4	1/4-18	1/4-18	5.500	139.70	•			
5404-N-04x6.000	1/4	1/4-18	1/4-18	6.000	152.40	•		•	
5404-N-06x1.000	3/8	3/8-18	3/8-18	1.000	25.40	•			
5404-N-06x1.500	3/8	3/8-18	3/8-18	1.500	38.10	•			
5404-N-06x2.000	3/8	3/8-18	3/8-18	2.000	50.80	•		•	
5404-N-06x2.500	3/8	3/8-18	3/8-18	2.500	63.50	•		•	
5404-N-06x3.500	3/8	3/8-18	3/8-18	3.500	88.90	•		•	
5404-N-06x4.000	3/8	3/8-18	3/8-18	4.000	101.60	•		•	
5404-N-06x5.000	3/8	3/8-18	3/8-18	5.000	127.00	•			
5404-N-06x5.500	3/8	3/8-18	3/8-18	5.500	139.70	•			
5404-N-06x6.000	3/8	3/8-18	3/8-18	6.000	152.40	•		•	
5404-N-06x7.000	3/8	3/8-18	3/8-18	7.000	165.10	•		•	
5404-N-08x1.125	1/2	1/2-14	1/2-14	1.125	28.58	•		•	
5404-N-08x1.250	1/2	1/2-14	1/2-14	1.250	31.75	•			
5404-N-08x1.375	1/2	1/2-14	1/2-14	1.375	34.93	•			
5404-N-08x1.500	1/2	1/2-14	1/2-14	1.500	38.10	•		•	
5404-N-08x1.750	1/2	1/2-14	1/2-14	1.750	44.45	•			
5404-N-08x2.000	1/2	1/2-14	1/2-14	2.000	50.80	•		•	
5404-N-08x2.250	1/2	1/2-14	1/2-14	2.250	57.15	•			
5404-N-08x2.500	1/2	1/2-14	1/2-14	2.500	63.50	•		•	
5404-N-08x3.000	1/2	1/2-14	1/2-14	3.000	76.20	•		•	
5404-N-08x3.500	1/2	1/2-14	1/2-14	3.500	88.90	•			
5404-N-08x4.000	1/2	1/2-14	1/2-14	4.000	101.60	•		•	
5404-N-08x4.500	1/2	1/2-14	1/2-14	4.500	114.30	•			
5404-N-08x5.000	1/2	1/2-14	1/2-14	5.000	127.00	•		•	
5404-N-08x6.000	1/2	1/2-14	1/2-14	6.000	152.40	•		•	
5404-N-12x1.375	3/4	3/4-14	3/4-14	1.375	34.93	•			
5404-N-12x1.500	3/4	3/4-14	3/4-14	1.500	38.10	•			
5404-N-12x1.625	3/4	3/4-14	3/4-14	1.625	41.28	•			
5404-N-12x2.000	3/4	3/4-14	3/4-14	2.000	50.80	•		•	
5404-N-12x2.500	3/4	3/4-14	3/4-14	2.500	63.50	•			
5404-N-12x3.000	3/4	3/4-14	3/4-14	3.000	76.20	•		•	
5404-N-12x3.500	3/4	3/4-14	3/4-14	3.500	88.90	•			
5404-N-12x4.000	3/4	3/4-14	3/4-14	4.000	101.60	•		•	
5404-N-12x4.500	3/4	3/4-14	3/4-14	4.500	114.30	•			

NOTE: All stainless steel fittings are hex bodies.

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Tube Fittings & Adapters

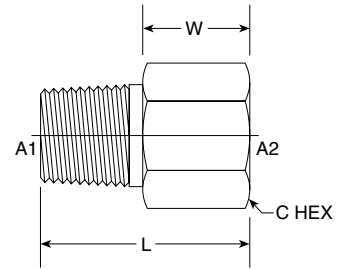
5404-N Series *continued*

PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	L LGTH	M.M.	Standard Material From Stock			
						S	FG	SS	B
5404-N-12x5.000	3/4	3/4-14	3/4-14	5.000	127.00	•			
5404-N-12x5.500	3/4	3/4-14	3/4-14	5.500	139.70	•			
5404-N-12x6.000	3/4	3/4-14	3/4-14	6.000	152.40	•		•	
5404-N-12x6.500	3/4	3/4-14	3/4-14	6.500	165.10	•			
5404-N-12x8.000	3/4	3/4-14	3/4-14	8.000	190.50			•	
5404-N-16x1.500	1	1-11 1/2	1-11 1/2	1.500	38.10	•			
5404-N-16x2.000	1	1-11 1/2	1-11 1/2	2.000	50.80	•			
5404-N-16x2.500	1	1-11 1/2	1-11 1/2	2.500	63.50	•			
5404-N-16x3.000	1	1-11 1/2	1-11 1/2	3.000	76.20	•		•	
5404-N-16x3.250	1	1-11 1/2	1-11 1/2	3.250	82.55	•			
5404-N-16x3.500	1	1-11 1/2	1-11 1/2	3.500	88.90	•			
5404-N-16x3.750	1	1-11 1/2	1-11 1/2	3.750	95.25	•			
5404-N-16x4.000	1	1-11 1/2	1-11 1/2	4.000	101.60	•			
5404-N-16x4.500	1	1-11 1/2	1-11 1/2	4.500	114.30	•			
5404-N-16x5.000	1	1-11 1/2	1-11 1/2	5.000	127.00	•			
5404-N-16x5.500	1	1-11 1/2	1-11 1/2	5.500	139.70	•			
5404-N-16x6.000	1	1-11 1/2	1-11 1/2	6.000	152.40	•		•	
5404-N-20x1.500	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.500	38.10	•			
5404-N-20x1.625	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.625	41.28	•			
5404-N-20x2.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.000	50.80	•		•	
5404-N-20x2.500	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.500	63.50	•		•	
5404-N-20x3.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	3.000	76.20	•		•	
5404-N-20x3.500	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	3.500	88.90	•			
5404-N-20x4.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	4.000	101.60	•			
5404-N-20x6.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	6.000	152.40	•			
5404-N-20x8.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	8.000	190.50			•	
5404-N-24x1.000	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.000	25.40			•	
5404-N-24x1.750	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.750	44.45	•			
5404-N-24x2.500	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.500	63.50	•			
5404-N-24x4.000	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	4.000	101.60	•			
5404-N-24x6.000	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	6.000	152.40	•			

NOTE: All stainless steel fittings are hex bodies.

MP-FP Straight Expander 5405 Series

SAE # 140139

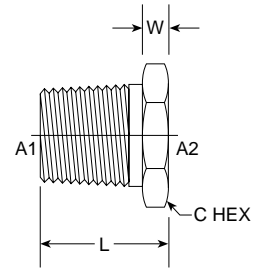


PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
5405-01-02	1/16	1/16-27	1/8-27	0.880	22.35	0.519	13.18	1/2	0.500	12.70	•			
5405-02-02	1/8	1/8-27	1/8-27	1.040	26.42	0.660	16.76	5/8	0.625	15.88	•		•	
5405-02-04	1/8	1/8-27	1/4-18	1.210	30.73	0.830	21.08	3/4	0.750	19.05	•		•	•
5405-02-06	1/8	1/8-27	3/8-18	1.340	34.04	0.880	22.35	7/8	0.875	22.23	•		•	
5405-02-08	1/8	1/8-27	1/2-14	1.480	37.59	1.120	28.45	1 1/8	1.125	28.58	•		•	
5405-04-02	1/4	1/4-18	1/8-27	1.220	30.99	0.660	16.76	5/8	0.625	15.88	•		•	
5405-04-04	1/4	1/4-18	1/4-18	1.390	35.31	0.830	21.08	3/4	0.750	19.05	•		•	
5405-04-06	1/4	7/16-20	3/8-18	1.437	36.50	0.880	22.35	7/8	0.875	22.23	•		•	
5405-04-08	1/4	1/4-18	1/2-14	1.680	42.67	1.120	28.45	1 1/8	1.125	28.58	•		•	•
5405-04-12	1/4	1/4-18	3/4-14	1.740	44.20	1.180	29.97	1 3/8	1.375	34.93	•		•	
5405-06-02	3/8	3/8-18	1/8-27	1.425	36.20	0.660	16.76	5/8	0.625	15.88	•		•	
5405-06-04	3/8	3/8-18	1/4-18	1.440	36.58	0.830	21.08	3/4	0.750	19.05	•		•	
5405-06-06	3/8	3/8-18	3/8-18	1.437	36.50	0.880	22.35	7/8	0.875	22.23	•		•	
5405-06-08	3/8	3/8-18	1/2-14	1.680	42.67	1.120	28.45	1 1/8	1.125	28.58	•		•	•
5405-06-12	3/8	3/8-18	3/4-14	1.740	44.20	1.180	29.97	1 3/8	1.375	34.93	•		•	
NEW 5405-08-04	1/2										•		•	
5405-08-06	1/2	1/2-14	3/8-18	1.850	46.99	0.880	22.35	7/8	0.875	22.23	•		•	
5405-08-08	1/2	1/2-14	1/2-14	1.870	47.50	1.120	28.45	1 1/8	1.125	28.58	•		•	•
5405-08-12	1/2	1/2-14	3/4-14	1.930	49.02	1.180	29.97	1 3/8	1.375	34.93	•		•	
5405-08-16	1/2	1/2-14	1-11 1/2	2.180	55.37	1.430	36.32	1 5/8	1.625	41.28	•		•	
5405-12-04	3/4	3/4-14	1/4-18	1.825	46.36	0.830	21.08	1	1.000	25.40	•		•	
5405-12-06	3/4	3/4-14	3/8-18	1.627	41.33	0.880	22.35	1	1.000	25.40	•		•	
5405-12-08	3/4	3/4-14	1/2-14	1.936	49.17	1.120	28.45	1 1/8	1.125	28.58	•		•	
5405-12-12	3/4	3/4-14	3/4-14	1.930	49.02	1.180	29.97	1 3/8	1.375	34.93	•		•	
5405-12-16	3/4	3/4-14	1-11 1/2	2.180	55.37	1.430	36.32	1 5/8	1.625	41.28	•		•	
5405-12-20	3/4	3/4-14	1 1/4-11 1/2	2.270	57.66	1.520	38.61	2	2.000	50.80	•		•	
5405-16-08	1	1-11 1/2	1/2-14	2.060	52.32	1.120	28.45	1 1/8	1.125	28.58	•		•	
5405-16-12	1	1-11 1/2	3/4-14	2.120	53.85	1.180	29.97	1 3/8	1.375	34.93	•		•	
5405-16-16	1	1-11 1/2	1-11 1/2	2.370	60.20	1.430	36.32	1 5/8	1.625	41.28	•		•	
5405-16-20	1	1-11 1/2	1 1/4-11 1/2	2.460	62.48	1.520	38.61	2	2.000	50.80	•		•	
5405-16-24	1	1-11 1/2	1 1/2-11 1/2	2.470	62.74	1.530	38.86	2 3/8	2.375	60.33	•		•	
5405-20-16	1 1/4	1 1/4-11 1/2	1-11 1/2	2.520	64.01	1.430	36.32	1 3/4	1.750	44.45	•		•	
5405-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.490	63.25	1.520	38.61	2	2.000	50.80	•		•	
5405-20-24	1 1/4	1 1/4-11 1/2	1 1/2-11 1/2	2.500	63.50	1.530	38.86	2 3/8	2.375	60.33	•		•	
5405-20-32	1 1/4	1 1/4-11 1/2	2-11 1/2	2.595	65.91	1.630	41.40	2 7/8	2.875	73.03	•		•	
5405-24-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.200	55.88	1.520	38.61	2	2.000	50.80	•		•	
5405-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.530	64.26	1.530	38.86	2 3/8	2.375	60.33	•		•	
5405-24-32	1 1/2	1 1/2-11 1/2	2-11 1/2	2.625	66.68	1.630	41.40	2 7/8	2.875	73.03	•		•	
5405-32-32	2	2-11 1/2	2-11 1/2	2.625	66.68	1.630	41.40	2 7/8	2.875	73.03	•		•	

Tube Fittings & Adapters

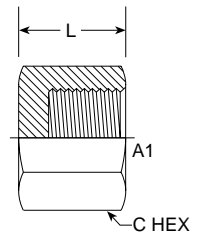
MP-FP Reducer Bushing 5406 Series

SAE # 140140



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
5406-04-02	1/4	1/4-18	1/8-27	0.859	21.82	0.250	6.35	5/8	0.625	15.88	•		•	•
5406-06-02	3/8	3/8-18	1/8-27	0.859	21.82	0.250	6.35	3/4	0.750	19.05	•		•	•
5406-06-04	3/8	3/8-18	1/4-18	0.859	21.82	0.250	6.35	3/4	0.750	19.05	•		•	•
5406-08-02	1/2	1/2-14	1/8-27	1.109	28.17	0.310	7.87	7/8	0.875	22.23	•		•	•
5406-08-04	1/2	1/2-14	1/4-18	1.109	28.17	0.310	7.87	7/8	0.875	22.23	•		•	•
5406-08-06	1/2	1/2-14	3/8-18	1.109	28.17	0.310	7.87	7/8	0.875	22.23	•		•	•
5406-12-02	3/4	3/4-14	1/8-27	1.171	29.74	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5406-12-04	3/4	3/4-14	1/4-18	1.171	29.74	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5406-12-06	3/4	3/4-14	3/8-18	1.171	29.74	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5406-12-08	3/4	3/4-14	1/2-14	1.171	29.74	0.380	9.65	1 1/8	1.125	28.58	•		•	•
5406-16-02	1	1-11 1/2	1/8-27	1.359	34.52	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5406-16-04	1	1-11 1/2	1/4-18	1.359	34.52	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5406-16-06	1	1-11 1/2	3/8-18	1.359	34.52	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5406-16-08	1	1-11 1/2	1/2-14	1.359	34.52	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5406-16-12	1	1-11 1/2	3/4-14	1.359	34.52	0.380	9.65	1 3/8	1.375	34.93	•		•	•
5406-20-04	1 1/4	1 1/4-11 1/2	1/4-18	1.470	37.34	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5406-20-06	1 1/4	1 1/4-11 1/2	3/8-18	1.470	37.34	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5406-20-08	1 1/4	1 1/4-11 1/2	1/2-14	1.470	37.34	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5406-20-12	1 1/4	1 1/4-11 1/2	3/4-14	1.470	37.34	0.460	11.68	1 3/4	1.750	44.45	•		•	•
5406-20-16	1 1/4	1 1/4-11 1/2	1-11 1/2	1.470	37.34	0.460	11.68	1 3/4	1.750	44.45	•		•	•
NEW 5406-24-02	1 1/2	1 1/2-11 1/2	1/4-18	1.570	39.88	0.530	13.46	2	2.000	50.80	•		•	•
5406-24-04	1 1/2	1 1/2-11 1/2	3/8-18	1.570	39.88	0.530	13.46	2	2.000	50.80	•		•	•
5406-24-06	1 1/2	1 1/2-11 1/2	1/2-14	1.570	39.88	0.530	13.46	2	2.000	50.80	•		•	•
5406-24-12	1 1/2	1 1/2-11 1/2	3/4-14	1.570	39.88	0.530	13.46	2	2.000	50.80	•		•	•
5406-24-16	1 1/2	1 1/2-11 1/2	1-11 1/2	1.570	39.88	0.530	13.46	2	2.000	50.80	•		•	•
5406-24-20	1 1/2	1 1/2-11 1/2	1 1/4-11 1/2	1.570	39.88	0.530	13.46	2	2.000	50.80	•		•	•
5406-32-04	2	2-11 1/2	1/4-18	1.750	44.45	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5406-32-06	2	2-11 1/2	3/8-18	1.750	44.45	0.680	17.27	2.5	2.500	63.50	•		•	•
5406-32-08	2	2-11 1/2	1/2-14	1.750	44.45	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5406-32-12	2	2-11 1/2	3/4-14	1.750	44.45	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5406-32-16	2	2-11 1/2	1-11 1/2	1.750	44.45	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5406-32-20	2	2-11 1/2	1 1/4-11 1/2	1.750	44.45	0.680	17.27	2 1/2	2.500	63.50	•		•	•
5406-32-24	2	2-11 1/2	1 1/2-11 1/2	1.750	44.45	0.680	17.27	2 1/2	2.500	63.50	•		•	•

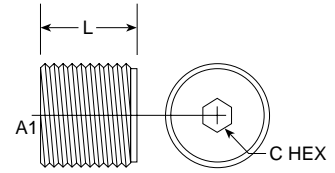
Pipe Cap 5406-C Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
								S	FG	SS	B	
5406-C-02	1/8	1/8-27	0.550	13.97	9/16	0.562	14.28	•				
5406-C-04	1/4	1/4-18	0.810	20.57				•				
5406-C-06	3/8	3/8-18	0.810	20.57	13/16	0.812	20.66	•				
5406-C-08	1/2	1/2-14	1.000	25.40	1	1.000	25.40	•				
5406-C-12	3/4	3/4-14	1.130	28.70	1 3/16	1.188	30.17	•				
5406-C-16	1	1-11 1/2	1.150	29.21	1 1/2	1.500	38.10	•				
5406-C-20	1 1/2	1 1/4-11 1/2	1.250	31.75	2	2.000	50.80	•		•		

Hollow Hex Pipe Plug 5406-HP Series

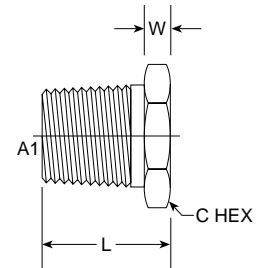
SAE # 130109



PART NO. SIZE	PIPE O.D.	A1 NPTF	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
								S	FG	SS	B
5406-HP-01	1/16	1/16-27	0.300	7.62	5/32	0.156	3.96	•		•	
5406-HP-02	1/8	1/8-27	0.300	7.62	3/16	0.188	4.76	•		•	•
5406-HP-04	1/4	1/4-18	0.460	11.68	1/4	0.250	6.35	•		•	•
5406-HP-06	3/8	3/8-18	0.460	11.68	5/16	0.312	7.92	•		•	•
5406-HP-08	1/2	1/2-14	0.610	15.49	3/8	0.375	9.53	•		•	•
5406-HP-12	3/4	3/4-14	0.620	15.75	9/16	0.562	14.27	•		•	•
5406-HP-16	1	1-11 1/2	0.770	19.56	5/8	0.625	15.88	•		•	
5406-HP-20	1 1/4	1 1/4-11 1/2	0.830	21.08	3/4	0.750	19.05	•		•	
5406-HP-24	1 1/2	1 1/2-11 1/2	0.830	21.08	1	1.000	25.40	•		•	
5406-HP-32	2	2-11 1/2	0.830	21.08	1	1.000	25.40	•		•	

External Hex Pipe Plug 5406-P Series

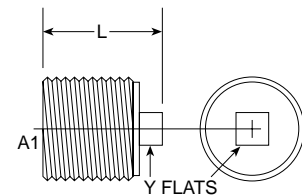
SAE # 130109E



PART NO. SIZE	PIPE O.D.	A1 NPTF	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
NEW 5405-P-01										•			
5406-P-02	1/8	1/8-27	0.562	14.27	0.187	4.75	7/16	0.438	11.13	•		•	
5406-P-04	1/4	1/4-18	0.750	19.05	0.187	4.75	9/16	0.562	14.27	•		•	
5406-P-06	3/8	3/8-18	0.781	19.84	0.219	5.56	11/16	0.688	17.46	•		•	•
5406-P-08	1/2	1/2-14	1.120	28.45	0.220	5.59	7/8	0.875	22.23	•		•	•
5406-P-12	3/4	3/4-14	1.170	29.72	0.420	10.67	1 1/8	1.125	28.58	•		•	•
5406-P-16	1	1-11 1/2	1.360	34.54	0.420	10.67	1 3/8	1.375	34.93	•		•	
5406-P-20	1 1/4	1 1/4-11 1/2	1.468	37.29	0.500	12.70	1 3/4	1.750	44.45	•		•	
5406-P-24	1 1/2	1 1/2-11 1/2	1.570	39.88	0.570	14.48	2	2.000	50.80	•		•	
5406-P-32	2	2-11 1/2	1.750	44.45	0.718	18.24	2 1/2	2.500	63.50	•		•	

Square Head Pipe Plug 5406-SHP Series

SAE # 130109A

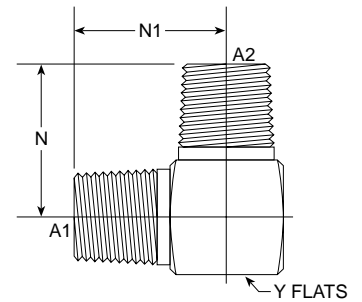


PART NO. SIZE	PIPE O.D.	A1 NPTF	L LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
								S	FG	SS	B
5406-SHP-02	1/8	1/8-27	0.630	16.00	9/32	0.281	7.11	•		•	
5406-SHP-04	1/4	1/4-18	0.760	19.30	3/8	0.375	9.65	•		•	•
5406-SHP-06	3/8	3/8-18	0.845	21.46	7/16	0.437	10.92	•		•	
5406-SHP-08	1/2	1/2-14	1.000	25.40	9/16	0.558	16.66	•		•	
5406-SHP-12	3/4	3/4-14	1.080	27.43	5/8	0.625	15.75	•		•	
5406-SHP-16	1	1-11 1/2	1.270	32.26	13/16	0.812	20.32	•		•	
5406-SHP-20	1 1/4	1 1/4-11 1/2	1.400	35.56	15/16	0.937	23.62	•		•	
5406-SHP-24	1 1/2	1 1/2-11 1/2	1.470	37.34	1 1/8	1.125	28.58	•		•	

Tube Fittings & Adapters

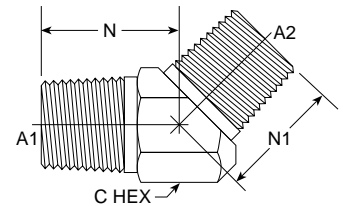
MP-MP 90° 5500 Series

SAE# 140237



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5500-02-02	1/8	1/8-27	1/8-27	0.780	19.81	0.780	19.84	1/2	0.500	12.70	•	•	•	•
5500-04-02	1/4	1/4-18	1/8-27	1.090	27.69	0.835	21.21	5/8	0.625	15.88	•	•	•	•
5500-04-04	1/4	1/4-18	1/4-18	1.090	27.69	1.090	27.69	5/8	0.625	15.88	•	•	•	•
5500-06-02	3/8	3/8-18	1/8-27	0.836	21.23	1.200	30.48	3/4	0.750	19.05	•	•	•	•
5500-06-04	3/8	3/8-18	1/4-18	1.220	30.99	1.220	30.99	13/16	0.812	20.62	•	•	•	•
5500-06-06	3/8	3/8-18	3/8-18	1.220	30.99	1.220	30.99	13/16	0.812	20.62	•	•	•	•
5500-08-04	1/2	1/2-14	1/4-18	1.470	37.34	1.280	37.34	15/16	0.937	23.80	•	•	•	•
5500-08-06	1/2	1/2-14	3/8-18	1.470	37.34	1.280	37.34	15/16	0.937	23.80	•	•	•	•
5500-08-08	1/2	1/2-14	1/2-14	1.470	37.34	1.470	37.34	15/16	0.937	23.80	•	•	•	•
5500-12-06	3/4	3/4-14	3/8-18	1.380	35.05	1.600	40.64	1 1/8	1.125	28.58	•	•	•	•
5500-12-08	3/4	3/4-14	1/2-14	1.590	40.39	1.590	40.39	1 1/8	1.125	28.58	•	•	•	•
5500-12-12	3/4	3/4-14	3/4-14	1.590	40.39	1.590	40.39	1 1/8	1.125	28.58	•	•	•	•
5500-16-08	1	1-11 1/2	1/2-14	1.620	41.15	2.020	51.31	1 3/8	1.375	34.93	•	•	•	•
5500-16-12	1	1-11 1/2	3/4-14	1.970	50.04	1.780	45.21	1 3/8	1.375	34.93	•	•	•	•
5500-16-16	1	1-11 1/2	1-11 1/2	1.970	50.04	1.970	50.04	1 3/8	1.375	34.93	•	•	•	•
5500-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.380	60.45	2.380	60.45	1 3/4	1.750	44.45	•	•	•	•
5500-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.640	67.06	2.640	67.06	2	2.000	50.80	•	•	•	•
5500-32-32	2	2-11 1/2	2-11 1/2	3.000	76.20	3.000	76.20	2 5/8	2.625	66.68	•	•	•	•

