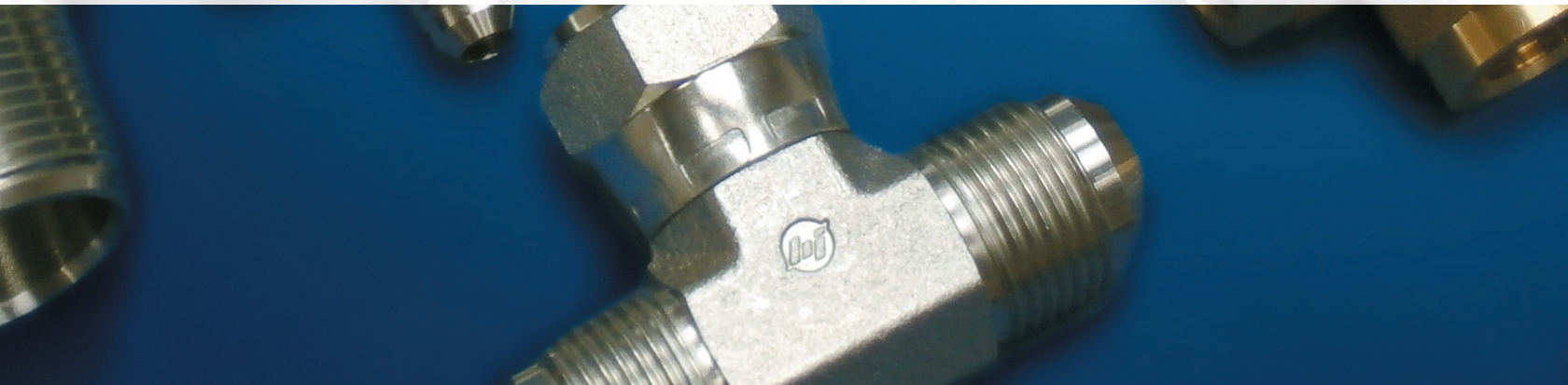
TUBE FITTINGS & ADAPTERS

NPT, JIC & O-RING BOSS FITTINGS



TUBE FITTINGS & ADAPTERS

In business since 1953, Brennan supplies customers worldwide with more than 50,000 standard and special hydraulic fittings and adapters in sizes from 1/16 to 3 inches.

The fittings in this catalog are steel, but we also offer them in stainless steel, brass, aluminum and other alloys. The standard plating is CR3 trivalent, but we offer zinc-nickel and Brennan Black® for enhanced corrosion resistance. Our engineering department can customize standard fittings or create something completely new specifically for your application.

Contact a Brennan representative to learn more: (888) 331-1523.

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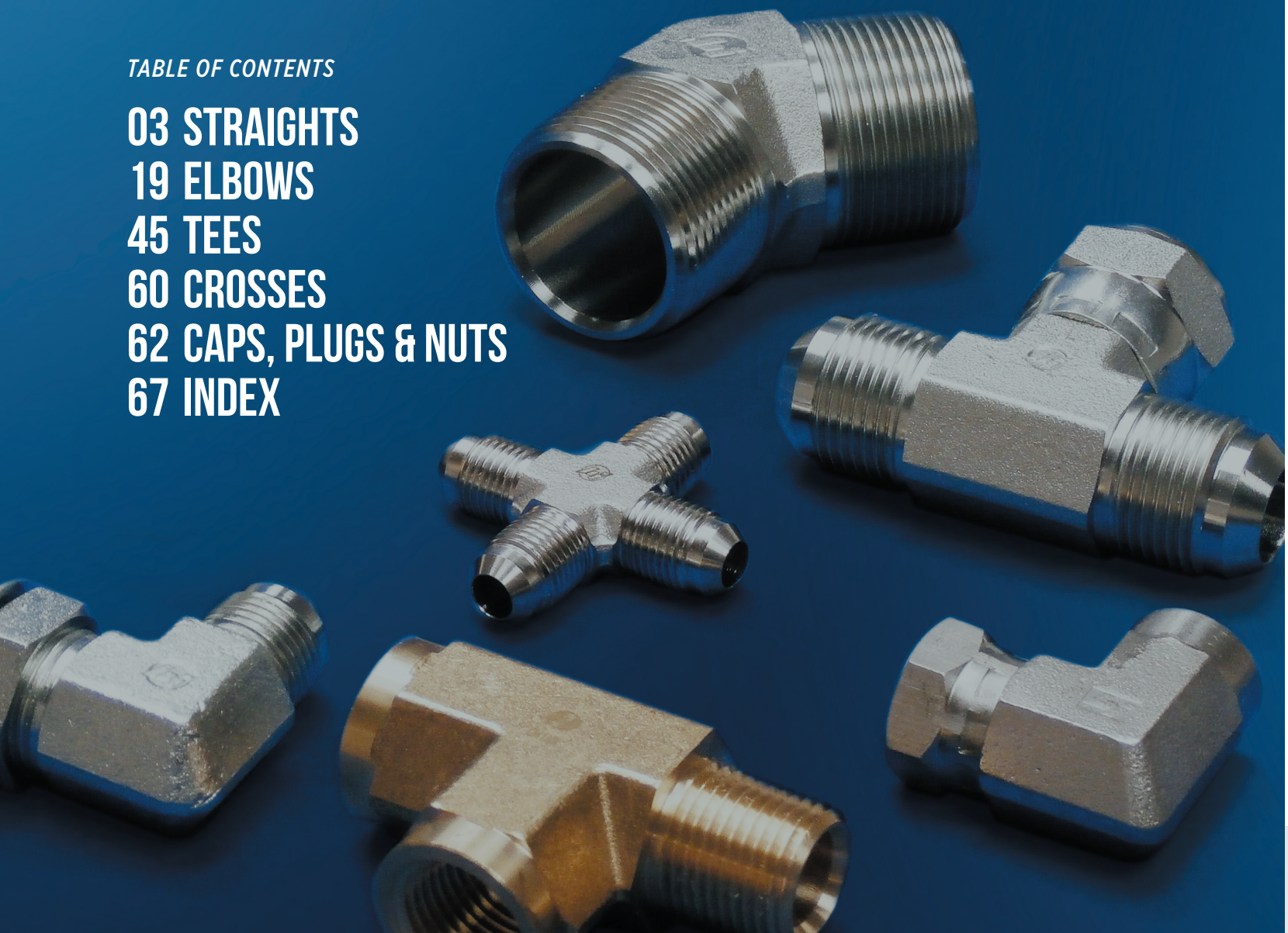
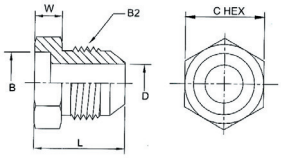


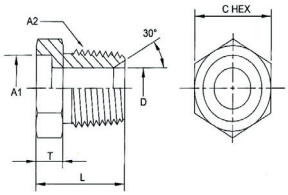
STRAIGHTS

0403 BORE-MJ STRAIGHT



PART NO.	TUBE O.D.	B2 THREAD	B BORE	D DRILL	L LGTH	W WIDTH	C HEX
0403-04-04	1/4	7/16-20	0.254	0.172	0.800	0.250	0.500
0403-05-04	5/16-1/4	7/16-20	0.319	0.172	0.800	0.250	0.500
0403-05-05	5/16-5/16	1/2-20	0.319	0.234	0.800	0.250	0.562
0403-06-06	3/8-3/8	9/16-18	0.379	0.297	0.840	0.284	0.625
0403-06-08	3/8-1/2	3/4-16	0.379	0.297	0.940	0.283	0.812
0403-08-06	1/2-3/8	9/16-18	0.504	0.297	0.940	0.384	0.812
0403-08-08	1/2-1/2	3/4-16	0.504	0.391	0.940	0.283	0.812
0403-08-10	1/2-5/8	7/8-14	0.506	0.484	1.093	0.310	0.937
0403-10-08	5/8-1/2	3/4-16	0.631	0.391	0.937	0.250	0.937
0403-10-10	5/8	7/8-14	0.631	0.484	1.100	0.342	0.937
0403-10-12	5/8-3/4	1-1/16-12	0.631	0.484	1.280	0.412	1.125
0403-12-08	3/4-1/2	3/4-16	0.757	0.391	0.980	0.323	0.937
0403-12-10	3/4-5/8	7/8-14	0.756	0.484	1.100	0.380	0.938
0403-12-12	3/4-3/4	1 1/16-12	0.756	0.609	1.280	0.416	1.125
0403-14-14	7/8-7/8	1 3/16-12	0.881	0.719	1.312	0.422	1.250
0403-16-12	1-3/4	1 1/16-12	1.006	0.609	1.280	0.416	1.250
0403-16-16	1	1-5/16-12	1.006	0.844	1.320	0.409	1.375
0403-16-20	1-1 1-1/4	1 5/8-12	1.006	0.844	1.450	0.492	1.688
0403-20-16	1-1/4 1-1	1 5/16-12	1.257	0.844	1.730	0.819	1.688
0403-20-20	1-1/4 1-1/4	1 5/8-12	1.256	1.078	1.450	0.492	1.688
0403-20-24	1-1/4 1-1/2	1 7/8-12	1.258	1.312	1.656	0.530	2.000
0403-24-20	1-1/2 1-1/4	1-5/8-12	1.506	1.078	1.450	0.492	2.000
0403-24-24	1-1/2 1-1/2	1 7/8-12	1.507	1.312	1.840	0.757	2.000
0403-32-32	2-2	2 1/2-12	2.008	1.781	2.160	0.830	2.625
0403-12-14	3/4	1-3/16-12	0.757	0.609	1.316	.426	1.500
0403-14-12	7/8-3/4	1-1/16-12	0.881	0.609	1.28	0.241	1.125
0403-32-24	2	1-7/8-12	2.008	1.312	1.816	.730	2.625
0403-40-40	2-1/2-2-1/2	3-12	2.500	2.318	2.225	1.115	2.250

0404 BORE-MP STRAIGHT



PART NO.	TUBE O.D.	A1 BORE	A2 NPTF	D DRILL	L LGTH	T WIDTH	C HEX
0404-04-02	1/4	0.256	1/8-27	0.172	0.562	0.180	0.500
0404-04-04	1/4	0.256	1/4-18	0.172	0.812	0.250	0.625
0404-06-04	3/8	0.381	1/4-18	0.281	0.812	0.250	0.625
0404-06-06	3/8	0.379	3/8-18	0.281	0.850	0.250	0.750
0404-06-08	3/8-1/2	0.379	1/2-14	0.281	1.06	0.31	0.875
0404-08-06	1/2	0.506	3/8-18	0.406	0.850	0.280	0.812
0404-08-08	1/2	0.506	1/2-14	0.406	1.100	0.280	0.875

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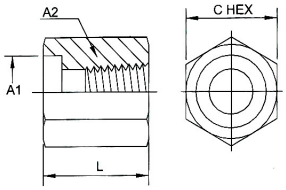
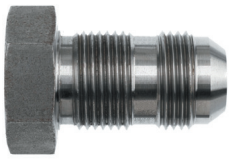
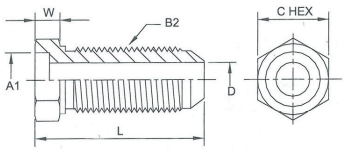
PART NO.	TUBE O.D.	A1 BORE	A2 NPTF	D DRILL	L LGTH	T WIDTH	C HEX
0404-10-06	5/8	0.631	3/8-18	0.406	0.843	0.28	0.812
0404-10-08	5/8	0.631	1/2-14	0.531	1.078	0.33	0.937
0404-12-08	3/4	0.757	1/2-14	0.531	1.100	0.350	0.937
0404-12-12	3/4	0.757	3/4-14	0.609	1.100	0.340	1.125
0404-16-12	1	1.007	3/4-14	0.719	1.260	0.500	1.250
0404-16-16	1	1.007	1-11 1/2	0.938	1.312	0.38	1.375
0404-20-16	1-1/4	1.258	1-11 1/2	0.938	1.376	0.44	1.688
0404-20-20	1-1/4	1.258	1 1/4-11 1/2	1.078	1.406	0.44	1.688
0404-24-16	1-1/2	1.508	1-11 1/2	0.938	1.375	0.50	1.750
0404-24-20	1-1/2 1-1/4	1.508	1-1/4-11-1/2	1.250	1.48	0.500	2.000
0404-24-24	1-1/2	1.508	1 1/2-11 1/2	1.312	1.500	0.50	2.000
0404-32-32	2	2.008	2-11 1/2	1.938	1.781	0.75	2.625

0405 BORE- FP STRAIGHT



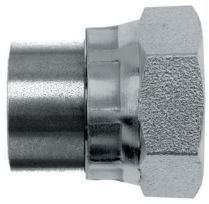
PART NO.	TUBE O.D.	A1 BORE	A2 NPTF	L LTGH	C HEX
0405-04-02	1/4	0.256	1/8-27	0.640	0.562
0405-06-04	3/8	0.381	1/4-18	0.843	0.750
0405-06-06	3/8	0.379	3/8-18	1.00	0.875
0405-08-06	1/2	0.506	3/8-18	0.906	0.875
0405-12-12	3/4	0.757	3/4-14	1.500	1.375
0405-16-16	1	1.007	1-11-1/2	1.437	1.625
0405-20-20	1-1/4	1.258	1-1/4-11-1/2	1.531	2.000
0405-24-24	1-1/2	1.506	1-1/2-11-1/2	1.38	2.125

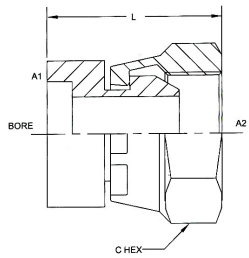
0406 BORE-MJ BULKHEAD STRAIGHT

PART NO.	TUBE O.D.	A1 BORE	B2 THREAD	D DRILL	L LGTH	W WIDTH	C HEX
0406-06-06	3/8	0.379	9/16-18	0.297	1.624	0.344	0.813
0406-08-08	1/2	0.506	3/4-16	0.391	1.845	0.375	1.000
0406-12-10	3/4	0.756	7/8-14	0.484	2.062	0.360	1.125
0406-12-12	3/4	0.757	1 1/16-12	0.609	2.300	0.500	1.375
0406-16-16	1	1.007	1-5/16-12	0.844	2.330	0.540	1.625

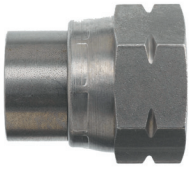
0800 BORE-FPS STRAIGHT

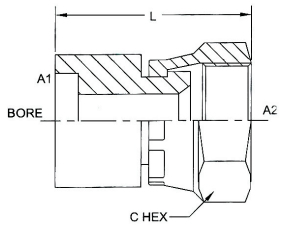




PART NO.	TUBE O.D.	A1 BORE	A2 NPSM	L LGTH	C HEX
0800-08-06	1/2	0.506	3/8-18	1.023	0.875
0800-10-08	5/8-1/2	.631	1/2-14	1.19	1.00

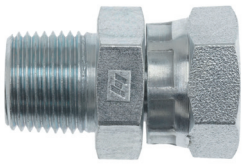
0900 BORE-FJS STRAIGHT

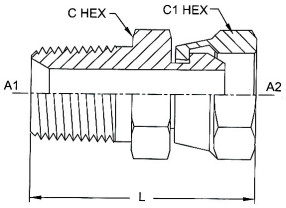




PART NO.	TUBE O.D.	A1 BORE	A2 THREAD	L LGTH	C HEX
0900-04-04	1/4	0.256	7/16-20	0.900	0.562
0900-06-06	3/8-3/8	.375	9/16-18	1.10	.6875
0900-08-08	1/2	0.506	3/4-16	1.300	0.875
0900-10-10	5/8-5/8	.628	7/8-14	1.40	1.00
0900-12-12	3/4	0.757	1-1/16-12	1.625	1.250
0900-16-16	1	1.006	1-5/16-12	1.500	1.500
0900-20-20	1 1/4	1.258	1-5/8-12	1.950	2.000

1404 MP-FPS STRAIGHT



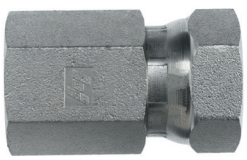


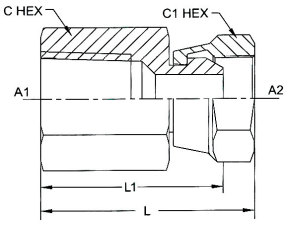
PART NO.	A1 NPTF	A2 NPSM	A1 DRILL	A2 DRILL	L1 LGTH	L LGTH	C HEX	C1 HEX
1404-02-02	1/8-27	1/8-27	0.188	.11/.13	0.94	1.08	0.562	0.562
1404-02-04	1/8-27	1/4-18	0.188	0.21/0.23	1.05	1.24	0.688	0.688
1404-04-02	1/4-18	1/8-27	0.281	0.138	1.187	1.320	0.688	0.562
1404-04-04	1/4-18	1/4-18	0.281	0.220	1.23	1.42	0.688	0.688
1404-04-06	1/4-18	3/8-18	0.281	0.281	1.310	1.520	0.812	0.875
1404-04-08	1/4-18	1/2-14	0.281	0.440	1.440	1.700	1.000	1.000
1404-06-04	3/8-18	1/4-18	0.406	0.220	1.30	1.49	0.750	0.688
1404-06-06	3/8-18	3/8-18	0.406	0.340	1.30	1.52	0.875	0.875
1404-06-08	3/8-18	1/2-14	0.406	0.460	1.42	1.70	1.000	1.000
1404-08-04	1/2-14	1/4-18	0.531	0.220	1.52	1.71	0.875	0.688
1404-08-06	1/2-14	3/8-18	0.531	0.340	1.56	1.77	0.875	0.875
1404-08-08	1/2-14	1/2-14	0.531	0.460	1.61	1.89	1.000	1.000
1404-08-12	1/2-14	3/4-14	0.531	0.620	1.740	2.090	1.250	1.250

Continued...

PART NO.	A1 NPTF	A2 NPSM	A1 DRILL	A2 DRILL	L1 LGTH	L LGTH	C HEX	C1 HEX
1404-12-06	3/4-14	3/8-18	0.719	0.340	1.56	1.77	1.125	0.875
1404-12-08	3/4-14	1/2-14	0.719	0.44/0.48	1.65	1.93	1.125	1.000
1404-12-12	3/4-14	3/4-14	0.63	0.63	1.75	2.08	1.250	1.250
1404-12-16	3/4-14	1-11 1/2	0.719	0.780	1.81	2.16	1.500	1.500
1404-12-20	3/4-14	1 1/4-1 1/2	0.719	1.085	1.86	2.28	1.875	1.875
1404-16-06	1-11-1/2	3/8-18	0.938	0.320/0.340	1.830	2.040	1.500	0.875
1404-16-08	1-11-1/2	1/2-14	0.938	0.460	1.910	2.160	1.375	1.000
1404-16-12	1-11 1/2	3/4-14	0.938	0.610	1.94	2.29	1.500	1.250
1404-16-16	1-11 1/2	1-11 1/2	0.938	0.780	2.00	2.35	1.500	1.500
1404-16-20	1-11-1/2	1-1/4-11-1/2	0.938	0.938	2.050	2.470	1.875	1.875
1404-16-24	1-11-1/2	1-1/2-11-1/2	0.938	1.250	2.170	2.550	2.125	2.125
1404-20-16	1 1/4-11 1/2	1-11 1/2	1.250	0.78/0.80	2.050	2.400	1.875	1.500
1404-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.01/1.03	2.100	2.520	1.875	1.875
1404-20-24	1 1/4-11 1/2	1 1/2-11 1/2	1.250	1.250	2.09	2.47	2.125	2.125
1404-24-20	1 1/2-11 1/2	1 1/4-11 1/2	1.500	1.010	2.120	2.540	2.125	1.875
1404-24-24	1-1/2-11-1/2	1-1/2-11-1/2	1.500	1.250/1.270	2.270	2.690	2.125	2.125
1404-32-32	2-11 1/2	2-11 1/2	1.938	1.72	2.40	2.82	2.625	2.625

1405 FP-FPS STRAIGHT

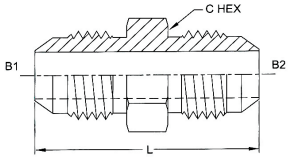




PART NO.	A1 NPTF	A2 NPSM	A2 DRILL	L1 LGTH	L LGTH	C HEX	C1 HEX
1405-02-02	1/8-27	1/8-27	0.110	0.88	1.02	0.562	0.562
1405-02-04	1/8-27	1/4-18	0.220	1.10	1.29	0.688	0.688
1405-04-02	1/4-18	1/8-27	0.110	1.190	1.330	0.688	0.5625
1405-04-04	1/4-18	1/4-18	0.220	1.230	1.420	0.688	0.688
1405-04-06	1/4-18	3/8-18	0.32/0.34	1.270	1.480	0.688	0.875
1405-06-04	3/8-18	1/4-18	0.21/0.23	1.290	1.480	0.875	0.688
1405-06-06	3/8-18	3/8-18	0.340	1.31	1.52	0.875	0.875
1405-06-08	3/8-18	1/2-14	0.460	1.500	1.780	0.875	1.000
1405-08-04	1/2-14	1/4-18	0.220	1.560	1.750	1.000	0.688
1405-08-06	1/2-14	3/8-18	0.32/0.36	1.45	1.66	1.000	0.875
1405-08-08	1/2-14	1/2-14	0.460	1.560	1.840	1.000	1.000
1405-08-12	1/2-14	3/4-14	0.635	1.62	1.97	1.250	1.250
1405-12-08	3/4-14	1/2-14	0.440/0.480	1.630	1.910	1.250	1.000
1405-12-12	3/4-14	3/4-14	0.620	1.620	1.970	1.250	1.250
1405-12-16	3/4-14	1-11-1/2	0.780	1.830	2.180	1.500	1.500
1405-16-12	1-11-1/2	3/4-14	.61/.63	1.900	2.250	1.500	1.250
1405-16-16	1-11-1/2	1-11-1/2	0.780	2.00	2.35	1.500	1.500
1405-20-20	1-1/4-11-1/2	1-1/4-11-1/2	1.020	1.980	2.400	1.875	1.875
1405-24-24	1-1/2-11-1/2	1-1/2-11-1/2	1.260	2.100	2.520	2.125	2.125
1405-32-32	2-11-1/2	2-11-1/2	1.720/1.740	2.250	2.670	2.625	2.625