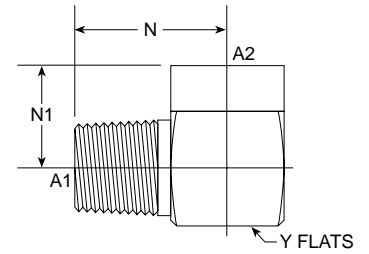
MP-MP 45° 5501 Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
5501-02-02	1/8	1/8-27	1/8-27	0.710	18.03	0.710	18.03	5/8	0.625	15.88	•	•	•	•
5501-04-04	1/4	1/4-18	1/4-18	0.840	21.34	0.840	21.34	5/8	0.625	15.88	•	•	•	•
5501-06-06	3/8	3/8-18	3/8-18	0.960	24.38	0.960	24.38	13/16	0.812	20.62	•	•	•	•
5501-08-08	1/2	1/2-14	1/2-14	1.170	29.72	1.170	29.72	15/16	0.937	23.80	•	•	•	•
5501-12-12	3/4	3/4-14	3/4-14	1.210	30.73	1.210	30.73	1 1/8	1.125	28.58	•	•	•	•
5501-16-16	1	1-11 1/2	1-11 1/2	1.560	39.62	1.560	39.62	1 3/8	1.375	34.93	•	•	•	•
5501-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.620	41.15	1.620	41.15	1 3/4	1.750	44.45	•	•	•	•
5501-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.770	44.96	1.770	44.96	2	2.000	50.80	•	•	•	•

MP-FP 90° Street Elbow 5502 Series

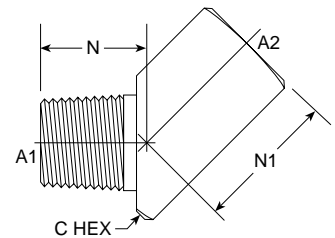
SAE # 140239



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5502-02-02	1/8	1/8-27	1/8-27	0.780	19.81	0.660	16.76	5/8	0.625	15.88	•	•	•	•
5502-02-04	1/8	1/8-27	1/4-18	0.910	23.11	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5502-02-06	1/8	1/8-27	3/8-18	1.000	25.40	1.010	25.65	1	1.000	25.40	•	•	•	•
5502-04-02	1/4	1/4-18	1/8-27	1.090	27.69	0.670	17.02	5/8	0.625	15.88	•	•	•	•
5502-04-04	1/4	1/4-18	1/4-18	1.090	27.69	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5502-04-06	1/4	1/4-18	3/8-18	1.220	30.99	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5502-06-04	3/8	3/8-18	1/4-18	1.220	30.99	1.010	25.65	13/16	0.812	20.62	•	•	•	•
5502-06-06	3/8	3/8-18	3/8-18	1.220	30.99	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5502-06-08	3/8	3/8-18	1/2-14	1.380	35.05	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5502-08-04	1/2	1/2-14	1/4-18	1.470	37.34	0.960	24.38	15/16	0.937	23.80	•	•	•	•
5502-08-06	1/2	1/2-14	3/8-18	1.470	37.34	1.050	26.67	15/16	0.937	23.80	•	•	•	•
5502-08-08	1/2	1/2-14	1/2-14	1.470	37.34	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5502-08-12	1/2	1/2-14	3/4-14	1.590	40.39	1.230	31.24	1 3/8	1.375	34.93	•	•	•	•
5502-12-06	3/4	3/4-14	3/8-18	1.590	40.39	1.120	28.45	1 1/8	1.125	28.58	•	•	•	•
5502-12-08	3/4	3/4-14	1/2-14	1.590	40.39	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5502-12-12	3/4	3/4-14	3/4-14	1.590	40.39	1.360	34.54	1 3/8	1.375	34.93	•	•	•	•
5502-12-16	3/4	3/4-14	1-11 1/2	1.710	43.43	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
5502-16-12	1	1-11 1/2	3/4-14	1.840	46.74	1.370	34.80	1 3/8	1.375	34.93	•	•	•	•
5502-16-16	1	1-11 1/2	1-11 1/2	1.970	50.04	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
5502-16-20	1	1-11 1/2	1 1/4-11 1/2	2.160	54.86	1.720	43.69	2	2.000	50.80	•	•	•	•
5502-20-16	1 1/4	1 1/4-11 1/2	1-11 1/2	2.380	60.45	1.680	42.67	1 3/4	1.750	44.45	•	•	•	•
5502-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	2.380	60.45	1.700	43.18	2	2.000	50.80	•	•	•	•
5502-20-24	1 1/4	1 1/4-11 1/2	1 1/2-11 1/2	2.500	63.50	2.000	50.80	2 3/8	2.375	60.33	•	•	•	•
5502-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.640	67.06	2.080	52.83	2 3/8	2.375	60.33	•	•	•	•
5502-32-32	2	2-11 1/2	2-11 1/2	3.000	76.20	2.390	60.71	2 7/8	2.875	73.03	•	•	•	•

MP-FP 45° Street Elbow 5503 Series

SAE # 140339

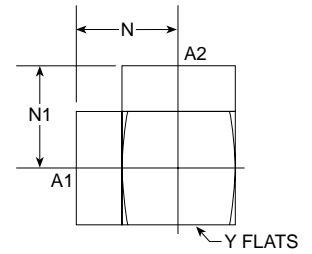


PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
5503-02-02	1/8	1/8-27	1/8-27	0.720	18.29	0.470	11.94	5/8	0.625	15.88	•	•	•	•
5503-02-04	1/8	1/8-27	1/4-18	0.825	20.96	0.640	16.26	3/4	0.750	19.05	•	•	•	•
5503-04-04	1/4	1/4-18	1/4-18	1.050	26.67	0.630	16.00	3/4	0.750	19.05	•	•	•	•
5503-06-06	3/8	3/8-18	3/8-18	1.060	26.92	0.720	18.29	7/8	0.875	22.23	•	•	•	•
5503-08-08	1/2	1/2-14	1/2-14	1.340	34.04	0.910	23.11	1 1/8	1.125	28.58	•	•	•	•
5503-12-12	3/4	3/4-14	3/4-14	1.380	35.05	0.970	24.64	1 3/8	1.375	34.93	•	•	•	•
5503-16-16	1	1-11 1/2	1-11 1/2	1.720	43.69	1.130	28.70	1 5/8	1.625	41.28	•	•	•	•
5503-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.800	45.72	1.630	41.40	2	2.000	50.80	•	•	•	•
5503-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.060	52.32	1.690	42.93	2 3/8	2.375	60.33	•	•	•	•

Tube Fittings & Adapters

FP-FP 90° Street Elbow 5504 Series

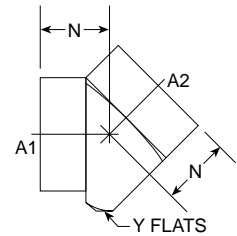
SAE # 140238



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5504-02-02	1/8	1/8-27	1/8-27	0.660	16.76	0.660	16.76	5/8	0.625	15.88	•	•	•	•
5504-04-02	1/4	1/4-18	1/8-27	0.880	22.35	0.720	18.29	3/4	0.750	19.05	•	•	•	•
5504-04-04	1/4	1/4-18	1/4-18	0.880	22.35	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5504-06-04	3/8	3/8-18	1/4-18	1.020	25.91	0.940	23.88	7/8	0.875	22.23	•	•	•	•
5504-06-06	3/8	3/8-18	3/8-18	1.020	25.91	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5504-08-04	1/2	1/2-14	1/4-18	1.230	31.24	1.070	27.18	1 1/8	1.125	28.58	•	•	•	•
5504-08-06	1/2	1/2-14	3/8-18	1.230	31.24	1.140	28.96	1 1/8	1.125	28.58	•	•	•	•
5504-08-08	1/2	1/2-14	1/2-14	1.230	31.24	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5504-12-06	3/4	3/4-14	3/8-18	1.360	34.54	1.130	28.70	1 3/8	1.375	34.93	•	•	•	•
5504-12-08	3/4	3/4-14	1/2-14	1.230	31.24	1.230	31.24	1 3/8	1.375	34.93	•	•	•	•
5504-12-12	3/4	3/4-14	3/4-14	1.360	34.54	1.360	34.54	1 3/8	1.375	34.93	•	•	•	•
5504-16-08	1	1-11 1/2	1/2-14	1.620	41.15	1.530	38.86	1 3/4	1.750	44.45	•	•	•	•
5504-16-12	1	1-11 1/2	3/4-14	1.630	41.40	1.480	37.59	1 5/8	1.625	41.28	•	•	•	•
5504-16-16	1	1-11 1/2	1-11 1/2	1.630	41.40	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
NEW 5504-20-12											•	•	•	•
NEW 5504-20-16											•	•	•	•
5504-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.700	43.18	1.700	43.18	2	2.000	50.80	•	•	•	•
NEW 5504-24-20											•	•	•	•
5504-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.080	52.83	2.080	52.83	2 3/8	2.375	60.33	•	•	•	•
5504-32-32	2	2-11 1/2	2-11 1/2	2.390	60.71	2.390	60.71	2 7/8	2.875	73.03	•	•	•	•

FP-FP 45° 5505 Series

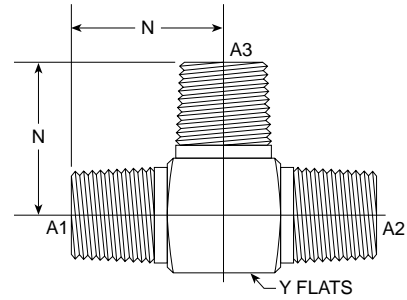
SAE # 140338



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
5505-02-02	1/8	1/8-27	1/8-27	0.510	12.95	5/8	0.625	15.88	•	•	•	•
5505-04-04	1/4	1/4-18	1/4-18	0.660	16.76	3/4	0.750	19.05	•	•	•	•
5505-06-06	3/8	3/8-18	3/8-18	0.810	20.57	7/8	0.875	22.23	•	•	•	•
5505-08-08	1/2	1/2-14	1/2-14	0.920	23.37	1 1/16	1.062	26.97	•	•	•	•
5505-12-12	3/4	3/4-14	3/4-14	0.920	23.37	1 3/8	1.375	34.93	•	•	•	•
5505-16-16	1	1-11 1/2	1-11 1/2	1.250	31.75	1 5/8	1.625	41.20	•	•	•	•
5505-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.440	36.58	1 7/8	1.875	47.63	•	•	•	•

MP-MP-MP Tee 5600 Series

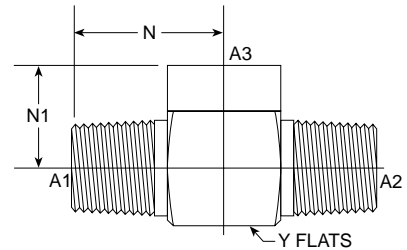
SAE # 140437
(As coded per SAE J846)



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
5600-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.780	19.81	1/2	0.500	12.70	•	•	•	
5600-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.090	27.69	5/8	0.625	15.88	•	•	•	
5600-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.220	30.99	13/16	0.812	20.62	•	•	•	
5600-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.470	37.34	15/16	0.937	23.80	•	•	•	
5600-12-12-12	3/4	3/4-14	3/4-14	3/4-14	1.590	40.39	1 1/8	1.125	28.58	•	•	•	
5600-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1.970	50.04	1 3/8	1.375	34.93	•	•	•	
5600-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.380	60.45	1 5/8	1.625	41.28		•		
5600-32-32-32	2	2-11 1/2	2-11 1/2	2-11 1/2	3.000	76.20	2 1/2	2.500	63.50		•		

MP-MP-FP Tee 5601 Series

SAE # 140427
(As coded per SAE J846)

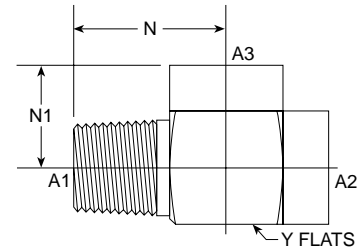


PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
5601-02-02-02	1/8	1/8-27	1/8-27	1/8-27	.78	19.81	0.66	16.76	9/16	0.562	14.27	•	•	•	
5601-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.110	28.19	0.890	22.61	3/4	0.750	19.05	•	•	•	
5601-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.230	31.24	1.020	25.91	7/8	0.875	22.23	•	•	•	
5601-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.560	39.62	1.240	31.50	1 1/8	1.125	28.58	•	•	•	
5601-12-12-12	3/4	3/4-14	3/4-14	3/4-14	1.600	40.64	1.360	34.54	1 3/8	1.375	34.93	•	•	•	
5601-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1.980	50.29	1.630	41.40	1 5/8	1.625	41.28	•	•	•	
5601-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.370	60.20	1.690	42.93	2	2.000	50.80	•	•		
5601-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.620	66.55	2.130	54.10	2 1/2	2.500	63.50	•	•		

Tube Fittings & Adapters

MP-FP-FP Street Tee 5602 Series

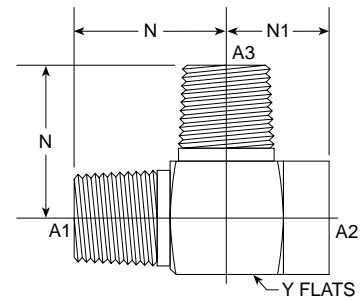
SAE # 140424



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
5602-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.780	19.81	0.660	16.76	5/8	0.625	15.88	•	•	•	•
5602-02-04-04	1/8	1/8-27	1/4-18	1/4-18	0.900	22.86	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5602-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.090	27.69	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5602-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.220	30.99	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5602-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.470	37.34	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5602-12-12-12	3/4	3/4-14	3/4-14	3/4-14	1.590	40.39	1.360	34.54	1 3/8	1.375	34.93	•	•	•	•
5602-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1.970	50.04	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
5602-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.380	60.45	1.700	43.18	2	2.000	50.80	•	•	•	•
5602-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.640	67.06	2.080	52.83	2 3/8	2.375	60.33	•	•	•	•
5602-32-32-32	2	2-11 1/2	2-11 1/2	2-11 1/2	3.000	76.20	2.390	60.71	2 7/8	2.875	73.03	•	•	•	•

MP-FP-MP Tee 5603 Series

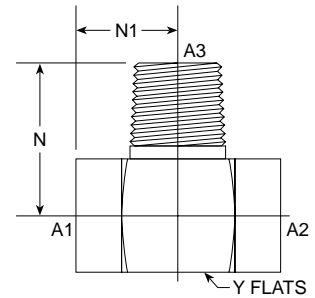
SAE # 140426
(As coded per SAE J846)



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
NEW 5603-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.780	19.81	0.660	16.76	5/8	0.625	15.88	•	•	•	•
5603-02-04-02	1/8	1/8-27	1/4-18	1/4-18	0.900	22.86	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5603-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.090	27.69	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5603-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.220	30.99	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5603-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.470	37.34	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
NEW 5603-12-12-08	3/4	3/4-14	3/4-14	3/4-14	1.590	40.39	1.360	34.54	1 3/8	1.375	34.93	•	•	•	•
5603-12-12-12	1	1-11 1/2	1-11 1/2	1-11 1/2	1.970	50.04	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
5603-16-16-16	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.380	60.45	1.700	43.18	2	2.000	50.80	•	•	•	•
5603-20-20-20	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.640	67.06	2.080	52.83	2 3/8	2.375	60.33	•	•	•	•

FP-FP-MP Branch Tee 5604 Series

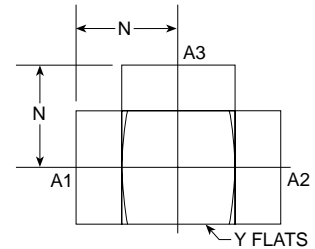
SAE # 140425



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	N LGTH M.M.	N1 LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
										S	FG	SS	B		
5604-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.780	19.81	0.660	16.76	5/8	0.625	15.88	•	•	•	•
5604-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1.090	27.69	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5604-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.220	30.99	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5604-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.470	37.34	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5604-12-12-08	3/4	3/4-14	3/4-14	1/2-14	1.690	42.93	1.370	34.80	1 3/8	1.375	34.93	•	•	•	•
5604-12-12-12	3/4	3/4-14	3/4-14	3/4-14	1.590	40.39	1.360	34.54	1 3/8	1.375	34.93	•	•	•	•
5604-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1.970	50.04	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
5604-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	2.380	60.45	1.700	43.18	2	2.000	50.80	•	•	•	•
5604-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.640	67.06	2.080	52.83	2 3/8	2.375	60.33	•	•	•	•

FP-FP-FP Tee 5605 Series

SAE # 140438



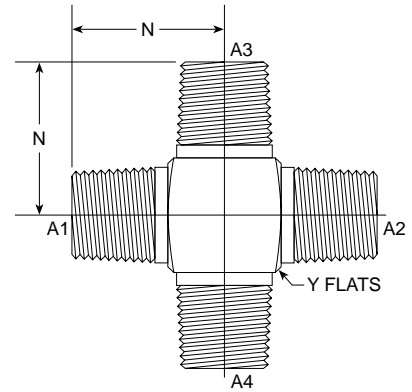
PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	N LGTH M.M.	N1 LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
5605-02-02-02	1/8	1/8-27	1/8-27	1/8-27	0.660	16.76	5/8	0.625	15.88	•	•	•	•
5605-04-04-02	1/4	1/4-18	1/4-18	1/4-18	0.880	22.35	3/4	0.750	19.05	•	•	•	•
5605-04-04-04	1/4	1/4-18	1/4-18	3/8-18	1.220	30.99	7/8	0.875	22.23	•	•	•	•
5605-06-06-06	3/8	3/8-18	3/8-18	3/8-18	1.020	25.91	7/8	0.875	22.23	•	•	•	•
5605-06-06-08	3/8	3/8-18	3/8-18	1/2-14	1.140	28.96	1 1/8	1.125	28.58	•	•	•	•
5605-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1.230	31.24	1 1/8	1.125	28.58	•	•	•	•
5605-12-12-12	3/4	3/4-14	3/4-14	3/4-14	1.360	34.54	1 3/8	1.375	34.93	•	•	•	•
5605-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1.630	41.40	1 5/8	1.625	41.28	•	•	•	•
5605-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.700	43.18	2	2.000	50.80	•	•	•	•
5605-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.080	52.83	2 3/8	2.375	60.33	•	•	•	•
5605-32-32-32	2	2-11 1/2	2-11 1/2	2-11 1/2	2.390	60.71	2 7/8	2.875	73.03	•	•	•	•

NEW

Tube Fittings & Adapters

MP-MP-MP-MP Cross 5650 Series

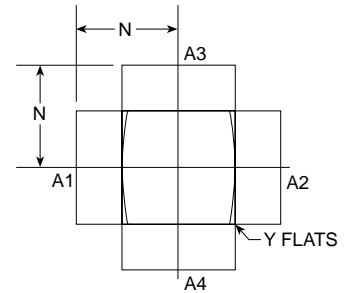
SAE # 140537
(As coded per SAE J846)



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	A4 NPTF	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5650-04-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1/4-18	1.090	27.69	3/4	0.750	19.00	•			
5650-16-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.970	50.00	1 5/8	1.625	41.30			•	

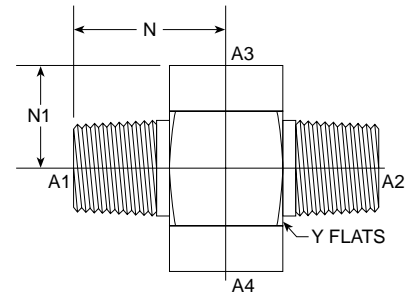
FP-FP-FP-FP Cross 5652 Series

SAE # 140538
(As coded per SAE J846)



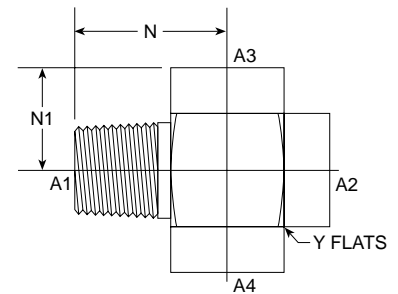
PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	A4 NPTF	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5652-02-02-02-02	1/8	1/8-27	1/8-27	1/8-27	1/8-27	0.660	16.76	5/8	0.625	15.88	•	•	•	
5652-04-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1/4-18	0.880	22.35	3/4	0.750	19.05	•	•	•	
5652-06-06-06-06	3/8	3/8-18	3/8-18	3/8-18	3/8-18	1.020	25.91	7/8	0.875	22.23	•	•	•	
5652-08-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1/2-14	1.230	31.24	1 1/8	1.125	28.58	•	•	•	
5652-12-12-12-12	3/4	3/4-14	3/4-14	3/4-14	3/4-14	1.360	34.54	1 3/8	1.375	34.93	•	•	•	
5652-16-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.630	41.40	1 5/8	1.625	41.28	•	•	•	
5652-20-20-20-20	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.700	43.18	2	2.000	50.80	•	•		
5652-24-24-24-24	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.080	52.83	2 3/8	2.375	60.33	•		•	
5652-32-32-32-32	2	2-11 1/2	2-11 1/2	2-11 1/2	2-11 1/2	2.390	60.71	2 7/8	2.875	73.03	•		•	

MP-MP-FP-FP Cross 5653 Series



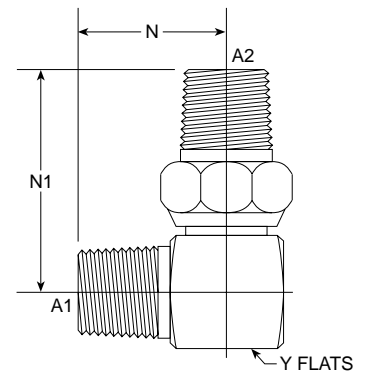
PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	A4 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
													S	FG	SS	B
5653-04-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1/4-18	1.170	29.72	0.880	22.35	7/8	0.875	22.23	•			
5653-06-06-06-06	3/8	3/8-18	3/8-18	3/8-18	3/8-18	1.22	30.99	1.02	25.91	7/8	0.875	22.23	•	•		

MP-FP-FP-FP Cross 5655 Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	A3 NPTF	A4 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
													S	FG	SS	B
5655-04-04-04-04	1/4	1/4-18	1/4-18	1/4-18	1/4-18	1.070	27.18	0.880	22.35	3/4	0.750	19.05	•			
5655-06-06-06-06	3/8	3/8-18	3/8-18	3/8-18	3/8-18	1.220	30.99	1.020	25.91	7/8	0.875	22.23	•			
5655-08-08-08-08	1/2	1/2-14	1/2-14	1/2-14	1/2-14	1.470	37.34	1.240	31.50	1 1/8	1.125	28.58	•			
5655-12-12-12-12	3/4	3/4-14	3/4-14	3/4-14	3/4-14	1.580	40.13	1.370	34.80	1 3/8	1.375	34.93	•		•	
5655-16-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.97	50.04	1.63	41.40	1 5/8	1.625	41.28	•	•		

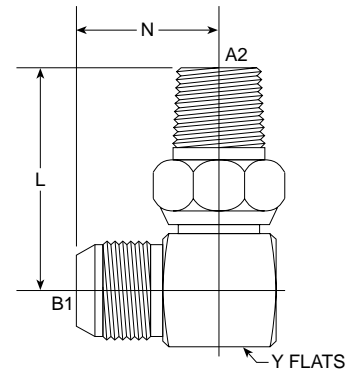
MP-MPS 90° 5700 Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5700-04-04	1/4	1/4-18	1/4-18	1.070	27.18	1.155	29.34	5/8	0.625	15.88	•			
5700-06-06	3/8	9/16-18	3/8-18	1.220	30.99	1.640	41.66	3/4	0.750	19.05	•	•		
5700-08-08	1/2	1/2-14	1/2-14	1.490	37.85	2.000	50.80	7/8	0.875	22.23	•	•		
5700-12-12	3/4	1 1/16-12	3/4-14	1.520	38.61	2.140	54.36	1 1/8	1.125	28.58	•			

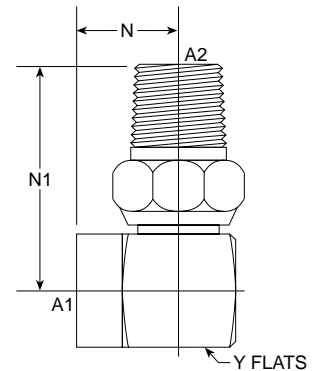
Tube Fittings & Adapters

MJ-MPS 90° 5701 Series



PART NO. SIZE	PIPE O.D.	B1 NPTF	A2 NPTF	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5701-06-04	3/8	9/16-18	1/4-18	1.080	27.43	1.590	40.39	11/16	0.687	17.45	•			
5701-06-06	3/8	9/16-18	3/8-18	1.140	28.96	1.660	42.16	11/16	0.687	17.45	•			
5701-08-06	1/2	3/4-16	3/8-18	1.260	32.00	1.660	42.16	13/16	0.812	20.62	•	•		
5701-08-08	1/2	3/4-16	1/2-14	1.250	31.75	1.800	45.72	13/16	0.812	20.62	•			
5701-10-08	5/8	7/8-14	1/2-14	1.470	37.34	2.000	50.80	1	1.000	25.40	•	•		
5701-12-12	3/4	1 1/16-12	3/4-14	1.670	42.42	2.140	54.36	1 1/8	1.125	28.58	•			

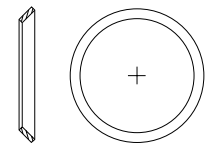
FP-MPS 90° 5702 Series



PART NO. SIZE	PIPE O.D.	A1 NPTF	A2 NPTF	N LGTH	M.M.	N1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
5702-04-04	1/4	1/4-18	1/4-18	0.890	22.61	1.590	40.39	3/4	0.750	19.05		•		
5702-06-06	3/8	3/8-18	3/8-18	1.030	26.16	1.700	43.18	7/8	0.875	22.23		•		
5702-08-08	1/2	1/2-14	1/2-14	1.240	31.50	2.010	51.05	1 1/16	1.125	28.58		•		
5702-12-12	3/4	3/4-14	3/4-14	1.370	34.80	2.250	57.15	1 3/8	1.375	34.93		•		

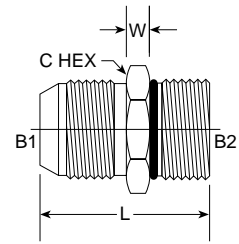
PART NO. SIZE	TUBE O.D.	Standard Material From Stock			
		S	FG	SS	B
6000-02	1/8	•		•	
6000-03	3/16	•		•	
6000-04	1/4	•		•	
6000-05	5/16	•		•	
6000-06	3/8	•		•	
6000-08	1/2	•		•	
6000-10	5/8	•		•	
6000-12	3/4	•		•	
6000-14	7/8	•		•	
6000-16	1	•		•	
6000-20	1 1/4	•		•	
6000-24	1 1/2	•		•	
6000-32	2	•		•	

Back-Up Washer 6000 Series



MJ-MORB Straight 6400-O Series

SAE# 070120 / MS# 51525



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
6400-02-02-O	1/8	5/16-24	5/16-24	1.060	26.92	0.316	7/16	0.438	11.13	•			
6400-03-02-O	3/16	3/8-24	5/16-24	1.110	28.19	0.320	7/16	0.438	11.13	•			
6400-03-03-O	3/16	3/8-24	3/8-24	1.110	28.19	0.320	1/2	0.500	12.70	•			
6400-04-02-O	1/4	7/16-20	5/16-24	1.130	28.70	0.280	1/2	0.500	12.70	•			
6400-04-03-O	1/4	7/16-20	3/8-24	1.170	29.72	0.320	1/2	0.500	12.70	•			
6400-04-04-O	1/4	7/16-20	7/16-20	1.230	31.24	0.281	9/16	0.562	14.27	•			
6400-04-05-O	1/4	7/16-20	1/2-20	1.230	31.24	0.281	5/8	0.625	15.88	•			
6400-04-06-O	1/4	7/16-20	9/16-18	1.300	33.02	0.312	11/16	0.687	17.45	•			
6400-04-08-O	1/4	7/16-20	3/4-16	1.370	34.80	0.343	7/8	0.875	22.23	•			
6400-04-10-O	1/4	7/16-20	7/8-14	1.490	37.85	0.420	1	1.000	25.40	•			
6400-04-12-O	1/4	7/16-20	1 1/16-12	1.650	41.91	0.510	1 1/4	1.250	31.75	•			
6400-05-04-O	5/16	1/2-20	7/16-20	1.240	31.50	0.281	9/16	0.562	14.27	•			
6400-05-05-O	5/16	1/2-20	1/2-20	1.210	30.73	0.281	5/8	0.625	15.88	•			
6400-05-06-O	5/16	1/2-20	9/16-18	1.360	34.54	0.312	11/16	0.687	17.45	•			
6400-05-08-O	5/16	1/2-20	3/4-16	1.370	34.80	0.380	7/8	0.875	22.23	•			
6400-05-10-O	5/16	1/2-20	7/8-14	1.540	39.12	0.470	1	1.000	25.40	•			
6400-06-03-O	3/8	9/16-18	3/8-24	1.212	30.78	0.340	5/8	0.625	15.88	•			
6400-06-04-O	3/8	9/16-18	7/16-20	1.330	33.78	0.312	5/8	0.625	15.88	•			
6400-06-05-O	3/8	9/16-18	1/2-20	1.290	32.77	0.312	5/8	0.625	15.88	•			
6400-06-06-O	3/8	9/16-18	9/16-18	1.300	33.02	0.312	11/16	0.687	17.45	•			
6400-06-08-O	3/8	9/16-18	3/4-16	1.375	34.93	0.343	7/8	0.875	22.23	•			
6400-06-10-O	3/8	9/16-18	7/8-14	1.500	38.10	0.406	1	1.000	25.40	•			
6400-06-12-O	3/8	9/16-18	1 1/16-12	1.650	41.91	0.500	1 1/4	1.250	31.75	•			
6400-06-16-O	3/8	9/16-18	1 5/16-12	1.690	42.93	0.530	1 1/2	1.500	38.10	•			
6400-08-04-O	1/2	3/4-16	7/16-20	1.490	37.85	0.350	13/16	0.812	20.62	•			
6400-08-05-O	1/2	3/4-16	1/2-20	1.520	38.61	0.410	13/16	0.812	20.62	•			
6400-08-06-O	1/2	3/4-16	9/16-18	1.450	36.83	0.343	13/16	0.812	20.62	•			
6400-08-08-O	1/2	3/4-16	3/4-16	1.490	37.85	0.343	7/8	0.875	22.23	•			
6400-08-10-O	1/2	3/4-16	7/8-14	1.590	40.39	0.406	1	1.000	25.40	•			
6400-08-12-O	1/2	3/4-16	1 1/16-12	1.770	44.96	0.468	1 1/4	1.250	31.75	•			
6400-08-14-O	1/2	3/4-16	1 3/16-12	1.770	44.96	0.510	1 3/8	1.375	34.93	•			
6400-08-16-O	1/2	3/4-16	1 5/16-12	1.760	44.70	0.500	1 1/2	1.500	38.10	•			
6400-10-04-O	5/8	7/8-14	7/16-20	1.680	42.67	0.410	15/16	0.937	23.80	•			
6400-10-06-O	5/8	7/8-14	9/16-18	1.690	42.93	0.430	15/16	0.937	23.80	•			
6400-10-08-O	5/8	7/8-14	3/4-16	1.670	42.42	0.406	15/16	0.937	23.80	•			
6400-10-10-O	5/8	7/8-14	7/8-14	1.700	43.18	0.406	1	1.000	25.40	•			
6400-10-12-O	5/8	7/8-14	1 1/16-12	1.860	47.24	0.468	1 1/4	1.250	31.75	•			
6400-10-14-O	5/8	7/8-14	1 3/16-12	1.860	47.24	0.500	1 3/8	1.375	34.93	•			
6400-10-16-O	5/8	7/8-14	1 5/16-12	1.890	48.01	0.500	1 1/2	1.500	38.10	•			
6400-10-20-O	5/8	7/8-14	1 5/8-12	1.960	49.78	0.610	1 7/8	1.875	47.63	•			
6400-12-06-O	3/4	1 1/16-12	9/16-18	1.860	47.24	0.520	1 1/8	1.125	28.58	•			
6400-12-08-O	3/4	1 1/16-12	3/4-16	1.840	46.74	0.468	1 1/8	1.125	28.58	•			
6400-12-10-O	3/4	1 1/16-12	7/8-14	1.910	48.51	0.468	1 1/8	1.125	28.58	•			
6400-12-12-O	3/4	1 1/16-12	1 1/16-12	1.970	50.04	0.468	1 1/4	1.250	31.75	•			
6400-12-14-O	3/4	1 1/16-12	1 3/16-12	1.970	50.04	0.470	1 3/8	1.375	34.93	•			
6400-12-16-O	3/4	1 1/16-12	1 5/16-12	1.980	50.29	0.500	1 1/2	1.500	38.10	•			
6400-12-20-O	3/4	1 1/16-12	1 5/8-12	2.080	52.83	0.578	1 7/8	1.875	47.63	•			
NEW 6400-12-24-O										•			
6400-14-08-O	7/8	1 3/16-12	3/4-16	1.896	48.16	0.445	1 1/4	1.250	31.75	•			
6400-14-10-O	7/8	1 3/16-12	7/8-14	1.950	49.53	0.430	1 1/4	1.250	31.75	•			
6400-14-12-O	7/8	1 3/16-12	1 1/16-12	1.980	50.29	0.500	1 1/4	1.250	31.75	•			
6400-14-14-O	7/8	1 3/16-12	1 3/16-12	1.980	50.29	0.468	1 3/8	1.375	34.93	•			
6400-14-16-O	7/8	1 3/16-12	1 5/16-12	2.020	51.31	0.530	1 1/2	1.500	38.10	•			
6400-16-06-O	1	1 5/16-12	9/16-18	1.850	46.99	0.450	1 3/8	1.375	34.93	•			

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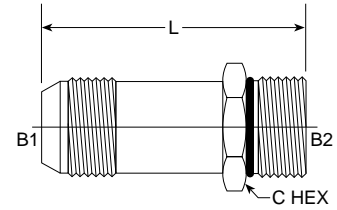
Tube Fittings & Adapters

6400-O Series *continued*

PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
6400-16-08-O	1	1 5/16-12	3/4-16	1.890	48.01	0.410	1 3/8	1.375	34.93	•		•	
6400-16-10-O	1	1 5/16-12	7/8-14	1.950	49.53	0.500	1 3/8	1.375	34.93	•		•	
6400-16-12-O	1	1 5/16-12	1 1/16-12	2.050	52.07	0.500	1 3/8	1.375	34.93	•		•	
6400-16-14-O	1	1 5/16-12	1 3/16-12	2.040	51.82	0.540	1 3/8	1.375	34.93	•		•	
6400-16-16-O	1	1 5/16-12	1 5/16-12	2.050	52.07	0.500	1 1/2	1.500	38.10	•		•	
6400-16-20-O	1	1 5/16-12	1 5/8-12	2.130	54.10	0.578	1 7/8	1.875	47.63	•		•	
6400-16-24-O	1	1 5/16-12	1 7/8-12	2.220	56.39	0.690	2 1/8	2.125	53.98	•		•	
6400-20-12-O	1 1/4	1 5/8-12	1 1/16-12	2.300	58.42	0.610	1 11/16	1.688	42.86	•		•	
6400-20-16-O	1 1/4	1 5/8-12	1 5/16-12	2.200	55.88	0.578	1 11/16	1.688	42.86	•		•	
6400-20-20-O	1 1/4	1 5/8-12	1 5/8-12	2.170	55.12	0.578	1 7/8	1.875	47.63	•		•	
6400-20-24-O	1 1/4	1 5/8-12	1 7/8-12	2.250	57.15	0.656	2 1/8	2.125	53.98	•		•	
NEW 6400-20-40-O										•			
6400-24-20-O	1 1/2	1 7/8-12	1 5/8-12	2.340	59.44	0.540	2	2.000	50.80	•		•	
6400-24-24-O	1 1/2	1 7/8-12	1 7/8-12	2.380	60.45	0.656	2 1/8	2.125	53.98	•		•	
6400-24-32-O	1 1/2	1 7/8-12	2 1/2-12	2.530	64.26	0.812	2 3/4	2.750	69.85	•		•	
6400-32-24-O	2	2 1/2-12	1 7/8-12	2.810	71.37	0.812	2 5/8	2.625	66.68	•		•	
6400-32-32-O	2	2 1/2-12	2 1/2-12	2.780	70.61	0.812	2 3/4	2.750	69.85	•		•	
NEW 6400-32-40-O										•			

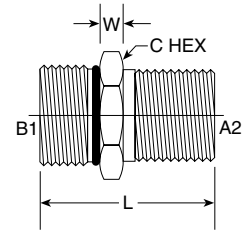
MJ-MORB Straight Long 6400-L-O Series

SAE# 070122 / MS# 51526



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
									S	FG	SS	B
6400-L-04-04-O	1/4	7/16-20	7/16-20	2.080	52.83	9/16	0.562	14.27	•		•	
6400-L-05-05-O	5/16	1/2-20	1/2-20	2.140	54.36	5/8	0.625	15.88	•		•	
6400-L-06-06-O	3/8	9/16-18	9/16-18	2.310	58.67	11/16	0.687	17.45	•		•	
6400-L-06-08-O	3/8	9/16-18	3/4-16	2.380	60.45	7/8	0.875	22.23	•		•	
6400-L-08-08-O	1/2	3/4-16	3/4-16	2.700	68.58	7/8	0.875	22.23	•		•	
6400-L-08-10-O	1/2	3/4-16	7/8-14	2.810	71.37	1	1.000	25.40	•		•	
6400-L-10-10-O	5/8	7/8-14	7/8-14	3.040	77.22	1	1.000	25.40	•		•	
6400-L-10-16-O	5/8	7/8-14	1 5/16-12	3.210	81.53	1 1/2	1.500	38.10	•		•	
6400-L-12-12-O	3/4	1 1/16-12	1 1/16-12	3.610	91.69	1 1/4	1.250	31.75	•		•	
6400-L-12-16-O	3/4	1 1/16-12	1 5/16-12	3.610	91.69	1 1/2	1.500	38.10	•		•	
6400-L-14-14-O	7/8	1 3/16-12	1 3/16-12	3.800	96.52	1 3/8	1.375	34.93	•		•	
6400-L-16-16-O	1	1 5/16-12	1 5/16-12	3.980	101.09	1 1/2	1.500	38.10	•		•	
6400-L-20-20-O	1 1/4	1 5/8-12	1 5/8-12	4.690	119.13	1 7/8	1.875	47.63	•		•	
NEW 6400-L-24-24-O									•			

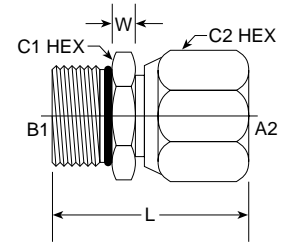
MORB-MP Straight 6401-O Series



PART NO. SIZE	TUBE SIZE	B1 ORB	A2 NPTF	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
NEW NEW 6401-02-02-O										•			
6401-03-02-O										•			
6401-04-02-O	1/4	7/16-20	1/8-27	1.070	27.18	0.280	9/16	0.562	14.27	•			
6401-04-04-O	1/4	7/16-20	1/4-18	1.230	31.24	0.310	9/16	0.562	14.27	•		•	
6401-05-02-O	5/16	1/2-20	1/8-27	1.050	26.67	0.290	5/8	0.625	15.88	•			
6401-05-04-O	5/16	1/2-20	1/8-27	1.152	29.26	0.210	5/8	0.625	15.88	•		•	
6401-06-02-O	3/8	9/16-18	1/8-27	1.110	28.19	0.340	11/16	0.687	17.45	•			
6401-06-04-O	3/8	9/16-18	1/4-18	1.290	32.77	0.310	11/16	0.687	17.45	•		•	
6401-06-06-O	3/8	9/16-18	3/8-18	1.300	33.02	0.330	11/16	0.687	17.45	•		•	
6401-06-08-O	3/8	9/16-18	1/2-14	1.390	35.31	0.240	7/8	0.875	22.23	•		•	
6401-08-04-O	1/2	3/4-16	1/4-18	1.240	31.50	0.240	7/8	0.875	22.23	•		•	
6401-08-06-O	1/2	3/4-16	3/8-18	1.360	34.54	0.340	7/8	0.875	22.23	•		•	
6401-08-08-O	1/2	3/4-16	1/2-14	1.550	39.37	0.410	7/8	0.875	22.23	•		•	
6401-08-12-O	1/2	3/4-16	3/4-14	1.590	40.39	0.260	1 1/8	1.125	28.58	•		•	
6401-10-04-O	5/8	7/8-14	1/4-18	1.450	36.83	0.400	1	1.000	25.40	•			
6401-10-06-O	5/8	7/8-14	3/8-18	1.560	39.62	0.450	1	1.000	25.40	•			
6401-10-08-O	5/8	7/8-14	1/2-14	1.690	42.93	0.410	1	1.000	25.40	•		•	
6401-10-12-O	5/8	7/8-14	3/4-14	1.770	44.96	0.410	1 1/8	1.125	28.58	•		•	
6401-12-06-O	3/4	1 1/16-12	3/8-18	1.680	42.67	0.500	1 1/4	1.250	31.75	•			
6401-12-08-O	3/4	1 1/16-12	1/2-14	1.840	46.74	0.500	1 1/4	1.250	31.75	•		•	
6401-12-12-O	3/4	1 1/16-12	3/4-14	1.730	43.94	0.380	1 1/4	1.250	31.75	•		•	
6401-12-16-O	3/4	1 1/16-12	1-11 1/2	2.120	53.85	0.460	1 3/8	1.375	34.93	•		•	
6401-14-12-O	7/8	1 3/16-12	3/4-14	1.850	46.99	0.490	1 3/8	1.375	34.93	•			
6401-14-16-O	7/8	1 3/16-12	1-11 1/2	1.980	50.29	0.440	1 3/8	1.375	34.93	•			
6401-16-12-O	1	1 5/16-12	3/4-14	2.070	52.58	0.540	1 1/2	1.500	38.10	•		•	
6401-16-16-O	1	1 5/16-12	1-11 1/2	1.900	48.26	0.500	1 1/2	1.500	38.10	•		•	
6401-16-20-O	1	1 5/16-12	1 1/4-11 1/2	2.340	59.44	0.540	1 3/4	1.750	44.45	•			
6401-20-12-O	1 1/4	1 5/8-12	3/4-14	1.900	48.26	0.540	1 7/8	1.875	47.63	•			
NEW 6401-20-16-O										•			
6401-20-20-O	1 1/4	1 5/8-12	1 1/4-11 1/2	2.170	55.12	0.580	1 7/8	1.875	47.63	•		•	
6401-20-24-O	1 1/4	1 5/8-12	1 1/2-11 1/2	2.277	57.84	0.675	2	2.000	50.80	•		•	
6401-24-16-O	1 1/2	1 7/8-12	1-11 1/2	2.210	56.13	0.670	2 1/8	2.125	53.98	•			
6401-24-16-O	1 1/2	1 7/8-12	1-11 1/2	2.220	56.39	0.670	2 1/8	2.125	53.98	•			
6401-24-20-O	1 1/2	1 7/8-12	1 1/4-11 1/2	2.250	57.15	0.670	2 1/8	2.125	53.98	•			
6401-24-24-O	1 1/2	1 7/8-12	1 1/2-11 1/2	2.280	57.91	0.650	2 1/8	2.125	53.98	•		•	
6401-32-32-O	2	2 1/2-12	2-11 1/2	2.480	62.99	0.810	2 3/4	2.750	69.85	•		•	

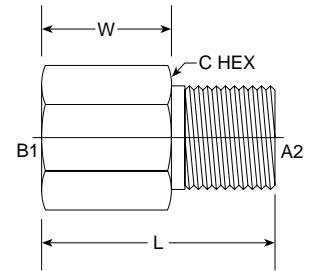
Tube Fittings & Adapters

MORB-FJS Straight 6402-O Series



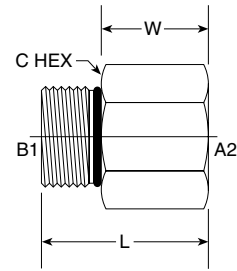
PART NO. SIZE	TUBE O.D.	B1 SAE ORB	B2 JIC	L		W	C1 HEX	C1 HEX	C2 HEX	C1 HEX	M.M.	Standard Material From Stock				
				LGTH	M.M.							S	FG	SS	B	
6402-04-04-O	1/4	7/16-20	7/16-20	1.470	37.34	0.330	9/16	0.562	14.27	9/16	0.562	14.27	•		•	
6402-04-06-O	1/4	7/16-20	9/16-18	1.410	35.81	0.330	9/16	0.562	14.27	9/16	0.562	14.27	•		•	
6402-06-04-O	3/8	9/16-18	7/16-20	1.350	34.29	0.330	11/16	0.687	17.45	9/16	0.562	14.27	•		•	
6402-06-06-O	3/8	9/16-18	9/16-18	1.480	37.59	0.330	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
6402-06-08-O	1/2	9/16-18	3/4-16	1.620	41.15	0.390	11/16	0.687	17.45	11/16	0.687	17.45	•		•	
6402-08-08-O	1/2	3/4-16	3/4-16	1.600	40.64	0.350	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
6402-10-08-O	5/8	7/8-14	3/4-16	1.705	43.31	0.410	1	1.00	25.40	7/8	0.875	22.23	•		•	
6402-10-10-O	5/8	7/8-14	7/8-14	1.970	50.04	0.430	1	1.000	25.40	1	1.000	25.40	•		•	
6402-12-12-O	3/4	1 1/16-12	1 1/16-12	2.160	54.86	0.500	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
6402-16-16-O	1	1 5/16-12	1 5/16-12	2.280	57.91	0.520	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
6402-20-20-O	1 1/4	1 5/8-12	1 5/8-12	2.415	61.34	0.600	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•		•	
6402-24-24-O	1 1/2	1 7/8-12	1 1/2-11 1/2	2.610	66.29	0.690	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•		•	
6402-32-32-O	2	2 1/2-12	2-11 1/2	2.905	73.79	0.845	2 3/4	2.75	69.85	2 7/8	2.875	73.03	•		•	

FORB-MP Straight 6404 Series



PART NO. SIZE	TUBE O.D.	B1 SAE ORB	A2 NPTF	L		W	C HEX	C HEX	M.M.	Standard Material From Stock						
				LGTH	M.M.					S	FG	SS	B			
NEW 6404-03-06													•			
6404-04-02	1/4	7/16-20	1/8-27	1.130	28.70	1.000	11/16	0.687	17.45	•		•				
6404-04-04	1/4	7/16-20	1/4-18	1.320	33.53	0.750	11/16	0.687	17.45	•		•				
6404-04-06	1/4	7/16-20	3/8-18	1.130	28.70	1.000	11/16	0.687	17.45	•		•				
6404-05-02	5/16	1/2-20	1/8-27	1.370	34.80	0.800	3/4	0.750	19.05	•		•				
6404-05-04	5/16	1/2-20	1/4-18	1.390	35.31	0.800	3/4	0.750	19.05	•		•				
6404-05-06	5/16	1/2-20	3/8-18	1.380	35.05	0.800	3/4	0.750	19.05	•		•				
6404-06-04	3/8	9/16-18	1/4-18	1.390	35.31	0.984	7/8	0.875	22.23	•		•				
6404-06-06	3/8	9/16-18	3/8-18	1.395	35.43	0.800	7/8	0.875	22.23	•		•				
6404-06-08	3/8	9/16-18	1/2-14	1.420	36.07	0.650	7/8	0.875	22.23	•		•				
NEW 6404-08-04																
6404-08-06	1/2	3/4-16	3/8-18	1.500	38.10	0.937	1	1.000	25.40	•		•				
6404-08-08	1/2	3/4-16	1/2-14	1.700	43.18	0.937	1	1.000	25.40	•		•				
6404-08-12	1/2	3/4-16	3/4-14	1.690	42.93	0.930	1 1/8	1.125	28.58	•		•				
6404-10-06	5/8	7/8-14	3/8-18	1.620	41.15	1.060	1 1/4	1.250	31.75	•		•				
6404-10-08	5/8	7/8-14	1/2-14	1.820	46.23	1.062	1 1/4	1.250	31.75	•		•				
6404-10-12	5/8	7/8-14	3/4-14	1.720	43.69	0.960	1 1/8	1.125	28.58	•		•				
6404-12-08	3/4	1 1/16-12	1/2-14	1.960	49.78	1.210	1 3/8	1.375	34.93	•		•				
6404-12-12	3/4	1 1/16-12	3/4-14	1.960	49.78	1.218	1 3/8	1.375	34.93	•		•				
6404-14-12	7/8	1 3/16-12	3/4-14	2.040	51.82	1.218	1 1/2	1.500	38.10	•		•				
6404-16-12	1	1 5/16-12	3/4-14	2.060	52.32	1.300	1 5/8	1.625	41.28	•		•				
6404-16-16	1	1 5/16-12	1-11 1/2	2.220	56.39	1.218	1 5/8	1.625	41.28	•		•				
6404-16-20	1	1 5/16-12	1 1/4-11 1/2	1.900	48.26	0.930	2	2.000	50.80	•		•				
6404-16-24	1 1/4	1 5/16-12	1 1/2-11 1/2	1.9	48.26	.906	2	2.00	50.80	•		•				
6404-20-16	1 1/4	1 5/8-12	1-11 1/2	2.210	56.13	1.250	2	2.000	50.80	•		•				
6404-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	2.340	59.44	1.281	2 1/8	2.125	53.98	•		•				
6404-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	2.300	58.42	1.281	2 1/4	2.250	57.15	•		•				
6404-32-32	2	2 1/2-12	2-11 1/2	2.660	67.56	1.281	2 7/8	2.875	73.03	•		•				