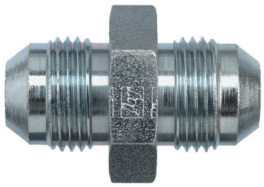
BRENNAN

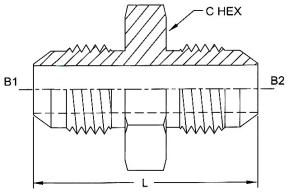
2403 MJ-MJ STRAIGHT



PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	C HEX	B1 DRILL	B2 DRILL	L LGTH
2403-02-02	1/8	1/8	5/16-24	5/16-24	0.438	0.062	0.062	1.17
2403-03-02	3/16	3/16	3/8-24	5/16-24	0.438	0.125	0.062	1.20
2403-03-03	3/16	3/16	3/8-24	3/8-24	0.438	0.125	1.25	1.23
2403-04-02	1/4	1/8	7/16-20	5/16-24	0.500	0.172	0.062	1.270
2403-04-03	1/4	3/16	7/16-20	3/8-24	0.500	0.172	0.125	1.300
2403-04-04	1/4	1/4	7/16-20	7/16-20	0.500	0.172	0.172	1.37
2403-05-04	5/16	1/4	1/2-20	7/16-20	0.562	0.234	0.172	1.370
2403-05-05	5/16	5/16	1/2-20	1/2-20	0.562	0.234	0.234	1.370
2403-06-04	3/8	1/4	9/16-18	7/16-20	0.625	0.297	0.172	1.40
2403-06-05	3/8	5/16	9/16-18	1/2-20	0.625	0.234	0.234	1.40
2403-06-06	3/8	3/8	9/16-18	9/16-18	0.625	0.297	0.297	1.41
2403-08-04	1/2	1/4	3/4-16	7/16-20	0.812	0.391	0.172	1.51
2403-08-05	1/2	5/16	3/4-16	1/2-20	0.812	0.391	0.234	1.510
2403-08-06	1/2	3/8	3/4-16	9/16-18	0.812	0.391	0.297	1.520
2403-08-08	1/2	1/2	3/4-16	3/4-16	0.812	0.391	0.391	1.620
2403-10-04	5/8	1/4	7/8-14	7/16-20	0.937	0.484	0.172	1.67
2403-10-05	5/8	5/16	7/8-14	1/2-20	0.937	0.484	0.234	1.67
2403-10-06	5/8	3/8	7/8-14	9/16-18	0.937	0.297	0.297	1.68
2403-10-08	5/8	1/2	7/8-14	3/4-16	0.937	0.391	0.391	1.78
2403-10-10	5/8	5/8	7/8-14	7/8-14	0.937	0.484	0.484	1.880
2403-12-04	3/4	1/4	1-1/16-12	7/16-20	1.125	0.609	0.172	1.850
2403-12-05	3/4	5/16	1 1/16-12	1/2-20	1.125	0.609	0.234	1.85
2403-12-06	3/4	3/8	1 1/16-12	9/16-18	1.125	0.609	0.297	1.85
2403-12-08	3/4	1/2	1 1/16-12	3/4-16	1.125	0.609	0.391	1.95
2403-12-10	3/4	5/8	1 1/16-12	7/8-14	1.125	0.609	0.484	2.050
2403-12-12	3/4	3/4	1 1/16-12	1 1/16-12	1.125	0.609	0.609	2.16
2403-14-12	7/8	3/4	1 3/16-12	1 1/16-12	1.250	0.719	0.609	2.180
2403-14-14	7/8	7/8	1 3/16-12	1 3/16-12	1.250	0.719	0.719	2.21
2403-16-06	1	3/8	1 5/16-12	9/16-18	1.375	0.844	0.297	1.89
2403-16-08	1	1/2	1 5/16-12	3/4-18	1.375	0.844	0.391	2.00
2403-16-10	1	5/8	1 5/16-12	7/8-14	1.375	0.844	0.484	2.10
2403-16-12	1	3/4	1 5/16-12	1 1/16-12	1.375	0.844	0.609	2.200
2403-16-14	1	7/8	1-5/16-12	1-3/16-12	1.375	0.844	0.719	2.230
2403-16-16	1	1	1 5/16-12	1 5/16-12	1.375	0.844	0.844	2.25
2403-20-12	1 1/4	3/4	1 5/8-12	1 1/16-12	1.688	1.078	0.609	2.34
2403-20-16	1 1/4	1	1 5/8-12	1 5/16-12	1.688	1.078	0.844	2.380
2403-20-20	1 1/4	1 1/4	1 5/8-12	1 5/8-12	1.688	1.078	1.078	2.43
2403-24-12	1-1/2	3/4	1-7/8-12	1-1/16-12	2.000	1.312	0.609	2.530
2403-24-16	1-1/2	1	1-7/8-12	1-5/16-12	2.000	1.312	0.844	2.580
2403-24-20	1-1/2	1-1/4	1-7/8-12	1-5/8-12	2.000	1.312	1.078	2.620
2403-24-24	1 1/2	1 1/2	1 7/8-12	1 7/8-12	2.000	1.312	1.312	2.750
2403-32-12	2	3/4	2-1/2-12	1-1/16-12	2.625	1.781	0.609	2.93
2403-32-16	2	1	2 1/2-12	1 5/16-12	2.625	1.781	0.844	2.98
2403-32-20	2	1 1/4	2 1/2-12	1 5/16-12	2.625	1.781	1.078	3.020
2403-32-24	2	1 1/2	2 1/2-12	1 7/8-1/2	2.625	1.781	1.312	3.15
2403-32-32	2	2	2 1/2-12	2 1/2-12	2.625	1.781	1.781	3.40
2403-40-40	2 1/2	2 1/2	3 -12	3 -12	3.250	2.323	2.323	2.95
2403-48-48	3	3	3-1/2-12	3-1/2-12	3.750	2.818	2.818	3.400
2403-16-04	1	1/4	1-5/16-12	7/16-20	1.375	0.844	0.172	1.890
2403-24-08	1-1/2	1/2	1-7/8-12	3/4-16	2.000	1.312	0.391	2.320
2403-24-10	1-1/2	5/8	1-7/8-12	7/8-14	2.000	1.312	0.484	2.420

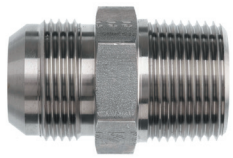
2403-LH MJ-MJ STRAIGHT LARGE HEX

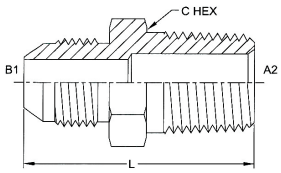




PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	L LGTH	C HEX
2403-LH-02-02	1/8	1/8	5/16-24	5/16-24	0.062	0.062	1.17	0.562
2403-LH-03-02	3/16	1/8	3/8-24	5/16-24	0.125	0.062	1.200	0.625
2403-LH-03-03	3/16	3/16	3/8-24	3/8-24	0.125	0.125	1.230	0.625
2403-LH-04-02	1/4	1/8	7/16-20	5/16-24	0.172	0.062	1.270	0.688
2403-LH-04-03	1/4	3/16	7/16-20	3/8-24	0.172	0.125	1.300	0.688
2403-LH-04-04	1/4	1/4	7/16-20	7/16-20	0.172	0.172	1.37	0.688
2403-LH-05-04	5/15	1/4	1/2-20	7/16-20	0.234	0.172	1.37	0.750
2403-LH-05-05	5/16	5/16	1/2-20	1/2-20	0.234	0.234	1.37	0.750
2403-LH-06-04	3/8	1/4	9/16-18	7/16-20	0.297	0.172	1.400	0.812
2403-LH-06-05	3/8	5/16	9/16-18	1/2-20	0.297	0.234	1.400	0.812
2403-LH-06-06	3/8	3/8	9/16-18	9/16-18	0.297	0.297	1.410	0.812
2403-LH-08-04	1/2	1/4	3/4-16	7/16-20	0.391	0.172	1.510	1.000
2403-LH-08-05	1/2	5/16	3/4-16	1/2-20	0.391	0.234	1.51	1.000
2403-LH-08-06	1/2	3/8	3/4-16	9/16-18	0.391	0.297	1.520	1.000
2403-LH-08-08	1/2	1/2	3/4-16	3/4-16	0.391	0.391	1.620	1.000
2403-LH-10-04	5/8	1/4	7/8-14	7/16-20	0.484	0.172	1.670	1.125
2403-LH-10-06	5/8	3/8	7/8-14	9/16-18	0.484	0.297	1.68	1.125
2403-LH-10-08	5/8	1/2	7/8-14	3/4-16	0.484	0.391	1.78	1.125
2403-LH-10-10	5/8	5/8	7/8-14	7/8-14	0.484	0.484	1.880	1.125
2403-LH-12-04	3/4	1/4	1-1/16-12	7/16-20	0.609	0.172	1.85	1.375
2403-LH-12-05	3/4	5/16	1-1/16-12	1/2-20	0.609	0.234	1.85	1.375
2403-LH-12-06	3/4	3/8	1-1/16-12	9/16-18	0.609	0.297	1.850	1.375
2403-LH-12-08	3/4	1/2	1-1/16-12	3/4-16	0.609	0.391	1.950	1.375
2403-LH-12-10	3/4	5/8	1-1/16-12	7/8-14	0.609	0.484	2.050	1.375
2403-LH-12-12	3/4	3/4	1-1/16-12	1-1/16-12	0.609	0.609	2.16	1.375
2403-LH-14-14	7/8	7/8	1-3/16-12	1-3/16-12	0.719	0.719	2.21	1.500
2403-LH-16-04	1	1/4	1-5/16-12	7/16-20	0.844	0.172	1.890	1.625
2403-LH-16-08	1	1/2	1-5/16-12	3/4-16	0.844	0.391	2.000	1.625
2403-LH-16-10	1	5/8	1-5/16-12	7/8-14	0.844	0.484	2.100	1.625
2403-LH-16-12	1	3/4	1-5/16-12	1-1/16-12	0.844	0.609	2.200	1.625
2403-LH-16-16	1	1	1-5/16-12	1 5/16-12	0.844	0.844	2.25	1.625
2403-LH-20-04	1 1/4	1/4	1-5/8-12	7/16-20	1.078	0.172	2.02	1.875
2403-LH-20-10	1 1/4	5/8	1-5/8-12	7/8-14	1.078	0.484	2.23	1.875
2403-LH-20-12	1 1/4	3/4	1-5/8-12	1 1/16-12	1.078	0.609	2.34	1.875
2403-LH-20-16	1 1/4	1	1-5/8-12	1 5/16-12	1.078	0.844	2.38	1.875
2403-LH-20-20	1 1/4	1 1/4	1-5/8-12	1 5/8-12	1.078	1.078	2.430	1.875
2403-LH-24-16	1 1/2	1	1-7/8-12	1 5/16-12	1.312	0.844	2.58	2.125
2403-LH-24-20	1 1/2	1 1/4	1-7/8-12	1 5/8-12	1.312	1.078	2.62	2.125
2403-LH-24-24	1 1/2	1 1/2	1-7/8-12	1 7/8-12	1.312	1.312	2.75	2.125
2403-LH-32-32	2	2	2 1/2-12	2 1/2-12	1.781	1.781	3.40	2.750
2403-LH-32-24	2	1-1/2	2-1/2-12	1-7/8-12	1.781	1.312	3.150	2.750

2404 MJ-MP STRAIGHT



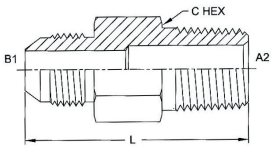


PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	C HEX
2404-02-02	1/8	5/16-24	1/8-27	0.062	0.188	1.11	0.438
2404-02-04	1/8	5/16-24	1/4-18	0.062	0.281	1.330	0.562
2404-02-06	1/8	5/16-24	3/8-18	0.062	0.406	1.330	0.750
2404-03-02	3/16	3/8-24	1/8-27	0.125	0.188	1.140	0.438
2404-04-01	1/4	7/16-20	1/16-27	0.172	0.125	1.220	0.500
2404-04-02	1/4	7/16-20	1/8-27	0.172	0.188	1.22	0.500
2404-04-04	1/4	7/16-20	1/4-18	0.172	0.172	1.42	0.562
2404-04-06	1/4	7/16-20	3/8-18	0.172	0.406	1.420	0.750
2404-04-08	1/4	7/16-20	1/2-14	0.172	0.531	1.68	0.875
2404-04-12	1/4	7/16-20	3/4-14	0.172	0.719	1.75	1.125
2404-05-02	5/16	1/2-20	1/8-27	0.234	0.188	1.22	0.562
2404-05-04	5/16	1/2-20	1/4-18	0.234	0.281	1.42	0.562
2404-05-06	5/16	1/2-20	3/8-18	0.234	0.406	1.42	0.750
2404-05-08	5/16	1/2-20	1/2-14	0.234	0.531	1.68	0.875
2404-06-02	3/8	9/16-18	1/8-27	0.297	0.188	1.24	0.625
2404-06-04	3/8	9/16-18	1/4-18	0.297	0.281	1.430	0.625
2404-06-06	3/8	9/16-18	3/8-18	0.297	0.297	1.43	0.750
2404-06-08	3/8	9/16-18	1/2-14	0.297	0.531	1.69	0.875
2404-06-12	3/8	9/16-18	3/4-14	0.297	0.719	1.75	1.125
2404-06-16	3/8	9/16-18	1-11-1/2	0.297	0.938	1.940	1.375
2404-08-02	1/2	3/4-16	1/8-27	0.391	0.188	1.340	0.812
2404-08-04	1/2	3/4-16	1/4-18	0.391	0.281	1.530	0.812
2404-08-06	1/2	3/4-16	3/8-18	0.391	0.391	1.530	0.812
2404-08-08	1/2	3/4-16	1/2-14	0.391	0.531	1.790	0.875
2404-08-12	1/2	3/4-16	3/4-14	0.391	0.719	1.85	1.125
2404-08-16	1/2	3/4-16	1-11-1/2	0.391	0.938	2.050	1.375
2404-10-04	5/8	7/8-14	1/4-18	0.484	0.281	1.690	0.937
2404-10-06	5/8	7/8-14	3/8-18	0.484	0.406	1.700	0.937
2404-10-08	5/8	7/8-14	1/2-14	0.484	0.484	1.890	0.937
2404-10-12	5/8	7/8-14	3/4-14	0.484	0.719	1.950	1.125
2404-10-16	5/8	7/8-14	1-11-1/2	0.484	0.938	2.15	1.375
2404-10-20	5/8	7/8-14	1-1/4-11-1/2	0.484	1.250	2.250	1.688
2404-12-04	3/4	1-1/16-12	1/4-18	0.609	0.281	1.87	1.125
2404-12-06	3/4	1-1/16-12	3/8-18	0.609	0.406	1.87	1.125
2404-12-08	3/4	1-1/16-12	1/2-14	0.609	0.531	2.060	1.125
2404-12-12	3/4	1-1/16-12	3/4-14	0.609	0.719	2.060	1.125
2404-12-16	3/4	1-1/16-12	1-11-1/2	0.609	0.938	2.25	1.375
2404-12-20	3/4	1-1/16-12	1-1/4-11-1/2	0.609	1.250	2.360	1.688
2404-12-24	3/4	1-1/16-12	1-1/2-11-1/2	0.609	1.500	2.46	2.000
2404-14-08	7/8	1-3/16-12	1/2-14	0.719	0.531	2.09	1.250
2404-14-12	7/8	1-3/16-12	3/4-14	0.719	0.719	2.09	1.250
2404-14-16	7/8	1-3/16-12	1-11-1/2	0.719	0.938	2.28	1.375
2404-16-08	1	1-5/16-12	1/2-14	0.844	0.531	2.11	1.375
2404-16-12	1	1-5/16-12	3/4-14	0.844	0.719	2.11	1.375
2404-16-16	1	1-5/16-12	1-11-1/2	0.844	0.844	2.30	1.375
2404-16-20	1	1-5/16-12	1-1/4-11-1/2	0.844	1.250	2.40	1.688
2404-16-24	1	1-5/16-12	1-1/2-11-1/2	0.844	1.500	2.51	2.000
2404-16-32	1	1-5/16-12	2-11-1/2	0.844	1.938	2.690	2.500
2404-20-12	1 1/4	1-5/8-12	3/4-14	1.078	0.719	2.230	1.625
2404-20-16	1 1/4	1-5/8-12	1-11-1/2	1.078	0.938	2.42	1.688
2404-20-20	1 1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.45	1.688
2404-20-24	1 1/4	1-5/8-12	1-1/2-11-1/2	1.078	1.500	2.550	2.000
2404-20-32	1 1/4	1-5/8-12	2-11-1/2	1.078	1.938	2.735	2.500
2404-20-40	1 1/4	1-5/8-12	2-1/2 - 8	1.078	2.318	3.200	3.250
2404-24-12	1-1/2	1-7/8-12	3/4-14	1.312	0.719	2.430	2.000
2404-24-16	1 1/2	1-7/8-12	1-11-1/2	1.312	0.938	2.62	2.000

Continued...

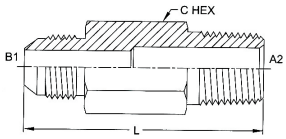
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	C HEX
2404-24-20	1 1/2	1-7/8-12	1-1/4-11-1/2	1.250	1.250	2.650	2.000
2404-24-24	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	2.68	2.000
2404-24-32	1 1/2	1 7/8-12	2-11 1/2	1.312	1.938	2.86	2.625
2404-32-16	2	2 1/2-12	1-11 1/2	1.781	0.938	3.020	2.625
2404-32-20	2	2 1/2-12	1 1/4-11 1/2	1.781	1.250	3.05	2.625
2404-32-24	2	2 1/2-12	1 1/2-11 1/2	1.781	1.500	3.080	2.625
2404-32-32	2	2 1/2-12	2-11 1/2	1.781	1.938	3.11	2.625
2404-32-40	2	2-1/2-12	2-1/2-8	1.781	2.185	3.680	3.000
2404-32-48	2	2-1/2-13	3-8	1.781	2.780	3.74	3.750
2404-40-32	2-1/2	3-12	2-11-1/2	2.279	1.938	2.890	3.000
2404-40-40	2 1/2	3 -12	2-1/2 - 8	2.318	2.318	3.37	3.250
2404-48-48	3	3 1/2-12	3-8	2.780	2.780	3.64	3.750
2404-03-04	3/16	3/8-24	1/4-18	0.125	0.281	1.350	0.625
2404-14-20	7/16	1-3/16-12	1-1/4-11-1/2	0.719	1.250	2.380	1.687
2404-16-06	1	1-5/16-12	3/8-18	0.844	0.406	1.92	1.375

2404-L MJ-MP STRAIGHT LONG



PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	C HEX
2404-L-04-02	1/4	7/16-20	1/8-27	0.172	0.172	1.820	0.500
2404-L-04-04	1/4	7/16-20	1/4-18	0.172	0.281	2.250	0.625
2404-L-05-02	5/16	1/2-20	1/8-27	0.234	0.188	1.94	0.562
2404-L-05-04	5/16	1/2-20	1/4-18	0.234	0.281	2.250	0.562
2404-L-06-02	3/8	9/16-18	1/8-27	0.297	0.188	2.200	0.625
2404-L-06-04	3/8	9/16-18	1/4-18	0.297	0.281	2.250	0.625
2404-L-06-06	3/8	9/16-18	3/8-18	0.297	0.297	2.500	0.750
2404-L-06-08	3/8	9/16-18	1/2-14	0.297	0.531	2.75	0.875
2404-L-08-04	1/2	3/4-16	1/4-18	0.391	0.281	2.75	0.812
2404-L-08-06	1/2	3/4-16	3/8-18	0.391	0.391	2.750	0.813
2404-L-08-08	1/2	3/4-16	1/2-14	0.391	0.391	3.04	0.875
2404-L-10-06	5/8	7/8-14	3/8-18	0.484	0.406	2.94	0.937
2404-L-10-08	5/8	7/8-14	1/2-14	0.484	0.531	3.12	0.937
2404-L-12-12	3/4	1 1/16-12	3/4-14	0.609	0.609	3.50	1.125
2404-L-16-12	1	1 5/16-12	3/4-14	0.844	0.719	3.81	1.375
2404-L-16-16	1	1 5/16-12	1-11 1/2	0.844	0.938	4.00	1.375
2404-L-20-20	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	4.500	1.688
2404-L-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	1.500	4.88	2.000
2404-L-32-32	2	2 1/2-12	2-11 1/2	1.781	1.938	5.620	2.625

2404-LL MJ-MP STRAIGHT X-LONG

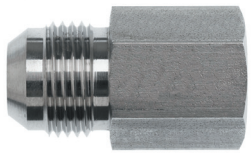


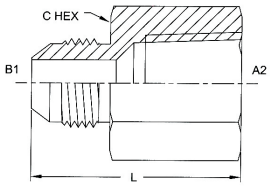
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	C HEX
2404-LL-04-02	1/4	7/16-20	1/8-27	0.172	0.172	2.560	0.500
2404-LL-04-04	1/4	7/16-20	1/4-18	0.172	0.281	3.25	0.562
2404-LL-05-02	5/16	1/2-20	1/8-27	0.234	0.188	2.81	0.562
2404-LL-06-04	3/8	9/16-18	1/4-18	0.281	0.281	3.250	0.625
2404-LL-06-06	3/8	9/16-18	3/8-18	0.297	0.406	3.920	0.750

Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	C HEX
2404-LL-08-06	1/2	3/4-16	3/8-18	0.391	0.391	4.00	0.812
2404-LL-08-08	1/2	3/4-16	1/2-14	0.391	0.531	4.200	0.875
2404-LL-10-08	5/8	7/8-14	1/2-14	0.484	0.531	4.38	0.875
2404-LL-12-12	3/4	1 1/16-12	3/4-14	0.609	0.719	5.00	1.125
2404-LL-16-12	1	1-5/16-12	3/4-14	0.844	0.719	5.560	1.375
2404-LL-16-16	1	1 5/16-12	1-11 1/2	0.844	0.938	5.750	1.375

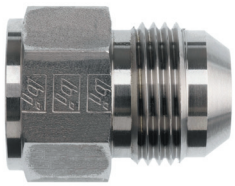
2405 MJ-FP STRAIGHT

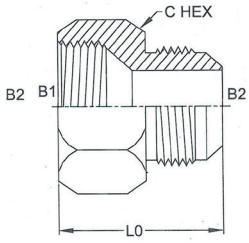




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	L LGTH	C HEX
2405-02-02	1/8	5/16-24	1/8-27	0.062	1.120	0.562
2405-02-04	1/8	5/16-24	1/4-18	0.083	1.290	0.750
2405-03-02	3/16	3/8-24	1/8-27	0.125	1.130	0.562
2405-03-04	3/16	3/8-24	1/4-18	0.125	1.310	0.750
2405-04-02	1/4	7/16-20	1/8-27	0.172	1.19	0.562
2405-04-04	1/4	7/16-20	1/4-18	0.172	1.390	0.750
2405-04-06	1/4	7/16-20	3/8-18	0.172	1.450	0.875
2405-04-08	1/4	7/16-20	1/2-14	0.172	1.68	1.125
2405-05-02	5/16	1/2-20	1/8-27	0.234	1.170	0.562
2405-05-04	5/16	1/2-20	1/4-18	0.234	1.390	0.750
2405-05-06	5/16	1/2-20	3/8-18	0.234	1.450	0.875
2405-05-08	5/16	1/2-20	1/2-14	0.234	1.680	1.125
2405-06-02	3/8	9/16-18	1/8-27	0.297	1.190	0.625
2405-06-04	3/8	9/16-18	1/4-18	0.297	1.40	0.750
2405-06-06	3/8	9/16-18	3/8-18	0.297	1.46	0.875
2405-06-08	3/8	9/16-18	1/2-14	0.297	1.690	1.125
2405-06-12	3/8	9/16-18	3/4-14	0.297	1.75	1.375
2405-08-04	1/2	3/4-16	1/4-18	0.391	1.550	0.813
2405-08-06	1/2	3/4-16	3/8-18	0.391	1.560	0.875
2405-08-08	1/2	3/4-16	1/2-14	0.391	1.79	1.125
2405-08-12	1/2	3/4-16	3/4-14	0.391	1.850	1.375
2405-08-16	1/2	3/4-16	1-11-1/2	0.391	2.100	1.625
2405-10-04	5/8	7/8-14	1/4-18	0.484	1.66	1.125
2405-10-06	5/8	7/8-14	3/8-18	0.484	1.670	0.938
2405-10-08	5/8	7/8-14	1/2-14	0.484	1.89	1.125
2405-10-12	5/8	7/8-14	3/4-14	0.484	1.95	1.375
2405-10-16	5/8	7/8-14	1-11 1/2	0.484	2.20	1.625
2405-12-08	3/4	1 1/16-12	1/2-14	0.609	2.05	1.125
2405-12-12	3/4	1 1/16-12	3/4-14	0.609	2.06	1.375
2405-12-16	3/4	1 1/16-12	1-11 1/2	0.609	2.30	1.625
2405-14-08	7/8	1 3/16-12	1/2-14	0.719	2.05	1.375
2405-14-12	7/8	1 3/16-12	3/4-14	0.719	2.06	1.375
2405-16-12	1	1-5/16-12	3/4-14	0.844	2.110	1.375
2405-16-16	1	1 5/16-12	1-11 1/2	0.844	2.350	1.625
2405-16-20	1	1-5/16-12	1-1/4-11-1/2	0.844	2.440	2.000
2405-20-16	1 1/4	1 5/8-12	1-11 1/2	1.078	2.47	1.687
2405-20-20	1 1/4	1 5/8-12	1 1/4-11 1/2	1.078	2.49	2.000
2405-20-24	1 1/4	1 5/8-12	1 1/2-11 1/2	1.078	2.500	2.375
2405-24-20	1-1/2	1-7/8-12	1-1/4-11-1/2	1.312	2.590	2.000
2405-24-24	1 1/2	1 7/8-12	1 1/2-11 1/2	1.312	2.62	2.375
2405-24-32	1 1/2	1 7/8-12	2-11-1/2	1.312	2.72	2.875
2405-32-24	2	2 1/2-12	1 1/2-11 1/2	1.781	2.950	2.625
2405-32-32	2	2 1/2-12	2-11 1/2	1.781	2.97	2.875
2405-40-40	2-1/2	3-12	2-1/2-8	2.318	2.780	3.250
2405-16-08	1	1-5/16-12	1/2-14	0.844	2.110	1.375
2405-24-16	1-1/2	1-7/8-12	1-11-1/2	1.312	2.450	2.000

2406 FJ-MJ STRAIGHT REDUCER (NON-SWIVEL)



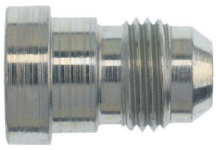


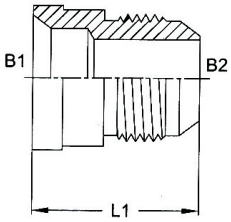
PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	L0 LGTH	C HEX	B2 DRILL
2406-03-04	3/16	1/4	3/8-24	7/16-20	0.980	0.500	0.125
2406-04-02	1/4	1/8	7/16-20	5/16-24	1.04	0.563	0.062
2406-04-03	1/4	3/16	7/16-20	3/8-24	1.070	0.562	0.125
2406-04-04	1/4	1/4	7/16-20	7/16-20	1.15	0.562	0.172
2406-04-05	1/4	5/16	7/16-20	1/2-20	1.150	0.625	0.172
2406-04-06	1/4	3/8	7/16-20	9/16-18	1.16	0.625	0.172
2406-04-08	1/4	1/2	7/16-20	3/4-16	1.25	0.812	0.172
2406-05-04	5/16	1/4	1/2-20	7/16-20	1.190	0.625	0.172
2406-05-06	5/16	3/8	1/2-20	9/16-18	1.190	0.625	0.234
2406-05-08	5/16	1/2	1/2-20	3/4-16	1.27	0.812	0.234
2406-06-02	3/8	1/8	9/16-18	5/16-24	1.07	0.688	0.062
2406-06-03	3/8	3/16	9/16-18	3/8-24	1.10	0.688	0.125
2406-06-04	3/8	1/4	9/16-18	7/16-20	1.19	0.688	0.172
2406-06-05	3/8	5/16	9/16-18	1/2-20	1.190	0.688	0.234
2406-06-06	3/8	3/8	9/16-18	9/16-18	1.180	0.688	0.297
2406-06-08	3/8	1/2	9/16-18	3/4-16	1.28	0.812	0.297
2406-06-10	3/8	5/8	9/16-18	7/8-14	1.38	0.937	0.297
2406-08-04	1/2	1/4	3/4-16	7/16-20	1.45	0.875	0.172
2406-08-05	1/2	5/16	3/4-16	1/2-20	1.30	0.875	0.234
2406-08-06	1/2	3/8	3/4-16	9/16-18	1.31	0.875	0.297
2406-08-08	1/2	1/2	3/4-16	3/4-16	1.41	0.875	0.391
2406-08-10	1/2	5/8	3/4-16	7/8-14	1.290	0.937	0.391
2406-08-12	1/2	3/4	3/4-16	1-1/16-12	1.61	1.125	0.391
2406-10-04	5/8	1/4	7/8-14	7/16-20	1.41	1.000	0.172
2406-10-05	5/8	5/16	7/8-14	1/2-20	1.390	1.000	0.234
2406-10-06	5/8	3/8	7/8-14	9/16-18	1.41	1.000	0.297
2406-10-08	5/8	1/2	7/8-14	3/4-16	1.41	1.000	0.391
2406-10-12	5/8	3/4	7/8-14	1-1/16-12	1.71	1.125	0.484
2406-10-16	5/8	1	7/8-14	1-5/16-12	1.76	1.375	0.484
2406-12-04	3/4	1/4	1-1/16-12	7/16-20	1.50	1.250	0.172
2406-12-06	3/4	3/8	1-1/16-12	9/16-18	1.500	1.250	0.297
2406-12-08	3/4	1/2	1-1/16-12	3/4-16	1.68	1.250	0.391
2406-12-10	3/4	5/8	1-1/16-12	7/8-14	1.68	1.250	0.484
2406-12-12	3/4	3/4	1-1/16-12	1-1/16-12	1.77	1.250	0.609
2406-12-16	3/4	1	1-1/16-12	1-5/16-12	1.817	1.375	0.609
2406-12-20	3/4	1-1/4	1-1/16-12	1-5/8-12	1.71	1.687	0.609
2406-14-04	7/8	1/4	1-3/16-12	7/16-20	1.52	1.375	0.172
2406-14-06	7/8	3/8	1-3/169-12	9/16-18	1.59	1.375	0.297
2406-14-08	7/8	1/2	1-3/16-12	3/4-16	1.690	1.375	0.391
2406-14-10	7/8	5/8	1-3/16-12	7/8-14	1.73	1.375	0.484
2406-14-12	7/8	3/4	1-3/16-12	1-1/16-12	1.840	1.375	0.609
2406-14-16	7/8	1	1-3/16-12	1-5/16-12	2.000	1.375	0.719
2406-16-04	1	1/4	1-5/16-12	7/16-20	1.840	1.500	0.172
2406-16-06	1	3/8	1-5/16-12	9/16-18	1.84	1.500	0.297
2406-16-08	1	1/2	1-5/16-12	3/4-16	1.72	1.500	0.391
2406-16-10	1	5/8	1-5/16-12	7/8-14	1.79	1.500	0.484
2406-16-12	1	3/4	1-5/16-12	1-1/16-12	1.90	1.500	0.609
2406-16-14	1	7/8	1-5/16-12	1-3/16-12	1.910	1.500	0.719
2406-16-20	1	1-1/4	1-5/16-12	1-5/8-12	1.71	1.688	0.844
2406-16-24	1	1-1/2	1-5/16-12	1-7/8-12	2.10	2.000	0.844
2406-20-06	1-1/4	3/8	1-5/8-12	9/16-18	1.670	2.000	0.297
2406-20-08	1-1/4	1/2	1-5/8-12	3/4-16	1.840	2.000	0.391
2406-20-10	1-1/4	5/8	1-5/8-12	7/8-14	1.920	2.000	0.484
2406-20-12	1-1/4	3/4	1-5/8-12	1-1/16-12	2.000	2.000	0.609

Continued...

PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	L0 LGTH	C HEX	B2 DRILL
2406-20-14	1-1/4	7/8	1-5/8-12	1-3/16-12	1.95	2.000	0.719
2406-20-16	1-1/4	1	1-5/8-12	1-5/16-12	2.000	2.000	0.844
2406-20-24	1-1/4	1-1/2	1-5/8-12	1-7/8-12	2.140	2.000	1.078
2406-24-08	1-1/2	1/2	1-7/8-12	3/4-16	1.85	2.250	0.391
2406-24-10	1-1/2	5/8	1-7/8-12	7/8-14	1.95	2.250	0.484
2406-24-12	1-1/2	3/4	1-7/8-12	1-1/16-12	2.10	2.250	0.609
2406-24-14	1-1/2	7/8	1-7/8-12	1-3/16-12	2.08	2.250	0.719
2406-24-16	1-1/2	1	1-7/8-12	1-5/16-12	2.15	2.250	0.844
2406-24-20	1-1/2	1-1/4	1-7/8-12	1-5/8-12	2.19	2.250	1.078
2406-24-32	1-1/2	2	1-7/8-12	2-1/2-12	2.52	2.625	1.312
2406-32-12	2	3/4	2-1/2-12	1-1/16-12	2.30	2.875	0.609
2406-32-16	2	1	2-1/2-12	1-5/16-12	2.350	2.875	0.844
2406-32-20	2	1-1/4	2-1/2-12	1-5/8-12	2.580	2.875	1.078
2406-32-24	2	1-1/2	2-1/2-12	1-7/8-12	2.744	2.875	1.312

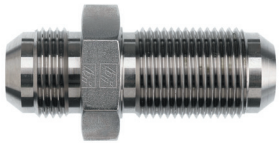
2406-IN FJ-MJ STRAIGHT REDUCER (INSERT ONLY)

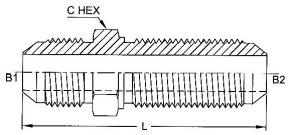




PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	L1 LGTH
2406-04-02-IN	1/4	1/8	7/16-20	5/16-24	.75
2406-06-04-IN	3/8	1/4	9/16-18	7/16-20	0.97
2406-08-04-IN	1/2	1/4	3/4-16	7/16-20	1.00
2406-08-06-IN	1/2	3/8	3/4-16	9/16-18	1.00
2406-10-04-IN	5/8	1/4	7/8-14	7/16-20	1.03
2406-10-06-IN	5/8	3/8	7/8-14	9/16-18	1.03
2406-12-04-IN	3/4	1/4	1-1/16-12	7/16-20	1.09
2406-12-06-IN	3/4	3/8	1-1/16-12	9/16-18	1.090
2406-12-08-IN	3/4	1/2	1-1/16-12	3/4-16	1.190
2406-14-06-IN	7/8	3/8	1-3/16-12	9/16-18	1.13
2406-14-10-IN	7/8	5/8	1-3/16-12	7/8-14	1.33
2406-16-04-IN	1	1/4	1-5/16-12	7/16-20	1.22
2406-16-06-IN	1	3/8	1-5/16-12	9/16-18	1.22
2406-16-08-IN	1	1/2	1-5/16-12	3/4-16	1.27
2406-16-10-IN	1	5/8	1-5/16-12	7/8-14	1.38
2406-16-12-IN	1	3/4	1-5/16-12	1-1/16-12	1.470
2406-20-12-IN	1-1/4	3/4	1-5/8-12	1-1/16-12	1.53
2406-20-16-IN	1-1/4	1	1-5/8-12	1-5/16-12	1.66
2406-24-08-IN	1-1/2	1/2	1-7/8-12	3/4-16	1.56
2406-24-20-IN	1-1/2	1-1/4	1-7/8-12	1-5/8-12	1.690
2406-32-08-IN	2	1/2	2-1/2-12	3/4-16	1.85
2406-12-10-IN	3/4	5/8	1-1/16-12	7/8-14	1.66
2406-20-04-IN	1-1/4	1/4	1-5/8-12	7/16-20	1.430
2406-20-08-IN	1-1/4	1/2	1-5/8-12	3/4-16	1.72
2406-20-10-IN	1-1/4	5/8	1-5/8-12	7/8-14	1.82
2406-24-12-IN	1-1/2	3/4	1-7/8-12	1-1/16-12	1.63
2406-24-16-IN	1-1/2	1	1-7/8-12	1-5/16-12	1.63
2406-32-16-IN	2	1	2-1/2-12	1-5/16-12	2.35
2406-32-20-IN	2	1-1/4	2-1/2-12	1-5/8-12	2.40

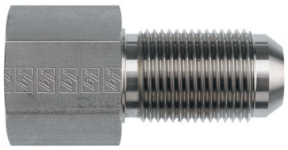
2700 MJ-MJ BULKHEAD STRAIGHT

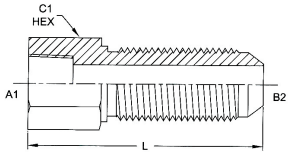




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	L LGTH	C HEX
2700-02-02	1/8	5/16-24	5/16-24	0.062	0.062	1.870	0.562
2700-03-03	3/16	3/8-24	3/8-24	0.125	0.125	1.90	0.625
2700-04-04	1/4	7/16-20	7/16-20	0.172	0.172	2.07	0.688
2700-04-06	1/4	7/16-20	9/16-18	0.172	0.297	2.170	0.812
2700-05-05	5/16	1/2-20	1/2-20	0.234	0.234	2.070	0.750
2700-06-04	3/8	9/16-18	7/16-20	0.297	0.172	2.100	0.812
2700-06-06	3/8	9/16-18	9/16-18	0.297	0.297	2.18	0.812
2700-08-08	1/2	3/4-16	3/4-16	0.391	0.391	2.44	1.000
2700-10-10	5/8	7/8-14	7/8-14	0.484	0.484	2.74	1.125
2700-12-12	3/4	1-1/16-12	1-1/16-12	0.609	0.609	3.09	1.375
2700-14-14	7/8	1-3/16-12	1-3/16-12	0.719	0.719	3.120	1.500
2700-16-12	1	1-5/16-12	1-1/16-12	0.844	0.609	3.14	1.625
2700-16-16	1	1-5/16-12	1-5/16-12	0.844	0.844	3.14	1.625
2700-20-20	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	3.31	1.875
2700-24-24	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	3.52	2.125
2700-32-32	2	2-1/2-12	2-1/2-12	1.781	1.781	4.20	2.750

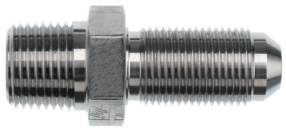
2705 FP-MJ BULKHEAD STRAIGHT

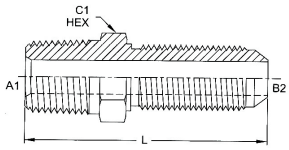




PART NO.	TUBE O.D.	A1 NPTF	B2 SAE 37Deg	B2 DRILL	L LGTH	C1 HEX
2705-02-04	1/4	1/8-27	7/16-20	0.172	1.840	0.688
2705-04-04	1/4	1/4-18	7/16-20	0.172	2.080	0.750
2705-04-06	3/8	1/4-18	9/16-18	0.297	2.17	0.812
2705-06-04	3/8	3/8-18	7/16-20	0.172	2.190	0.875
2705-06-06	3/8	3/8-18	9/16-18	0.297	2.220	0.875
2705-06-08	1/2	3/8-18	3/4-16	0.391	2.39	1.000
2705-08-06	3/8	1/2-14	9/16-18	0.297	2.46	1.125
2705-08-08	1/2	1/2-14	3/4-16	0.391	2.610	1.125
2705-08-10	5/8	1/2-14	7/8-14	0.484	2.840	1.125
2705-12-12	3/4	3/4-14	1-1/16-12	0.609	2.99	1.375
2705-12-14	7/8	3/4-14	1-3/16-12	0.719	2.99	1.500
2705-16-16	1	1-11-1/2	1-5/16-12	0.844	3.230	1.625
2705-20-20	1-1/4	1-1/4-11-1/2	1-5/8-12	1.078	3.38	2.000
2705-24-24	1-1/2	1-1/2-11-1/2	1-7/8-12	1.312	3.39	2.375
2705-32-32	2	2-11-1/2	2-1/2-12	1.781	3.602	2.875
2705-02-05	5/16	1/8-27	1/2-20	0.234	1.89	0.750

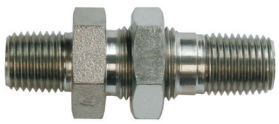
2706 MP-MJ BULKHEAD STRAIGHT

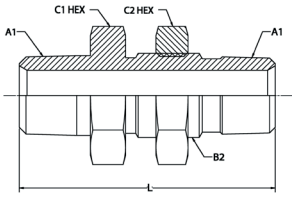




PART NO.	TUBE O.D.	A1 NPTF	B2 SAE 37Deg	A1 DRILL	B2 DRILL	L LGTH	C1 HEX
2706-02-04	1/4	1/8-27	7/16-20	0.172	0.172	1.840	0.688
2706-04-02	1/8	1/4-18	5/16-24	0.281	0.062	1.980	0.625
2706-04-04	1/4	1/4-18	7/16-20	0.281	0.172	2.080	0.687
2706-04-06	3/8	1/4-18	9/16-18	0.281	0.281	2.180	0.812
2706-06-06	3/8	3/8-18	9/16-18	0.406	0.297	2.18	0.812
2706-06-08	1/2	3/8-18	3/4-16	0.391	0.391	2.350	1.000
2706-08-06	3/8	1/2-14	9/16-18	0.531	0.297	2.410	0.875
2706-08-08	1/2	1/2-14	3/4-16	0.531	0.391	2.60	1.000
2706-08-10	5/8	1/2-14	7/8-14	0.484	0.484	2.80	1.125
2706-08-12	3/4	1/2-14	1-1/16-12	0.531	0.609	2.92	1.375
2706-12-12	3/4	3/4-14	1-1/16-12	0.719	0.609	2.920	1.375
2706-16-16	1	1-11-1/2	1-5/16-12	0.938	0.844	3.17	1.625
2706-20-20	1-1/4	1-1/4-11-1/2	1-5/8-12	1.250	1.078	3.32	1.875
2706-24-24	1-1/2	1-1/2-11-1/2	1-7/8-12	1.312	1.312	3.500	2.125
2706-32-32	2	2-11-1/2	2-1/2-12	1.938	1.781	3.91	2.750
2706-12-16	1	3/4-14	1-5/16-12	0.719	0.844	2.980	1.625

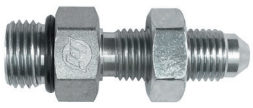
2708-LN MP-MP STRAIGHT BULKHEAD W/ LOCK NUT

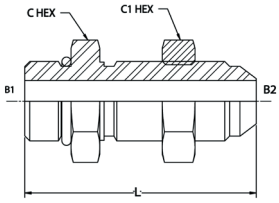




PART NO.	B1 NPTF	B2 NPTF	B3 BSPP	B1 DRILL	B2 DRILL	L LENG-HT	C1 HEX	C HEX
2708-LN-04-04	1/4-18	1/4-18	3/8-19	0.281	0.281	2.320	0.866	0.866
2708-LN-06-06	3/8-18	3/8-18	1/2-14	0.406	0.406	2.380	1.062	1.062
2708-LN-08-08	1/2-14	1/2-14	5/8-14	0.531	0.531	2.700	1.260	1.260
2708-LN-12-12	3/4-14	3/4-14	3/4-14	0.719	0.719	2.950	1.417	1.417
2708-LN-16-16	1-11-1/2	1-11-1/2	1-1/4-11	0.938	0.938	3.430	1.968	1.968

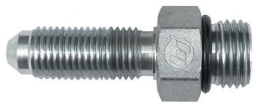
2764-LN-0 MORB-MJIC BLKHD W/ LOCK NUT

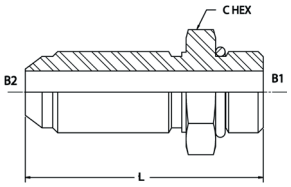




PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE ORB	B2 SAE 37Deg	B1 DRILL	B2 DRILL	L LENGTH	C1 HEX	C HEX
2764-LN-04-04-0	1/4	1/4	7/16-20	7/16-20	0.172	0.172	1.950	0.688	0.688
2764-LN-06-04-0	3/8	1/4	9/16-18	7/16-20	0.297	0.172	1.969	0.812	0.688
2764-LN-06-06-0	3/8	3/8	9/16-18	9/16-18	0.297	0.297	2.020	0.813	0.813
2764-LN-10-10-0	5/8	5/8	7/8-14	7/8-14	0.484	0.484	2.470	1.125	1.125

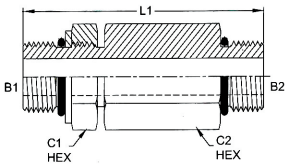
2764-0 MORB-MJIC BLKHD





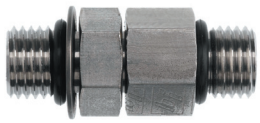
PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE ORB	B2 SAE 37Deg	B1 DRILL	B2 DRILL	L LENGTH	C HEX
2764-04-04-0	1/4	1/4	7/16-20	7/16-20	0.172	0.172	1.950	0.688
2764-06-04-0	3/8	1/4	9/16-18	7/16-20	0.297	0.172	1.969	0.687
2764-06-06-0	3/8	3/8	9/16-18	9/16-18	0.297	0.297	2.020	0.813
2764-10-10-0	5/8	5/8	7/8-14	7/8-14	0.484	0.484	2.470	1.125
2764-12-12-0	3/4	3/4	1-1/16-12	1-1/16-12	0.609	0.609	2.815	1.375
2764-16-16-0	1	1	1-5/16-12	1-5/16-12	0.844	0.844	2.900	1.625
2764-08-08-0	1/2	1/2	3/4-16	3/4-16	0.391	0.391	2.190	1.000

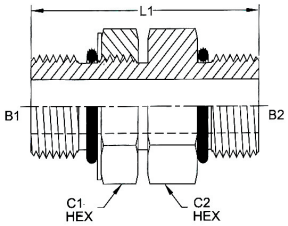
3474-LLL-NWO MAORB-ORB STRAIGHT



PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 AORB	B2 ORB	B1 DRILL	B2 DRILL	L1 LGTH	C1 HEX	C2 HEX
3474-LLL-04-04-NWO	1/4	1/4	7/16-20	7/16-20	0.172	0.172	3.00	0.562	0.562

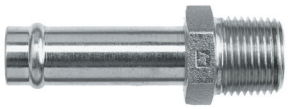
3474-NWO MAORB-ORB STRAIGHT

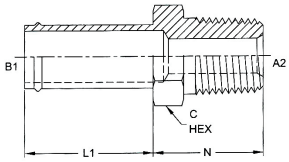




PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 AORB	B2 ORB	B1 DRILL	B2 DRILL	L1 LGTH	C1 HEX	C2 HEX
3474-04-04-NWO	1/4	1/4	7/16-20	7/16-20	0.172	0.172	1.47	0.563	0.563
3474-06-04-NWO	3/8	7/16	9/16-18	7/16-20	0.297	0.172	1.540	0.688	0.688
3474-06-06-NWO	3/8	3/8	9/16-18	9/16-18	0.297	0.297	1.56	0.688	0.688
3474-08-06-NWO	1/2	1/2	3/4-16	9/16-18	0.391	0.297	1.72	0.875	0.875
3474-08-08-NWO	1/2	1/2	3/4-16	3/4-16	0.391	0.391	1.560	0.875	0.875
3474-08-12-NWO	3/4	3/4	3/4-16	1-1/16-12	0.391	0.609	2.050	1.250	1.250
3474-10-08-NWO	5/8	5/8	7/8-14	3/4-16	0.484	0.391	1.980	1.000	1.000
3474-10-10-NWO	5/8	5/8	7/8-14	7/8-14	0.484	0.484	2.04	1.000	1.000
3474-12-08-NWO	3/4	1/2	1-1/16-12	3/4-16	0.609	0.391	2.200	1.250	1.125
3474-12-10-NWO	3/4	5/8	1-1/16-12	7/8-14	0.609	0.484	2.130	1.250	1.250
3474-12-12-NWO	3/4	3/4	1-1/16-12	1-1/16-12	0.609	0.609	2.330	1.250	1.250
3474-12-16-NWO	3/4	1	1-1/16-12	1-5/16-12	0.609	0.844	2.360	1.250	1.500
3474-16-12-NWO	1	3/4	1-5/16-12	1-1/16-12	0.844	0.609	2.360	1.375	1.375
3474-16-16-NWO	1	1	1-5/16-12	1-5/16-12	0.844	0.844	2.36	1.500	1.500
3474-20-20-NWO	1-1/4	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.31	1.875	1.875
3474-24-24-NWO	1-1/2	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.420	2.125	2.125
3474-32-32-NWO	2	2	2-1/2-12	2-1/2-12	1.781	1.781	2.59	2.750	2.750

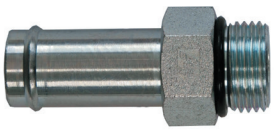
4404 HB-MP STRAIGHT

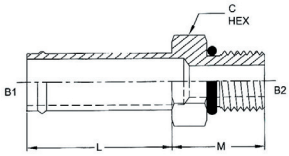




PART NO.	B1 TUBE O.D.	A2 NPTF	B1 DRILL	A2 DRILL	L1 LGTH	N LGTH	C HEX
4404-04-02	1/4	1/8-27	0.188	0.188	1.500	0.620	0.438
4404-04-04	1/4	1/4-18	0.188	0.188	1.50	0.81	0.562
4404-05-02	5/16	1/8-27	0.252	0.188	1.500	0.580	0.438
4404-06-02	3/8	1/8-27	0.295	0.188	1.50	0.63	0.625
4404-06-04	3/8	1/4-18	0.297	0.281	1.50	0.85	0.625
4404-06-06	3/8	3/8-18	0.295	0.406	1.500	0.850	0.750
4404-08-04	1/2	1/4-18	0.406	0.281	1.50	0.85	0.625
4404-08-06	1/2	3/8-18	0.406	0.406	1.500	0.850	0.750
4404-08-08	1/2	1/2-14	0.406	0.531	1.50	1.10	0.937
4404-08-12	1/2	3/4-14	0.406	0.709	1.50	1.20	1.125
4404-10-06	5/8	3/8-18	0.500	0.406	1.50	0.870	0.875
4404-10-08	5/8	1/2-14	0.500	0.500	1.500	1.063	0.937
4404-10-12	5/8	3/4-14	0.500	0.719	1.50	1.17	1.125
4404-10-16	1	1-11-1/2	0.500	0.938	1.50	1.36	1.375
4404-12-06	3/4	3/8-18	0.625	0.406	1.500	0.870	1.000
4404-12-08	3/4	1/2-14	0.625	0.531	1.500	1.100	1.000
4404-12-12	3/4	3/4-14	0.626	0.709	1.500	1.300	1.125
4404-12-16	3/4	1-11-1/2	0.626	0.938	1.50	1.36	1.375
4404-16-12	1	3/4-14	0.843	0.719	1.500	1.220	1.250
4404-16-16	1	1-11-1/2	0.843	0.938	1.50	1.41	1.375
4404-16-24	1	1-1/2-11-1/2	0.844	1.500	1.500	1.580	2.000
4404-20-12	1 1/4	3/4-14	1.094	0.719	1.50	1.17	1.375
4404-20-16	1 1/4	1-11-1/2	1.094	0.938	1.50	1.36	1.375
4404-20-20	1 1/4	1-1/4-11-1/2	1.094	1.25	1.50	1.45	1.750
4404-20-24	1-1/4	1-1/2-11-1/2	1.094	1.500	1.500	1.580	2.000
4404-24-20	1 1/2	1-1/4-11-1/2	1.343	1.250	1.500	1.450	1.750
4404-24-24	1 1/2	1-1/2-11-1/2	1.343	1.5	1.50	1.58	2.000
4404-32-32	2	2-11-1/2	1.843	1.938	1.50	1.75	2.500
4404-05-06	5/16	3/8-18	0.252	0.406	1.500	0.850	0.750

4604-0 HB-MORB STRAIGHT



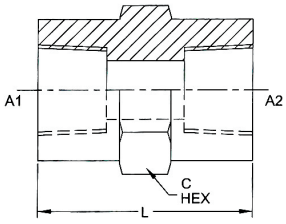


PART NO.	B1 TUBE O.D.	B2 ORB	B1 DRILL	B2 DRILL	L LGTH	M LGTH	C HEX
4604-04-04-0	1/4	7/16-20	0.188	0.188	1.500	0.660	0.562
4604-04-06-0	1/4	9/16-18	0.189	0.297	1.500	0.730	0.687
4604-05-04-0	5/16	7/16-20	0.252	0.172	1.500	0.670	0.562
4604-05-05-0	5/16	1/2-20	0.252	0.234	1.500	0.670	0.625
4604-06-04-0	3/8	7/16-20	0.297	0.172	1.500	0.670	0.562
4604-06-06-0	3/8	9/16-18	0.297	0.297	1.500	0.730	0.687
4604-06-08-0	3/8	3/4-16	0.297	0.391	1.500	0.850	0.875
4604-08-06-0	1/2	9/16-18	0.406	0.297	1.500	0.750	0.688
4604-08-08-0	1/2	3/4-16	0.406	0.391	1.500	0.850	0.875
4604-08-10-0	1/2	7/8-14	0.406	0.484	1.500	0.930	1.000
4604-10-08-0	5/8	3/4-16	0.500	0.391	1.500	0.882	0.875
4604-10-10-0	5/8	7/8-14	0.500	0.484	1.500	0.980	1.000
4604-10-12-0	5/8	1 1/16-12	0.500	0.609	1.500	1.090	1.250
4604-12-08-0	3/4	3/4-16	0.609	0.391	1.500	0.950	1.000
4604-12-10-0	3/4	7/8-14	0.609	0.484	1.500	1.000	1.000

Continued...