MORB-FP Straight 6405-O Series

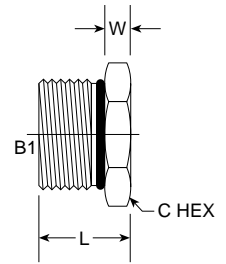


PART NO. SIZE	TUBE O.D.	B1 SAE ORB	A2 NPTF	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
6405-02-02-O	1/8	5/16-24	1/8-27	0.882	22.40	0.585	5/8	0.625	15.88	•			
6405-02-04-O	1/8	5/16-24	1/4-18	1.230	31.24	0.847	3/4	0.750	19.05	•			
6405-03-04-O	3/16	3/8-24	1/4-18	1.213	30.81	0.810	3/4	0.750	19.06	•			
6405-04-02-O	1/4	7/16-20	1/8-27	0.968	24.59	0.609	9/16	0.562	14.27	•			
6405-04-04-O	1/4	7/16-20	1/4-18	1.156	29.36	0.703	3/4	0.750	19.05	•		•	
6405-04-06-O	1/4	7/16-20	3/8-18	1.210	30.73	0.770	7/8	0.875	22.23	•		•	
6405-05-02-O	5/16	1/2-20	1/8-27	0.937	23.80	0.640	5/8	0.625	15.88	•		•	
6405-05-04-O	5/16	1/2-20	1/4-18	1.160	29.46	0.720	3/4	0.750	19.05	•		•	
6405-05-06-O	5/16	1/2-20	3/8-18	1.340	34.04	0.880	7/8	0.875	22.23	•			
6405-06-02-O	3/8	9/16-18	1/8-27	0.730	18.54	0.330	11/16	0.687	17.45	•			
6405-06-04-O	3/8	9/16-18	1/4-18	1.150	29.21	0.890	3/4	0.750	19.05	•		•	
6405-06-06-O	3/8	9/16-18	3/8-18	1.160	29.46	0.672	7/8	0.875	22.23	•		•	
6405-06-08-O	3/8	9/16-18	1/2-14	1.400	35.56	0.910	1 1/8	1.125	28.58	•		•	
6405-08-02-O	1/2	3/4-16	1/8-27	0.810	20.57	0.370	7/8	0.875	22.23	•		•	
6405-08-04-O	1/2	3/4-16	1/4-18	1.160	29.46	0.730	7/8	0.875	22.23	•		•	
6405-08-06-O	1/2	3/4-16	3/8-18	1.280	32.51	0.875	7/8	0.875	22.23	•		•	
6405-08-08-O	1/2	3/4-16	1/2-14	1.440	36.58	0.900	1 1/8	1.125	28.58	•		•	
6405-08-12-O	1/2	3/4-16	3/4-14	1.540	39.12	0.950	1 3/8	1.375	34.93	•		•	
6405-10-04-O	5/8	7/8-14	1/4-18	0.810	20.57	0.320	1	1.000	25.40	•		•	
6405-10-06-O	5/8	7/8-14	3/8-18	1.550	39.37	0.900	1 1/8	1.125	28.58	•		•	
6405-10-08-O	5/8	7/8-14	1/2-14	1.546	39.27	0.921	1 1/8	1.125	28.58	•		•	
6405-10-12-O	5/8	7/8-14	3/4-14	1.660	42.16	1.010	1 3/8	1.375	34.93	•		•	
6405-12-04-O	3/4	1 1/16-12	1/4-18	1.090	27.69	0.500	1 1/4	1.250	31.75	•		•	
6405-12-06-O	3/4	1 1/16-12	3/8-18	1.090	27.69	0.470	1 1/4	1.250	31.75	•		•	
6405-12-08-O	3/4	1 1/16-12	1/2-14	1.350	34.29	0.875	1 1/4	1.250	31.75	•		•	
6405-12-12-O	3/4	1 1/16-12	3/4-14	1.590	40.39	0.875	1 3/8	1.375	34.93	•		•	
6405-12-16-O	3/4	1 1/16-12	1-11 1/2	1.910	48.51	1.200	1 5/8	1.625	41.28	•		•	
6405-14-08-O	7/8	1 3/16-12	1/2-14	1.090	27.69	0.480	1 3/8	1.375	34.93	•		•	
6405-14-12-O	7/8	1 3/16-12	3/4-14	1.593	40.46	1.000	1 3/8	1.375	34.93	•		•	
6405-14-16-O	7/8	1 3/16-12	1-11 1/2	1.900	48.26	1.180	1 5/8	1.625	41.28	•		•	
6405-16-04-O	1	1 5/16-12	1/4-18	1.136	28.85	0.520	1 1/2	1.500	38.10	•		•	
6405-16-06-O	1	1 5/16-12	3/8-18	1.130	28.70	0.520	1 1/2	1.500	38.10	•		•	
6405-16-08-O	1	1 5/16-12	1/2-14	1.610	40.89	0.900	1 1/2	1.500	38.10	•		•	
6405-16-12-O	1	1 5/16-12	3/4-14	1.510	38.35	0.875	1 1/2	1.500	38.10	•		•	
6405-16-16-O	1	1 5/16-12	1-11 1/2	1.843	46.81	1.080	1 5/8	1.625	41.28	•		•	
6405-16-20-O	1	1 5/16-12	1 1/4-11 1/2	2.270	57.66	1.510	2	2.000	50.80	•		•	
6405-16-24-O	1	1 5/16-12	1 1/2-11 1/2	2.280	57.91	1.520	2 3/8	2.375	60.33	•		•	
6405-20-08-O	1 1/4	1 5/8-12	1/2-14	1.196	30.38	0.605	1 7/8	1.875	47.63	•		•	
6405-20-12-O	1 1/4	1 5/8-12	3/4-14	1.190	30.23	0.620	1 7/8	1.875	47.63	•		•	
6405-20-16-O	1 1/4	1 5/8-12	1-11 1/2	1.000	25.40	0.400	1 7/8	1.875	47.63	•		•	
6405-20-20-O	1 1/4	1 5/8-12	1 1/4-11 1/2	1.875	47.63	1.125	2	2.000	50.80	•		•	
6405-20-24-O	1 1/4	1 5/8-12	1 1/2-11 1/2	2.280	57.91	1.540	2 3/8	2.375	60.33	•		•	
6405-20-32-O	1 1/4	1 5/8-12	2-11 1/2	2.250	57.15	1.500	2 7/8	2.875	73.03	•		•	
NEW 6405-24-04-O										•			
6405-24-12-O	1 1/2	1 7/8-12	3/4-14	1.000	25.40	0.690	2 1/8	2.125	53.98	•		•	
6405-24-16-O	1 1/2	1 7/8-12	1-11 1/2	1.000	25.40	0.420	2 1/8	2.125	53.98	•		•	
6405-24-20-O	1 1/2	1 7/8-12	1 1/4-11 1/2	2.120	53.85	1.520	2 1/8	2.125	53.98	•		•	
6405-24-24-O	1 1/2	1 7/8-12	1 1/2-11 1/2	2.140	54.36	1.390	2 3/8	2.375	60.33	•		•	
6405-32-16-O	2	2 1/2-12	1-11 1/2	1.434	36.42	0.838	2 3/4	2.750	69.85	•		•	
6405-32-20-O	2	2 1/2-12	1 1/4-11 1/2	2.000	50.80	1.400	2 3/4	2.750	69.85	•		•	
6405-32-24-O	2	2 1/2-12	1 1/2-11 1/2	2.000	50.80	1.400	2 3/4	2.750	69.85	•		•	
6405-32-32-O	2	2 1/2-12	2-11 1/2	2.240	56.90	1.640	2 7/8	2.875	73.03	•		•	

Tube Fittings & Adapters

MORB External Hex Plug 6408-O Series

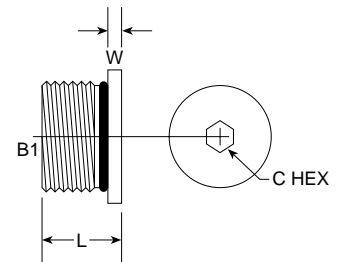
SAE# 090109A



PART NO. SIZE	TUBE O.D.	B1 SAE ORB	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
									S	FG	SS	B
6408-02-O	1/8	5/16-24	0.600	15.24	0.300	7/16	0.438	11.13	•		•	
6408-03-O	3/16	3/8-24	0.600	15.24	0.300	1/2	0.500	12.70	•		•	
6408-04-O	1/4	7/16-20	0.670	17.02	0.280	9/16	0.562	14.27	•		•	
6408-05-O	5/16	1/2-20	0.670	17.02	0.280	5/8	0.625	15.88	•		•	
6408-06-O	3/8	9/16-18	0.730	18.54	0.310	11/16	0.687	17.45	•		•	
6408-08-O	1/2	3/4-16	0.800	20.32	0.340	7/8	0.875	22.23	•		•	
6408-10-O	5/8	7/8-14	0.940	23.88	0.410	1	1.000	25.40	•		•	
6408-12-O	3/4	1 1/16-12	1.090	27.69	0.470	1 1/4	1.250	31.75	•		•	
6408-14-O	7/8	1 3/16-12	1.090	27.69	0.470	1 3/8	1.375	34.93	•		•	
6408-16-O	1	1 5/16-12	1.130	28.70	0.500	1 1/2	1.500	38.10	•		•	
6408-20-O	1 1/4	1 5/8-12	1.200	30.48	0.580	1 7/8	1.875	47.63	•		•	
6408-24-O	1 1/2	1 7/8-12	1.270	32.26	0.650	2 1/8	2.125	53.98	•		•	
6408-32-O	2	2 1/2-12	1.440	36.58	0.810	2 3/4	2.750	69.85	•		•	

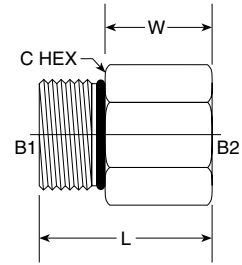
MORB Hollow Hex Plug 6408-H-O Series

SAE# 090109B



PART NO. SIZE	TUBE O.D.	B1 SAE ORB	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
									S	FG	SS	B
6408-H-02-O	1/8	5/16-24	0.380	9.65	0.108	1/8	0.125	3.18	•		•	
6408-H-03-O	3/16	3/8-24	0.380	9.65	0.108	1/8	0.125	3.18	•		•	
6408-H-04-O	1/4	7/16-20	0.450	11.43	0.115	3/16	0.188	4.76	•		•	
6408-H-05-O	5/16	1/2-20	0.450	11.43	0.115	3/16	0.188	4.76	•		•	
6408-H-06-O	3/8	9/16-18	0.490	12.45	0.115	1/4	0.250	6.35	•		•	
6408-H-08-O	1/2	3/4-16	0.560	14.22	0.147	5/16	0.312	7.92	•		•	
6408-H-10-O	5/8	7/8-14	0.630	16.00	0.155	3/8	0.375	9.53	•		•	
6408-H-12-O	3/4	1 1/16-12	0.760	19.30	0.181	9/16	0.562	14.27	•		•	
6408-H-14-O	7/8	1 3/16-12	0.760	19.30	0.181	9/16	0.562	14.27	•		•	
6408-H-16-O	1	1 5/16-12	0.760	19.30	0.181	7/8	0.875	22.23	•		•	
6408-H-20-O	1 5/8	1 5/8-12	0.760	19.30	0.181	3/4	0.750	19.05	•		•	
6408-H-24-O	1 1/2	1 7/8-12	0.760	19.30	0.181	3/4	0.750	19.05	•		•	
6408-H-32-O	2	2 1/2-12	0.760	19.30	0.181	3/4	0.750	19.05	•		•	

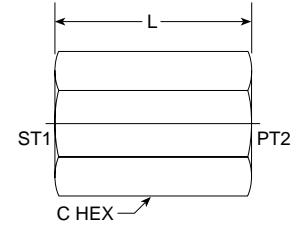
MORB-FORB Straight Reducer 6410-O Series



PART NO. SIZE	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
6410-03-04-O	3/16	3/8-24	7/16-20	1.182	30.02	0.80	11/16	0.687	17.46	•			
6410-04-02-O	1/4	7/16-20	5/16-24	0.688	17.48	0.304	9/16	0.562	14.28	•			
6410-04-04-O	1/4	7/16-20	7/16-20	1.085	27.56	0.720	5/8	0.625	15.88	•			
6410-04-05-O	1/4	7/16-20	1/2-20	1.085	27.56	0.630	3/4	0.750	19.05	•		•	
6410-04-06-O	1/4	7/16-20	9/16-18	1.160	29.46	0.687	13/16	0.812	20.62	•		•	
6410-04-08-O	1/4	7/16-20	3/4-16	1.394	35.41	0.943	1 1/16	1.062	26.99	•			
6410-05-04-O	5/16	1/2-20	7/16-20	1.220	30.99	0.860	5/8	0.625	15.88	•			
NEW 6410-05-06-O										•			
6410-06-04-O	3/8	9/16-18	7/16-20	1.030	26.16	0.578	11/16	0.687	17.45	•		•	
6410-06-06-O	3/8	9/16-18	9/16-18	1.219	30.96	0.741	13/16	0.812	20.63	•			
6410-06-08-O	3/8	9/16-18	3/4-16	1.390	35.31	0.787	1 1/16	1.062	26.97	•		•	
6410-08-03-O	1/2	3/4-16	3/8-24	0.800	20.32	0.375	7/8	0.875	22.23	•			
6410-08-04-O	1/2	3/4-16	7/16-20	0.810	20.57	0.375	7/8	0.875	22.23	•		•	
6410-08-05-O	1/2	3/4-16	1/2-20	0.806	20.47	0.367	7/8	0.875	22.22	•			
6410-08-06-O	1/2	3/4-16	9/16-18	1.160	29.46	0.625	7/8	0.875	22.23	•		•	
6410-08-08-O	1/2	3/4-16	3/4-16	1.390	35.31	0.810	1	1.000	25.40	•		•	
6410-08-10-O	1/2	3/4-16	7/8-14	1.480	37.59	0.904	1 1/8	1.125	28.58	•		•	
6410-08-12-O	1/2	3/4-16	1 1/16-12	1.650	41.91	1.040	1 3/8	1.375	34.93	•		•	
6410-10-04-O	5/8	7/8-14	7/16-20	0.940	23.88	0.417	1	1.000	25.40	•			
6410-10-05-O	5/8	7/8-14	1/2-20	0.940	23.88	0.439	1	1.000	25.40	•			
6410-10-06-O	5/8	7/8-14	9/16-18	0.940	23.88	0.317	1	1.000	25.40	•		•	
6410-10-08-O	5/8	7/8-14	3/4-16	1.310	33.27	0.750	1	1.000	25.40	•		•	
6410-10-12-O	5/8	7/8-14	1 1/16-12	1.660	42.16	1.060	1 3/8	1.375	34.93	•		•	
6410-12-04-O	3/4	1 1/16-12	7/16-20	1.090	27.69	0.510	1 1/4	1.250	31.75	•		•	
6410-12-06-O	3/4	1 1/16-12	9/16-18	1.090	27.69	0.510	1 1/4	1.250	31.75	•		•	
6410-12-08-O	3/4	1 1/16-12	3/4-16	1.090	27.69	0.470	1 1/4	1.250	31.75	•		•	
6410-12-10-O	3/4	1 1/16-12	7/8-14	1.560	39.62	0.843	1 1/4	1.250	31.75	•		•	
6410-12-12-O	3/4	1 1/16-12	1 1/16-12	1.770	44.96	1.200	1 3/8	1.375	34.93	•		•	
6410-12-14-O	3/4	1 1/16-12	1 3/16-12	1.710	43.43	0.980	1 1/2	1.500	38.10	•			
6410-12-16-O	3/4	1 1/16-12	1 5/16-12	1.810	45.97	1.200	1 1/2	1.500	38.10	•		•	
6410-12-20-O	3/4 1 1/4	1 1/16-12	1 5/8-12	2.000	50.80	1.280	2	2.000	50.80	•		•	
6410-14-08-O	7/8	13/16-12	3/4-16	1.080	27.43	0.510	1 3/8	1.375	34.93	•			
6410-14-10-O	7/8	1 3/16-12	7/8-14	1.090	27.69	0.487	1 3/8	1.375	34.93	•			
6410-14-12-O	7/8	1 3/16-12	1 1/16-12	1.710	43.43	1.000	1 3/8	1.375	34.93	•		•	
6410-14-16-O	7/8 1	1 3/16-12	1 5/16-12	1.750	44.45	1.150	1 1/2	1.500	38.10	•			
6410-16-04-O	1 1/4	1 5/16-12	7/16-20	1.130	28.70	0.520	1 1/2	1.500	38.10	•		•	
6410-16-06-O	1	1 5/16-12	9/16-18	1.130	28.70	0.520	1 1/2	1.500	38.10	•		•	
6410-16-08-O	1	1 5/16-12	3/4-16	1.730	43.94	0.500	1 1/2	1.500	38.10	•		•	
6410-16-10-O	1	1 5/16-12	7/8-14	1.130	28.70	0.520	1 1/2	1.500	38.10	•			
6410-16-12-O	1	1 5/16-12	1 1/16-12	1.710	43.43	1.000	1 1/2	1.500	38.10	•		•	
6410-16-14-O	1	1 5/16-12	1 3/16-12	1.710	43.43	1.000	1 1/2	1.500	38.10	•			
NEW 6410-16-16-O										•			
6410-16-20-O	1	1 5/16-12	1 5/8-12	2.140	54.36	1.410	2 1/8	2.125	53.98	•		•	
6410-16-24-O	1 1 1/2	1 5/16-12	1 7/8-12	2.090	53.09	1.350	2 1/4	2.250	57.15	•			
6410-20-06-O	1 1/4	1 5/8-12	9/16-18	1.200	30.48	0.580	1 7/8	1.875	47.63	•		•	
6410-20-08-O	1 1/4	1 5/8-12	3/4-16	1.200	30.48	0.580	1 7/8	1.875	47.63	•		•	
6410-20-10-O	1 1/4	1 5/8-12	7/8-14	1.200	30.48	0.580	1 7/8	1.875	47.63	•		•	
6410-20-12-O	1 1/4	1 5/8-12	1 1/16-12	1.000	25.40	0.580	1 7/8	1.875	47.63	•		•	
6410-20-16-O	1 1/4	1 5/8-12	1 5/16-12	1.190	30.23	0.580	1 7/8	1.875	47.63	•		•	
6410-20-24-O	1 1/4	1 5/8-12	1 7/8-12	1.890	48.01	1.120	2 1/4	2.250	57.15	•		•	
6410-24-06-O	1 1/2	1 7/8-12	9/16-18	1.270	32.26	0.625	2 1/8	2.125	53.98	•		•	
6410-24-12-O	1 1/2	1 7/8-12	1 1/16-12	1.000	25.40	0.410	2 1/8	2.125	53.98	•		•	
6410-24-16-O	1 1/2	1 7/8-12	1 5/16-12	1.000	25.40	0.410	2 1/8	2.125	53.98	•		•	
6410-24-20-O	1 1/2	1 7/8-12	1 5/8-12	1.580	40.13	1.000	2 1/8	2.125	53.98	•		•	
6410-32-12-O	2	2 1/2-12	1 1/16-12	1.000	25.40	0.410	2 3/4	2.750	69.85	•			
6410-32-16-O	2	2 1/2-12	1 5/16-12	1.000	25.40	0.410	2 3/4	2.750	69.85	•			
6410-32-20-O	2	2 1/2-12	1 5/8-12	1.000	25.40	0.410	2 3/4	2.750	69.85	•			
6410-32-24-O	2	2 1/2-12	1 7/8-12	1.440	36.58	0.810	2 3/4	2.750	69.85	•		•	
NEW 6410-40-24-O										•			

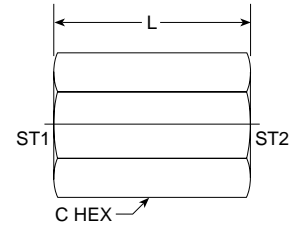
Tube Fittings & Adapters

FORB-FP Straight 6420 Series



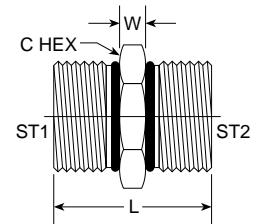
	PART NO. SIZE	TUBE O.D.	ST1	PT2	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
										S	FG	SS	B	
NEW	6420-06-06													
NEW	6420-08-08													
NEW	6420-10-08													

FORB-FORB Straight 6425 Series



	PART NO. SIZE	TUBE O.D.	ST1	ST2	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
										S	FG	SS	B	
NEW	6425-08-08													
NEW	6425-10-10													

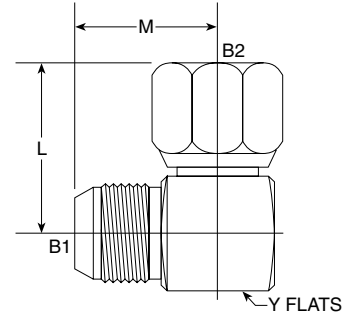
MORB-MORB Straight 6464 Series



	PART NO. SIZE	TUBE O.D.	ST1	ST2	L LGTH	M.M.	W LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
												S	FG	SS	B
NEW	6464-08-08-0														
NEW	6464-20-20-0														