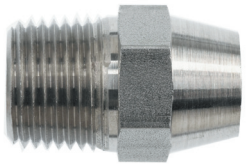
PART NO.	B1 TUBE O.D.	B2 ORB	B1 DRILL	B2 DRILL	L LGTH	M LGTH	C HEX
4604-12-12-0	3/4	1 1/16-12	0.609	0.609	1.500	1.100	1.250
4604-12-16-0	3/4	1-5/16-12	0.625	0.844	1.500	1.100	1.500
4604-16-10-0	1	7/8-14	0.843	0.484	1.500	1.000	1.250
4604-16-12-0	1	1 1/16-12	0.843	0.609	1.500	1.100	1.250
4604-16-14-0	1	1-3/16-12	0.844	0.719	1.500	1.100	1.375
4604-16-16-0	1	1 5/16-12	0.844	0.844	1.500	1.100	1.500
4604-16-20-0	1	1 5/8-12	0.843	1.078	1.500	1.200	1.875
4604-20-10-0	1 1/4	7/8-14	1.094	0.484	1.500	1.075	1.500
4604-20-12-0	1 1/4	1 1/16-12	1.094	0.609	1.500	1.209	1.375
4604-20-16-0	1 1/4	1 5/16-12	1.094	0.844	1.500	1.218	1.500
4604-20-20-0	1 1/4	1-5/8-12	1.094	1.083	1.500	1.218	1.875
4604-20-24-0	1 1/4	1 7/8-12	1.094	1.312	1.500	1.270	2.125
4604-20-32-0	1 1/4	2 1/2-12	1.094	1.781	1.500	1.280	2.750
4604-24-16-0	1 1/2	1 5/16-12	1.343	0.844	1.500	1.130	1.688
4604-24-20-0	1 1/2	1-5/8-12	1.343	1.078	1.500	1.218	1.875
4604-24-24-0	1 1/2	1 7/8-12	1.343	1.312	1.500	1.278	2.125
4604-32-24-0	2	1-7/8-12	1.843	1.312	1.500	1.270	2.250
4604-32-32-0	2	2 1/2-12	1.843	1.781	1.500	1.440	2.750

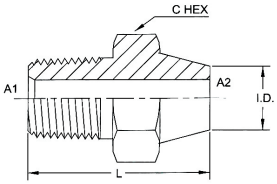
5000 FP-FP STRAIGHT



PART NO.	A1 NPTF	A2 NPTF	L LGTH	C HEX
5000-02-02	1/8-27	1/8-27	0.750	0.625
5000-04-02	1/4-18	1/8-27	1.130	0.750
5000-04-04	1/4-18	1/4-18	1.130	0.750
5000-06-02	3/8-18	1/8-27	1.130	0.875
5000-06-04	3/8-18	1/4-18	1.130	0.875
5000-06-06	3/8-18	3/8-18	1.130	0.875
5000-08-02	1/2-14	1/8-27	1.500	1.125
5000-08-04	1/2-14	1/4-18	1.500	1.125
5000-08-06	1/2-14	3/8-18	1.500	1.125
5000-08-08	1/2-14	1/2-14	1.500	1.125
5000-12-04	3/4-14	1/4-18	1.530	1.375
5000-12-06	3/4-14	3/8-18	1.530	1.375
5000-12-08	3/4-14	1/2-14	1.530	1.375
5000-12-12	3/4-14	3/4-14	1.530	1.375
5000-16-06	1-11-1/2	3/8-18	1.890	1.625
5000-16-08	1-11-1/2	1/2-14	1.890	1.625
5000-16-12	1-11-1/2	3/4-14	1.890	1.625
5000-16-16	1-11-1/2	1-11-1/2	1.890	1.625
5000-20-16	1-1/4-11-1/2	1-11-1/2	1.930	2.000
5000-20-20	1-1/4-11-1/2	1-1/4-11-1/2	1.930	2.000
5000-24-16	1-1/2-11-1/2	1-11-1/2	1.930	2.375
5000-24-20	1-1/2-11-1/2	1-1/4-11-1/2	1.930	2.375
5000-24-24	1-1/2-11-1/2	1-1/2-11-1/2	1.930	2.375
5000-32-24	2-11-1/2	1-1/2-11-1/2	1.960	2.875
5000-32-32	2-11-1/2	2-11-1/2	1.960	2.875
5000-40-40	2-1/2-8	2-1/2-8	2.670	3.500

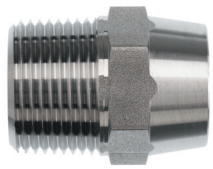
5304 MP-BW WELD-ON FITTING 304SS

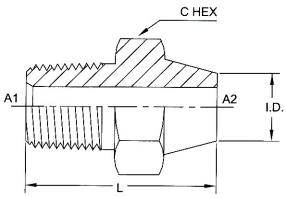




PART NO.	PIPE O.D.	A1 NPTF	A2 WELD-ON	I.D.	L LGTH	C1 HEX
5304-04-SS	1/4	1/4-18	1/4	0.250	1.197	0.562
5304-06-SS	3/8	3/8-18	3/8	0.375	1.250	0.750
5304-08-SS	1/2	1/2-14	1/2	0.500	1.438	0.875
5304-12-SS	3/4	3/4-14	3/4	0.750	1.500	1.062
5304-16-SS	1	1-11 1/2	1	1.000	1.700	1.312
5304-20-SS	1 1/4	1 1/4-11 1/2	1 1/4	1.250	1.940	1.750
5304-24-SS	1 1/2	1 1/2-11 1/2	1 1/2	1.500	2.030	2.000
5304-32-SS	2	2-11-1/2	2	2.000	1.890	2.500

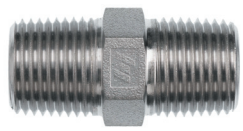
5316 MP-BW WELD-ON FITTING 316SS

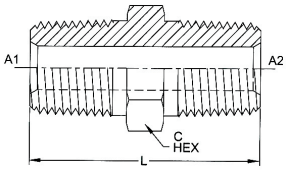




PART NO.	PIPE O.D.	A1 NPTF	A2 WELD-ON	I.D.	L LGTH	C HEX
5316-04-SS	1/4	1/4-18	1/4	0.250	1.197	0.625
5316-06-SS	3/8	3/8-18	3/8	0.375	1.250	0.750
5316-08-SS	1/2	1/2-14	1/2	0.500	1.438	0.875
5316-12-SS	3/4	3/4-14	3/4	0.750	1.500	1.062
5316-16-SS	1	1-11 1/2	1	1.000	1.700	1.375
5316-20-SS	1 1/4	1-1/4-11-1/2	1.250	1 1/4	1.930	1.750
5316-24-SS	1 1/2	1-1/2-11-1/2	1 1/2	1.500	2.030	2.000
5316-32-SS	2	2-11-1/2	2	2.000	1.890	2.500

5404 MP-MP HEX NIPPLE



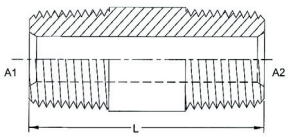


PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	L LGTH	C HEX
5404-02-02	1/8-27	1/8-27	0.188	0.188	1.060	0.438
5404-04-02	1/4-18	1/8-27	0.281	0.188	1.260	0.625
5404-04-04	1/4-18	1/4-18	0.281	0.281	1.450	0.625
5404-06-02	3/8-18	1/8-27	0.406	0.188	1.260	0.750
5404-06-04	3/8-18	1/4-18	0.406	0.281	1.450	0.750
5404-06-06	3/8-18	3/8-18	0.406	0.406	1.450	0.750
5404-08-02	1/2-14	1/8-27	0.531	0.281	1.470	0.875
5404-08-04	1/2-14	1/4-18	0.531	0.281	1.700	0.875
5404-08-06	1/2-14	3/8-18	0.531	0.406	1.700	0.875
5404-08-08	1/2-14	1/2-14	0.531	0.531	1.890	0.875
5404-12-04	3/4-14	1/4-18	0.719	0.281	1.770	1.125

Continued...

PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	L LGTH	C HEX
5404-12-06	3/4-14	3/8-18	0.719	0.406	1.770	1.125
5404-12-08	3/4-14	1/2-14	0.719	0.531	1.960	1.125
5404-12-12	3/4-14	3/4-14	0.719	0.719	1.960	1.125
5404-16-04	1-11-1/2	1/4-18	0.938	0.281	1.960	1.375
5404-16-06	1-11-1/2	3/8-18	0.938	0.406	1.960	1.375
5404-16-08	1-11-1/2	1/2-14	0.938	0.531	2.090	1.375
5404-16-12	1-11-1/2	3/4-14	0.938	0.719	2.150	1.375
5404-16-16	1-11-1/2	1-11-1/2	0.938	0.938	2.340	1.375
5404-20-12	1-1/4-11-1/2	3/4-14	1.250	0.719	2.260	1.750
5404-20-16	1-1/4-11-1/2	1-11-1/2	1.250	0.938	2.450	1.750
5404-20-20	1-1/4-11-1/2	1-1/4-11-1/2	1.250	1.250	2.480	1.750
5404-24-12	1-1/2-11-1/2	3/4-14	1.500	0.719	2.380	2.000
5404-24-16	1-1/2-11-1/2	1-11-1/2	1.500	0.938	2.550	2.000
5404-24-20	1-1/2-11-1/2	1-1/4-11-1/2	1.500	1.250	2.610	2.000
5404-24-24	1-1/2-11-1/2	1-1/2-11-1/2	1.500	1.500	2.610	2.000
5404-32-12	2-11-1/2	3/4-14	1.938	0.719	2.540	2.500
5404-32-16	2-11-1/2	1-11-1/2	1.938	0.938	2.630	2.500
5404-32-20	2-11-1/2	1-1/4-11-1/2	1.938	1.250	2.760	2.500
5404-32-24	2-11-1/2	1-1/2-11-1/2	1.938	1.500	2.790	2.500
5404-32-32	2-11-1/2	2-11-1/2	1.938	1.938	2.820	2.500
5404-40-40	2 1/2-8	2 1/2-8	2.318	2.318	3.950	3.000
5404-02-01	1/16-27	1/8-27	0.110	0.190	1.060	0.438
5404-48-48	3-8	3-8	2.781	2.781	4.130	3.750

5404-N MP-MP STRAIGHT NIPPLE LONG



PART NO.	PIPE O.D.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	L LGTH
5404-N-02X0.750	1/8	1/8-27	1/8-27	0.188	0.188	0.750
5404-N-02X1.000	1/8	1/8-27	1/8-27	0.188	0.188	1.000
5404-N-02X1.500	1/8	1/8-27	1/8-27	0.188	0.188	1.500
5404-N-02X2.000	1/8	1/8-27	1/8-27	0.188	0.188	2.000
5404-N-02X2.500	1/8	1/8-27	1/8-27	0.188	0.188	2.500
5404-N-02X3.000	1/8	1/8-27	1/8-27	0.188	0.188	3.000
5404-N-02X3.500	1/8	1/8-27	1/8-27	0.188	0.188	3.500
5404-N-02X4.000	1/8	1/8-27	1/8-27	0.188	0.188	4.000
5404-N-02X4.500	1/8	1/8-27	1/8-27	0.188	0.188	4.500
5404-N-02X5.000	1/8	1/8-27	1/8-27	0.188	0.188	5.000
5404-N-02X6.000	1/8	1/8-27	1/8-27	0.188	0.188	6.000
5404-N-04X0.875	1/4	1/4-18	1/4-18	0.281	0.281	0.875
5404-N-04X1.500	1/4	1/4-18	1/4-18	0.281	0.281	1.500
5404-N-04X2.000	1/4	1/4-18	1/4-18	0.281	0.281	2.000
5404-N-04X2.500	1/4	1/4-18	1/4-18	0.281	0.281	2.500
5404-N-04X3.000	1/4	1/4-18	1/4-18	0.281	0.281	3.000
5404-N-04X3.500	1/4	1/4-18	1/4-18	0.281	0.281	3.500
5404-N-04X4.000	1/4	1/4-18	1/4-18	0.281	0.281	4.000
5404-N-04X4.500	1/4	1/4-18	1/4-18	0.281	0.281	4.500
5404-N-04X5.000	1/4	1/4-18	1/4-18	0.281	0.281	5.000
5404-N-04X5.500	1/4	1/4-18	1/4-18	0.281	0.281	5.500
5404-N-04X6.000	1/4	1/4-18	1/4-18	0.281	0.281	6.000
5404-N-06X1.000	3/8	3/8-18	3/8-18	0.406	0.406	1.000
5404-N-06X1.500	3/8	3/8-18	3/8-18	0.406	0.046	1.500
5404-N-06X2.000	3/8	3/8-18	3/8-18	0.406	0.406	2.000
5404-N-06X2.500	3/8	3/8-18	3/8-18	0.406	0.406	2.500
5404-N-06X3.000	3/8	3/8-18	3/8-18	0.406	0.406	3.000
5404-N-06X4.000	3/8	3/8-18	3/8-18	0.406	0.406	4.000
5404-N-06X5.000	3/8	3/8-18	3/8-18	0.406	0.406	5.000
5404-N-06X5.500	3/8	3/8-18	3/8-18	0.406	0.406	5.500
5404-N-06X6.000	3/8	3/8-18	3/8-18	0.406	0.406	6.000
5404-N-08X1.125	1/2	1/2-14	1/2-14	0.531	0.531	1.125

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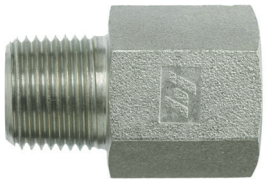
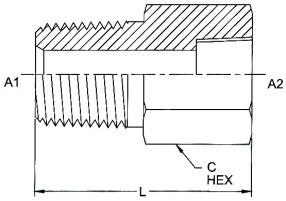
PART NO.	PIPE O.D.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	L LGTH
5404-N-08X1.250	1/2	1/2-14	1/2-14	0.531	0.531	1.250
5404-N-08X1.375	1/2	1/2-14	1/2-14	0.531	0.531	1.375
5404-N-08X1.500	1/2	1/2-14	1/2-14	0.531	0.531	1.500
5404-N-08X1.750	1/2	1/2-14	1/2-14	0.531	0.531	1.750
5404-N-08X2.000	1/2	1/2-14	1/2-14	0.531	0.531	2.000
5404-N-08X2.250	1/2	1/2-14	1/2-14	0.531	0.531	2.250
5404-N-08X2.500	1/2	1/2-14	1/2-14	0.531	0.531	2.500
5404-N-08X3.000	1/2	1/2-14	1/2-14	0.531	0.531	3.000
5404-N-08X3.500	1/2	1/2-14	1/2-14	0.531	0.531	3.500
5404-N-08X4.000	1/2	1/2-14	1/2-14	0.531	0.531	4.000
5404-N-08X4.500	1/2	1/2-14	1/2-14	0.531	0.531	4.500
5404-N-08X5.000	1/2	1/2-14	1/2-14	0.531	0.531	5.000
5404-N-08X6.000	1/2	1/2-14	1/2-14	0.531	0.531	6.000
5404-N-12X1.375	3/4	3/4-14	3/4-14	0.719	0.719	1.375
5404-N-12X1.500	3/4	3/4-14	3/4-14	0.719	0.719	1.500
5404-N-12X1.625	3/4	3/4-14	3/4-14	0.719	0.719	1.625
5404-N-12X2.000	3/4	3/4-14	3/4-14	0.719	0.719	2.000
5404-N-12X2.500	3/4	3/4-14	3/4-14	0.719	0.719	2.500
5404-N-12X3.000	3/4	3/4-14	3/4-14	0.719	0.719	3.000
5404-N-12X3.500	3/4	3/4-14	3/4-14	0.719	0.719	3.500
5404-N-12X4.000	3/4	3/4-14	3/4-14	0.719	0.719	4.000
5404-N-12X4.500	3/4	3/4-14	3/4-14	0.719	0.719	4.500
5404-N-12X5.000	3/4	3/4-14	3/4-14	0.719	0.719	5.000
5404-N-12X5.500	3/4	3/4-14	3/4-14	0.719	0.719	5.500
5404-N-12X6.000	3/4	3/4-14	3/4-14	0.719	0.719	6.000
5404-N-12X6.500	3/4	3/4-14	3/4-14	0.719	0.719	6.500
5404-N-16X1.500	1	1-11 1/2	1-11 1/2	0.938	0.938	1.500
5404-N-16X2.000	1	1-11 1/2	1-11 1/2	0.938	0.938	2.000
5404-N-16X2.500	1	1-11 1/2	1-11 1/2	0.938	0.938	2.500
5404-N-16X3.000	1	1-11 1/2	1-11 1/2	0.938	0.938	3.000
5404-N-16X3.250	1	1-11 1/2	1-11 1/2	0.938	0.938	3.250
5404-N-16X3.500	1	1-11 1/2	1-11 1/2	0.938	0.938	3.500
5404-N-16X3.750	1	1-11 1/2	1-11 1/2	0.938	0.938	3.750
5404-N-16X4.000	1	1-11 1/2	1-11 1/2	0.938	0.938	4.000
5404-N-16X4.500	1	1-11 1/2	1-11 1/2	0.938	0.938	4.500
5404-N-16X5.000	1	1-11 1/2	1-11 1/2	0.938	0.938	5.000
5404-N-16X5.500	1	1-11 1/2	1-11 1/2	0.938	0.938	5.500
5404-N-16X6.000	1	1-11 1/2	1-11 1/2	0.938	0.938	6.000
5404-N-20X1.500	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	1.500
5404-N-20X1.625	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	1.625
5404-N-20X2.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	2.000
5404-N-20X3.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	3.000
5404-N-20X3.500	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	3.500
5404-N-20X4.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	4.000
5404-N-20X6.000	1 1/4	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	6.000
5404-N-20X8.000	1-1/4	1-1/4-11 1/2	1-1/1-11 1/2	1.250	1.250	8.000
5404-N-24X1.750	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	1.750
5404-N-24X2.500	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	2.500
5404-N-24X4.000	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	4.000
5404-N-24X6.000	1 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	6.000
5404-N-06X3.500	3/8	3/8-18	3/8-18	3.500	88.90	3.500
5404-N-06X7.000	3/8	3/8-18	3/8-18	7.000	165.10	7.000
5404-N-12X8.000	3/4	3/4-14	3/4-14	8.000	190.50	8.000

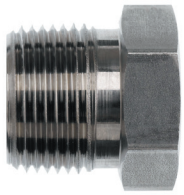
5405 MP-FP STRAIGHT EXPANDER

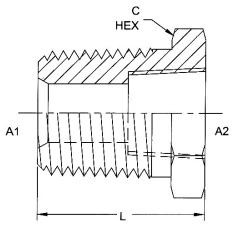




PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	L LGTH	C HEX
5405-01-02	1/16-27	1/8-27	0.117	1.04	0.625
5405-02-02	1/8-27	1/8-27	0.188	1.040	0.625
5405-02-04	1/8-27	1/4-18	0.188	1.210	0.750
5405-02-06	1/8-27	3/8-18	0.188	1.260	0.875
5405-02-08	1/8-27	1/2-14	0.188	1.500	1.125
5405-04-02	1/4-18	1/8-27	0.281	1.220	0.625
5405-04-04	1/4-18	1/4-18	0.281	1.390	0.750
5405-04-06	1/4-18	3/8-18	0.281	1.440	0.875
5405-04-08	1/4-18	1/2-14	0.281	1.68	1.125
5405-04-12	1/4-18	3/4-14	0.281	1.74	1.375
5405-06-02	3/8-18	1/8-27	0.406	1.430	0.750
5405-06-04	3/8-18	1/4-18	0.406	1.440	0.750
5405-06-06	3/8-18	3/8-18	0.406	1.44	0.875
5405-06-08	3/8-18	1/2-14	0.406	1.68	1.125
5405-06-12	3/8-18	3/4-14	0.406	1.74	1.375
5405-06-16	3/8-18	1 11-1/2	0.406	2.100	1.625
5405-08-04	1/2-14	1/4-18	0.531	1.640	0.875
5405-08-06	1/2-14	3/8-18	0.531	1.660	0.875
5405-08-08	1/2-14	1/2-14	0.531	1.87	1.125
5405-08-12	1/2-14	3/4-14	0.531	1.93	1.375
5405-08-16	1/2-14	1-11-1/2	0.531	2.18	1.625
5405-12-04	3/4-14	1/4-18	0.719	1.600	1.125
5405-12-06	3/4-14	3/8-18	0.571	1.66	1.125
5405-12-08	3/4-14	1/2-14	0.719	1.930	1.125
5405-12-12	3/4-14	3/4-14	0.719	1.93	1.375
5405-12-16	3/4-14	1-11-1/2	0.719	2.180	1.625
5405-12-20	3/4-14	1-1/4-11-1/2	0.719	2.270	2.000
5405-16-08	1-11-1/2	1/2-14	0.697	2.080	1.375
5405-16-12	1-11-1/2	3/4-14	0.938	2.120	1.375
5405-16-16	1-11-1/2	1-11-1/2	0.938	2.370	1.625
5405-16-20	1-11-1/2	1-1/4-11-1/2	0.938	2.46	2.000
5405-16-24	1-11-1/2	1-1/2-11-1/2	0.938	2.460	2.375
5405-20-16	1-1/4-11-1/2	1-11-1/2	1.250	2.420	1.750
5405-20-20	1-1/4-11-1/2	1-1/4-11-1/2	1.250	2.49	2.000
5405-20-24	1-1/4-11-1/2	1-1/2-11-1/2	1.250	2.500	2.375
5405-20-32	1-1/4-11-1/2	2-11-1/2	1.250	2.600	2.875
5405-24-20	1-1/2-11-1/2	1-1/4-11-1/2	1.500	2.540	2.000
5405-24-24	1-1/2-11-1/2	1-1/2-11-1/2	1.500	2.530	2.375
5405-24-32	1-1/2-11-1/2	2-11-1/2	1.500	2.630	2.875
5405-32-32	2-11-1/2	2-11-1/2	1.938	2.660	2.875

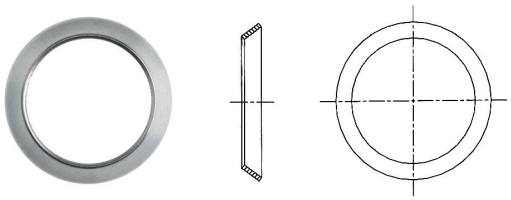
5406 MP-FP REDUCER BUSHING





PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	L LGTH	C HEX
5406-04-02	1/4-18	1/8-27	0.281	0.850	0.625
5406-06-02	3/8-18	1/8-27	0.406	0.850	0.750
5406-06-04	3/8-18	1/4-18	0.437	0.850	0.750
5406-08-02	1/2-14	1/8-27	0.333	1.10	0.875
5406-08-04	1/2-14	1/4-18	0.431	1.10	0.875
5406-08-06	1/2-14	3/8-18	0.578	1.100	0.875
5406-12-02	3/4-14	1/8-27	0.339	1.170	1.125
5406-12-04	3/4-14	1/4-18	0.431	1.17	1.125
5406-12-06	3/4-14	3/8-18	0.571	1.17	1.125
5406-12-08	3/4-14	1/2-14	0.697	1.17	1.125
5406-16-02	1-11-1/2	1/8-27	0.333	1.360	1.375
5406-16-04	1-11-1/2	1/4-18	0.437	1.360	1.375
5406-16-06	1-11-1/2	3/8-18	0.571	1.360	1.375
5406-16-08	1-11-1/2	1/2-14	0.697	1.36	1.375
5406-16-12	1-11-1/2	3/4-14	0.907	1.36	1.375
5406-20-04	1-1/4-11-1/2	1/4-18	0.431	1.47	1.750
5406-20-06	1-1/4-11-1/2	3/8-18	0.571	1.47	1.750
5406-20-08	1-1/4-11-1/2	1/2-14	0.697	1.47	1.750
5406-20-12	1-1/4-11-1/2	3/4-14	0.907	1.47	1.750
5406-20-16	1-1/4-11-1/2	1-11-1/2	1.142	1.47	1.750
5406-24-02	1-1/2-11-1/2	1/8-27	0.333	1.57	2.000
5406-24-04	1-1/2-11-1/2	1/4-18	0.431	1.57	2.000
5406-24-06	1-1/2-11-1/2	3/8-18	0.571	1.570	2.000
5406-24-08	1-1/2-11-1/2	1/2-14	0.697	1.57	2.000
5406-24-12	1-1/2-11-1/2	3/4-14	0.907	1.57	2.000
5406-24-16	1-1/2-11-1/2	1-11-1/2	1.142	1.57	2.000
5406-24-20	1-1/2-11-1/2	1-1/4-11-1/2	1.486	1.57	2.000
5406-32-04	2-11-1/2	1/4-18	0.431	1.750	2.500
5406-32-06	2-11-1/2	3/8-18	0.571	1.75	2.500
5406-32-08	2-11-1/2	1/2-14	0.720	1.750	2.500
5406-32-12	2-11-1/2	3/4-14	0.907	1.75	2.500
5406-32-16	2-11-1/2	1-11-1/2	1.142	1.750	2.500
5406-32-20	2-11-1/2	1-1/4-11-1/2	1.460	1.750	2.500
5406-32-24	2-11-1/2	1-1/2-11-1/2	1.720	1.750	2.500
5406-40-32	2-1/2-8	2-11-1/2	2.172	2.370	3.000
5406-48-06	3- 8	3/8-18	0.571	2.43	3.750

6000 BACK-UP WASHER

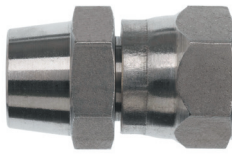


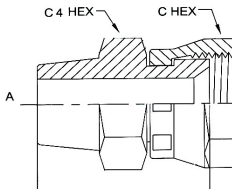
PART NO.	TUBE O.D.
6000-02	1/8
6000-03	3/16
6000-04	1/4
6000-05	5/16

Continued...

PART NO.	TUBE O.D.
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

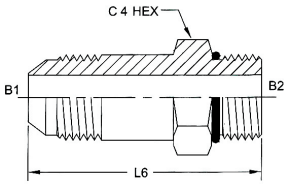
6316 FJS-WELD STRAIGHT





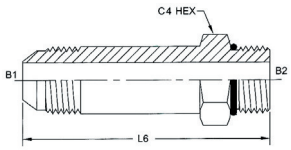
PART NO.	TUBE O.D.	A Weld	B FJS 37Deg	B DRILL	L1 LGTH	L LGTH	C HEX	C4 HEX
6316-04	1/4	0.25	7/16-20	0.172	1.02	1.364	0.562	0.562
6316-06	3/8	0.297	9/16-18	0.297	1.002	1.460	0.688	0.688
6316-08	1/2	0.500	3/4-16	0.391	1.187	1.609	0.875	0.875
6316-12	3/4	0.609	1-1/16-12	0.609	1.268	1.837	1.250	1.062
6316-16	1	1.000	1-5/16-12	0.844	1.409	2.003	1.500	1.312
6316-20	1-1/4	1.250	1-5/8-12	1.078	1.650	2.275	2.000	1.750
6316-24	1-1/2	1.500	1-7/8-12	1.312	1.504	2.245	2.250	2.000
6316-32	2	1.969	2 1/2-12	1.781	1.988	2.933	2.875	2.500
6316-10	5/8	0.609	7/8-14	0.484	1.281	1.781	1.000	0.938

6400-L-0 MJ-MORB STRAIGHT LONG



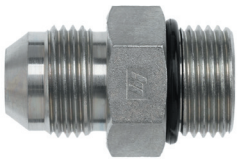
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	L6 LGTH	C4 HEX
6400-L-04-04-0	1/4	7/16-20	7/16-20	0.172	0.172	2.08	0.562
6400-L-05-05-0	5/16	1/2-20	1/2-20	0.234	0.234	2.140	0.625
6400-L-06-06-0	3/8	9/16-18	9/16-18	0.297	0.297	2.31	0.688
6400-L-06-08-0	3/8	9/16-18	3/4-16	0.297	0.391	2.60	0.875
6400-L-08-06-0	1/2	3/4-16	9/16-18	0.391	0.297	2.66	0.875
6400-L-08-08-0	1/2	3/4-16	3/4-16	0.391	0.391	2.70	0.875
6400-L-08-10-0	1/2	3/4-16	7/8-14	0.391	0.484	2.94	1.000
6400-L-10-10-0	5/8	7/8-14	7/8-14	0.484	0.484	3.04	1.000
6400-L-10-16-0	5/8	7/8-14	1-5/16-12	0.484	0.844	3.83	1.500
6400-L-12-10-0	3/4	1-1/16-12	7/8-14	0.609	0.484	3.52	1.125
6400-L-12-12-0	3/4	1-1/16-12	1-1/16-12	0.609	0.609	3.61	1.250
6400-L-12-16-0	3/4	1-1/16-12	1-5/16-12	0.609	0.844	3.93	1.500
6400-L-14-14-0	7/8	1-3/16-12	1-3/16-12	0.719	0.719	3.800	1.375
6400-L-16-16-0	1	1-5/16-12	1-5/16-12	0.844	0.844	3.98	1.500
6400-L-20-20-0	1 1/4	1-5/8-12	1-5/8-12	1.078	1.078	4.690	1.875
6400-L-24-24-0	1 1/2	1-7/8-12	1-7/8-12	1.312	1.312	5.17	2.125

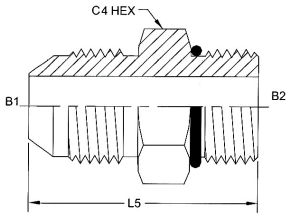
6400-LL-0 MJ-MORB STRAIGHT EXTRA LONG



PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	L6 LGTH	C4 HEX
6400-LL-06-08-0	1/2	9/16-18	3/4-16	0.297	0.391	3.025	0.875
6400-LL-16-16-0	1	1-5/16-12	1-5/16-12	0.844	0.844	5.27	1.500

6400-0 MJ-MORB STRAIGHT



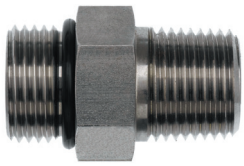


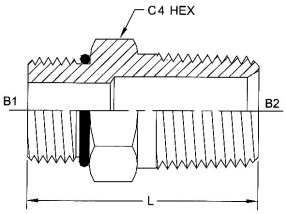
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	L5 LGTH	C4 HEX
6400-02-02-0	1/8	5/16-24	5/16-24	0.062	0.062	1.06	0.438
6400-02-06-0	1/8	5/16-24	9/16-18	0.062	0.297	1.19	0.688
6400-03-02-0	3/16	3/8-24	5/16-24	0.125	0.062	1.10	0.500
6400-03-03-0	3/16	3/8-24	3/8-24	0.125	0.125	1.100	0.500
6400-03-04-0	3/16	3/8-24	7/16-20	0.125	0.172	1.160	0.562
6400-03-05-0	3/16	3/8-24	1/2-20	0.125	0.234	1.160	0.625
6400-04-02-0	1/4	7/16-20	5/16-24	0.172	0.062	1.170	0.500
6400-04-03-0	1/4	7/16-20	3/8-24	0.172	0.125	1.170	0.500
6400-04-04-0	1/4	7/16-20	7/16-20	0.172	0.172	1.23	0.562
6400-04-05-0	1/4	7/16-20	1/2-20	0.172	0.234	1.230	0.625
6400-04-06-0	1/4	7/16-20	9/16-18	0.172	0.297	1.290	0.688
6400-04-08-0	1/4	7/16-20	3/4-16	0.172	0.391	1.370	0.875
6400-04-10-0	1/4	7/16-20	7/8-14	0.172	0.484	1.490	1.000
6400-04-12-0	1/4	7/16-20	1-1/16-12	0.172	0.609	1.660	1.250
6400-05-04-0	5/16	1/2-20	7/16-20	0.234	0.172	1.230	0.562
6400-05-05-0	5/16	1/2-20	1/2-20	0.234	0.234	1.230	0.625
6400-05-06-0	5/16	1/2-20	9/16-18	0.234	0.297	1.290	0.688
6400-05-08-0	5/16	1/2-20	3/4-16	0.234	0.391	1.370	0.875
6400-05-10-0	5/16	1/2-20	7/8-14	0.234	0.484	1.49	1.000
6400-06-03-0	3/8	9/16-18	3/8-24	0.297	0.125	1.212	0.625
6400-06-04-0	3/8	9/16-18	7/16-20	0.297	0.172	1.270	0.625
6400-06-05-0	3/8	9/16-18	1/2-20	0.297	0.234	1.270	0.625
6400-06-06-0	3/8	9/16-18	9/16-18	0.297	0.297	1.30	0.688
6400-06-08-0	3/8	9/16-18	3/4-16	0.297	0.391	1.380	0.875
6400-06-10-0	3/8	9/16-18	7/8-14	0.297	0.484	1.50	1.000
6400-06-12-0	3/8	9/16-18	1-1/16-12	0.297	0.609	1.66	1.250
6400-06-16-0	3/8	9/16-18	1-5/16-12	0.297	0.844	1.690	1.500
6400-08-04-0	1/2	3/4-16	7/16-20	0.391	0.172	1.49	0.875
6400-08-05-0	1/2	3/4-16	1/2-20	0.391	0.234	1.49	0.875
6400-08-06-0	1/2	3/4-16	9/16-18	0.391	0.297	1.44	0.812
6400-08-08-0	1/2	3/4-16	3/4-16	0.391	0.391	1.48	0.875
6400-08-10-0	1/2	3/4-16	7/8-14	0.391	0.484	1.600	1.000
6400-08-12-0	1/2	3/4-16	1-1/16-12	0.391	0.609	1.760	1.250
6400-08-14-0	1/2	3/4-16	1-3/16-12	0.391	0.719	1.76	1.375
6400-08-16-0	1/2	3/4-16	1-5/16-12	0.391	0.844	1.79	1.500
6400-08-20-0	1/2	3/4-16	1-5/8-12	0.391	1.078	1.87	1.875
6400-10-04-0	5/8	7/8-14	7/16-20	0.484	0.172	1.65	0.937
6400-10-06-0	5/8	7/8-14	9/16-18	0.484	0.297	1.71	1.000

Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	L5 LGTH	C4 HEX
6400-10-08-0	5/8	7/8-14	3/4-16	0.391	0.391	1.640	1.000
6400-10-10-0	5/8	7/8-14	7/8-14	0.484	0.484	1.70	1.000
6400-10-12-0	5/8	7/8-14	1-1/16-12	0.484	0.609	1.86	1.250
6400-10-14-0	5/8	7/8-14	1-3/16-12	0.484	0.719	1.860	1.375
6400-10-16-0	5/8	7/8-14	1-5/16-12	0.484	0.844	1.89	1.500
6400-10-20-0	5/8	7/8-14	1-5/8-12	0.484	1.078	1.97	1.875
6400-12-06-0	3/4	1-1/16-12	9/16-18	0.609	0.297	1.860	1.125
6400-12-08-0	3/4	1-1/16-12	3/4-16	0.609	0.391	1.94	1.125
6400-12-10-0	3/4	1-1/16-12	7/8-14	0.609	0.484	1.88	1.125
6400-12-12-0	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.97	1.250
6400-12-14-0	3/4	1-1/16-12	1-3/16-12	0.609	0.719	1.96	1.375
6400-12-16-0	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.99	1.500
6400-12-20-0	3/4	1-1/16-12	1-5/8-12	0.609	1.078	2.080	1.875
6400-12-24-0	7/8	1-1/16-12	1-7/8-12	0.609	1.312	2.150	2.125
6400-14-08-0	7/8	1-3/16-12	3/4-16	0.719	0.391	1.960	1.250
6400-14-10-0	7/8	1-3/16-12	7/8-14	0.719	0.484	2.02	1.250
6400-14-12-0	7/8	1-3/16-12	1-1/16-12	0.719	0.609	1.99	1.250
6400-14-14-0	7/8	1-3/16-12	1-3/16-12	0.719	0.719	1.99	1.375
6400-14-16-0	7/8	1-3/16-12	1-5/16-12	0.719	0.844	2.020	1.500
6400-16-06-0	1	1-5/16-12	9/16-18	0.844	0.297	1.93	1.375
6400-16-08-0	1	1-5/16-12	3/4-16	0.844	0.391	2.010	1.375
6400-16-10-0	1	1-5/16-12	7/8-14	0.844	0.484	2.07	1.375
6400-16-12-0	1	1-5/16-12	1-1/16-12	0.844	0.609	2.04	1.375
6400-16-14-0	1	1-5/16-12	1-3/16-12	0.844	0.719	2.040	1.375
6400-16-16-0	1	1-5/16-12	1-5/16-12	0.844	0.844	2.040	1.500
6400-16-20-0	1	1-5/16-12	1-5/8-12	0.844	1.078	2.12	1.875
6400-16-24-0	1	1-5/16-12	1-7/8-12	0.844	1.312	2.200	2.125
6400-20-12-0	1-1/4	1-5/8-12	1-1/16-12	1.078	0.609	2.300	1.688
6400-20-16-0	1-1/4	1-5/8-12	1-5/16-12	1.078	0.844	2.33	1.688
6400-20-20-0	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.17	1.875
6400-20-24-0	1-1/4	1-5/8-12	1-7/8-12	1.078	1.312	2.24	2.125
6400-20-32-0	1- 1/4	1-5/8-12	2-1/2-12	1.078	1.781	2.400	2.750
6400-24-16-0	1 -1/2	1-7/8-12	1-5/16-12	1.312	0.844	2.530	2.125
6400-24-20-0	1-1/2	1-7/8-12	1-5/8-12	1.312	1.078	2.530	2.1250
6400-24-24-0	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.37	2.125
6400-24-32-0	1-1/2	1-7/8-12	2-1/2-12	1.312	1.781	2.530	2.750
6400-32-20-0	2	2-1/2-12	1-5/8-12	1.781	1.078	2.940	2.625
6400-32-24-0	2	2-1/2-12	1-7/8-12	1.781	1.312	2.940	2.625
6400-32-32-0	2	2-1/2-12	2-1/2-12	1.781	1.781	2.780	2.750
6400-32-40-0	2-1/2	2-1/2-12	3-12	1.781	2.500	2.950	3.250
6400-40-40-0	3	3-12	3-12	2.322	2.500	2.950	3.250

6401-0 MORB-MP STRAIGHT



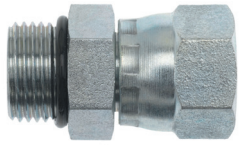


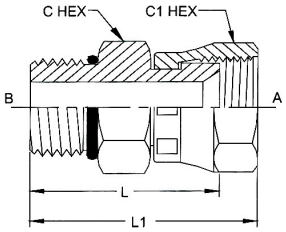
PART NO.	TUBE O.D.	B SAE ORB	B2 NPTF	B DRILL	B2 DRILL	L LGTH	C4 HEX
6401-02-02-0	1/4	5/16-24	1/8-27	0.062	0.188	1.010	0.438
6401-03-02-0	1/4	3/8-24	1/8-27	0.125	0.188	1.000	0.500
6401-04-02-0	1/4	7/16-20	1/8-27	0.172	0.188	1.040	0.562
6401-04-04-0	1/4	7/16-20	1/4-18	0.172	0.281	1.230	0.562
6401-05-02-0	5/16	1/2-20	1/8-27	0.188	0.188	1.050	0.625
6401-05-04-0	5/16	1/2-20	1/4-18	0.234	0.234	1.230	0.625
6401-06-02-0	3/8	9/16-18	1/8-27	0.297	0.188	1.13	0.688
6401-06-04-0	3/8	9/16-18	1/4-18	0.297	0.281	1.290	0.688
6401-06-06-0	3/8	9/16-18	3/8-18	0.297	0.406	1.26	0.813

Continued...

PART NO.	TUBE O.D.	B SAE ORB	B2 NPTF	B DRILL	B2 DRILL	L LGTH	C4 HEX
6401-06-08-0	3/8	9/16-18	1/2-14	0.297	0.531	1.540	0.875
6401-08-04-0	1/2	3/4-16	1/4-18	0.391	0.281	1.360	0.875
6401-08-06-0	1/2	3/4-16	3/8-18	0.391	0.406	1.360	0.875
6401-08-08-0	1/2	3/4-16	1/2-14	0.391	0.531	1.550	0.875
6401-08-12-0	1/2	3/4-16	3/4-14	0.391	0.719	1.760	1.062
6401-10-04-0	5/8	7/8-14	1/4-18	0.484	0.281	1.460	1.000
6401-10-06-0	5/8	7/8-14	3/8-18	0.484	0.406	1.460	1.000
6401-10-08-0	5/8	7/8-14	1/2-14	0.484	0.531	1.650	1.000
6401-10-12-0	5/8	7/8-14	3/4-14	0.484	0.719	1.760	1.125
6401-12-06-0	3/4	1-1/16-12	3/8-18	0.609	0.406	1.620	1.250
6401-12-08-0	3/4	1-1/16-12	1/2-14	0.609	0.531	1.84	1.250
6401-12-12-0	3/4	1-1/16-12	3/4-14	0.609	0.719	1.86	1.250
6401-12-16-0	3/4	1-1/16-12	1-11-1/2	0.609	0.938	2.120	1.375
6401-14-12-0	7/8	1-3/16-12	3/4-14	0.719	0.719	1.780	1.375
6401-14-16-0	7/8	1-3/16-12	1-11-1/2	0.719	0.938	2.05	1.375
6401-16-12-0	1	1-5/16-12	3/4-14	0.844	0.719	1.960	1.500
6401-16-16-0	1	1-5/16-12	1-11-1/2	0.844	0.938	2.120	1.500
6401-16-20-0	1	1-5/16-12	1-1/4-11-1/2	0.844	1.250	2.290	1.688
6401-20-12-0	1 1/4	1-5/8-12	3/4-14	1.078	0.719	1.950	1.875
6401-20-16-0	1 1/4	1-5/8-12	1-11-1/2	1.078	0.938	2.150	1.875
6401-20-20-0	1 1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.160	1.875
6401-20-24-0	1 1/4	1-5/8-12	1-1/2-11-1/2	1.078	1.500	2.40	2.000
6401-24-16-0	1 1/2	1-7/8-12	1-11-1/2	1.312	0.938	2.210	2.125
6401-24-20-0	1 1/2	1-7/8-12	1-1/4-11-1/2	1.312	1.250	2.25	2.125
6401-24-24-0	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	2.280	2.125
6401-32-32-0	2	2-1/2-12	2-11-1/2	1.781	1.938	2.480	2.750
6401-04-08-0	1/4	7/16-20	1/2-14	0.172	0.531	1.510	0.875
6401-12-04-0	3/4	1-1/16-12	1/4-18	0.609	0.281	1.620	1.250

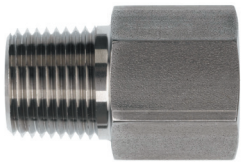
6402-0 MORB-FJS STRAIGHT

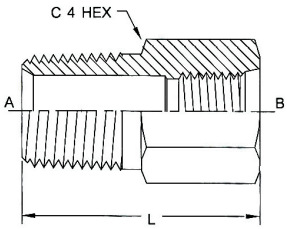




PART NO.	TUBE O.D.	B SAE ORB	B SAE 37Deg	B DRILL	A DRILL	L LGTH	L1 LGTH	C1 HEX	C HEX
6402-04-04-0	1/4	7/16-20	7/16-20	0.172	0.172	0.96	1.31	0.562	0.562
6402-04-06-0	1/4	7/16-20	9/16-18	0.172	0.297	1.04	1.41	0.688	0.562
6402-06-04-0	3/8	9/16-18	7/16-20	0.172	0.172	1.060	1.410	0.562	0.688
6402-06-06-0	3/8	9/16-18	9/16-18	0.297	0.297	1.05	1.43	0.688	0.688
6402-06-08-0	3/8	9/16-18	3/4-16	0.297	0.391	1.200	1.620	0.875	0.750
6402-08-06-0	1/2	3/4-16	9/16-18	0.391	0.297	1.21	1.58	0.688	0.875
6402-08-08-0	1/2	3/4-16	3/4-16	0.391	0.391	1.23	1.65	0.875	0.875
6402-08-10-0	1/2	3/4-16	7/8-14	0.391	0.391	1.300	1.800	1.000	0.875
6402-10-08-0	5/8	7/8-14	3/4-16	0.484	0.391	1.37	1.79	0.875	1.000
6402-10-10-0	5/8	7/8-14	7/8-14	0.484	0.484	1.390	1.890	1.000	1.000
6402-12-10-0	3/4	1-1/16-12	7/8-14	0.484	0.484	1.420	1.920	1.000	1.250
6402-12-12-0	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.58	2.14	1.250	1.250
6402-12-16-0	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.67	2.26	1.500	1.500
6402-16-12-0	1	1-5/16-12	1-1/16-12	0.844	0.609	1.570	2.140	1.250	1.500
6402-16-16-0	1	1-5/16-12	1-5/16-12	0.844	0.844	1.666	2.260	1.500	1.500
6402-20-20-0	1 1/4	1-5/8-12	1-5/8-12	1.078	1.078	1.80	2.42	2.000	1.875
6402-24-24-0	1 1/2	1-7/8-12	1-7/8-12	1.312	1.312	1.870	2.611	2.250	2.125
6402-32-32-0	2	2-1/2-12	2-1/2-12	1.781	1.781	2.01	2.95	2.875	2.750