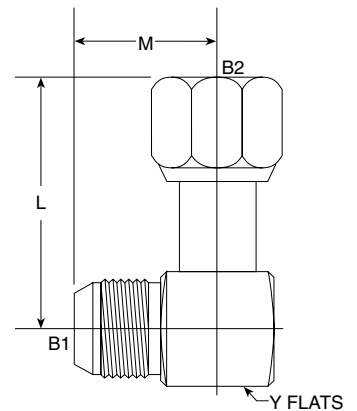
MJ-FJS 90° 6500 Series

SAE # 070221



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6500-02-02	1/8	5/16-24	5/16-24	0.970	24.64	0.770	19.56	7/16	0.437	11.10				
6500-03-03	3/16	3/8-24	3/8-24	1.000	25.40	0.830	21.08	7/16	0.437	11.10	•			
6500-04-04	1/4	7/16-20	7/16-20	1.000	25.40	0.890	22.61	1/2	0.500	12.70	•			
6500-06-04	3/8	9/16-18	7/16-20	1.240	31.50	1.060	26.92	9/16	0.560	14.27	•			
6500-05-05	5/16	1/2-20	1/2-20	1.060	26.92	0.950	24.13	9/16	0.562	14.27	•			
6500-05-06	5/16	1/2-20	9/16-18	1.220	30.99	1.020	25.91	9/16	0.562	14.27	•			
6500-06-04	3/8	9/16-18	7/16-20	1.240	31.50	1.060	26.92	9/16	0.560	14.27	•			
6500-06-06	3/8	9/16-18	9/16-18	1.250	31.75	1.060	26.92	5/8	0.625	15.88	•			
6500-06-08	3/8	9/16-18	3/4-16	1.360	34.54	1.160	29.46	13/16	0.812	20.62	•			
6500-08-06	1/2	3/4-16	9/16-18	1.320	33.53	1.250	31.75	13/16	0.812	20.62	•			
6500-08-08	1/2	3/4-16	3/4-16	1.380	35.05	1.250	31.75	13/16	0.812	20.62	•			
6500-08-10	1/2	3/4-16	7/8-14	1.620	41.15	1.300	33.02	15/16	0.937	23.80	•			
6500-08-12	1/2	3/4-16	1 1/16-12	1.740	44.20	1.410	35.81	1 1/8	1.125	28.58	•			
6500-10-08	5/8	7/8-14	3/4-16	1.470	37.34	1.450	36.83	13/16	0.812	20.62	•			
6500-10-10	5/8	7/8-14	7/8-14	1.620	41.15	1.450	36.83	15/16	0.937	23.80	•			
6500-10-12	5/8	7/8-14	1 1/16-12	1.780	45.21	1.530	38.86	1 1/8	1.125	28.58	•			
6500-12-08	3/4	1 1/16-12	3/4-16	1.550	39.37	1.650	41.91	1 1/8	1.125	28.58	•			
6500-12-10	3/4	1 1/16-12	7/8-14	1.730	43.94	1.650	41.91	1 1/8	1.125	28.58	•			
6500-12-12	3/4	1 1/16-12	1 1/16-12	1.750	44.45	1.660	42.16	1 1/8	1.125	28.58	•			
6500-12-16	3/4 1	1 1/16-12	1 5/16-12	2.030	51.56	1.780	45.21	1 3/8	1.375	34.93	•			
6500-14-14	7/8	1 3/16-12	1 3/16-12	1.780	45.21	1.730	43.94	1 1/4	1.250	31.75	•			
6500-16-12	1	1 5/16-12	1 1/16-12	1.950	49.53	1.810	45.97	1 5/16	1.310	33.32	•			
6500-16-16	1	1 5/16-12	1 5/16-12	2.000	50.80	1.810	45.97	1 3/8	1.375	34.93	•			
6500-20-20	1 1/4	1 5/8-12	1 5/8-12	2.310	58.67	2.000	50.80	1 3/4	1.750	44.45	•			
6500-24-24	1 1/2	1 7/8-12	1 7/8-12	2.590	65.79	2.330	84.58	2	2.000	50.80	•			
6500-32-32	2	2 1/2-12	2 1/2-12	3.380	85.85	3.060	77.72	2 5/8	2.625	66.68	•			

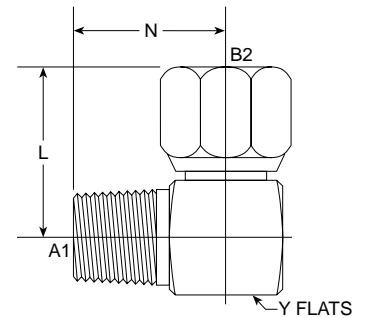
MJ-FJS 90° Long 6500-L Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6500-L-04-04	1/4	7/16-20	7/16-20	2.160	54.86	0.890	22.61	1/2	0.500	12.70	•			
6500-L-06-06	3/8	9/16-18	9/16-18	2.540	64.52	1.060	26.92	5/8	0.625	15.88	•			
6500-L-08-08	1/2	3/4-16	3/4-16	2.810	71.37	1.250	31.75	13/16	0.812	20.62	•			
6500-L-10-10	5/8	7/8-14	7/8-14	3.070	77.98	1.450	36.83	15/16	0.937	23.80	•			
6500-L-12-12	3/4	1 1/16-12	1 1/16-12	4.300	109.22	1.660	42.16	1 1/8	1.125	28.58	•			
6500-L-16-16	1	1 5/16-12	1 5/16-12	5.000	127.00	1.810	45.97	1 3/8	1.375	34.93	•			

Tube Fittings & Adapters

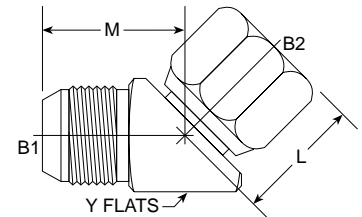
MP-FJS 90° 6501 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	B2 SAE 37	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6501-02-04	1/4	1/8-27	7/16-20	0.780	19.81	1.000	25.40	1/2	0.500	12.70	•	•	•	
6501-02-05	5/16	1/8-27	1/2-20	0.780	19.81	1.000	25.40	9/16	0.562	14.27	•	•	•	
6501-04-04	1/4	1/18	7/16-20	1.110	28.19	1.110	28.19	5/8	0.625	15.88	•	•	•	
6501-04-05	5/16	1/4-18	7/16-20	1.110	28.19	1.090	27.69	5/8	0.625	15.88	•	•	•	
6501-04-06	3/8	1/4-18	9/16-18	1.090	27.69	1.250	31.75	5/8	0.625	15.88	•	•	•	
6501-06-04	1/4	3/8-18	7/16-20	1.110	28.19	1.130	28.70	5/8	0.625	15.88	•	•	•	
6501-06-06	3/8	3/8-18	9/16-18	1.220	30.99	1.330	33.78	13/16	0.812	20.62	•	•	•	
6501-06-08	1/2	3/8-18	3/4-16	1.220	30.99	1.380	35.05	13/16	0.812	20.62	•	•	•	
6501-08-06	3-8	1/2-14	9/16-18	1.470	37.34	1.370	34.80	15/16	0.937	23.80	•	•	•	
6501-08-08	1/2	1/2-14	3/4-16	1.470	37.34	1.470	37.34	15/16	0.937	23.80	•	•	•	
6501-08-10	5/8	1/2-14	7/8-14	1.470	37.34	1.620	41.15	15/16	0.937	23.80	•	•	•	
6501-12-12	3/4	3/4-14	1 1/16-12	1.590	40.39	1.750	44.45	1 1/8	1.125	28.58	•	•	•	
6501-12-14	7/8	3/4-14	1 3/16-12	1.690	42.93	1.780	45.21	1 1/4	1.250	31.75	•	•	•	
6501-16-16	1	1-11 1/2	1 5/16-12	1.970	50.04	2.000	50.80	1 3/8	1.375	34.93	•	•	•	
6501-20-20	1 1/4	1 1/4-11 1/2	1 5/8-12	2.380	60.45	2.310	58.67	1 3/8	1.375	34.93	•	•	•	
6501-24-24	1 1/2	1 1/2-11 1/2	1 7/8-12	2.640	67.06	2.590	65.79	2	2.000	50.80	•	•	•	
6501-32-32	2	2-11 1/2	2 1/2-12	3.000	76.20	3.380	85.85	2 5/8	2.625	66.68	•	•	•	

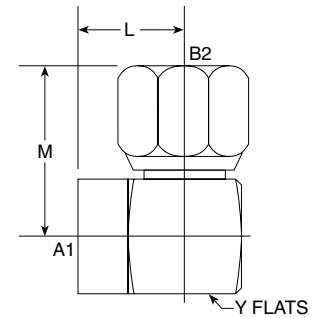
MJ-FJS 45° 6502 Series

SAE# 070321 / MS# 51522



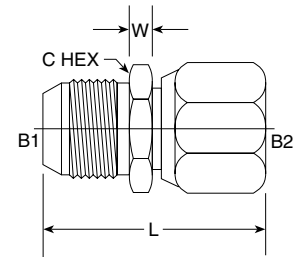
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6502-02-02	1/8	5/16-24	5/16-24	0.940	23.88	0.690	17.53	7/16	0.437	11.10			•	
6502-04-04	1/4	7/16-20	7/16-20	0.720	18.29	0.940	23.88	1/2	0.500	12.70	•	•	•	
6502-05-05	5/16	1/2-20	1/2-20	0.770	19.56	1.000	25.40	9/16	0.562	14.27	•	•	•	
6502-06-06	3/8	9/16-18	9/16-18	0.830	21.08	1.120	28.45	5/8	0.625	15.88	•	•	•	
6502-08-08	1/2	3/4-16	3/4-16	0.980	24.89	1.280	32.51	1 3/16	1.188	30.16	•	•	•	
6502-10-08	5/8	7/8-14	3/4-16	1.220	30.99	1.210	30.73	15/16	0.937	23.80	•	•	•	
6502-10-10	5/8	7/8-14	7/8-14	1.110	28.19	1.440	36.58	15/16	0.937	23.80	•	•	•	
6502-12-12	3/4	1 1/16-12	1 1/16-12	1.280	32.51	1.500	38.10	1 1/8	1.125	28.58	•	•	•	
6502-14-14	7/8	1 3/16-12	1 3/16-12	1.390	35.31	1.620	41.15	1 1/4	1.250	31.75	•	•	•	
6502-16-16	1	1 5/16-12	1 5/16-12	1.470	37.34	1.750	44.45	1 3/8	1.375	34.93	•	•	•	
6502-20-20	1 1/4	1 5/8-12	1 5/8-12	1.590	40.39	2.030	51.56	1 3/4	1.750	44.45	•	•	•	
6502-24-24	1 1/2	1 7/8-12	1 7/8-12	1.780	45.21	2.250	57.15	2	2.000	50.80	•	•	•	
6502-32-32	2	2 1/2-12	2 1/2-12	2.220	56.39	2.910	73.91	2 5/8	2.625	66.68	•	•	•	

FP-FJS 90° 6503 Series



PART NO. SIZE	TUBE O.D.	A1 SAE 37	B2 SAE 37	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6503-04-04	1/4	1/4-18	7/16-20	0.870	22.10	1.130	28.70	3/4	0.750	19.05	•	•	•	
6503-04-05	5/16	1/4-18	1/2-20	0.840	21.34	1.390	35.31	3/4	0.750	19.05	•	•	•	
6503-04-06	3/8	1/4-18	9/16-18	0.870	22.10	1.290	32.77	3/4	0.750	19.05	•	•	•	
6503-06-06	3/8	3/8-18	9/16-18	1.020	25.91	1.360	34.54	7/8	0.875	22.23	•	•	•	
6503-06-08	1/2	3/8-18	3/4-16	1.020	25.91	1.430	36.32	7/8	0.875	22.23	•	•	•	
6503-08-08	1/2	1/2-14	3/4-16	1.240	31.50	1.540	39.12	1 1/8	1.125	28.58	•	•	•	
6503-08-10	5/8	1/2-14	7/8-14	1.240	31.50	1.730	43.94	1 1/8	1.125	28.58	•	•	•	
6503-12-12	3/4	3/4-14	1 1/16-12	1.360	34.54	1.860	47.24	1 3/8	1.375	34.93	•	•	•	

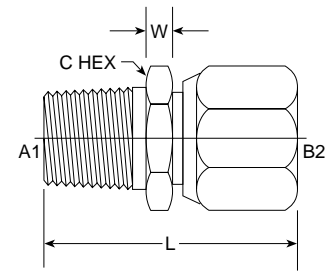
MJ-FJS Straight 6504 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
NEW 6504-04-04	1/4	7/16-20	7/16-20	1.440	36.58	0.258	1/2	0.500	12.70	•		•	
6504-05-05										•			
6504-06-06	3/8	9/16-18	9/16-18	1.590	40.39	0.279	5/8	0.625	15.88	•		•	
6504-08-08	1/2	3/4-16	3/4-16	1.750	44.45	0.279	13/16	0.812	20.62	•		•	
6504-10-10	5/8	7/8-14	7/8-14	2.170	55.12	0.379	15/16	0.937	23.80	•		•	
6504-12-12	3/4	1 1/16-12	1 1/16-12	2.270	57.66	0.390	1 1/8	1.125	28.58	•		•	
6504-16-16	1	1 5/16-12	1 5/16-12	2.500	63.50	0.421	1 3/8	1.375	34.90	•		•	
6504-20-20	1 1/4	1 5/8-12	1 5/8-12	2.700	68.58	0.500	1 11/16	1.687	42.86	•		•	
NEW 6504-24-24										•			

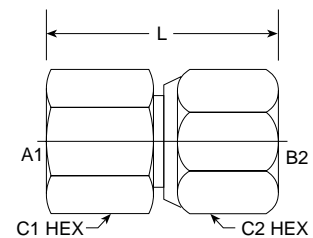
Tube Fittings & Adapters

MP-FJS Straight 6505 Series



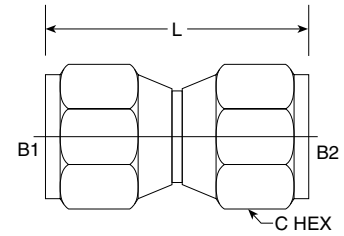
PART NO. SIZE	TUBE O.D.	A1 NPTF	B2 SAE 37	L LGTH	M.M.	W WIDTH	C HEX	C HEX	M.M.	Standard Material From Stock			
										S	FG	SS	B
NEW 6505-02-04	1/4	1/8-27	7/16-20	1.350	34.29	0.360	7/16	0.438	11.13	•		•	
6505-02-05	1/4	1/4-18	7/16-20	1.450	36.83	0.270	9/16	0.562	14.27	•		•	
6505-04-04	1/4	1/4-18	7/16-20	1.410	35.81	0.270	5/8	0.625	15.88	•		•	
6505-04-05	3/8	1/4-18	9/16-18	1.600	40.64	0.270	11/16	0.687	17.45	•		•	
6505-04-06	3/8	3/8-18	9/16-18	1.720	43.69	0.400	3/4	0.750	19.05	•		•	
6505-06-06	1/2	3/8-18	3/4-16	1.730	43.94	0.350	7/8	0.875	22.23	•		•	
6505-06-08	5/8	3/8-18	7/8-14	1.793	45.54	0.380	1	1.000	25.40	•		•	
6505-08-08	1/2	1/2-14	3/4-16	1.910	48.51	0.340	7/8	0.875	22.23	•		•	
6505-08-10	5/8	1/2-14	7/8-14	2.280	57.91	0.470	1	1.000	25.40	•		•	
6505-08-12	3/4	1/2-14	1 1/16-12	2.174	55.22	0.430	1	1.000	25.40	•		•	
6505-12-10	5/8	3/4-14	7/8-14	1.930	49.02	0.340	1 1/16	1.062	26.97	•		•	
6505-12-12	3/4	3/4-14	1 1/16-12	2.270	57.66	0.430	1 1/8	1.125	28.58	•		•	
NEW 6505-12-14	1	3/4-14	1 5/16-12	2.400	60.96	0.390	1 1/4	1.250	31.75	•		•	
6505-12-16	1	1-11 1/2	1 5/16-12	2.550	64.77	0.440	1 1/2	1.500	38.10	•		•	
6505-16-16	1 1/4	1 1/4-11 1/2	1 5/8-12	2.650	67.31	0.400	1 11/16	1.688	42.86	•		•	
6505-20-20	1 1/2	1 1/2-11 1/2	1 7/8-12	2.930	74.42	0.580	2	2.000	50.80	•		•	
6505-24-24	2	2-11 1/2	2 1/2-12	3.320	84.33	0.720	2 1/2	2.500	63.50	•		•	

FP-FJS Straight 6506 Series



PART NO. SIZE	TUBE O.D.	A1 NPTF	B2 SAE 37	L LGTH	M.M.	C1 HEX	C1 HEX	M.M.	C2 HEX	C2 HEX	M.M.	Standard Material From Stock			
												S	FG	SS	B
6506-02-04	1/4	1/8-27	7/16-20	1.200	30.48	9/16	0.562	14.29	9/16	0.562	14.28	•		•	
6506-04-04	1/4	1/4-18	7/16-20	1.320	33.53	11/16	0.687	17.45	9/16	0.562	14.28	•		•	
6506-04-05	5/16	1/4-18	1/2-20	1.660	42.16	3/4	0.750	19.05	5/8	0.625	15.87	•		•	
6506-04-06	3/8	1/4-18	9/16-18	1.480	37.59	11/16	0.687	17.45	11/16	0.687	20.63	•		•	
NEW 6506-06-04	3/8	3/8-18	9/16-18	1.630	41.40	7/8	0.875	22.23	11/16	0.687	20.63	•		•	
6506-06-06	1/2	3/8-18	3/4-16	1.700	43.18	7/8	0.875	22.23	7/8	0.875	22.22	•		•	
6506-06-08	5/8	3/8-18	7/8-14	2.000	50.80	1	1.000	25.40	1	1.000	25.40	•		•	
6506-08-06	3/8	1/2-14	9/16-18	1.810	45.97	1 1/16	1.062	26.98	11/16	0.687	20.63	•		•	
6506-08-08	1/2	1/2-14	3/4-16	1.810	45.97	1	1.000	25.40	7/8	0.875	22.22	•		•	
6506-08-10	5/8	1/2-14	7/8-14	2.080	52.83	1 1/8	1.125	28.58	1	1.000	25.40	•		•	
6506-08-12	3/4	1/2-14	1 1/16-12	2.170	55.12	1 1/8	1.125	28.58	1 1/4	1.250	31.75	•		•	
6506-12-10	5/8	3/4-14	7/8-14	1.940	49.28	1 1/4	1.250	31.75	1	1.000	25.40	•		•	
6506-12-12	3/4	3/4-14	1 1/16-12	2.080	52.83	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
6506-12-14	7/8	3/4-14	1 3/16-12	2.120	53.85	1 5/16	1.312	33.32	1 3/8	1.375	34.93	•		•	
6506-12-16	1	3/4-14	1 5/16-12	2.330	59.18	1 3/8	1.375	34.92	1 1/2	1.500	38.10	•		•	
6506-16-16	1	1-11 1/2	1 5/16-12	2.620	66.55	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
6506-20-20	1 1/4	1 1/4-11 1/2	1 5/8-12	2.740	69.60	2	2.000	50.80	2	2.000	50.80	•		•	
6506-24-24	1 1/2	1 1/2-11 1/2	1 7/8-12	2.820	71.63	2 3/8	2.375	60.33	2 1/4	2.250	57.15	•		•	
6506-32-32	2	2-11 1/2	2 1/2-12	3.150	80.01	2 7/8	2.875	73.03	2 7/8	2.875	73.02	•		•	

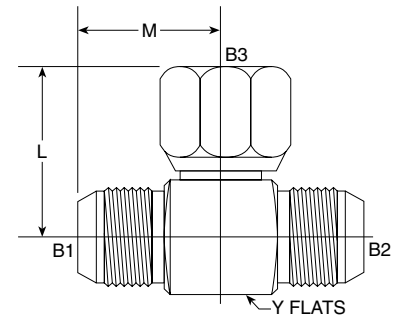
FJS-FJS Straight 6565 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
								S	FG	SS	B	
6565-04-04	1/4	7/16-20	7/16-20	1.260	32.00	9/16	0.562	14.28	•		•	
6565-06-06	3/8	9/16-18	9/16-18	1.330	33.78	11/16	0.688	17.46	•			
6565-08-08	1/2	3/4-16	3/4-16	1.660	42.16	7/8	0.875	22.22	•			
6565-10-10	5/8	7/8-14	7/8-14	1.900	48.26	1	1.000	25.40	•			
6565-12-12	3/4	1 1/16-12	1 1/16-12	2.330	59.18	1 1/4	1.250	31.75	•			
6565-16-16	1	1 5/16-12	1 5/16-12	2.630	66.80	1 1/2	1.500	38.10	•			
6565-20-20	1 1/4	1 5/8-12	1 5/8-12	2.660	67.56	2	2.000	50.80	•			
6565-24-24	1 1/2	1 7/8-12	1 7/8-12	2.880	73.15	2 1/4	2.250	57.15	•			

MJ-MJ-FJS Tee 6600 Series

SAE # 070433 / MS # 51524

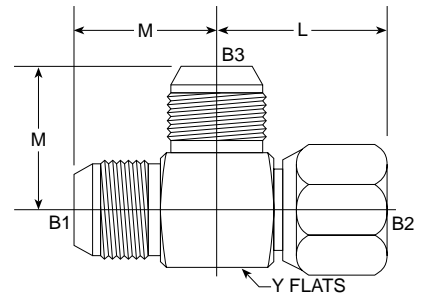


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	L LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
										S	FG	SS	B		
6600-02-02-02	1/8	5/16-24	5/16-24	5/16-24	0.970	24.64	0.770	19.56	7/16	0.437	11.10			•	
6600-03-03-03	3/16	3/8-24	3/8-24	3/8-24	1.000	25.40	0.830	21.08	7/16	0.438	11.13			•	
6600-04-04-04	1/4	7/16-20	7/16-20	7/16-20	1.000	25.40	0.890	22.61	1/2	0.500	12.70	•	•	•	
6600-05-05-05	5/16	1/2-20	1/2-20	1/2-20	1.060	26.92	0.950	24.13	9/16	0.562	14.27	•	•	•	
6600-06-06-06	3/8	9/16-18	9/16-18	9/16-18	1.250	31.75	1.060	26.92	5/8	0.625	15.88	•	•	•	
NEW 6600-06-06-08												•			
6600-08-08-08	1/2	3/4-16	3/4-16	3/4-16	1.380	35.05	1.250	31.75	13/16	0.812	20.62	•	•	•	
6600-10-10-10	5/8	7/8-14	7/8-14	7/8-14	1.620	41.15	1.450	36.83	15/16	0.937	23.80	•	•	•	
NEW 6600-12-12-10												•			
6600-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.750	44.45	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6600-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	1.780	45.21	1.730	43.94	1 1/4	1.250	31.75	•			
6600-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	2.000	50.80	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6600-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	2.310	58.67	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6600-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	2.590	65.79	2.330	59.18	2	2.000	50.80	•	•	•	
6600-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	3.380	85.85	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

Tube Fittings & Adapters

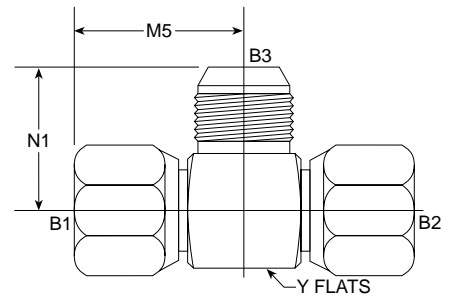
MJ-FJS-MJ Tee 6602 Series

SAE# 070432 / MS# 51523



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	L LGTH M.M.	M LGTH M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock						
									S	FG	SS	B			
6602-03-03-03	3/16	3/8-24	3/8-24	3/8-24	1.000	25.40	0.830	21.08	7/16	0.438	11.13		•		
6602-04-04-04	1/4	7/16-20	7/16-20	7/16-20	1.000	25.40	0.890	22.61	1/2	0.500	12.70	•	•	•	
6602-05-05-04	5/16 1/4	1/2-20	1/2-20	7/16-20	1.000	25.40	.91 .95	23.1 24.1	9/16	0.562	14.27	•	•		
6602-05-05-05	5/16	1/2-20	1/2-20	1/2-20	1.060	26.92	0.950	24.13	9/16	0.562	14.27	•	•	•	
6602-06-06-06	3/8	9/16-18	9/16-18	9/16-18	1.250	31.75	1.060	26.92	5/8	0.625	15.88	•	•	•	
6602-08-08-04	1/2	3/4-16	3/4-16	7/16-20	1.380	35.05	1.250	31.75	3/4	0.750	19.05	•	•		
6602-08-08-08	1/2	3/4-16	3/4-16	3/4-16	1.380	35.05	1.250	31.75	13/16	0.812	20.62	•	•	•	
6602-08-08-12	1/2	3/4-16	3/4-16	1 1/16-12	1.750	44.45	1.420	36.07	1 1/16	1.060	26.97	•	•		
6602-10-10-10	5/8	7/8-14	7/8-14	7/8-14	1.620	41.15	1.450	36.83	15/16	0.937	23.80	•	•	•	
NEW 6602-10-10-12												•	•		
6602-12-12-04	3/4	1 1/16-12	1 1/16-12	7/16-20	1.440	36.58	1.660	42.16	1 1/16	1.062	26.97	•	•		
6602-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.750	44.45	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6602-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	1.780	45.21	1.730	43.94	1 1/4	1.250	31.75	•	•		
6602-16-16-10	1	1 5/16-12	1 5/16-12	7/8-14	1.850	46.99	1.810	45.97	1 5/16	1.310	33.32	•	•		
6602-16-16-12	1	1 5/16-12	1 5/16-12	1 1/16-12	1.950	49.53	1.810	45.97	1 5/16	1.312	33.32	•	•		
6602-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	2.000	50.80	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6602-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	2.310	58.67	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6602-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	2.590	65.79	2.330	59.18	2	2.000	50.80	•	•	•	
6602-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	3.380	85.85	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