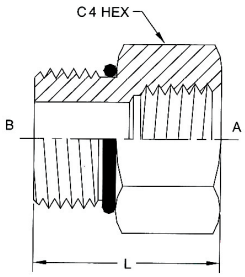
6404 FORB-MP STRAIGHT





PART NO.	TUBE O.D.	B SAE ORB	A NPTF	A DRILL	L LGTH	C4 HEX
6404-02-02	1/8	5/16-24	1/8-27	.188	1.15	.562
6404-03-06	3/16	3/8-24	3/8-18	0.406	0.85	0.750
6404-04-02	1/4	7/16-20	1/8-27	0.188	1.060	0.688
6404-04-04	1/4	7/16-20	1/4-18	0.281	1.340	0.688
6404-04-06	1/4	7/16-20	3/8-18	0.406	1.14	0.687
6404-05-02	5/16	1/2-20	1/8-27	0.188	1.370	0.750
6404-05-04	5/16	1/2-20	1/4-18	0.281	1.390	0.750
6404-05-06	5/16	1/2-20	3/8-18	0.406	1.35	0.750
6404-06-04	3/8	9/16-18	1/4-18	0.281	1.59	0.875
6404-06-06	3/8	9/16-18	3/8-18	0.406	1.380	0.812
6404-06-08	3/8	9/16-18	1/2-14	0.531	1.580	0.875
6404-08-06	1/2	3/4-16	3/8-18	0.406	1.50	1.000
6404-08-08	1/2	3/4-16	1/2-14	0.531	1.650	1.062
6404-08-12	1/2	3/4-16	3/4-14	0.689	1.690	1.125
6404-10-06	5/8	7/8-14	3/8-18	0.406	1.640	1.250
6404-10-08	5/8	7/8-14	1/2-14	0.531	1.750	1.250
6404-10-12	5/8	7/8-14	3/4-14	0.719	1.850	1.250
6404-12-08	3/4	1-1/16-12	1/2-14	0.531	1.960	1.375
6404-12-12	3/4	1-1/16-12	3/4-14	0.719	1.980	1.375
6404-14-12	7/8	1-3/16-12	3/4-14	0.719	1.91	1.625
6404-16-12	1	1-5/16-12	3/4-14	0.719	1.91	1.625
6404-16-16	1	1-5/16-12	1-11-1/2	0.940	2.10	1.625
6404-16-20	1	1-5/16-12	1-1/4-11-1/2	1.250	2.130	1.688
6404-16-24	1	1-5/16-12	1-1/2-11-1/2	1.231	2.160	2.000
6404-20-16	1-1/4	1-5/8-12	1-11-1/2	0.938	2.16	2.125
6404-20-20	1-1/4	1-5/8-12	1-1/4-11-1/2	1.250	2.340	2.125
6404-24-24	1-1/2	1-7/8-12	1-1/2-11-1/2	1.500	2.230	2.250
6404-32-32	2	2-1/2-12	2-11-1/2	1.938	2.26	2.875

6405-0 MORB-FP STRAIGHT



PART NO.	TUBE O.D.	B SAE ORB	A NPTF	B DRILL	L LGTH	C4 HEX
6405-02-02-0	1/8	5/16-24	1/8-27	0.062	0.950	0.562
6405-02-04-0	1/8	5/16-24	1/4-18	0.062	1.240	0.750
6405-03-02-0	3/16	3/8-24	1/8-27	0.125	0.950	0.562
6405-03-04-0	3/16	3/8-24	1/4-18	0.125	1.200	0.750
6405-04-02-0	1/4	7/16-20	1/8-27	0.172	1.000	0.562
6405-04-04-0	1/4	7/16-20	1/4-18	0.172	1.160	0.750
6405-04-06-0	1/4	7/16-20	3/8-18	0.172	1.350	0.875
6405-05-02-0	5/16	1/2-20	1/8-27	0.234	0.99	0.625

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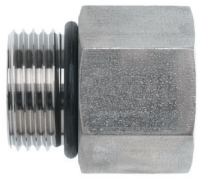
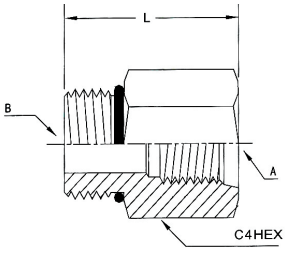
PART NO.	TUBE O.D.	B SAE ORB	A NPTF	B DRILL	L LGTH	C4 HEX
6405-05-04-0	5/16	1/2-20	1/4-18	0.234	1.20	0.750
6405-05-06-0	5/16	1/2-20	3/8-18	0.234	1.300	0.875
6405-06-02-0	3/8	9/16-18	1/8-27	0.297	1.02	0.688
6405-06-04-0	3/8	9/16-18	1/4-18	0.297	1.090	0.750
6405-06-06-0	3/8	9/16-18	3/8-18	0.297	1.331	0.875
6405-06-08-0	3/8	9/16-18	1/2-14	0.297	1.500	1.125
6405-08-02-0	1/2	3/4-16	1/8-27	0.315	0.800	0.875
6405-08-04-0	1/2	3/4-16	1/4-18	0.391	1.020	0.875
6405-08-06-0	1/2	3/4-16	3/8-18	0.391	1.280	0.875
6405-08-08-0	1/2	3/4-16	1/2-14	0.391	1.470	1.125
6405-08-12-0	1/2	3/4-16	3/4-14	0.391	1.780	1.375
6405-10-04-0	5/8	7/8-14	1/4-18	0.431	0.930	1.000
6405-10-06-0	5/8	7/8-14	3/8-18	0.484	1.400	1.000
6405-10-08-0	5/8	7/8-14	1/2-14	0.484	1.550	1.125
6405-10-12-0	5/8	7/8-14	3/4-14	0.484	1.71	1.375
6405-12-02-0	3/4	1-1/16-12	1/8-27	0.609	1.090	1.250
6405-12-04-0	3/4	1-1/16-12	1/4-18	0.609	1.090	1.250
6405-12-06-0	3/4	1-1/16-12	3/8-18	0.609	1.490	1.250
6405-12-08-0	3/4	1-1/16-12	1/2-14	0.609	1.410	1.250
6405-12-12-0	3/4	1-1/16-12	3/4-14	0.609	1.590	1.375
6405-12-16-0	3/4	1-1/16-12	1-11-1/2	0.609	2.030	1.625
6405-14-08-0	7/8	1-3/16-12	1/2-14	0.690	1.090	1.375
6405-14-12-0	7/8	1-3/16-12	3/4-14	0.719	1.78	1.375
6405-14-16-0	7/8	1-3/16-12	1-11-1/2	0.719	2.18	1.625
6405-16-04-0	1	1-5/16-12	1/4-18	0.431	1.136	1.500
6405-16-06-0	1	1-5/16-12	3/8-18	0.844	1.125	1.500
6405-16-08-0	1	1-5/16-12	1/2-14	0.844	1.72	1.500
6405-16-12-0	1	1-5/16-12	3/4-14	0.844	1.620	1.500
6405-16-16-0	1	1-5/16-12	1-11-1/2	0.844	1.90	1.625
6405-16-20-0	1	1-5/16-12	1-1/4-11-1/2	0.844	2.27	2.000
6405-16-24-0	1	1-5/16-12	1-1/2-11-1/2	0.844	2.280	2.375
6405-20-08-0	1-1/4	1-5/8-12	1/2-14	0.649	1.200	1.875
6405-20-12-0	1-1/4	1-5/8-12	3/4-14	0.854	1.200	1.875
6405-20-16-0	1-1/4	1-5/8-12	1-11-1/2	1.078	1.000	1.875
6405-20-20-0	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.970	2.000
6405-20-24-0	1-1/4	1-5/8-12	1-1/2-11-1/2	1.078	2.300	2.375
6405-20-32-0	1-1/4	1-5/8-12	2-11-1/2	1.078	2.400	2.875
6405-24-04-0	1-1/2	1-7/8-12	1/4-18	0.437	1.27	2.125
6405-24-12-0	1-1/2	1-7/8-12	3/4-14	0.854	1.270	2.125
6405-24-16-0	1-1/2	1-7/8-12	1-11-1/2	1.312	1.75	2.125
6405-24-20-0	1-1/2	1-7/8-12	1-1/4-11-1/2	1.312	2.160	2.125
6405-24-24-0	1-1/2	1-7/8-12	1-1/2-11-1/2	1.312	2.160	2.375
6405-24-32-0	1-1/2	1-7/8-12	2-11-1/2	1.312	2.400	2.875
6405-32-16-0	2	2-1/2-12	1-11-1/2	1.156	1.430	2.750
6405-32-20-0	2	2-1/2-12	1-1/4-11-1/2	1.781	2.000	2.750
6405-32-24-0	2	2-1/2-12	1-1/2-11-1/2	1.734	2.000	2.750
6405-32-32-0	2	2-1/2-12	2-11-1/2	1.781	2.24	2.875

6410-0 MORB-FORB STRAIGHT REDUCER



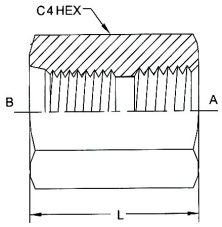


PART NO.	B SAE ORB	A SAE ORB	B DRILL	L LGTH	C4 HEX
6410-02-04-0	5/16-24	7/16-20	0.062	1.100	0.625
6410-03-04-0	3/8-24	7/16-20	0.125	1.13	0.688
6410-04-02-0	7/16-20	5/16-24	0.172	1.100	0.562

Continued...

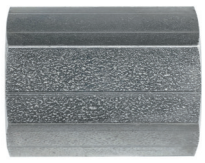
PART NO.	B SAE ORB	A SAE ORB	B DRILL	L LGTH	C4 HEX
6410-04-03-0	7/16-20	3/8-24	0.172	1.100	0.625
6410-04-04-0	7/16-20	7/16-20	0.172	1.10	0.625
6410-04-05-0	7/16-20	1/2-20	0.172	1.16	0.750
6410-04-06-0	7/16-20	9/16-18	0.172	1.160	0.812
6410-04-08-0	7/16-20	3/4-16	0.172	1.420	1.000
6410-05-04-0	1/2-20	7/16-20	0.234	1.080	0.625
6410-05-06-0	1/2-20	9/16-18	0.234	1.260	0.812
6410-06-04-0	9/16-18	7/16-20	0.297	1.120	0.688
6410-06-06-0	9/16-18	9/16-18	0.297	1.290	0.875
6410-06-08-0	9/16-18	3/4-16	0.297	1.450	1.000
6410-06-10-0	9/16-18	7/8-14	0.297	1.48	1.125
6410-08-03-0	3/4-16	3/8-24	0.335	0.800	0.875
6410-08-04-0	3/4-16	7/16-20	0.391	1.100	0.875
6410-08-05-0	3/4-16	1/2-20	0.391	1.210	0.875
6410-08-06-0	3/4-16	9/16-18	0.391	1.160	0.875
6410-08-08-0	3/4-16	3/4-16	0.391	1.410	1.000
6410-08-10-0	3/4-16	7/8-14	0.391	1.48	1.125
6410-08-12-0	3/4-16	1-1/16-12	0.391	1.66	1.375
6410-08-16-0	3/4-16	1-5/16-12	0.391	1.760	1.625
6410-10-04-0	7/8-14	7/16-20	0.391	0.93	1.000
6410-10-05-0	7/8-14	1/2-20	0.484	0.940	1.000
6410-10-06-0	7/8-14	9/16-18	0.502	0.930	1.000
6410-10-08-0	7/8-14	3/4-16	0.484	1.315	1.000
6410-10-10-0	7/8-14	7/8-14	0.492	1.500	1.062
6410-10-12-0	7/8-14	1-1/16-12	0.484	1.79	1.375
6410-10-16-0	7/8-14	1-5/16-12	0.484	1.720	1.500
6410-12-04-0	1-1/16-12	7/16-20	0.389	1.000	1.250
6410-12-06-0	1-1/16-12	9/16-18	0.609	1.090	1.250
6410-12-08-0	1-1/16-12	3/4-16	0.609	1.48	1.250
6410-12-10-0	1-1/16-12	7/8-14	0.609	1.57	1.250
6410-12-12-0	1-1/16-12	1-1/16-12	0.609	1.830	1.375
6410-12-14-0	1-1/16-12	1-3/16-12	0.609	1.710	1.500
6410-12-16-0	1-1/16-12	1-5/16-12	0.609	1.920	1.625
6410-12-20-0	1-1/16-12	1-5/8-12	0.609	2.000	2.000
6410-14-08-0	1-3/16-12	3/4-16	0.719	1.48	1.375
6410-14-10-0	1-3/16-12	7/8-14	0.719	1.53	1.375
6410-14-12-0	1-3/16-12	1-1/16-12	0.719	1.720	1.375
6410-14-16-0	1-3/16-12	1-5/16-12	0.719	1.88	1.625
6410-16-04-0	1-5/16-12	7/16-20	0.389	1.00	1.500
6410-16-06-0	1-5/16-12	9/16-18	0.508	1.000	1.500
6410-16-08-0	1-5/16-12	3/4-16	0.689	1.000	1.500
6410-16-10-0	1-5/16-12	7/8-14	0.806	1.570	1.500
6410-16-12-0	1-5/16-12	1-1/16-12	0.844	1.710	1.500
6410-16-14-0	1-5/16/-12	1-3/16-12	0.844	1.81	1.500
6410-16-16-0	1-5/16-12	1-5/16/-12	0.844	1.81	1.625
6410-16-20-0	1-5/16-12	1-5/8-12	0.844	2.140	2.125
6410-16-24-0	1-5/16-12	1-7/8-12	0.844	1.910	2.250
6410-20-04-0	1 5/8-12	7/16-20	0.389	1.000	1.875
6410-20-06-0	1-5/8-12	9/16-18	0.509	1.000	1.875
6410-20-08-0	1-5/8-12	3/4-16	0.689	1.000	1.875
6410-20-10-0	1-5/8-12	7/8-14	0.806	1.000	1.875
6410-20-12-0	1-5/8-12	1-1/16-12	0.981	1.00	1.875
6410-20-16-0	1-5/8-12	1-5/16-12	1.231	1.200	1.875
6410-20-24-0	1-5/8-12	1-7/8-12	1.078	1.980	2.250
6410-24-06-0	1-7/8-12	9/16-18	0.509	1.00	2.125
6410-24-08-0	1 7/8-12	3/4-16	0.689	1.000	2.125
6410-24-12-0	1-7/8-12	1-1/16-12	0.980	1.000	2.125
6410-24-16-0	1-7/8-12	1-5/16-12	1.231	1.000	2.125
6410-24-20-0	1-7/8-12	1-5/8-12	1.312	1.750	2.125
6410-24-24-0	1-7/8-12	1-7/8-12	1.312	2.000	2.250
6410-32-12-0	2-1/2-12	1-1/16-12	0.980	1.000	2.750
6410-32-16-0	2-1/2-12	1-5/16-12	1.231	1.000	2.750
6410-32-20-0	2-1/2-12	1-5/8-12	1.544	1.00	2.750
6410-32-24-0	2-1/2-12	1-7/8-12	1.794	1.440	2.750

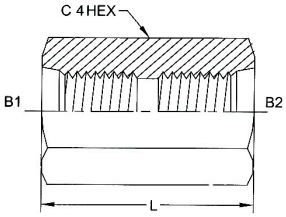
6420 FORB-FP STRAIGHT



PART NO.	TUBE O.D.	B SAE ORB	A NPTF	L LGTH	C4 HEX
6420-04-04	1/4	7/16-20	1/4-18	1.122	0.750
6420-06-06	3/8	9/16-18	3/8-18	1.32	0.875
6420-08-04	1/2	3/4-16	1/4-18	1.39	1.062
6420-08-06	1/2	3/4-16	3/8-18	1.320	1.000
6420-08-08	1/2	3/4-16	1/2-14	1.500	1.000
6420-10-08	7/8	7/8-14	1/2-14	1.72	1.125
6420-12-12	3/4	1-1/16-12 UN-2B	3/4-14 NPTF	1.730	1.375
6420-16-16	1	1-5/16-12	1-11-1/2	2.100	1.625

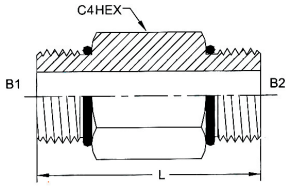
6425 FORB-FORB STRAIGHT





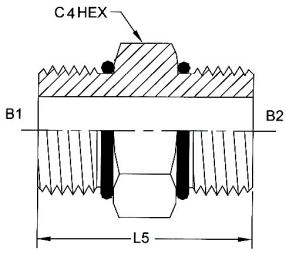
PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	L LGTH	C4 HEX
6425-04-04	1/4	7/16-20	7/16-20	1.130	0.688
6425-06-06	3/8	9/16-18	9/16-18	1.260	0.812
6425-08-08	1/2	3/4-16	3/4-16	1.42	1.000
6425-10-10	5/8	7/8-14	7/8-14	1.600	1.188
6425-12-12	3/4	1-1/16-12	1-1/16-12	1.85	1.375
6425-16-16	1	1-5/16-12	1-5/16-12	1.950	1.625
6425-20-20	1-1/4	1-5/8-12	1-5/8-12	2.100	2.000

6464-L-0 MORB-MORB STRAIGHT LONG



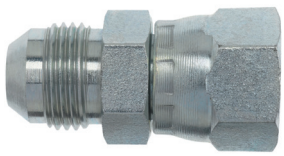
PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	B2 DRILL	L LGTH	C4 HEX	
6464-L-06-06-0	3/8	9/16-18	9/16-18	0.297	0.297	1.49	0.687	Steel
6464-L-08-08-0	1/2	3/4-16	3/4-16	0.391	0.391	1.76	0.875	Steel
6464-L-10-08-0	5/8	7/8-14	3/4-16	0.484	0.391	1.82	1.000	Steel
6464-L-10-10-0	5/8	7/8-14	7/8-14	0.484	0.484	1.80	1.000	Steel
6464-L-16-12-0	1	1-5/16-12	1-1/16-12	0.844	0.609	2.19	1.500	Steel

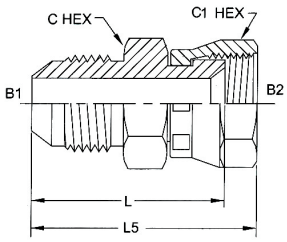
6464-0 MORB-MORB STRAIGHT



PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	B2 DRILL	L5 LGTH	C4 HEX	
6464-04-04-0	1/4	7/16-20	7/16-20	0.172	0.172	1.00	0.562	Steel
6464-06-06-0	3/8	9/16-18	9/16-18	0.297	0.297	1.092	0.688	Steel
6464-08-08-0	1/2	3/4-16	3/4-16	0.391	0.391	1.220	0.875	Steel
6464-10-08-0	5/8	7/8-14	3/4-16	0.484	0.391	1.34	1.000	Steel
6464-10-10-0	5/8	7/8-14	7/8-14	0.484	0.484	1.400	1.000	Steel
6464-16-12-0	1	1-5/16-12	1-1/16-12	0.844	0.609	1.690	1.500	Steel
6464-16-16-0	1	1-5/16-12	1-5/16-12	0.844	0.844	1.72	1.500	Steel
6464-20-16-0	1-1/4	1-5/8-12	1-5/16-12	1.078	0.844	1.806	1.875	Steel

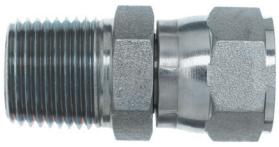
6504 MJ-FJS STRAIGHT

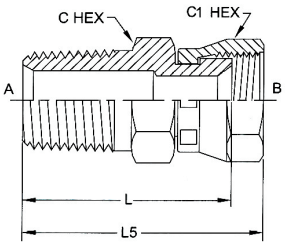




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	L LGTH	L5 LGTH	C1 HEX	C HEX
6504-04-04	1/4	7/16-20	7/16-20	0.172	0.172	1.160	1.511	0.562	0.500
6504-05-05	5/16	1/2-20	1/2-20	0.234	0.234	1.105	1.480	0.625	0.562
6504-06-04	3/8	9/16-18	7/16-20	0.297	0.172	1.160	1.504	0.563	0.625
6504-06-06	3/8	9/16-18	9/16-18	0.297	0.297	1.270	1.640	0.688	0.625
6504-06-08	1/2	9/16-18	3/4-16	0.297	0.391	1.32	1.730	0.875	0.812
6504-08-08	1/2	3/4-16	3/4-16	0.391	0.391	1.42	1.83	0.875	0.812
6504-08-10	5/8	3/4-16	7/8-14	0.391	0.484	1.570	2.070	1.000	0.938
6504-10-10	5/8	7/8-14	7/8-14	0.484	0.484	1.61	2.07	1.000	0.938
6504-12-12	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.770	2.330	1.250	1.125
6504-12-16	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.860	2.450	1.500	1.375
6504-16-12	1	1-5/16-12	1-1/16-12	0.844	0.609	1.870	2.450	1.500	1.375
6504-16-16	1	1-5/16-12	1-5/16-12	0.844	0.844	1.91	2.50	1.500	1.375
6504-20-20	1 1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.070	2.700	2.000	1.687
6504-24-24	1 1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.370	3.104	2.250	2.000
6504-32-32	2	2-1/2-12	2-1/2-12	1.781	1.781	3.700	2.862	2.875	2.625
6504-04-06	1/4	7/16-20	9/16-18	0.172	0.297	1.210	1.590	0.688	0.562

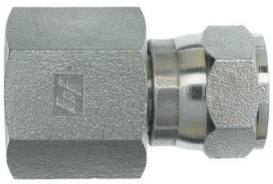
6505 MP-FJS STRAIGHT

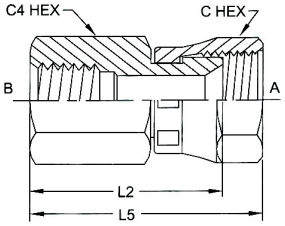




PART NO.	TUBE O.D.	A NPTF	B SAE 37Deg	A DRILL	B DRILL	L LGTH	L5 LGTH	C1 HEX	C HEX
6505-02-02	1/8	1/8-27	5/16-24	0.188	0.062	0.980	1.300	0.438	0.438
6505-02-04	1/4	1/8-27	7/16-20	0.172	0.172	1.010	1.350	0.563	0.500
6505-02-05	5/16	1/8-27	1/2-20	0.188	0.234	1.050	1.420	0.625	0.562
6505-04-04	1/4	1/4-18	7/16-20	0.281	0.172	1.20	1.54	0.563	0.562
6505-04-05	5/16	1/4-18	1/2-20	0.234	0.234	1.260	1.635	0.625	0.562
6505-04-06	3/8	1/4-18	9/16-18	0.281	0.297	1.300	1.675	0.688	0.562
6505-06-04	3/8	3/8-18	7/16-20	0.406	0.172	1.230	1.570	0.563	0.750
6505-06-06	3/8	3/8-18	9/16-18	0.406	0.297	1.26	1.64	0.688	0.750
6505-06-08	1/2	3/8-18	3/4-16	0.391	0.391	1.31	1.73	0.875	0.875
6505-06-10	5/8	3/8-18	7/8-14	0.406	0.406	1.40	1.90	1.000	1.000
6505-08-06	3/8	1/2-14	9/16-18	0.531	0.297	1.510	1.880	0.688	0.875
6505-08-08	1/2	1/2-14	3/4-16	0.531	0.391	1.56	1.98	0.875	0.875
6505-08-10	5/8	1/2-14	7/8-14	0.531	0.484	1.60	2.10	1.000	1.000
6505-08-12	3/4	1/2-14	1-1/16-12	0.531	0.609	1.58	2.14	1.250	1.000
6505-12-08	1/2	3/4-14	3/4-16	0.609	0.391	1.67	2.09	0.875	1.125
6505-12-10	5/8	3/4-14	7/8-14	0.719	0.484	1.700	2.207	1.000	1.125
6505-12-12	3/4	3/4-14	1-1/16-12	0.719	0.609	1.720	2.280	1.250	1.125
6505-12-16	1	3/4-14	1-5/16-12	0.719	0.844	1.77	2.38	1.500	1.375
6505-16-16	1	1-11-1/2	1-5/16-12	0.938	0.844	1.97	2.56	1.500	1.375
6505-20-20	1 1/4	1-1/4-11-1/2	1-5/8-12	1.25	1.078	2.21	2.85	2.000	1.688
6505-24-24	1 1/2	1-1/2-11-1/2	1-7/8-12	1.5	1.312	2.27	2.99	2.250	2.000
6505-32-32	2	2-11-1/2	2-1/2-12	1.938	1.781	2.500	3.440	2.875	2.625
6505-04-08	3/8	1/4-18	3/4-16	0.281	0.391	1.730	1.310	0.875	0.875
6505-04-10	1/4	1/4-18	7/8-14	0.281	0.484	1.400	1.900	1.000	1.000

6506 FP-FJS STRAIGHT



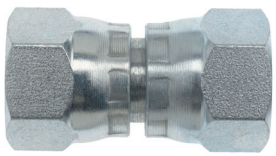


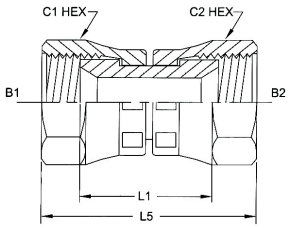
PART NO.	TUBE O.D.	B NPTF	A SAE 37Deg	A DRILL	L2 LGTH	L5 LGTH	C HEX	C4 HEX
6506-02-02	1/4	1/8-27	5/16-24	0.062	0.941	1.232	0.437	0.562
6506-02-04	1/4	1/8-27	7/16-20	0.172	0.920	1.260	0.562	0.562
6506-04-02	1/8	1/4-18	5/16-24	0.062	1.20	1.51	0.438	0.750
6506-04-04	1/4	1/4-18	7/16-20	0.172	1.17	1.52	0.563	0.750
6506-04-05	5/16	1/4-18	1/2-20	0.234	1.21	1.59	0.625	0.750
6506-04-06	3/8	1/4-18	9/16-18	0.297	1.255	1.630	0.688	0.750
6506-06-06	3/8	3/8-18	9/16-18	0.297	1.310	1.685	0.688	0.875
6506-06-08	1/2	3/8-18	3/4-16	0.391	1.360	1.780	0.875	0.875
6506-06-10	5/8	3/8-18	7/8-14	0.484	1.400	1.900	1.000	0.938
6506-08-06	3/8	1/2-14	9/16-18	0.297	1.54	1.92	0.688	1.125
6506-08-08	1/2	1/2-14	3/4-16	0.391	1.480	1.910	0.875	1.125
6506-08-10	5/8	1/2-14	7/8-14	0.484	1.62	2.12	1.000	1.125
6506-08-12	3/4	1/2-14	1-1/16-12	0.609	1.660	2.230	1.250	1.125
6506-12-10	5/8	3/4-14	7/8-14	0.484	1.680	2.180	1.000	1.375
6506-12-12	3/4	3/4-14	1-1/16-12	0.609	1.72	2.29	1.250	1.375

Continued...