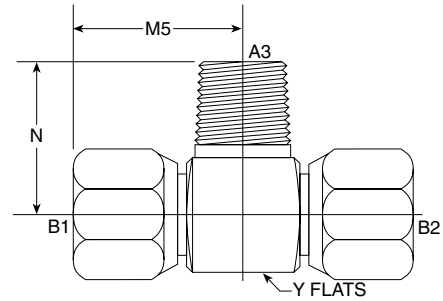
FJS-FJS-MJ Tee 6603 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	M5 LGTH M.M.	N1 LGTH M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock						
									S	FG	SS	B			
6603-04-04-04	1/4	7/16-20	7/16-20	7/16-20	0.997	25.32	0.889	22.58	1/2	0.500	12.70		•		
6603-08-08-08	1/2	3/4-16	3/4-16	3/4-16	1.380	35.05	1.250	31.75	13/16	0.812	20.62	•	•		
6603-10-10-10	5/8	7/8-14	7/8-14	7/8-14	1.550	39.37	1.457	37.01	1 5/16	0.937	23.81	•	•		
6603-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.750	44.45	1.660	42.16	1 1/8	1.125	28.58	•	•		
6603-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	2.010	51.05	1.794	45.57	1 3/8	1.375	34.93	•	•		

FJS-FJS-MP Tee

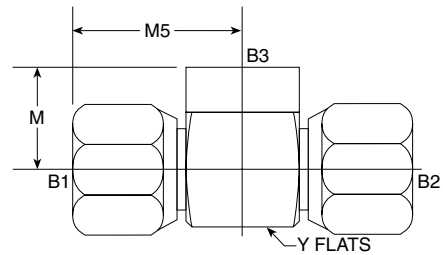
6604 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	A3 NPTF	M5 LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
6604-06-06-06	3/8	9/16-18	9/16-18	3/8-18	1.310	33.27	1.210	30.73	13/16	0.812	20.62	•			
6604-12-12-12	3/4	1 1/6-12	1 1/6-12	1 1/6-12	1.718	43.64	1.600	40.64	1 1/8	1.125	28.58	•			

FJS-FJS-FP Tee

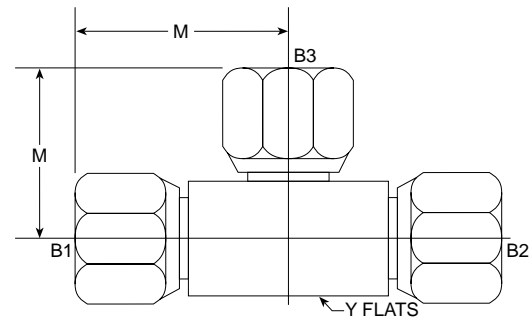
6605 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 NPTF	M LGTH	M.M.	M5 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
6605-04-04-04	1/4	7/16-20	7/16-20	1/4-18	0.870	22.10	1.150	29.21	3/4	0.750	19.05	•	•		

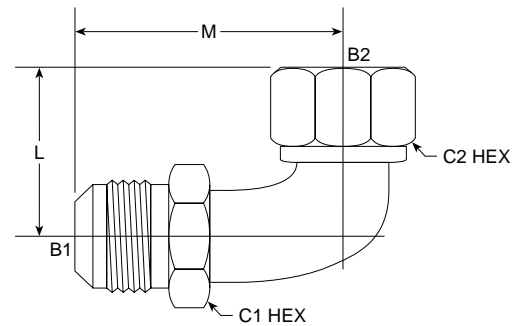
Tube Fittings & Adapters

FJS-FJS-FJS Tee 6606 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
6606-04-04-04	1/4	7/16-20	7/16-20	7/16-20	1.000	25.40	1/2	0.500	12.70	•	•	•	
6606-06-06-06	3/8	9/16-18	9/16-18	9/16-18	1.250	31.75	5/8	0.625	15.88	•	•	•	
6606-08-08-08	1/2	3/4-16	3/4-16	3/4-16	1.380	35.05	13/16	0.812	20.62	•	•	•	
6606-10-10-10	5/8	7/8-14	7/8-14	7/8-14	1.620	41.15	15/16	0.937	23.80	•	•	•	
6606-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.750	44.45	1 1/16	1.625	41.27	•	•	•	
6606-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	2.000	50.80	1 3/8	1.375	34.92	•	•	•	

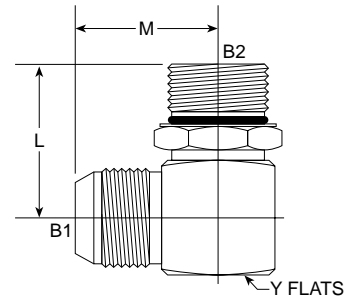
MJ-FJS Swept 90° 6701 Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	L LGTH	M LGTH	M.M.	C1 HEX	C1 HEX	M.M.	C2 HEX	C2 HEX	M.M.	Standard Material From Stock				
													S	FG	SS	B	
6701-04-04	1/4	7/16-20	7/16-20	1.090	27.69	1.250	31.75	1/2	0.500	12.70	9/16	0.562	14.29	•			
6701-06-06	3/8	9/16-18	9/16-18	1.220	30.99	1.350	34.29	5/8	0.625	15.87	11/16	0.687	17.46	•			
6701-08-08	1/2	3/4-16	3/4-16	1.520	38.61	1.770	44.96	13/16	0.812	20.64	7/8	0.875	22.22	•			
6701-10-10	5/8	7/8-14	7/8-14	1.800	45.72	1.940	49.28	15/16	0.937	23.81	1	1.000	25.40	•			
6701-12-12	3/4	1 1/16-12	1 1/16-12	2.400	60.96	2.500	63.50	1 1/4	1.125	28.57	1 1/4	1.125	28.57	•			
6701-16-16	1	1 5/16-12	1 5/16-12	3.150	80.01	3.100	78.74	1 3/4	1.750	44.45	2	2.000	50.80	•			
NEW 6701-20-20														•			

MJ-MAORB 90° 6801-NWO Series

SAE# 070220 / MS# 51527



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6801-02-02-NWO	1/8	5/16-24	5/16-24	0.940	23.88	0.770	19.56	7/16	0.437	11.11	•	•	•	
6801-02-04-NWO	1/8	5/16-24	7/16-20	1.030	26.16	0.780	19.81	1/2	0.500	12.70	•	•	•	
6801-03-03-NWO	3/16	3/8-24	3/8-24	0.940	23.88	0.830	21.08	7/16	0.437	11.11	•	•	•	
6801-04-02-NWO	1/4	7/16-20	5/16-24	0.920	23.37	0.890	22.61	7/16	0.438	11.13	•	•	•	
6801-04-03-NWO	1/4	7/16-20	3/8-24	1.030	26.16	0.950	24.13	7/16	0.438	11.13	•	•	•	
6801-04-04-NWO	1/4	7/16-20	7/16-20	1.030	26.16	0.890	22.61	1/2	0.500	12.70	•	•	•	
6801-04-05-NWO	1/4	7/16-20	1/2-20	1.130	28.70	0.950	24.13	5/8	0.625	15.88	•	•	•	
6801-04-06-NWO	1/4	7/16-20	9/16-18	1.250	31.75	1.050	26.67	5/8	0.625	15.88	•	•	•	
6801-04-08-NWO	1/4	7/16-20	3/4-16	1.450	36.83	1.120	28.45	13/16	0.812	20.62	•	•	•	
6801-05-04-NWO	5/16	1/2-20	7/16-20	1.130	28.70	0.950	24.13	9/16	0.562	14.27	•	•	•	
6801-05-05-NWO	5/16	1/2-20	1/2-20	1.130	28.70	0.950	24.13	9/16	0.562	14.27	•	•	•	
6801-05-06-NWO	5/16	1/2-20	9/16-18	1.250	31.75	1.050	26.67	5/8	0.625	15.88	•	•	•	
6801-05-08-NWO	5/16	1/2-20	3/4-16	1.450	36.83	1.120	28.45	13/16	0.812	20.62	•	•	•	
6801-05-10-NWO	5/16	1/2-20	7/8-14	1.700	43.18	1.210	30.73	15/16	0.937	23.80	•	•	•	
6801-06-02-NWO	3/8	9/16-18	5/16-24	1.150	29.21	1.120	28.45	9/16	0.562	14.27	•	•	•	
6801-06-04-NWO	3/8	9/16-18	7/16-20	1.190	30.23	1.060	26.92	5/8	0.625	15.88	•	•	•	
6801-06-05-NWO	3/8	9/16-18	1/2-20	1.130	28.70	1.060	26.92	5/8	0.625	15.88	•	•	•	
6801-06-06-NWO	3/8	9/16-18	9/16-18	1.250	31.75	1.060	26.92	5/8	0.625	15.88	•	•	•	
6801-06-08-NWO	3/8	9/16-18	3/4-16	1.450	36.83	1.140	28.96	13/16	0.812	20.62	•	•	•	
6801-06-10-NWO	3/8	9/16-18	7/8-14	1.700	43.18	1.220	30.99	15/16	0.937	23.80	•	•	•	
6801-06-12-NWO	3/8	9/16-18	1 1/16-12	1.940	49.28	1.290	32.77	1 1/8	1.125	28.58	•	•	•	
6801-08-04-NWO	1/2	3/4-16	7/16-20	1.260	32.00	1.250	31.75	13/16	0.812	20.62	•	•	•	
6801-08-05-NWO	1/2	3/4-16	1/2-20	1.260	32.00	1.250	31.75	13/16	0.812	20.62	•	•	•	
6801-08-06-NWO	1/2	3/4-16	9/16-18	1.320	33.53	1.250	31.75	13/16	0.812	20.62	•	•	•	
6801-08-08-NWO	1/2	3/4-16	3/4-16	1.450	36.83	1.250	31.75	13/16	0.812	20.62	•	•	•	
6801-08-10-NWO	1/2	3/4-16	7/8-14	1.700	43.18	1.330	33.78	15/16	0.937	23.80	•	•	•	
6801-08-12-NWO	1/2	3/4-16	1 1/16-12	1.940	49.28	1.410	35.81	1 1/8	1.125	28.58	•	•	•	
6801-08-16-NWO	1/2	3/4-16	1 5/16-12	2.060	52.32	1.550	39.37	1 3/8	1.375	34.93	•	•	•	
6801-10-06-NWO	5/8	7/8-14	9/16-18	1.400	35.56	1.450	36.83	15/16	0.937	23.80	•	•	•	
6801-10-08-NWO	5/8	7/8-14	3/4-16	1.520	38.61	1.450	36.83	15/16	0.937	23.80	•	•	•	
6801-10-10-NWO	5/8	7/8-14	7/8-14	1.700	43.18	1.450	36.83	15/16	0.937	23.80	•	•	•	
6801-10-12-NWO	5/8	7/8-14	1 1/16-12	1.940	49.28	1.550	39.37	1 1/8	1.125	28.58	•	•	•	
6801-10-16-NWO	5/8	7/8-14	1 5/16-12	2.050	52.07	1.660	42.16	1 3/8	1.375	34.93	•	•	•	
6801-10-20-NWO	5/8	7/8-14	1 5/8-12	2.250	57.15	1.860	47.24	1 3/4	1.750	44.45	•	•	•	
6801-12-06-NWO	3/4	1 1/16-12	9/16-18	1.510	38.35	1.650	41.91	1 1/8	1.125	28.58	•	•	•	
6801-12-08-NWO	3/4	1 1/16-12	3/4-16	1.610	40.89	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-12-10-NWO	3/4	1 1/16-12	7/8-14	1.780	45.21	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1.940	49.28	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-12-14-NWO	3/4	1 1/16-12	1 3/16-12	2.000	50.80	1.770	44.96	1 1/4	1.250	31.75	•	•	•	
6801-12-16-NWO	3/4	1 1/16-12	1 5/16-12	2.050	52.07	1.780	45.21	1 3/8	1.375	34.93	•	•	•	
6801-12-20-NWO	3/4	1 1/16-12	1 5/8-12	2.250	57.15	1.950	49.53	1 3/4	1.750	44.45	•	•	•	
6801-14-12-NWO	7/8	1 3/16-12	1 1/16-12	1.990	50.55	1.740	44.20	1 1/4	1.250	31.75	•	•	•	
6801-14-14-NWO	7/8	1 3/16-12	1 3/16-12	2.000	50.80	1.800	43.69	1 1/4	1.250	31.75	•	•	•	
6801-14-16-NWO	7/8	1 3/16-12	1 5/16-12	2.060	52.32	1.281	32.54	1 3/8	1.375	34.93	•	•	•	
6801-16-08-NWO	1	1 5/16-12	3/4-16	1.740	44.20	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-16-10-NWO	1	1 5/16-12	7/8-14	1.930	49.02	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-16-12-NWO	1	1 5/16-12	1 1/16-12	2.060	52.32	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-16-14-NWO	1	1 5/16-12	1 3/16-12	2.050	52.07	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-16-16-NWO	1	1 5/16-12	1 5/16-12	2.050	52.07	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-16-20-NWO	1	1 5/16-12	1 5/8-12	2.250	57.15	2.000	50.80	1 3/4	1.750	44.45	•	•	•	
6801-16-24-NWO	1	1 5/16-12	1 7/8-12	2.160	54.86	2.390	60.71	1 7/8	1.875	47.63	•	•	•	
6801-20-12-NWO	1 1/4	1 5/8-12	1 1/16-12	2.250	57.15	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6801-20-14-NWO	1 1/4	1 5/8-12	1 3/16-12	2.250	57.15	2.060	52.32	1 3/4	1.750	44.45	•	•	•	

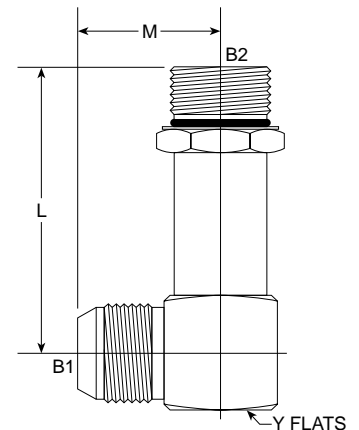
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Tube Fittings & Adapters

6801-NWO Series *Continued*

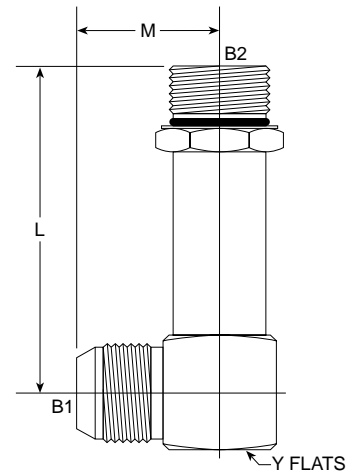
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6801-20-16-NWO	1 1/4	1 5/8-12	1 5/16-12	2.230	56.64	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6801-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	2.250	57.15	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6801-20-24-NWO	1 1/4	1 5/8-12	1 7/8-12	2.420	61.47	2.280	57.91	1 7/8	1.875	47.63	•	•	•	
6801-24-16-NWO	1 1/2	1 7/8-12	1 5/16-12	2.340	59.44	2.330	59.18	2	2.000	50.80	•	•	•	
6801-24-20-NWO	1 1/2	1 7/8-12	1 5/8-12	2.380	60.45	2.330	59.18	2	2.000	50.80	•	•	•	
6801-24-24-NWO	1 1/2	1 7/8-12	1 7/8-12	2.390	60.71	2.330	59.18	2	2.000	50.80	•	•	•	
6801-32-24-NWO	2	2 1/2-12	1 7/8-12	2.890	73.41	3.060	77.72	2 1/2	2.500	63.50	•	•	•	
6801-32-32-NWO	2	2 1/2-12	2 1/2-12	2.890	73.41	3.060	77.72	2 5/8	2.625	66.68	•	•	•	

MJ-MAORB 90° Long 6801-L-NWO Series



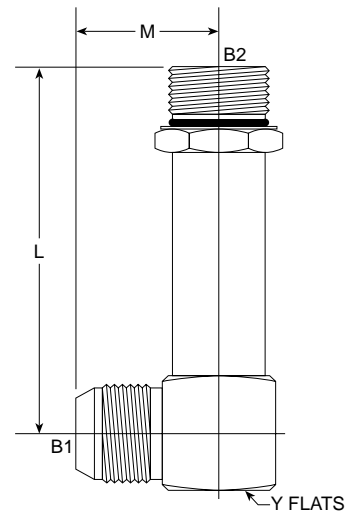
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6801-L-04-04-NWO	1/4	7/16-20	7/16-20	1.190	30.23	0.890	22.61	1/2	0.500	12.70	•	•	•	
6801-L-06-06-NWO	3/8	9/16-18	9/16-18	1.660	42.16	1.060	26.92	5/8	0.625	15.88	•	•	•	
6801-L-06-08-NWO	3/8	9/16-18	3/4-16	1.810	45.97	1.140	28.96	13/16	0.812	20.62	•	•	•	
6801-L-08-06-NWO	1/2	3/4-16	9/16-18	1.750	44.45	1.250	31.75	5/8	0.812	15.87	•	•	•	
6801-L-08-08-NWO	1/2	3/4-16	3/4-16	1.810	45.97	1.250	31.75	13/16	0.812	20.62	•	•	•	
6801-L-08-10-NWO	1/2	3/4-16	7/8-14	1.710	43.43	1.330	33.78	15/16	0.937	23.80	•	•	•	
6801-L-10-08-NWO	5/8	7/8-14	3/4-16	1.810	45.97	1.450	36.83	7/8	0.875	22.23	•	•	•	
6801-L-10-10-NWO	5/8	7/8-14	7/8-14	2.160	54.86	1.450	36.83	15/16	0.937	23.80	•	•	•	
6801-L-10-12-NWO	5/8	7/8-14	1 1/16-12	2.250	57.15	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-L-12-10-NWO	3/4	1 1/16-12	7/8-14	2.470	62.74	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-L-12-12-NWO	3/4	1 1/16-12	1 1/16-12	2.470	62.74	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-L-16-12-NWO	1	1 5/16-12	1 1/16-12	2.590	65.79	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-L-16-16-NWO	1	1 5/16-12	1 5/16-12	3.060	77.72	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-L-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	4.400	111.73	2.060	52.31	1 3/4	1.750	44.44	•	•	•	

MJ-MAORB 90° X-Long 6801-LL-NWO Series



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6801-LL-04-04-NWO	1/4	7/16-20	7/16-20	1.830	46.48	0.890	22.61	1/2	0.500	12.70	•	•		
6801-LL-06-06-NWO	3/8	9/16-18	9/16-18	2.080	52.83	1.060	26.92	5/8	0.625	15.88	•	•	•	
6801-LL-06-08-NWO	3/8	9/16-18	3/4-16	2.490	63.25	1.140	28.96	13/16	0.812	20.62	•	•		
6801-LL-08-06-NWO	1/2	3/4-16	9/16-18	2.180	55.37	1.250	31.75	13/16	0.812	20.62	•	•		
6801-LL-08-08-NWO	1/2	3/4-16	3/4-16	2.490	63.25	1.250	31.75	13/16	0.812	20.62	•	•	•	
6801-LL-08-10-NWO	1/2	3/4-16	7/8-14	3.230	82.04	1.330	33.78	15/16	0.937	23.80	•			
6801-LL-10-08-NWO	5/8	7/8-14	3/4-16	2.560	65.02	1.450	36.83	15/16	0.937	23.82	•			
6801-LL-10-10-NWO	5/8	7/8-14	7/8-14	3.230	82.04	1.450	36.83	15/16	0.937	23.80	•	•	•	
6801-LL-12-12-NWO	3/4	1 1/16-12	1 1/16-12	3.340	84.84	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6801-LL-12-16-NWO	3/4	1 1/16-12	1 5/16-12	3.720	94.49	1.780	45.21	1 3/8	1.375	34.93	•			
6801-LL-14-14-NWO	7/8	1 3/16-12	1 3/16-12	3.570	90.68	1.770	44.96	1 1/4	1.250	31.75	•			
6801-LL-16-12-NWO	1	1 5/16-12	1 1/16-12	3.460	87.88	1.810	45.97	1 3/8	1.375	34.92	•			
6801-LL-16-16-NWO	1	1 5/16-12	1 5/16-12	3.710	94.23	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6801-LL-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	4.400	111.76	2.060	52.32	1 3/4	1.750	44.45	•			

MJ-MAORB 90° XX-Long 6801-LLL-NWO Series

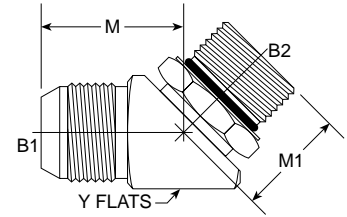


PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6801-LLL-06-06-NWO	3/8	9/16-18	9/16-18	3.070	77.98	1.060	26.92	5/8	0.625	15.88	•			
6801-LLL-06-08-NWO	6/16	9/16-18	3/4-16	3.570	90.68	1.140	28.96	3/4	0.750	19.05		•		
6801-LLL-08-08-NWO	1/2	3/4-16	3/4-16	3.570	90.69	1.250	31.75	7/8	0.875	22.22	•	•		
6801-LLL-16-16-NWO	1	1 5/16-12	1 5/8-12	5.200	132.08	1.810	45.97	1 3/8	1.375	34.92	•			