PART NO.	TUBE O.D.	B NPTF	A SAE 37Deg	A DRILL	L2 LGTH	L5 LGTH	C HEX	C4 HEX
6506-12-14	7/8	3/4-14	1-3/16-12	0.719	1.75	2.33	1.375	1.375
6506-12-16	1	3/4-14	1-5/16-12	0.844	1.610	2.200	1.500	1.375
6506-16-16	1	1-11-1/2	1-5/16-12	0.844	2.02	2.614	1.500	1.625
6506-20-20	1 1/4	1-1/4-11-1/2	1-5/8-12	1.078	2.200	2.825	2.000	2.000
6506-24-24	1- 1/2	1-1/2-11-1/2	1-7/8-12	1.312	2.270	2.990	2.250	2.375
6506-32-32	2	2-11-1/2	2-1/2-12	1.781	2.26	3.12	2.875	2.875
6506-06-04	1/4	3/8-18	7/16-20	0.172	1.24	1.59	0.563	0.875

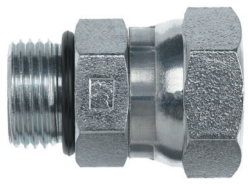
6565 FJS-FJS STRAIGHT

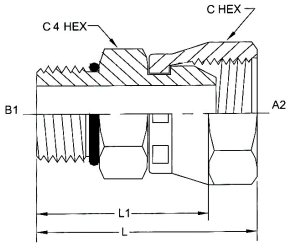




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	L1 LGTH	L5 LGTH	C1 HEX	C2 HEX
6565-04-04	1/4	7/16-20	7/16-20	0.172	0.172	0.65	1.33	0.563	0.563
6565-06-06	3/8	9/16-18	9/16-18	0.297	0.297	0.800	1.550	0.688	0.688
6565-08-06	1/2	3/4-16	9/16-18	0.297	0.297	0.830	1.600	0.875	0.688
6565-08-08	1/2	3/4-16	3/4-16	0.391	0.391	0.90	1.80	0.875	0.875
6565-10-10	5/8	7/8-14	7/8-14	0.484	0.484	0.97	2.00	1.000	1.000
6565-12-08	3/4	1-1/16-12	3/4-16	0.609	0.391	1.00	1.93	1.250	0.875
6565-12-12	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.04	2.21	1.250	1.250
6565-16-16	1	1-5/16-12	1-5/16-12	0.844	0.844	1.19	2.39	1.500	1.500
6565-20-20	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	1.34	2.56	2.000	2.000
6565-24-24	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	1.440	2.910	2.250	2.250
6565-32-32	2	2-1/2-12	2-1/2-12	1.781	1.781	1.600	3.480	2.875	2.875

6900-0 MORB-FPS STRAIGHT





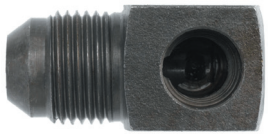
PART NO.	TUBE O.D.	B1 SAE ORB	A2 NPSM	B1 DRILL	A2 DRILL	L1 LGTH	L LGTH	C HEX	C4 HEX
6900-04-02-0	1/4	7/16-20	1/8-27	0.172	0.110	1.00	1.14	0.562	0.562
6900-04-04-0	1/4	7/16-20	1/4-18	0.172	0.210	1.110	1.300	0.688	0.562
6900-04-06-0	1/4	7/16-20	3/8-18	0.172	0.340	1.15	1.36	0.875	0.688
6900-04-08-0	1/4	7/16-20	1/2-14	0.172	0.440	1.210	1.490	1.000	0.812
6900-05-04-0	5/16	1/2-20	1/4-18	0.210	0.210	1.090	1.280	0.688	0.625
6900-05-08-0	5/16	1/2-20	1/2-14	0.234	0.460	1.30	1.58	1.000	0.812
6900-06-04-0	3/8	9/16-18	1/4-18	0.297	0.210	1.14	1.26	0.688	0.688
6900-06-06-0	3/8	9/16-18	3/8-18	0.297	0.320	1.17	1.46	0.875	0.688
6900-06-08-0	3/8	9/16-18	1/2-14	0.297	0.440	1.290	1.570	1.000	0.812
6900-08-04-0	1/2	3/4-16	1/4-18	0.391	0.210	1.170	1.360	0.688	0.875
6900-08-06-0	1/2	3/4-16	3/8-18	0.391	0.320	1.23	1.40	0.875	0.875
6900-08-08-0	1/2	3/4-16	1/2-14	0.391	0.460	1.30	1.55	1.000	0.875
6900-08-12-0	1/2	3/4-16	3/4-14	0.391	0.610	1.41	1.76	1.250	1.000
6900-10-06-0	5/8	7/8-14	3/8-18	0.484	0.340	1.26	1.47	0.875	1.000
6900-10-08-0	5/8	7/8-14	1/2-14	0.484	0.440	1.40	1.61	1.000	1.000

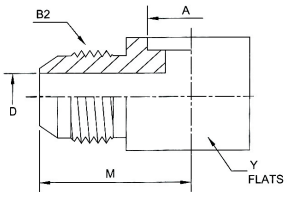
Continued...

PART NO.	TUBE O.D.	B1 SAE ORB	A2 NPSM	B1 DRILL	A2 DRILL	L1 LGTH	L LGTH	C HEX	C4 HEX
6900-10-12-0	5/8	7/8-14	3/4-14	0.484	0.635	1.37	1.72	1.250	1.000
6900-12-06-0	3/4	1-1/16-12	3/8-18	0.609	0.320	1.410	1.620	0.875	1.250
6900-12-08-0	3/4	1-1/16-12	1/2-14	0.609	0.440	1.45	1.73	1.000	1.250
6900-12-12-0	3/4	1-1/16-12	3/4-14	0.609	0.609	1.60	1.95	1.250	1.250
6900-12-16-0	3/4	1-1/16-12	1-11-1/2	0.609	0.780	1.700	2.050	1.500	1.500
6900-14-12-0	7/8	1-3/16-12	3/4-14	0.719	0.610	1.610	1.960	1.250	1.375
6900-14-16-0	7/8	1-3/16-12	1-11-1/2	0.719	0.831	1.60	1.95	1.500	1.500
6900-16-08-0	1	1-5/16-12	1/2-14	0.844	0.440	1.620	1.900	1.000	1.500
6900-16-12-0	1	1-5/16-12	3/4-14	0.844	0.610	1.73	2.08	1.250	1.500
6900-16-16-0	1	1-5/16-12	1-11-1/2	0.844	0.780	1.71	2.06	1.500	1.500
6900-16-20-0	1	1-5/16-12	1-1/4-11-1/2	0.844	1.085	1.900	2.320	1.875	1.875
6900-20-12-0	1-1/4	1-5/8-12	3/4-14	1.078	0.610	1.66	2.01	1.250	1.875
6900-20-16-0	1-1/4	1-5/8-12	1-11-1/2	1.078	0.780	1.79	2.14	1.500	1.875
6900-20-20-0	1-1/4	1-5/8-12	1-1/4-11-1/2	1.010	1.010	1.790	2.210	1.875	1.875
6900-24-20-0	1-1/2	1-7/8-12	1-1/4-11-1/2	1.312	1.087	1.75	2.17	1.875	2.125
6900-24-24-0	1-1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.250	1.95	2.370	2.125	2.125
6900-32-32-0	2	2-1/2-12	2-11-1/2	1.781	1.781	2.000	2.420	2.625	2.750

ELBOWS

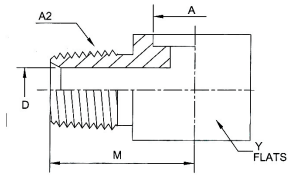
0500 BORE-MJ 90 DEG ELBOW





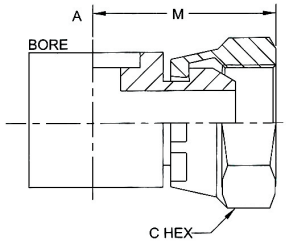
PART NO.	TUBE O.D.	A BORE	B2 JIC	D BORE	M LGTH	Y FLATS
0500-02-02	1/8-1/8	.129	5/16-24	.060	.77	.4375
0500-04-04	1/4	0.256	7/16-20	0.172	0.890	0.500
0500-05-05	5/16	0.319	1/2-20	0.234	0.953	0.562
0500-06-04	3/8	0.381	7/16-20	0.172	1.062	0.625
0500-06-06	3/8	0.379	9/16-18	0.297	1.062	0.625
0500-08-08	1/2	0.506	3/4-16	0.391	1.250	0.812
0500-10-08	5/8	0.631	3/4-16	0.391	1.310	0.937
0500-10-10	5/8	0.631	7/8-14	0.484	1.453	0.937
0500-12-08	3/4	0.757	3/4-16	0.391	1.453	0.937
0500-12-12	3/4	0.756	1-1/16-12	0.609	1.656	1.125
0500-14-14	7/8	0.882	1-3/16-12	0.719	1.734	1.250
0500-16-12	1	1.007	1-1/16-12	0.609	1.702	1.250
0500-16-16	1	1.007	1-5/16-12	0.844	1.812	1.375
0500-20-16	1 1/4	1.258	1-5/16-12	0.844	2.062	1.750
0500-20-20	1 1/4	1.256	1-5/8-12	1.078	2.062	1.750
0500-24-20	1 1/2	1 7/8-12	1 1/2	1.078	2.328	2
0500-24-24	1 1/2	1.508	1-7/8-12	1.312	2.328	2.000
0500-32-32	2	2.008	2-1/2-12	1.781	2.897	2.625

0501 BORE-MP 90 DEG ELBOW



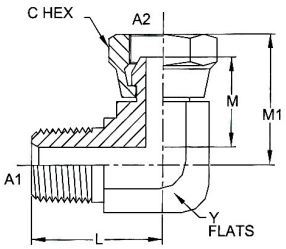
PART NO.	TUBE O.D.	A BORE	12 NPTF	D DRILL	M LGTH	Y FLATS
0501-06-04	3/8	0.381	1/4-18	0.281	1.055	0.625

05010801 BORE-FPS 90 DEG ELBOW



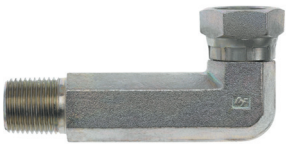
PART NO.	TUBE O.D.	A BORE	A1 NPSM	M LGTH	C HEX
0801-06-04	3/8	0.381	1/4-18	0.880	0.688

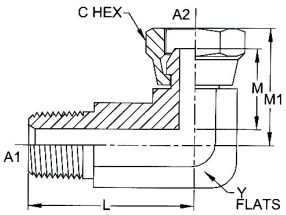
1501-FG MP-FPS 90 DEG ELBOW



PART NO.	A1 NPTF	A2 NPSM	A1 DRILL	A2 DRILL	L LGTH	M LGTH	M1 LGTH	C HEX	Y FLATS
1501-02-02-FG	1/8-27	1/8-27	0.188	0.11/0.19	0.720	0.700	0.840	0.562	0.438
1501-02-04-FG	1/8-27	1/4-18	0.188	0.220	0.900	0.880	1.070	0.688	0.562
1501-04-02-FG	1/4-18	1/8-27	0.281	0.13	1.09	0.77	0.91	0.562	0.562
1501-04-04-FG	1/4-18	1/4-18	0.281	0.21/0.23	1.090	0.880	1.070	0.688	0.562
1501-04-06-FG	1/4-18	3/8-18	0.281	0.32/0.34	1.220	0.990	1.200	0.875	0.750
1501-04-08-FG	1/4-18	1/2-14	0.281	0.46	1.28	1.11	1.39	1.000	0.875
1501-06-04-FG	3/8-18	1/4-18	0.406	0.220	1.220	0.990	1.180	0.688	0.750
1501-06-06-FG	3/8-18	3/8-18	0.406	0.32/0.36	1.220	0.990	1.200	0.875	0.750
1501-06-08-FG	3/8-18	1/2-14	0.406	0.46/0.48	1.28	1.11	1.39	1.000	0.875
1501-06-12-FG	3/8-18	3/4-14	0.406	0.640	1.400	1.300	1.650	1.250	1.062
1501-08-04-FG	1/2-14	1/4-18	0.531	0.22	1.47	1.02	1.21	0.688	0.875
1501-08-06-FG	1/2-14	3/8-18	0.531	.32/.34	1.470	1.040	1.250	0.875	0.875
1501-08-08-FG	1/2-14	1/2-14	0.531	0.44/0.48	1.470	1.110	1.390	1.000	0.875
1501-08-12-FG	1/2-14	3/4-14	0.531	0.61	1.59	1.30	1.65	1.250	1.062
1501-12-04-FG	3/4-14	1/4-18	0.719	0.22	1.59	1.24	1.43	0.688	1.062
1501-12-06-FG	3/4-14	3/8-18	0.719	0.34/0.36	1.59	1.26	1.47	0.875	1.062
1501-12-08-FG	3/4-14	1/2-14	0.719	0.46	1.59	1.33	1.61	1.000	1.062
1501-12-12-FG	3/4-14	3/4-14	0.719	0.61/0.66	1.590	1.300	1.650	1.250	1.062
1501-12-16-FG	3/4-14	1-11 1/2	0.719	0.78/0.88	1.78	1.54	1.89	1.500	1.312
1501-12-20-FG	3/4-14	1-1/4-11-1/2	0.719	1.01/1.03	2.160	1.730	2.150	1.875	1.625
1501-16-08-FG	1-11-1/2	1/2-14	0.938	0.44/0.46	1.970	1.400	1.680	1.000	1.312
1501-16-12-FG	1-11 1/2	3/4-14	0.938	0.630	1.970	1.410	1.750	1.250	1.312
1501-16-16-FG	1-11 1/2	1-11 1/2	0.938	0.78/0.88	1.97	1.54	1.89	1.500	1.312
1501-16-20-FG	1-11-1/2	1-1/4-11-1/2	0.938	1.010	2.350	1.730	2.150	1.875	1.625
1501-20-12-FG	1 1/4-11 1/2	3/4-14	1.250	0.64	2.38	1.56	1.91	1.250	1.625
1501-20-16-FG	1-1/4-11-1/2	1-11-1/2	1.250	0.830	2.380	1.700	2.050	1.500	1.625
1501-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.09	2.38	1.73	2.15	1.875	1.625
1501-20-24-FG	1 1/4-11 1/2	1 1/2-11 1/2	1.250	1.32	2.61	1.89	2.31	2.125	1.875
1501-24-20-FG	1-1/2-11-1/2	1-1/4-11-1/2	1.500	1.01/1.03	2.640	1.770	2.190	1.875	1.875
1501-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.250	2.640	1.890	2.310	2.125	1.875
1501-32-32-FG	2-11 1/2	2-11 1/2	1.938	1.720	3.000	2.270	2.690	2.625	2.500

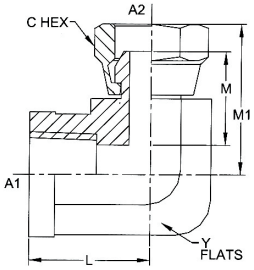
1501-L-FG MP-FPS 90 DEG ELBOW LONG





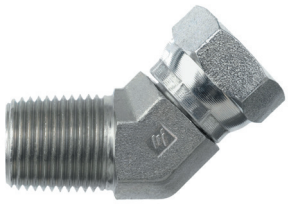
PART NO.	A1 NPTF	A2 NPSM	A1 DRILL	A2 DRILL	L LGTH	M LGTH	M1 LGTH	C HEX	Y FLATS
1501-L-02-02-FG	1/8-27	1/8-27	0.188	0.120	1.640	0.700	0.840	0.562	0.438
1501-L-04-04-FG	1/4-18	1/4-18	0.281	0.220	2.250	0.970	1.160	0.688	0.562
1501-L-06-06-FG	3/8-18	3/8-18	0.406	0.330	2.760	0.990	1.200	0.875	0.750
1501-L-06-08-FG	3/8-18	1/2-14	.406	.44	3.00	1.11	1.39	1.00	.875
1501-L-08-08-FG	1/2-14	1/2-14	0.531	0.460	3.190	1.110	1.390	1.000	0.875
1501-L-12-12-FG	3/4-14	3/4-14	0.719	0.635	3.66	1.30	1.65	1.250	1.062
1501-L-16-16-FG	1-11-1/2	1-11-1/2	0.938	0.790	4.33	1.54	1.89	1.500	1.312

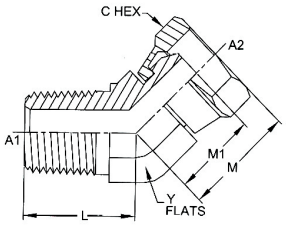
1502-FG FP-FPS 90 DEG ELBOW



PART NO.	A1 NPTF	A2 NPSM	A2 DRILL	L LGTH	M LGTH	M1 LGTH	C HEX	Y FLATS
1502-02-02-FG	1/8-27	1/8-27	0.110	0.660	0.800	0.940	0.562	0.562
1502-02-04-FG	1/8-27	1/4-18	0.220	0.660	0.940	1.130	0.688	0.562
1502-04-04-FG	1/4-18	1/4-18	0.220	0.880	0.990	1.180	0.688	0.750
1502-04-06-FG	1/4-18	3/8-18	0.340	0.88	1.01	1.22	0.875	0.750
1502-06-04-FG	3/8-18	1/4-18	0.220	1.020	1.040	1.230	0.688	0.875
1502-06-06-FG	3/8-18	3/8-18	0.340	1.02	1.06	1.27	0.875	0.875
1502-06-08-FG	3/8-18	1/2-14	0.460	1.020	1.240	1.520	1.000	0.875
1502-08-04-FG	1/2-14	1/4-18	0.220	1.23	1.15	1.34	0.688	1.062
1502-08-06-FG	1/2-14	3/8-18	0.340	1.230	1.170	1.380	0.875	1.062
1502-08-08-FG	1/2-14	1/2-14	0.460	1.23	1.24	1.52	1.000	1.062
1502-08-12-FG	1/2-14	3/4-14	0.610	1.230	1.240	1.590	1.250	1.062
1502-12-08-FG	3/4-14	1/2-14	0.460	1.36	1.47	1.75	1.000	1.312
1502-12-12-FG	3/4-14	3/4-14	0.620	1.360	1.470	1.820	1.250	1.312
1502-12-16-FG	3/4-14	1-11 1/2	0.780	1.620	1.730	2.080	1.500	1.625
1502-16-12-FG	1-11 1/2	3/4-14	0.620	1.620	1.620	1.970	1.250	1.625
1502-16-16-FG	1-11-1/2	1-11-1/2	0.780	1.620	1.730	2.080	1.500	1.625
1502-20-16-FG	1 1/4-11 1/2	1-11 1/2	0.780	1.700	1.830	2.180	1.500	1.875
1502-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.03	1.70	1.83	2.25	1.875	1.875
1502-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1.250	2.080	2.410	2.830	2.125	2.562
1502-32-32-FG	2-11 1/2	2-11 1/2	1.720	2.39	2.57	2.99	2.625	2.812
1502-04-08-FG	1/4-18	1/2-14	0.440	1.000	1.124	1.410	0.688	0.750

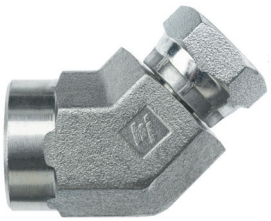
1503-FG MP-FPS 45 DEG ELBOW

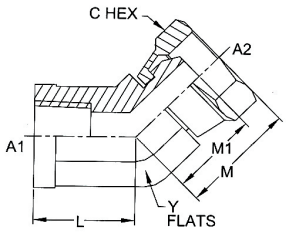




PART NO.	A1 NPTF	A2 NPSM	A1 DRILL	A2 DRILL	L LGTH	M1 LGTH	M LGTH	C HEX	Y FLATS
1503-02-02-FG	1/8-27	1/8-27	0.188	0.150	0.520	0.620	0.760	0.562	0.438
1503-02-04-FG	1/8-27	1/4-18	0.188	0.220	0.670	0.730	0.920	0.688	0.562
1503-04-02-FG	1/4-18	1/8-27	0.281	0.120	0.860	0.630	0.770	0.562	0.562
1503-04-04-FG	1/4-18	1/4-18	0.281	0.220	0.86	0.73	0.92	0.688	0.562
1503-04-06-FG	1/4-18	3/8-18	0.281	0.330	0.950	0.810	1.020	0.875	0.750
1503-04-08-FG	1/4-18	1/2-14	0.281	0.460	0.98	0.88	1.16	1.000	0.875
1503-06-04-FG	3/8-18	1/4-18	0.406	0.220	0.95	0.79	0.98	0.688	0.750
1503-06-06-FG	3/8-18	3/8-18	0.406	0.340	0.950	0.810	1.020	0.875	0.750
1503-06-08-FG	3/8-18	1/2-14	0.406	0.440	0.980	0.880	1.160	1.000	0.875
1503-08-04-FG	1/2-14	1/4-18	0.531	0.210	1.170	0.790	0.980	0.688	0.875
1503-08-06-FG	1/2-14	3/8-18	0.531	0.340	1.170	0.810	1.020	0.875	0.875
1503-08-08-FG	1/2-14	1/2-14	0.531	0.460	1.17	0.88	1.16	1.000	0.875
1503-08-12-FG	1/2-14	3/4-14	0.531	0.630	1.200	1.020	1.370	1.250	1.062
1503-12-08-FG	3/4-14	1/2-14	0.719	0.460	1.200	1.050	1.330	1.000	1.062
1503-12-12-FG	3/4-14	3/4-14	0.719	0.620	1.20	1.02	1.37	1.250	1.062
1503-12-16-FG	3/4-14	1-11 1/2	0.719	0.800	1.29	1.15	1.50	1.500	1.312
1503-16-12-FG	1-11 1/2	3/4-14	0.938	0.620	1.48	1.01	1.36	1.250	1.312
1503-16-16-FG	1-11 1/2	1-11 1/2	0.938	0.800	1.48	1.15	1.50	1.500	1.312
1503-16-20-FG	1-11 1/2	1 1/4-11 1/2	0.938	1.080	1.64	1.23	1.65	1.875	1.625
1503-20-16-FG	1 1/4-11 1/2	1-11 1/2	1.250	0.800	1.67	1.20	1.55	1.500	1.625
1503-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.020	1.670	1.230	1.650	1.875	1.625
1503-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.315	1.77	1.35	1.77	2.125	1.875
1503-32-32-FG	2-11 1/2	2-11 1/2	1.938	1.740	2.11	1.51	1.93	2.625	2.500