Tube Fittings & Adapters

MJ-MAORB 45° 6802-NWO Series

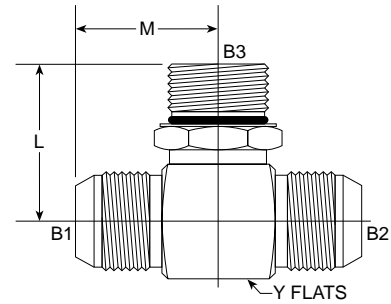
SAE# 070320 / MS# 51528



PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	M LGTH	M.M.	M1 LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6802-02-02-NWO	1/8	5/16-24	5/16-24	0.770	19.56	0.880	22.35	7/16	0.437	11.10				
6802-04-04-NWO	1/4	7/16-20	7/16-20	0.720	18.29	1.050	26.67	1/2	0.500	12.70	•	•	•	
6802-04-05-NWO	1/4	7/16-20	1/2-20	0.770	19.56	1.050	26.67	9/16	0.562	14.27	•	•	•	
6802-04-06-NWO	1/4	7/16-20	9/16-18	0.820	20.83	1.140	28.96	5/8	0.625	15.88	•	•	•	
6802-04-08-NWO	1/4	7/16-20	3/4-16	0.900	22.86	1.290	32.77	13/16	0.812	20.62	•	•	•	
6802-05-04-NWO	5/16	1/2-20	7/16-20	0.770	19.56	1.050	26.67	9/16	0.562	14.27	•	•	•	
6802-05-05-NWO	5/16	1/2-20	1/2-20	0.770	19.56	1.050	26.67	9/16	0.562	14.27	•	•	•	
6802-05-06-NWO	5/16	1/2-20	9/16-18	0.820	20.83	1.140	28.96	5/8	0.625	15.88	•	•	•	
6802-06-04-NWO	3/8	9/16-18	7/16-20	0.830	21.08	1.080	27.43	5/8	0.625	15.88	•	•	•	
6802-06-05-NWO	3/8	9/16-18	1/2-20	0.830	21.08	1.080	27.43	5/8	0.625	15.88	•	•	•	
6802-06-06-NWO	3/8	9/16-18	9/16-18	0.830	21.08	1.140	28.96	5/8	0.625	15.88	•	•	•	
6802-06-08-NWO	3/8	9/16-18	3/4-16	0.870	22.10	1.300	33.02	13/16	0.812	20.62	•	•	•	
6802-06-10-NWO	3/8	9/16-18	7/8-14	0.730	18.54	1.520	38.61	15/16	0.937	23.80	•	•	•	
6802-06-12-NWO	3/8	9/16-18	1 1/16-12	0.930	23.62	1.730	43.94	1 1/8	1.125	28.58	•	•	•	
6802-08-04-NWO	1/2	3/4-16	7/16-20	0.980	24.89	1.110	28.19	13/16	0.812	20.62	•	•	•	
6802-08-06-NWO	1/2	3/4-16	9/16-18	0.980	24.89	1.170	29.72	13/16	0.812	20.62	•	•	•	
6802-08-08-NWO	1/2	3/4-16	3/4-16	0.980	24.89	1.300	33.02	13/16	0.812	20.62	•	•	•	
6802-08-10-NWO	1/2	3/4-16	7/8-14	1.110	28.19	1.360	34.54	15/16	0.937	23.80	•	•	•	
6802-08-12-NWO	1/2	3/4-16	1 1/16-12	1.070	27.18	1.740	44.20	1 1/8	1.125	28.58	•	•	•	
6802-10-08-NWO	5/8	7/8-14	3/4-16	1.090	27.69	1.410	35.81	15/16	0.937	23.80	•	•	•	
6802-10-10-NWO	5/8	7/8-14	7/8-14	1.110	28.19	1.520	38.61	15/16	0.937	23.80	•	•	•	
6802-10-12-NWO	5/8	7/8-14	1 1/16-12	1.160	29.46	1.730	43.94	1 1/8	1.125	28.58	•	•	•	
6802-12-08-NWO	3/4	1 1/16-12	3/4-16	1.280	32.51	1.410	35.81	1 1/8	1.125	28.58	•	•	•	
6802-12-10-NWO	3/4	1 1/16-12	7/8-14	1.280	32.51	1.570	39.88	1 1/8	1.125	28.58	•	•	•	
6802-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1.280	32.51	1.730	43.94	1 1/8	1.125	28.58	•	•	•	
6802-12-14-NWO	3/4	1 1/16-12	1 3/16-12	1.420	36.07	1.860	47.24	1 1/4	1.250	31.75	•	•	•	
6802-12-16-NWO	3/4	1 1/16-12	1 5/16-12	1.450	36.83	1.860	47.24	1 3/8	1.375	34.93	•	•	•	
6802-14-14-NWO	5/8	1 3/16-12	1 3/16-12	1.450	36.83	1.860	47.24	1 1/4	1.250	31.75	•	•	•	
6802-16-12-NWO	1	1 5/16-12	1 1/16-12	1.470	37.34	1.860	47.24	1 3/8	1.375	34.93	•	•	•	
6802-16-14-NWO	1	1 5/16-12	1 3/16-12	1.470	47.24	1.860	37.34	1 5/16	1.312	33.32	•	•	•	
6802-16-16-NWO	1	1 5/16-12	1 5/16-12	1.470	37.34	1.860	47.24	1 3/8	1.375	34.93	•	•	•	
6802-16-20-NWO	1	1 5/16-12	1 5/8-12	1.550	39.37	1.910	47.24	1 3/4	1.750	44.45	•	•	•	
6802-20-16-NWO	1 1/4	1 5/8-12	1 5/16-12	1.590	40.39	2.070	52.58	1 3/4	1.750	44.45	•	•	•	
6802-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	1.590	40.39	1.910	48.51	1 3/4	1.750	44.45	•	•	•	
6802-20-24-NWO	1 1/4	1 5/8-12	1 7/8-12	1.650	41.91	1.910	48.51	1 7/8	1.875	47.62	•	•	•	
6802-24-20-NWO	1 1/2	1 7/8-12	1 5/8-12	1.780	45.21	1.910	45.21	1 7/8	1.875	47.63	•	•	•	
6802-24-24-NWO	1 1/2	1 7/8-12	1 7/8-12	1.780	45.21	1.910	48.51	2	2.000	50.80	•	•	•	
6802-32-32-NWO	2	2 1/2-12	2 1/2-12	2.220	56.39	1.860	47.24	2 5/8	2.625	66.68	•	•	•	

MJ-MJ-MAORB Branch Tee 6803-NWO Series

SAE# 070429 / MS# 51529



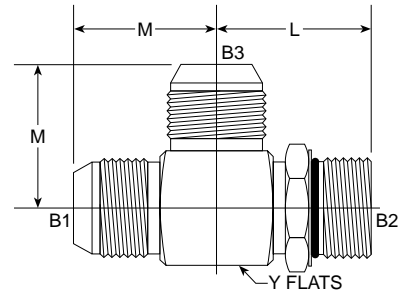
NEW

PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE ORB	L LGTH M.M.	M LGTH M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock						
									S	FG	SS	B			
6803-02-02-02-NWO	1/8	5/16-24	5/16-24	5/16-24	0.940	23.88	0.770	19.56	7/16	0.437	11.10			•	
6803-04-04-04-NWO	1/4	7/16-20	7/16-20	7/16-20	1.030	26.16	0.890	22.61	1/2	0.500	12.70	•	•	•	
6803-04-04-06-NWO	1/4	7/16-20	7/16-20	9/16-18	1.260	32.00	0.950	24.13	5/8	0.625	15.88	•	•	•	
6803-05-05-05-NWO	5/16	1/2-20	1/2-20	1/2-20	1.130	28.70	0.950	24.13	9/16	0.562	14.27	•	•	•	
6803-06-06-04-NWO	3/8	9/16-18	9/16-18	7/16-20	1.250	31.75	1.060	26.92	9/16	0.562	14.27	•	•		
6803-06-06-05-NWO	3/8	9/16-18	9/16-18	9/16-18	1.250	31.75	1.060	26.92	5/8	0.625	15.88	•	•	•	
6803-06-06-08-NWO	3/8	9/16-18	9/16-18	3/4-16	1.450	36.83	1.140	28.96	13/16	0.812	20.62	•	•		
6803-06-06-12-NWO	3/8	9/16-18	9/16-18	1 1/16-12	1.940	49.28	1.290	32.77	1 1/8	1.125	28.58	•	•		
6803-08-08-06-NWO	1/2	3/4-16	3/4-16	9/16-18	1.320	33.53	1.250	31.75	15/16	0.937	23.80	•	•		
6803-08-08-08-NWO	1/2	3/4-16	3/4-16	3/4-16	1.450	36.83	1.250	31.75	13/16	0.812	20.62	•	•	•	
6803-08-08-10-NWO	1/2	3/4-16	3/4-16	7/8-14	1.700	43.18	1.320	33.53	15/16	0.937	23.80	•	•		
6803-08-08-12-NWO	1/2	3/4-16	3/4-16	1 1/16-12	1.940	49.28	1.420	36.07	1 1/8	1.125	28.58	•	•		
6803-10-10-08-NWO	5/8	7/8-14	7/8-14	3/4-16	1.520	38.61	1.450	36.83	15/16	0.937	23.80	•	•		
6803-10-10-10-NWO	5/8	7/8-14	7/8-14	7/8-14	1.700	43.18	1.450	36.83	15/16	0.937	23.80	•	•	•	
6803-10-10-12-NWO	5/8	7/8-14	7/8-14	1 1/16-12	1.940	49.28	1.550	39.37	1 1/8	1.125	28.58	•	•		
6803-10-10-16-NWO	5/8	7/8-14	7/8-14	1 5/16-12	2.040	51.82	1.670	42.42	1 3/8	1.375	34.93	•	•	•	
6803-12-12-08-NWO	3/4	1 1/16-12	1 1/16-12	3/4-16	1.610	40.89	1.660	42.16	1 1/8	1.125	28.58	•	•		
6803-12-12-10-NWO	3/4	1 1/16-12	1 1/16-12	7/8-14	1.810	45.97	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6803-12-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.940	49.28	1.660	42.16	1 1/8	1.125	28.58	•	•	•	
6803-12-12-16-NWO	3/4	1 1/16-12	1 1/16-12	1 5/16-12	2.050	52.07	1.790	45.47	1 3/8	1.375	34.93	•	•		
6803-14-14-14-NWO	7/8	1 3/16-12	1 3/16-12	1 3/16-12	2.000	50.80	1.800	45.72	1 1/4	1.250	31.75	•	•		
6803-16-16-12-NWO	1	1 5/16-12	1 5/16-12	1 1/16-12	2.050	52.07	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6803-16-16-16-NWO	1	1 5/16-12	1 5/16-12	1 5/16-12	2.050	52.07	1.810	45.97	1 3/8	1.375	34.93	•	•	•	
6803-20-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	2.250	57.15	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6803-24-24-24-NWO	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	2.390	60.71	2.330	59.18	2	2.000	50.80	•	•	•	
6803-32-32-32-NWO	2	2 1/2-12	2 1/2-12	2 1/2-12	3.060	77.72	2.890	73.41	2 1/2	2.500	63.50	•	•		

Tube Fittings & Adapters

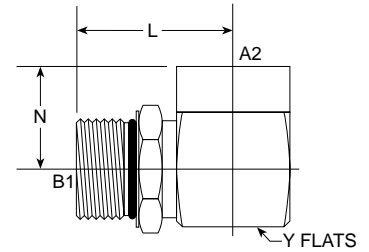
MJ-MAORB-MJ Run Tee 6804-NWO Series

SAE# 070428 / MS# 51530



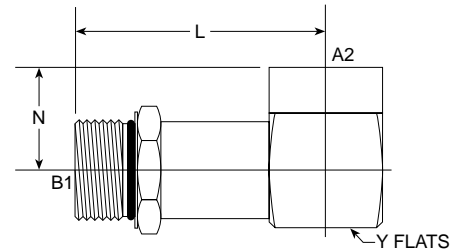
PART NO. SIZE	TUBE O.D.	B1 SAE 37	B2 SAE ORB	B3 SAE 37	L LGTH M.M.	M LGTH M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock						
									S	FG	SS	B			
6804-02-02-02-NWO	1/8	5/16-24	5/16-24	5/16-24	0.940	23.88	0.770	19.56	7/16	0.438	11.11			•	
6804-02-04-02-NWO	1/8	5/16-24	5/16-24	7/16-20	1.030	26.16	0.780	19.81	9/16	0.562	14.27			•	
6804-04-04-04-NWO	1/4	7/16-20	7/16-20	7/16-20	1.030	26.16	0.890	22.60	1/2	0.500	12.70	•	•	•	
6804-04-06-04-NWO	1/4	7/16-20	9/16-20	7/16-18	1.250	31.75	0.890	22.60	5/8	0.625	15.87	•	•	•	
6804-05-04-05-NWO	1/2	1/2-20	7/16-20	1/2-20	1.130	28.70	0.950	24.10	9/16	0.562	14.28	•		•	
6804-05-05-05-NWO	1/2	1/2-20	1/2-20	1/2-20	1.130	28.70	0.950	24.10	9/16	0.562	14.28	•	•	•	
6804-06-04-06-NWO	3/8	9/16-18	7/16-20	9/16-18	1.190	30.23	1.060	26.92	5/8	0.625	15.87	•	•		
NEW 6804-06-06-04-NWO	3/8	9/16-18	9/16-20	9/16-18	1.250	31.75	1.060	26.92	5/8	0.625	15.87	•		•	
6804-06-06-06-NWO	3/8	9/16-18	3/4-16	9/16-18	1.450	36.83	1.060	26.92	13/16	0.812	20.64	•		•	
6804-06-08-06-NWO	1/2	3/4-16	9/16-20	7/16-20	1.350	34.29	1.250	31.75	13/16	0.812	20.64	•			
6804-08-06-08-NWO	1/2	3/4-16	9/16-18	3/4-16	1.330	33.78	1.250	31.75	13/16	0.812	20.64	•	•		
6804-08-08-08-NWO	1/2	3/4-16	3/4-16	3/4-16	1.450	36.80	1.250	31.75	13/16	0.812	20.64	•	•	•	
6804-08-10-08-NWO	1/2	3/4-16	7/8-14	3/4-16	1.700	43.18	1.250	31.75	15/16	0.937	23.81	•	•		
6804-08-12-08-NWO	1/2	3/4-16	1 1/16-12	3/4-16	1.940	49.28	1.420	36.07	1 1/16	1.062	26.97	•			
6804-10-08-10-NWO	5/8	7/8-14	3/4-16	7/8-14	1.520	38.61	1.450	36.83	15/16	0.937	23.81	•			
6804-10-10-10-NWO	5/8	7/8-14	7/8-14	7/8-14	1.700	43.18	1.450	36.83	15/16	0.937	23.81	•	•	•	
NEW 6804-10-12-06-NWO	5/8	7/8-14	1 5/16-12	3/4-16	2.080	52.83	1.650	41.91	1 3/8	1.375	34.92	•			
6804-10-16-08-NWO	3/4	1 1/16-12	3/4-16	1 1/16-12	1.610	40.89	1.660	42.16	1 1/4	1.250	31.75	•			
NEW 6804-12-10-12-NWO	3/4	1 1/16-12	1 1/16-12	9/16-18	1.940	49.28	1.660	42.16	1 1/4	1.250	31.75	•			
6804-12-12-06-NWO	3/4	1 1/16-12	1 1/16-12	7/8-14	1.950	45.53	1.630	42.40	1 1/4	1.250	31.75	•			
6804-12-12-10-NWO	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.940	49.28	1.660	42.16	1 1/4	1.250	31.75	•	•	•	
6804-12-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1.940	49.28	1.660	42.16	1 1/4	1.250	31.75	•	•	•	
6804-12-12-16-NWO	3/4	1 1/16-12	1 1/16-12	1 5/16-12	2.060	52.32	1.780	45.21	1 3/8	1.375	34.92	•	•		
NEW 6804-12-16-12-NWO	7/8	1 3/16-12	1 3/16-12	1 3/16-12	2.000	50.80	1.800	45.72	1 1/4	1.250	31.75	•		•	
6804-14-14-14-NWO	1	1 5/16-12	1 1/16-12	1 5/16-12	2.050	52.07	1.800	45.72	1 3/8	1.375	34.92	•	•		
6804-16-12-16-NWO	1	1 5/16-12	1 1/16-12	1 5/16-12	2.050	52.07	1.800	45.72	1 3/8	1.375	34.92	•			
NEW 6804-16-16-12-NWO	1	1 5/16-12	1 5/16-12	1 5/16-12	2.050	52.07	1.810	45.97	1 3/8	1.375	34.92	•	•	•	
6804-16-16-16-NWO	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	2.250	57.15	2.060	52.32	1 3/4	1.750	44.45	•	•	•	
6804-20-20-20-NWO	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	2.390	60.71	2.330	59.18	2	2.000	50.80	•	•	•	
6804-24-24-24-NWO	2	2 1/2-12	2 1/2-12	2 1/2-12	2.890	73.41	3.060	77.72	2 1/2	2.500	63.50	•	•	•	

MAORB-FP 90° 6805-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	A2 NPTF	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6805-04-02-NWO	1/4	7/16-20	1/8-27	1.090	27.69	0.660	16.76	5/8	0.625	15.88	•	•	•	
6805-04-04-NWO	1/4	7/16-20	1/4-18	1.160	29.46	0.870	22.10	3/4	0.750	19.05	•	•	•	
6805-05-02-NWO	5/16	1/2-20	1/8-27	1.130	28.70	0.660	16.76	5/8	0.625	15.88	•	•	•	
6805-06-04-NWO	3/8	9/16-18	1/4-18	1.310	33.27	0.880	22.35	3/4	0.750	19.05	•	•	•	
6805-06-06-NWO	3/8	9/16-18	3/8-18	1.360	34.54	1.010	25.65	7/8	0.875	22.23	•	•	•	
6805-08-06-NWO	1/2	3/4-16	3/8-18	1.480	37.59	1.020	25.91	7/8	0.875	22.23	•	•	•	
6805-08-08-NWO	1/2	3/4-16	1/2-14	1.590	40.39	1.240	31.50	1 1/8	1.125	28.58	•	•	•	
6805-10-06-NWO	5/8	7/8-14	3/8-18	1.660	42.16	1.020	25.91	7/8	0.875	22.23	•	•	•	
6805-10-08-NWO	5/8	7/8-14	1/2-14	1.800	45.72	1.230	31.24	1 1/8	1.125	28.58	•	•	•	
6805-12-08-NWO	3/4	1 1/16-12	1/2-14	1.940	49.28	1.240	31.50	1 1/8	1.125	28.58	•	•	•	
6805-12-12-NWO	3/4	1 1/16-12	3/4-14	2.060	52.32	1.360	34.54	1 3/8	1.375	34.93	•	•	•	
6805-14-12-NWO	7/8	1 3/16-12	3/4-14	2.060	52.32	1.420	36.07	1 3/8	1.375	34.93	•	•	•	
6805-16-12-NWO	1	1 5/16-12	3/4-14	2.030	51.56	1.370	34.80	1 3/8	1.375	34.93	•	•	•	
6805-16-16-NWO	1	1 5/16-12	1-11 1/2	2.170	55.12	1.630	41.40	1 5/8	1.625	41.28	•	•	•	
6805-20-20-NWO	1 1/4	1 5/8-12	1 1/4-11 1/2	2.380	60.45	1.700	43.18	2	2.000	50.80	•	•	•	
6805-24-24-NWO	1 1/2	1 7/8-12	1 1/2-11 1/2	2.580	65.53	2.080	52.83	2 3/8	2.375	60.33	•	•	•	
6805-32-32-NWO	2	2 1/2-12	2-11 1/2	3.020	76.71	2.390	60.71	2 7/8	2.875	73.03	•	•	•	

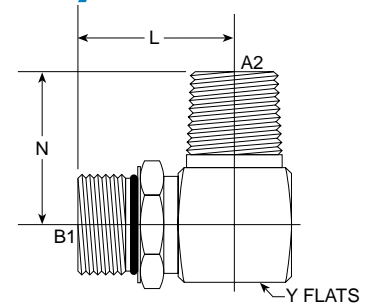
MAORB-FP 90° Long 6805-L-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	A2 NPTF	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6805-L-08-06-NWO	1/2	3/4-16	3/8-18	2.930	74.42	0.660	16.76	7/8	0.875	22.23	•	•	•	
6805-L-10-08-NWO	5/8	7/8-14	1/2-14	3.530	89.66	0.790	20.07	1 1/16	1.062	26.98	•	•	•	
6805-L-12-12-NWO	3/4	1 1/16-12	3/4-14	4.050	102.87	0.840	21.34	1 5/16	1.312	33.32	•	•	•	
6805-L-16-16-NWO	1	1 5/16-12	1-11 1/2	4.620	117.35	1.010	25.65	1 5/8	1.625	41.28	•	•	•	

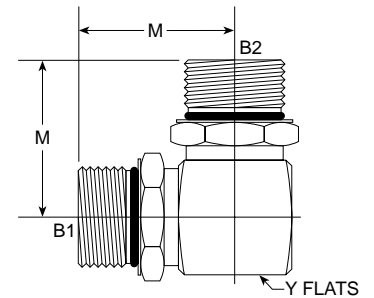
Tube Fittings & Adapters

MAORB-MP 90° 6806-NWO Series



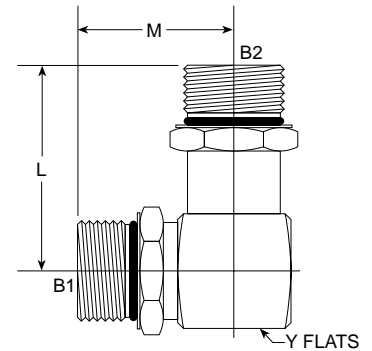
PART NO. SIZE	PORT O.D.	B1 THREAD	A2 THREAD	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6806-04-02-NWO	1/4	7/16-20	1/8-27	1.030	26.16	0.780	19.81	1/2	0.500	12.70	•			
6806-04-04-NWO	1/4	7/16-20	1/4-18	1.090	27.69	1.090	27.69	5/8	0.625	15.88	•	•	•	
6806-05-02-NWO	5/16	1/2-20	1/8-27	1.090	27.69	0.780	19.81	9/16	0.562	14.27	•			
6806-06-04-NWO	3/8	9/16-18	1/4-18	1.250	31.75	1.090	27.69	5/8	0.625	15.88	•	•	•	
6806-06-06-NWO	3/8	9/16-18	3/8-18	1.350	34.29	1.220	30.99	13/16	0.812	20.62	•	•	•	
6806-08-06-NWO	1/2	3/4-16	3/8-18	1.450	36.83	1.220	30.99	13/16	0.812	20.62	•	•	•	
6806-08-08-NWO	1/2	3/4-16	1/2-14	1.520	38.61	1.470	37.34	15/16	0.937	23.80	•	•	•	
6806-10-08-NWO	5/8	7/8-14	1/2-14	1.700	43.18	1.470	37.34	15/16	0.937	23.80	•		•	
6806-12-12-NWO	3/4	1 1/16-12	3/4-14	1.940	49.28	1.590	40.39	1 1/8	1.125	28.58	•		•	
6806-12-16-NWO	3/4	1 1/16-12	1-11 1/2	2.060	52.32	1.960	49.78	1 3/8	1.375	34.93	•			
6806-14-12-NWO	7/8	1 3/16-12	3/4-14	2.000	50.80	1.690	42.93	1 1/4	1.250	31.75	•			
6806-16-12-NWO	1	1 5/16-12	3/4-14	2.040	51.82	1.700	43.18	1 3/8	1.375	34.93	•			
6806-16-16-NWO	1	1 5/16-12	1-11 1/2	2.050	52.07	1.970	50.04	1 3/8	1.375	34.93	•	•		
6806-20-20-NWO	1 1/4	1 5/8-12	1 1/4-11 1/2	2.250	57.15	2.380	60.45	1 3/4	1.750	44.45	•			
6806-24-24-NWO	1 1/2	1 7/8-12	1 1/2-11 1/2	2.390	60.71	2.640	67.06	2	2.000	50.80	•	•		
6806-32-32-NWO	2	2 1/2-12	2-11 1/2	2.890	73.41	3.000	76.20	2 5/8	2.625	66.68	•	•		

MAORB-MAORB 90° 6807-NWO Series



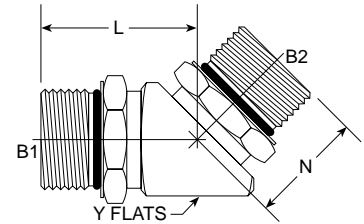
PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
									S	FG	SS	B
6807-04-04-NWO	1/4	7/16-20	7/16-20	1.090	27.69	5/8	0.625	15.88	•	•	•	
6807-06-06-NWO	3/8	9/16-18	9/16-18	1.220	30.99	13/16	0.937	23.80	•	•	•	
6807-08-08-NWO	1/2	3/4-16	3/4-16	1.470	37.34	15/16	0.937	23.80	•	•	•	
6807-10-08-NWO	5/8	7/8-14	3/4-16	1.512	38.40	15/16	0.937	23.81	•	•	•	
6807-10-10-NWO	5/8	7/8-14	7/8-14	1.470	37.34	15/16	0.937	23.80	•	•	•	
6807-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1.590	40.39	1 1/8	1.125	28.58	•	•	•	
6807-16-16-NWO	1	1 5/16-12	1 5/16-12	1.970	50.04	1 3/8	1.375	34.93	•	•	•	
6807-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	2.380	60.45	1 3/4	1.750	44.45	•	•	•	
6807-24-24-NWO	1 1/2	1 7/8-12	1 7/8-12	2.640	67.06	2	2.000	50.80	•	•	•	

MAORB-MAORB 90° X-Long 6807-LL-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6807-LL-06-06-NWO	3/8	9/16-18	9/16-18	2.060	52.30	1.250	31.80	5/8	0.625	15.87	•			

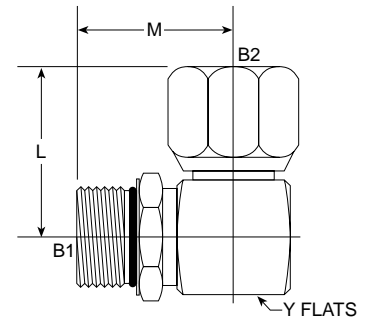
MAORB-MAORB 45° 6808-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	L LGTH	M.M.	N LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6808-16-16-NWO	1	1 5/16-12	1 5/16-12	1.900	48.26	1.720	43.69	1 3/8	1.375	34.93	•	•		

Tube Fittings & Adapters

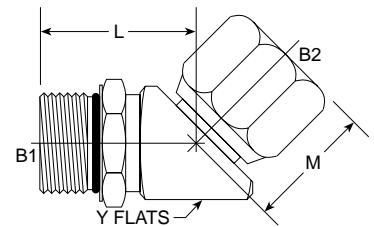
MAORB-FJS 90° 6809-NWO Series



NEW

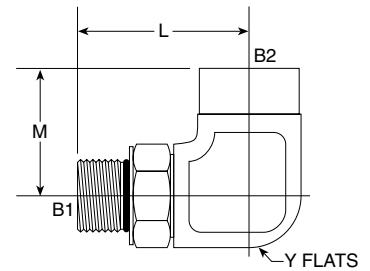
PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6809-04-04-NWO	1/4	7/16-20	7/16-20	1.038	26.35	1.000	25.40	1/2	0.500	12.70	•	•		•
6809-06-04-NWO	3/8	9/16-18	7/16-20	1.123	28.51	1.250	31.75	5/8	0.625	15.88	•	•		
6809-06-06-NWO	3/8	9/16-18	9/16-18	1.250	31.75	1.250	31.75	5/8	0.625	15.88	•	•		•
6809-08-06-NWO	1/2	3/4-16	9/16-18	1.310	33.27	1.460	37.08	13/16	0.812	20.62	•	•		
6809-08-08-NWO	1/2	3/4-16	3/4-16	1.390	35.31	1.450	36.83	13/16	0.812	20.62	•	•	•	
6809-08-12-NWO											•			
6809-10-10-NWO	5/8	7/8-14	7/8-14	1.600	40.64	1.700	43.18	15/16	0.937	23.80	•	•	•	
6809-12-10-NWO	3/4	1 1/16-12	7/8-14	1.710	43.43	1.940	49.28	1 1/8	1.125	28.58	•			
6809-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1.740	44.20	1.940	49.28	1 1/8	1.125	28.58	•	•		
6809-16-16-NWO	1	1 5/16-12	1 5/16-12	2.010	51.05	2.040	51.82	1 3/8	1.375	34.93	•	•		
6809-20-20-NWO	1 1/4	1 5/8-12	1 5/8-12	2.300	58.42	2.260	57.40	1 3/4	1.750	44.45	•		•	

MAORB-FJS 45° 6810-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6810-04-04-NWO	1/4	7/16-20	7/16-20	1.050	26.67	0.890	22.61	1/2	0.500	12.70	•			
6810-06-06-NWO	3/8	9/16-18	9/16-18	1.060	26.92	1.150	29.21	7/8	0.875	22.23	•			
6810-08-08-NWO	1/2	3/4-16	3/4-16	1.230	31.24	1.260	32.00	13/16	0.812	20.62	•			
6810-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1.740	44.20	1.450	36.83	1 1/8	1.125	28.58	•			

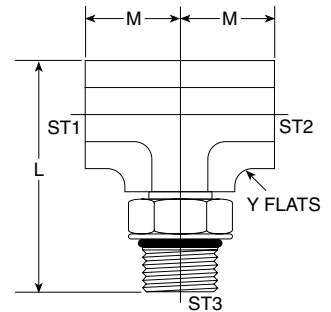
MAORB-FORB 90° 6815-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
6815-04-04-NWO	1/4	7/16-20	7/16-20	1.145	29.08	0.830	21.08	3/4	0.750	19.05		•		
6815-06-06-NWO	3/8	9/16-18	3/8-18	1.41	35.81	1.02	25.91	7/8	.875	22.23		•		
6815-08-08-NWO											•	•		
6815-10-10-NWO											•	•		
6815-16-16-NWO	1	1 1/16-12	1-11 1/2	2.25	57.15	1.62	41.15	1 5/8	1.625	41.28		•		

**NEW
NEW**

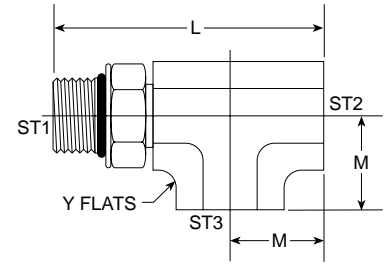
FORB-FORB-MAORB Tee 6832-NWO Series



PART NO. SIZE	TUBE O.D.	ST1 FORB	ST2 FORB	ST3 MADJ	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
6832-04-04-04-NWO	1/4	7/16-20	7/16-20	7/16-20	1.230	31.24	0.630	16.00	3/4	0.750	19.05		•		
6832-06-06-06-NWO	3/8	9/16-18	9/16-18	9/16-18	1.380	35.05	0.750	19.05	7/8	0.875	22.23		•		
6832-08-08-08-NWO	1/2	3/4-16	3/4-16	3/4-16	1.590	40.39	0.880	22.35	1 1/16	1.062	26.97		•		
6832-10-10-10-NWO	5/8	7/8-14	7/8-14	7/8-14	1.810	45.97	1.020	25.91	1 1/16	1.062	26.97		•		
6832-12-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1 1/16-12	2.000	50.80	1.210	30.73	1 5/16	1.312	33.32		•		
6832-16-16-16-NWO	1	1 5/16-12	1 5/16-12	1 5/16-12	2.250	57.15	1.330	33.78	1 5/8	1.625	41.28		•		

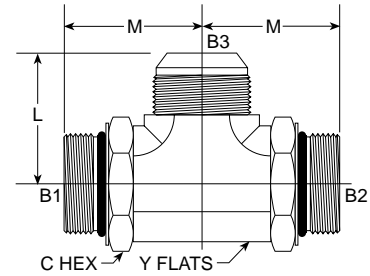
Tube Fittings & Adapters

MAORB-FORB-FORB Tee 6835-NWO Series



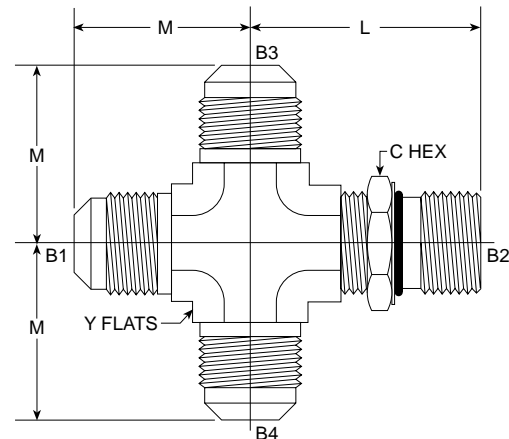
PART NO. SIZE	TUBE O.D.	ST1 MADJ	ST2 FORB	ST3 FORB	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
6835-04-04-04-NWO	1/4	7/16-20	7/16-20	7/16-20	1.230	31.24	0.740	18.80	3/4	0.750	19.05		•		
6835-06-06-06-NWO	3/8	9/16-18	9/16-18	9/16-18	1.380	35.05	0.860	21.84	7/8	0.875	22.23		•		
6835-08-08-08-NWO	1/2	3/4-16	3/4-16	3/4-16	1.590	40.39	1.030	26.16	1 1/16	1.062	26.97		•		
6835-10-10-10-NWO	5/8	7/8-14	7/8-14	7/8-14	1.810	45.97	1.180	29.97	1 1/16	1.062	26.97		•		
6835-12-12-12-NWO	3/4	1 1/16-12	1 1/16-12	1 1/16-12	2.000	50.80	1.390	35.31	1 5/16	1.312	33.32		•		
6835-16-16-16-NWO	1	1 5/16-12	1 5/16-12	1 5/16-12	2.250	57.15	1.520	38.61	1 5/8	1.625	41.28		•		

MAORB-MAORB-MJ Tee 6840-NWO Series



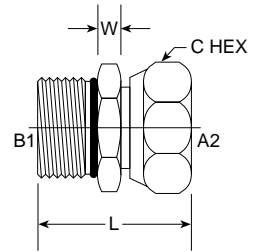
PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	B3 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
NEW 6840-20-20-20-NWO												•			

MJ-MJ-MB-MJ Cross 6850-NWO Series



PART NO. SIZE	PORT O.D.	B1 THREAD	B2 THREAD	B3 THREAD	B4 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
													S	FG	SS	B
NEW 6850-06-06-06-06-NWO													•			

MORB-FPS Straight 6900-O Series

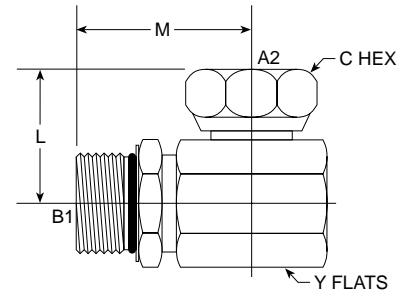


PART NO. SIZE	PORT O.D.	B1 SAE ORB	A2 NPSM	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
6900-04-02-O	1/4	7/16-20	1/8-27	1.060	26.92	0.363	9.22	9/16	0.562	14.27	•		•	
6900-04-04-O	1/4	7/16-20	1/4-18	1.109	28.17	0.280	7.11	9/16	0.562	14.27	•		•	
6900-04-06-O	1/4	7/16-20	3/8-18	1.150	29.21	0.340	8.64	11/16	0.687	17.45	•		•	
6900-04-08-O	1/4	7/16-20	1/2-14	1.210	30.73	0.310	7.87	7/8	0.875	22.23	•			
6900-05-04-O	5/16	1/2-20	1/4-18	1.092	27.74	0.280	7.11	5/8	0.625	15.88	•			
6900-05-08-O	5/16	1/2-20	1/2-14	1.210	30.73	0.310	7.87	7/8	0.875	22.23	•			
6900-06-04-O	3/8	9/16-18	1/4-18	1.062	26.97	0.310	7.87	11/16	0.687	17.45	•			
6900-06-06-O	3/8	9/16-18	3/8-18	1.171	29.74	0.310	7.87	11/16	0.687	17.45	•		•	
6900-06-08-O	3/8	9/16-18	1/2-14	1.234	31.34	0.310	7.87	7/8	0.875	22.23	•			
6900-08-04-O	1/2	3/4-16	1/4-18	1.217	30.91	0.340	8.64	7/8	0.875	22.23	•			
6900-08-06-O	1/2	3/4-16	3/8-18	1.234	31.34	0.340	8.64	7/8	0.875	22.23	•			
6900-08-08-O	1/2	3/4-16	1/2-14	1.240	31.50	0.340	8.64	7/8	0.875	22.23	•		•	
6900-08-12-O	1/2	3/4-16	3/4-14	1.406	35.71	0.340	8.64	1	1.000	25.40	•			
6900-10-06-O	5/8	7/8-14	3/8-18	1.358	34.49	0.410	10.41	1	1.000	25.40	•		•	
6900-10-08-O	5/8	7/8-14	1/2-14	1.330	33.78	0.410	10.41	1	1.000	25.40	•		•	
6900-10-12-O	5/8	7/8-14	3/4-14	1.482	37.64	0.410	10.41	1	1.000	25.40	•		•	
6900-12-06-O	3/4	1 1/16-12	3/8-18	1.530	38.86	0.500	12.70	1 1/4	1.250	31.75	•			
6900-12-08-O	3/4	1 1/16-12	1/2-14	1.438	36.53	0.470	11.94	1 1/4	1.250	31.75	•		•	
6900-12-12-O	3/4	1 1/16-12	3/4-14	1.578	40.08	0.470	11.94	1 1/4	1.250	31.75	•		•	
6900-12-16-O	3/4	1 1/16-12	1-11 1/2	1.630	41.40	0.470	11.94	1 1/2	1.500	38.10	•			
6900-14-12-O	7/8	1 3/16-12	3/4-14	1.683	42.75	0.470	11.94	1 3/8	1.375	34.93	•			
6900-14-16-O	7/8	1 3/16-12	1-11 1/2	1.733	44.02	0.500	12.70	1 3/8	1.375	34.93	•			
6900-16-08-O	1	1 5/16-12	1/2-14	1.610	40.89	0.530	13.46	1 1/2	1.500	38.10	•			
6900-16-12-O	1	1 5/16-12	3/4-14	1.710	43.43	0.500	12.70	1 1/2	1.500	38.10	•			
6900-16-16-O	1	1 5/16-12	1-11 1/2	1.710	43.43	0.500	12.70	1 1/2	1.500	38.10	•		•	
6900-16-20-O	1	1 5/16-12	1 1/4-11 1/2	1.900	48.26	0.580	14.73	1 7/8	1.875	47.63	•			
6900-20-12-O	1 1/4	1 5/8-12	3/4-14	1.780	45.21	0.650	16.51	1 7/8	1.875	47.63	•			
6900-20-16-O	1 1/4	1 5/8-12	1 1/4-11 1/2	1.828	46.43	0.580	14.73	1 7/8	1.875	47.63	•		•	
6900-20-20-O	1 1/4	1 5/8-12	1 1/4-11 1/2	1.710	43.43	0.580	14.73	1 7/8	1.875	47.63	•		•	
6900-24-20-O	1 1/2	1 7/8-12	1 1/4-11 1/2	1.980	50.29	0.650	16.51	2 1/8	2.125	53.98	•			
6900-24-24-O	1 1/2	1 7/8-12	1 1/2-11 1/2	1.953	49.61	0.650	16.51	2 1/8	2.125	53.98	•		•	
6900-32-32-O	2	2 1/2-12	2-11 1/2	2.156	54.76	0.810	20.57	2 3/4	2.750	69.85	•			

Tube Fittings & Adapters

MAORB-FPS 90° 6901-NWO Series

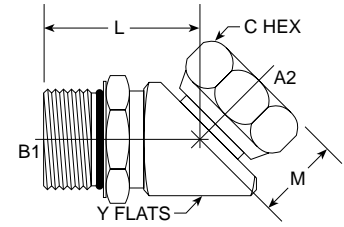
SAE # 140257



PART NO. SIZE	TUBE O.D.	B1 SAE ORB	A2 NPSM	L LGTH	M		C		Y		Standard Material From Stock						
					M.M.	LGTH	M.M.	HEX	M.M.	FLATS	FLATS	M.M.	S	FG	SS	B	
6901-04-02-NWO	1/4	7/16-20	1/8-27	0.730	18.54	1.110	28.19	9/16	0.562	14.27	11/16	0.687	17.45	•			
6901-04-04-NWO	1/4	7/16-20	1/4-18	0.781	19.84	1.109	28.17	11/16	0.687	17.45	11/16	0.687	17.45	•			•
6901-04-06-NWO	1/4	7/16-20	3/8-18	0.930	23.62	1.250	31.75	7/8	0.875	22.23	7/8	0.875	22.23	•			
6901-04-08-NWO	1/4	7/16-20	1/2-14	1.010	25.65	1.280	32.51	1	1.000	25.40	1	1.000	25.40	•			
6901-05-04-NWO	5/16	1/2-20	1/4-18	0.790	20.07	1.130	28.70	11/16	0.687	17.45	1/2	0.500	12.70	•			
6901-06-04-NWO	3/8	9/16-18	1/4-18	0.781	19.84	1.187	30.15	11/16	0.687	17.45	7/8	0.875	22.23	•	•		
6901-06-06-NWO	3/8	9/16-18	3/8-18	0.937	23.80	1.296	32.92	7/8	0.875	22.23	7/8	0.875	22.23	•	•		•
6901-06-08-NWO	3/8	9/16-18	1/2-14	1.000	25.40	1.484	37.69	1	1.000	25.40	1	1.000	25.40	•			
6901-08-04-NWO	1/2	3/4-16	1/4-18	0.919	23.34	1.486	37.74	11/16	0.687	17.45	1	1.000	25.40	•			
6901-08-06-NWO	1/2	3/4-16	3/8-18	1.000	25.40	1.515	38.48	7/8	0.875	22.23	1	1.000	25.40	•			
6901-08-08-NWO	1/2	3/4-16	1/2-14	1.000	25.40	1.515	38.48	1	1.000	25.40	1	1.000	25.40	•			
6901-08-12-NWO	1/2	3/4-16	3/4-14	1.250	31.75	1.656	42.06	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			•
6901-10-04-NWO	5/8	7/8-14	1/4-18	0.920	23.37	1.640	41.66	11/16	0.687	17.45	1 1/8	1.125	28.57	•			
6901-10-06-NWO	5/8	7/8-14	3/8-18	1.000	25.40	1.640	41.66	7/8	0.875	22.23	1 1/8	1.125	28.57	•			
6901-10-08-NWO	5/8	7/8-14	1/2-14	1.000	25.40	1.640	41.66	1	1.000	25.40	1 1/8	1.125	28.57	•			
6901-10-12-NWO	5/8	7/8-14	3/4-14	1.250	31.75	1.781	45.24	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			•
6901-12-06-NWO	3/4	1 1/16-12	3/8-18	1.120	28.45	1.920	48.77	7/8	0.875	22.23	1 1/4	1.250	31.75	•			
6901-12-08-NWO	3/4	1 1/16-12	1/2-14	1.125	28.58	1.921	48.79	1	1.000	25.40	1 1/4	1.250	31.75	•	•		•
6901-12-12-NWO	3/4	1 1/16-12	3/4-14	1.250	31.75	1.921	48.79	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			•
6901-12-16-NWO	3/4	1 1/16-12	1-11 1/2	1.250	31.75	2.000	50.80	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
6901-14-12-NWO	7/8	1 3/16-12	3/4-14	1.250	31.75	1.921	48.79	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
6901-14-16-NWO	7/8	1 3/16-12	1-11 1/2	1.240	31.50	2.093	53.16	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
6901-16-12-NWO	1	1 5/16-12	3/4-14	1.000	25.40	2.093	53.16	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•			
6901-16-16-NWO	1	1 5/16-12	1-11 1/2	1.390	35.31	2.093	53.16	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•	•		
6901-16-20-NWO	1	1 5/16-12	1 1/4-11 1/2	1.610	40.89	2.350	59.69	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			
6901-20-12-NWO	1 1/4	1 5/8-12	3/4-14	2.000	50.80	2.484	63.09	1 1/4	1.250	31.75	1 7/8	1.875	47.63	•			
6901-20-16-NWO	1 1/2	1-11 1/2	1-11 1/2	1.824	46.33	2.309	58.65	1 1/2	1.500	38.10	1 5/8	1.625	41.28	•			
6901-20-20-NWO	1 1/4	1 5/8-12	1 1/4-11 1/2	1.656	42.06	2.484	63.09	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			•
NEW 6901-24-20-NWO														•	•		
6901-24-24-NWO	1 1/2	1 7/8-12	1 1/2-11 1/2	1.734	44.04	2.609	66.27	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•			•
6901-32-32-NWO	2	2 1/2-12	2-11 1/2	2.312	58.72	3.250	82.55	2 5/8	2.625	66.68	2 5/8	2.625	66.68	•			

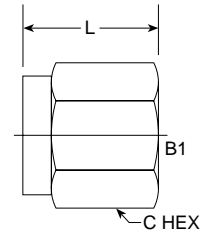
MAORB-FPS 45° 6902-NWO Series

SAE # 140357



PART NO. SIZE	TUBE O.D.	B1 SAE ORB	A2 NPSM	L LGTH M.M.	M LGTH M.M.	C HEX	C HEX	C M.M.	Y FLATS	Y FLATS	Y M.M.	Standard Material From Stock					
												S	FG	SS	B		
6902-04-04-NWO	1/4	7/16-20	1/4-18	1.062	26.97	0.656	16.66	11/16	0.687	17.45	11/16	0.687	17.45	•			
6902-04-06-NWO	1/4 3/8	7/16-20	3/8-18	1.062	26.97	0.780	19.81	7/8	0.875	22.23	7/8	0.875	22.23	•			
6902-06-04-NWO	3/8 1/4	9/16-18	1/4-18	1.062	26.97	0.656	16.66	11/16	0.687	17.45	7/8	0.875	22.23	•			
6902-06-06-NWO	3/8	9/16-18	3/8-18	1.062	26.97	0.703	17.86	7/8	0.875	22.23	7/8	0.875	22.23	•		•	
6902-06-08-NWO	3/8 1/2	9/16-18	1/2-14	1.062	26.97	0.812	20.62	1	1.000	25.40	1	1.000	25.40	•			
6902-08-04-NWO	1/2 1/4	3/4-16	1/4-18	1.125	28.58	0.810	20.57	11/16	0.687	17.45	1	1.000	25.40	•			
6902-08-06-NWO	1/2 3/8	3/4-16	3/8-18	1.125	28.58	0.875	22.23	7/8	0.875	22.23	1	1.000	25.40	•			
6902-08-08-NWO	1/2	3/4-16	1/2-14	1.125	28.58	0.812	20.62	1	1.000	25.40	1	1.000	25.40	•		•	
6902-08-12-NWO	1/2 3/4	3/4-16	3/4-14	1.220	30.99	1.080	27.43	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
6902-10-06-NWO	5/8 3/8	7/8-14	3/8-18	1.500	38.10	0.932	23.67	7/8	0.875	22.23	1 1/8	1.125	28.57	•			
6902-10-08-NWO	5/8 1/2	7/8-14	1/2-14	1.500	38.10	0.781	19.84	1	1.000	25.40	1 1/8	1.125	28.57	•			
6902-10-12-NWO	5/8 3/4	7/8-14	3/4-14	1.359	34.52	1.050	26.67	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•			
6902-12-06-NWO	3/4 3/8	1 1/16-12	3/8-18	1.500	38.10	1.020	25.91	7/8	0.875	22.23	1 1/4	1.250	31.75	•			
6902-12-08-NWO	3/4 1/2	1 1/16-12	1/2-14	1.500	38.10	0.950	24.13	1	1.000	25.40	1 1/4	1.250	31.75	•		•	
6902-12-12-NWO	3/4	1 1/16-12	3/4-14	1.500	38.10	1.046	26.57	1 1/4	1.250	31.75	1 1/4	1.250	31.75	•		•	
6902-12-16-NWO	3/4 1	1 1/16-12	1-11 1/2	1.680	42.67	1.050	26.67	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•			
6902-16-12-NWO	1 3/4	1 5/16-12	3/4-14	1.625	41.28	1.050	26.67	1 1/4	1.250	31.75	1 1/2	1.500	38.10	•		•	
6902-16-16-NWO	1	1 5/16-12	1-11 1/2	1.625	41.28	1.060	26.92	1 1/2	1.500	38.10	1 1/2	1.500	38.10	•		•	
6902-16-20-NWO	1	1 5/16-12	1 1/4-11 1/2	1.850	46.99	0.820	20.83	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•			
6902-20-16-NWO	1 1/4 1	1 5/8-12	1-11 1/2	1.840	46.74	1.450	36.83	1 1/2	1.500	38.10	1 7/8	1.875	47.63	•			
6902-20-20-NWO	1 1/4	1 5/8-12	1 1/4-11 1/2	2.281	57.94	1.171	29.74	1 7/8	1.875	47.63	1 7/8	1.875	47.63	•	•		
6902-24-24-NWO	1 1/2	1 7/8-12	1 1/2-11 1/2	2.609	66.27	1.343	34.11	2 1/8	2.125	53.98	2 1/8	2.125	53.98	•			

JIC-Flareless Nut V0318 Series



PART NO. SIZE	TUBE O.D.	THREAD B1	L LGTH M.M.	C HEX	C HEX	C M.M.	Standard Material From Stock				
							S	FG	SS	B	
V0318-04	1/4	7/16-20	0.830	21.08	9/16	0.562	14.28	•			
V0318-05	5/16	1/2-20	0.830	21.08	5/8	0.625	15.87	•			
V0318-06	3/8	3/8-18	0.860	21.84	11/16	0.687	17.46	•			
V0318-08	1/2	3/4-16	1.085	27.56	7/8	0.875	22.23	•			
V0318-10	5/8	7/8-14	1.125	28.57	1	1.000	25.40	•			
V0318-12	3/4	1 1/16-12	1.365	34.67	1 1/4	1.125	28.57	•			
V0318-16	1	1 5/8-12	1.400	35.56	1 1/2	1.500	38.10	•			
V0318-20	1 1/4	1 5/8-12	1.800	45.72	2	2.000	50.80	•			

PART NO. SIZE	TUBE O.D.	L LGTH	M.M.	Standard Material From Stock			
				S	FG	SS	B
V0319-04	1/4	0.400	10.16	•			
V0319-05	1/4	0.415	10.54	•			
V0319-06	1/4	0.465	11.81	•			
V0319-08	1/2	0.570	14.78	•			
V0319-10	5/8	0.570	14.78	•			
V0319-12	3/4	0.700	17.78	•			
V0319-16	1	1.000	25.40	•			
V0319-20	1 1/4	1.000	25.40	•			

JIC-Flareless Sleeve V0319 Series