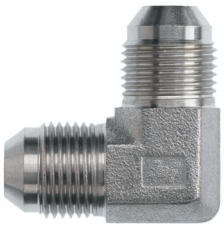
1504-FG FP-FPS 45 DEG ELBOW

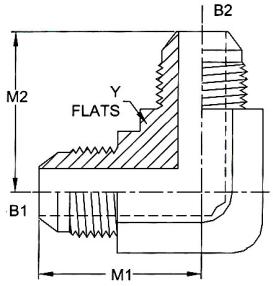




PART NO.	A1 NPTF	A2 NPSM	A2 DRILL	L LGTH	M1 LGTH	M LGTH	C HEX	Y FLATS
1504-02-02-FG	1/8-27	1/8-27	0.120	0.470	0.550	0.700	0.562	0.562
1504-02-04-FG	1/8-27	1/4-18	0.220	0.50	0.76	0.95	0.562	0.750
1504-04-04-FG	1/4-18	1/4-18	0.220	0.69	0.76	0.95	0.688	0.750
1504-04-06-FG	1/4-18	3/8-18	0.320	0.69	0.77	0.98	0.875	0.875
1504-06-04-FG	3/8-18	1/4-18	0.220	0.75	0.77	0.96	0.688	0.875
1504-06-06-FG	3/8-18	3/8-18	0.320	0.750	0.770	0.980	0.875	0.875
1504-06-08-FG	3/8-18	1/2-14	0.460	0.75	0.83	1.11	1.000	1.062
1504-08-06-FG	1/2-14	3/8-18	0.320	0.940	0.950	1.160	0.875	1.062
1504-08-08-FG	1/2-14	1/2-14	0.460	0.940	1.020	1.300	1.000	1.062
1504-12-08-FG	3/4-14	1/2-14	0.460	1.00	0.96	1.24	1.000	1.312
1504-12-12-FG	3/4-14	3/4-14	0.630	1.000	1.010	1.360	1.250	1.312
1504-16-12-FG	1-11 1/2	3/4-14	0.630	1.19	1.07	1.42	1.250	1.625
1504-16-16-FG	1-11 1/2	1-11 1/2	0.800	1.190	1.230	1.580	1.500	1.625
1504-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.020	1.440	1.350	1.770	1.875	1.875
1504-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1.260	1.46	1.46	1.88	2.125	2.562

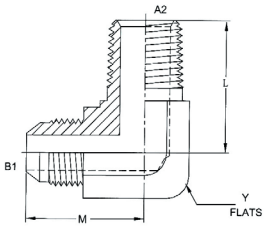
2500-FG MJ-MJ 90 DEG ELBOW





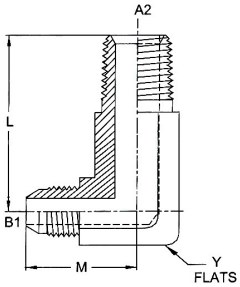
PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M1 LGTH	M2 LGTH	Y FLATS
2500-02-02-FG	1/8	1/8	5/16-24	5/16-24	0.062	0.062	0.770	0.770	0.438
2500-03-03-FG	3/16	3/16	3/8-24	3/8-24	0.125	0.125	0.830	0.830	0.438
2500-04-04-FG	1/4	1/4	7/16-20	7/16-20	0.172	0.172	0.890	0.890	0.438
2500-05-04-FG	5/16	1/4	1/2-20	7/16-20	0.234	0.172	0.95	0.95	0.562
2500-05-05-FG	5/16	5/16	1/2-20	1/2-20	0.234	0.234	0.950	0.950	0.562
2500-06-04-FG	3/8	1/4	9/16-18	7/16-20	0.297	0.172	1.06	1.05	0.562
2500-06-05-FG	3/8	5/16	9/16-18	1/2-20	0.297	0.234	1.060	1.050	0.562
2500-06-06-FG	3/8	3/8	9/16-18	9/16-18	0.297	0.297	1.06	1.06	0.562
2500-08-04-FG	1/2	1/4	3/4-16	7/16-20	0.391	0.172	1.25	1.12	0.750
2500-08-06-FG	1/2	3/8	3/4-16	9/16-18	0.391	0.297	1.25	1.14	0.750
2500-08-08-FG	1/2	1/2	3/4-16	3/4-16	0.391	0.391	1.25	1.25	0.750
2500-10-08-FG	5/8	1/2	7/8-14	3/4-16	0.484	0.391	1.450	1.330	0.875
2500-10-10-FG	5/8	5/8	7/8-14	7/8-14	0.484	0.484	1.45	1.45	0.875
2500-12-08-FG	3/4	1/2	1-1/16-12	3/4-16	0.609	0.391	1.660	1.420	1.062
2500-12-10-FG	3/4	5/8	1-1/16-12	7/8-14	0.609	0.484	1.66	1.54	1.062
2500-12-12-FG	3/4	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.66	1.66	1.062
2500-14-14-FG	7/8	7/8	1-3/16-12	1-3/16-12	0.719	0.719	1.80	1.80	1.312
2500-16-12-FG	1	3/4	1-5/16-12	1-1/16-12	0.844	0.609	1.810	1.760	1.312
2500-16-16-FG	1	1	1-5/16-12	1-5/16-12	0.844	0.844	1.81	1.81	1.312
2500-20-20-FG	1 1/4	1 1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.06	2.06	1.625
2500-24-24-FG	1 1/2	1 1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.33	2.33	1.875
2500-32-32-FG	2	2	2-1/2-12	2-1/2-12	1.781	1.781	3.060	3.060	2.500

2501-FG MJ-MP 90 DEG ELBOW



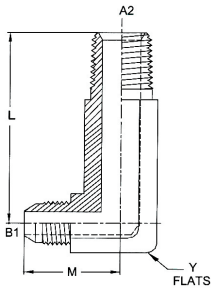
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	M LGTH	L LGTH	Y FLATS
2501-02-02-FG	1/8	5/16-24	1/8-27	0.062	0.188	0.77	0.72	0.438
2501-02-04-FG	1/8	5/16-24	1/4-18	0.062	0.281	0.930	1.090	0.562
2501-03-02-FG	3/16	3/8-24	1/8-27	0.125	0.188	0.83	0.72	0.438
2501-04-01-FG	1/4	7/16-20	1/16-27	0.172	0.109	0.89	0.78	0.438
2501-04-02-FG	1/4	7/16-20	1/8-27	0.172	0.188	0.89	0.78	0.438
2501-04-04-FG	1/4	7/16-20	1/4-18	0.172	0.281	1.05	1.09	0.562
2501-04-06-FG	1/4	7/16-20	3/8-18	0.172	0.406	1.12	1.22	0.750
2501-04-08-FG	1/4	7/16-20	1/2-14	0.172	0.531	1.210	1.470	0.875
2501-04-12-FG	1/4	7/16-20	3/4-14	0.172	0.719	1.35	1.59	1.062
2501-05-02-FG	5/16	1/2-20	1/8-27	0.234	0.188	0.95	0.78	0.562
2501-05-04-FG	5/16	1/2-20	1/4-18	0.234	0.281	1.05	1.09	0.562
2501-05-06-FG	5/16	1/2-20	3/8-18	0.234	0.406	1.120	1.220	0.750
2501-05-08-FG	5/16	1/2-20	1/2-14	0.234	0.531	1.21	1.47	0.875
2501-06-01-FG	3/8	9/16-18	1/16-27	0.297	0.125	1.060	0.900	0.562
2501-06-02-FG	3/8	9/16-18	1/8-27	0.297	0.188	1.060	0.900	0.562
2501-06-04-FG	3/8	9/16-18	1/4-18	0.297	0.281	1.06	1.09	0.562
2501-06-06-FG	3/8	9/16-18	3/8-18	0.297	0.406	1.140	1.220	0.750
2501-06-08-FG	3/8	9/16-18	1/2-14	0.297	0.531	1.22	1.47	0.875
2501-06-12-FG	3/8	9/16-18	3/4-14	0.297	0.719	1.31	1.59	1.062
2501-06-16-FG	3/8	9/16-18	1-11-1/2	0.297	0.938	1.500	1.970	1.312
2501-08-02-FG	1/2	3/4-16	1/8-27	0.391	0.188	1.25	1.03	0.750
2501-08-04-FG	1/2	3/4-16	1/4-18	0.391	0.281	1.25	1.22	0.750
2501-08-06-FG	1/2	3/4-16	3/8-18	0.391	0.406	1.25	1.22	0.750
2501-08-08-FG	1/2	3/4-16	1/2-14	0.391	0.531	1.330	1.470	0.875
2501-08-12-FG	1/2	3/4-16	3/4-14	0.391	0.719	1.420	1.590	1.062
2501-08-16-FG	1/2	3/4-16	1-11-1/2	0.391	0.938	1.520	1.970	1.312
2501-10-04-FG	5/8	7/8-14	1/4-18	0.484	0.281	1.45	1.34	0.875
2501-10-06-FG	5/8	7/8-14	3/8-18	0.484	0.406	1.45	1.28	0.875
2501-10-08-FG	5/8	7/8-14	1/2-14	0.484	0.531	1.45	1.47	0.875
2501-10-12-FG	5/8	7/8-14	3/4-14	0.484	0.719	1.54	1.59	1.062
2501-10-16-FG	5/8	7/8-14	1-11-1/2	0.484	0.938	1.640	1.970	1.312
2501-12-06-FG	3/4	1-1/16-12	3/8-18	0.609	0.406	1.66	1.40	1.062
2501-12-08-FG	3/4	1-1/16-12	1/2-14	0.609	0.531	1.66	1.59	1.062
2501-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	0.719	1.66	1.59	1.062
2501-12-16-FG	3/4	1-1/16-12	1-11-1/2	0.609	0.938	1.76	1.97	1.312
2501-12-20-FG	3/4	1-1/16-12	1-1/4-11-1/2	0.609	1.250	1.97	2.38	1.625
2501-14-08-FG	7/8	1-3/16-12	1/2-14	0.719	0.531	1.80	1.69	1.312
2501-14-12-FG	7/8	1-3/16-12	3/4-14	0.719	0.719	1.80	1.69	1.312
2501-14-16-FG	7/8	1-3/16-12	1-11-1/2	0.719	0.938	1.80	1.97	1.312
2501-16-08-FG	1	1-5/16-12	1/2-14	0.844	0.531	1.81	1.78	1.312
2501-16-12-FG	1	1-5/16-12	3/4-14	0.844	0.719	1.81	1.78	1.312
2501-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	0.938	1.81	1.97	1.312
2501-16-20-FG	1	1-5/16-12	1-1/4-11-1/2	0.844	1.250	2.01	2.38	1.625
2501-16-24-FG	1	1-5/16-12	1-1/2-11-1/2	0.844	1.500	2.16	2.64	1.875
2501-20-12-FG	1 1/4	1-5/8-12	3/4-14	1.078	0.719	2.06	2.16	1.625
2501-20-16-FG	1 1/4	1-5/8-12	1-11-1/2	1.078	0.938	2.06	2.35	1.625
2501-20-20-FG	1 1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.06	2.38	1.625
2501-20-24-FG	1 1/4	1-5/8-12	1-1/2-11-1/2	1.078	1.500	2.20	2.64	1.875
2501-20-32-FG	1-1/4	1-5/8-12	2-11-1/2	1.078	1.938	2.680	2.940	2.500
2501-24-16-FG	1 1/2	1-7/8-12	1-11-1/2	1.312	0.938	2.330	2.580	1.875
2501-24-20-FG	1 1/2	1-7/8-12	1-1/4-11-1/2	1.312	1.250	2.33	2.61	1.875
2501-24-24-FG	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	2.330	2.640	1.875
2501-24-32-FG	1 1/2	1-7/8-12	2-11-1/2	1.312	1.938	2.81	3.00	2.500
2501-32-24-FG	2	2-1/2-12	1-1/2-11-1/2	1.781	1.500	3.06	2.97	2.500
2501-32-32-FG	2	2-1/2-12	2-11-1/2	1.781	1.938	3.06	3.00	2.500
2501-40-40-FG	2-1/2	3 - 12	2-1/2-8	2.318	2.318	3.25	3.95	3.234

2501-L-FG MJ-MP 90 DEG ELBOW LONG



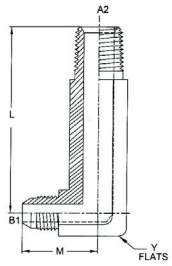
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	MLGTH	L LGTH	Y FLATS
2501-L-03-02-FG	3/16	3/8-24	1/8-27	0.125	0.188	0.83	1.04	0.438
2501-L-04-02-FG	1/4	7/16-20	1/8-27	0.172	0.188	0.890	1.170	0.438
2501-L-04-04-FG	1/4	7/16-20	1/4-18	0.172	0.281	1.05	1.58	0.562
2501-L-05-02-FG	5/16	1/2-20	1/8-27	0.234	0.188	0.950	1.170	0.562
2501-L-05-04-FG	5/16	1/2-20	1/4-18	0.234	0.281	1.05	1.58	0.562
2501-L-06-02-FG	3/8	9/16-18	1/8-27	0.297	0.188	1.06	1.39	0.562
2501-L-06-04-FG	3/8	9/16-18	1/4-18	0.297	0.281	1.060	1.580	0.562
2501-L-06-06-FG	3/8	9/16-18	3/8-18	0.297	0.406	1.140	1.820	0.750
2501-L-06-08-FG	3/8	9/16-18	1/2-14	0.297	0.531	1.22	2.17	0.875
2501-L-08-04-FG	1/2	3/4-16	1/4-18	0.391	0.281	1.25	1.82	0.750
2501-L-08-06-FG	1/2	3/4-16	3/8-18	0.391	0.406	1.250	1.820	0.750
2501-L-08-08-FG	1/2	3/4-16	1/2-14	0.391	0.531	1.33	2.17	0.875
2501-L-08-12-FG	1/2	3/4-16	3/4-14	0.391	0.719	1.42	2.44	1.062
2501-L-10-08-FG	5/8	7/8-14	1/2-14	0.484	0.531	1.450	2.170	0.875
2501-L-10-12-FG	5/8	7/8-14	3/4-14	0.484	0.719	1.54	2.44	1.062
2501-L-12-08-FG	3/4	1-1/16-12	1/2-14	0.609	0.531	1.66	2.44	1.062
2501-L-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	0.719	1.66	2.44	1.062
2501-L-12-16-FG	3/4	1-1/16-12	1-11-1/2	0.609	0.938	1.76	3.01	1.312
2501-L-14-12-FG	7/8	1-3/16-12	3/4-14	0.719	0.719	1.80	2.59	1.312
2501-L-16-12-FG	1	1-5/16-12	3/4-14	0.844	0.719	1.810	2.820	1.312
2501-L-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	0.938	1.81	3.01	1.312
2501-L-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.060	3.690	1.625
2501-L-24-24-FG	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	2.33	4.10	1.875
2501-L-32-32-FG	2	2-1/2-12	2-11-1/2	1.781	1.938	3.060	4.810	2.500

2501-LL-FG MJ-MP 90 DEG ELBOW X-LONG



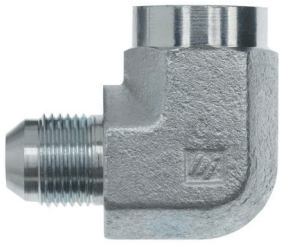
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	M LGTH	L LGTH	Y FLATS
2501-LL-04-02-FG	1/4	7/16-20	1/8-27	0.172	0.188	0.890	1.560	0.438
2501-LL-04-04-FG	1/4	7/16-20	1/4-18	0.172	0.281	1.050	2.070	0.562
2501-LL-05-02-FG	5/16	1/2-20	1/8-27	0.234	0.188	0.95	1.56	0.562
2501-LL-05-04-FG	5/16	1/2-20	1/4-18	0.234	0.281	1.05	2.07	0.562
2501-LL-06-04-FG	3/8	9/16-18	1/4-18	0.297	0.281	1.06	2.07	0.562
2501-LL-06-06-FG	3/8	9/16-18	3/8-18	0.297	0.406	1.14	2.42	0.750
2501-LL-06-08-FG	3/8	9/16-18	1/2-14	0.297	0.531	1.220	2.870	0.875
2501-LL-08-04-FG	1/2	3/4-16	1/4-18	0.391	0.281	1.25	2.42	0.750
2501-LL-08-06-FG	1/2	3/4-16	3/8-18	0.391	0.406	1.25	2.42	0.750
2501-LL-08-08-FG	1/2	3/4-16	1/2-14	0.391	0.531	1.330	2.870	0.875
2501-LL-10-08-FG	5/8	7/8-14	1/2-14	0.484	0.531	1.450	2.870	0.875
2501-LL-12-08-FG	3/4	1-1/16-12	1/2-14	0.609	0.531	1.660	3.280	1.062
2501-LL-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	0.719	1.660	3.280	1.062
2501-LL-14-12-FG	7/8	1-3/16-12	3/4-14	0.719	0.719	1.80	3.50	1.312
2501-LL-16-12-FG	1	1-5/16-12	3/4-14	0.844	0.719	1.810	3.860	1.312
2501-LL-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	0.938	1.81	4.05	1.312
2501-LL-20-20-FG	1 1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.060	5.000	1.625
2501-LL-24-24-FG	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	2.33	5.55	1.875

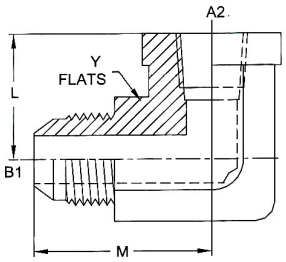
2501-LLL-FG MJ-MP 90 DEG ELBOW XX-LONG



PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	B2 DRILL	M LGTH	L LGTH	Y FLATS
2501-LLL-04-02-FG	1/4	7/16-20	1/8-27	0.172	0.188	0.890	2.310	0.438
2501-LLL-04-04-FG	1/4	7/16-20	1/4-18	0.172	0.281	1.05	3.00	
2501-LLL-06-04-FG	3/8	9/16-18	1/4-18	0.297	0.281	1.06	3.06	0.562
2501-LLL-06-06-FG	3/8	9/16-18	3/8-18	0.297	0.406	1.140	3.750	0.750
2501-LLL-08-06-FG	1/2	3/4-16	3/8-18	0.391	0.406	1.250	3.750	0.750
2501-LLL-08-08-FG	1/2	3/4-16	1/2-14	0.391	0.531	1.33	4.50	0.875
2501-LLL-10-08-FG	5/8	7/8-14	1/2-14	0.484	0.531	1.450	4.500	0.875
2501-LLL-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	0.719	1.66	5.03	1.062
2501-LLL-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	0.938	1.81	6.34	1.312
2501-LLL-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.060	7.340	1.625

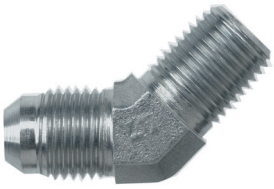
2502-FG MJ-FP 90 DEG ELBOW

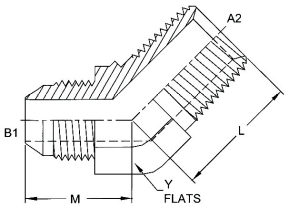




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	M LGTH	L LGTH	Y FLATS
2502-02-02-FG	1/8	5/16-24	1/8-27	0.062	1.000	0.660	0.562
2502-03-02-FG	3/16	3/8-24	1/8-27	0.125	1.03	0.66	0.562
2502-04-02-FG	1/4	7/16-20	1/8-27	0.172	1.080	0.660	0.562
2502-04-04-FG	1/4	7/16-20	1/4-18	0.172	1.22	0.88	0.750
2502-04-06-FG	1/4	7/16-20	3/8-18	0.172	1.290	1.020	0.875
2502-04-08-FG	1/4	7/16-20	1/2-14	0.172	1.40	1.23	1.062
2502-05-02-FG	5/16	1/2-20	1/8-27	0.234	1.080	0.660	0.562
2502-05-04-FG	5/16	1/2-20	1/4-18	0.234	1.220	0.880	0.750
2502-05-06-FG	5/16	1/2-20	3/8-18	0.234	1.29	1.02	0.875
2502-06-02-FG	3/8	9/16-18	1/8-27	0.297	1.23	0.67	0.562
2502-06-04-FG	3/8	9/16-18	1/4-18	0.297	1.23	0.88	0.750
2502-06-06-FG	3/8	9/16-18	3/8-18	0.297	1.31	1.02	0.875
2502-06-08-FG	3/8	9/16-18	1/2-14	0.297	1.41	1.23	1.062
2502-08-04-FG	1/2	3/4-16	1/4-18	0.391	1.42	1.01	0.750
2502-08-06-FG	1/2	3/4-16	3/8-18	0.391	1.42	1.02	0.875
2502-08-08-FG	1/2	3/4-16	1/2-14	0.391	1.52	1.23	1.062
2502-08-12-FG	1/2	3/4-16	3/4-14	0.391	1.650	1.360	1.312
2502-10-06-FG	5/8	7/8-14	3/8-18	0.484	1.64	1.01	1.062
2502-10-08-FG	5/8	7/8-14	1/2-14	0.484	1.640	1.230	1.062
2502-10-12-FG	5/8	7/8-14	3/4-14	0.484	1.770	1.360	1.312
2502-12-08-FG	3/4	1-1/16-12	1/2-14	0.609	1.89	1.35	1.062
2502-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	1.89	1.36	1.312
2502-12-16-FG	3/4	1-1/16-12	1-11-1/2	0.609	2.12	1.62	1.625
2502-14-12-FG	7/8	1-3/16-12	3/4-14	0.719	1.86	1.42	1.312
2502-16-12-FG	1	1-5/16-12	3/4-14	0.844	2.040	1.390	1.312
2502-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	2.17	1.62	1.625
2502-16-20-FG	1	1-5/16-12	1-1/4-11-1/2	0.844	2.28	1.70	1.875
2502-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	2.330	1.700	1.875
2502-24-24-FG	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	2.89	2.08	2.562
2502-32-32-FG	2	2-1/2-12	2-11-1/2	1.781	3.30	2.39	2.812

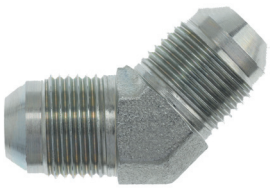
2503-FG MJ-MP 45 DEG ELBOW

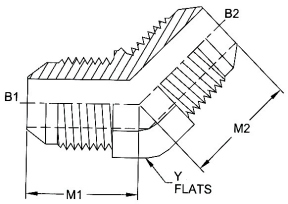




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	A2 DRILL	M LGTH	L LGTH	Y FLATS
2503-02-02-FG	1/8	5/16-24	1/8-27	0.062	0.188	0.690	0.520	0.438
2503-03-02-FG	3/16	3/8-24	1/8-27	0.125	0.188	0.690	0.520	0.438
2503-04-02-FG	1/4	7/16-20	1/8-27	0.172	0.188	0.720	0.640	0.438
2503-04-04-FG	1/4	7/16-20	1/4-18	0.172	0.281	0.82	0.86	0.562
2503-04-06-FG	1/4	7/16-20	3/8-18	0.172	0.406	0.850	0.950	0.750
2503-04-08-FG	1/4	7/16-20	1/2-14	0.172	0.531	0.870	1.170	0.875
2503-05-02-FG	5/16	1/2-20	1/8-27	0.234	0.188	0.77	0.64	0.562
2503-05-04-FG	5/16	1/2-20	1/4-18	0.234	0.281	0.820	0.860	0.562
2503-05-06-FG	5/16	1/2-20	3/8-18	0.234	0.406	0.85	0.95	0.750
2503-06-02-FG	3/8	9/16-18	1/8-27	0.297	0.188	0.830	0.670	0.562
2503-06-04-FG	3/8	9/16-18	1/4-18	0.297	0.281	0.83	0.86	0.562
2503-06-06-FG	3/8	9/16-18	3/8-18	0.297	0.406	0.870	0.950	0.750
2503-06-08-FG	3/8	9/16-18	1/2-14	0.297	0.531	0.88	1.17	0.875
2503-06-12-FG	3/8	9/16-18	3/4-14	0.297	0.719	0.930	1.200	1.062
2503-08-04-FG	1/2	3/4-16	1/4-18	0.391	0.281	0.98	0.95	0.750
2503-08-06-FG	1/2	3/4-16	3/8-18	0.391	0.406	0.98	0.95	0.750
2503-08-08-FG	1/2	3/4-16	1/2-14	0.391	0.531	0.99	1.17	0.875
2503-08-12-FG	1/2	3/4-16	3/4-14	0.391	0.719	1.04	1.20	1.062
2503-10-04-FG	5/8	7/8-14	1/4-18	0.484	0.281	1.110	0.980	0.875
2503-10-06-FG	5/8	7/8-14	3/8-18	0.484	0.406	1.11	0.98	0.875
2503-10-08-FG	5/8	7/8-14	1/2-14	0.484	0.531	1.11	1.17	0.875
2503-10-12-FG	5/8	7/8-14	3/4-14	0.484	0.719	1.16	1.20	1.062
2503-12-08-FG	3/4	1-1/16-12	1/2-14	0.609	0.531	1.28	1.20	1.062
2503-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	0.719	1.28	1.20	1.062
2503-12-16-FG	3/4	1-1/16-12	1-11-1/2	0.609	0.938	1.42	1.48	1.312
2503-14-12-FG	7/8	1-3/16-12	3/4-14	0.719	0.719	1.45	1.30	1.312
2503-16-08-FG	1	1-5/16-12	1/2-14	0.844	0.531	1.470	1.290	1.312
2503-16-12-FG	1	1-5/16-12	3/4-14	0.844	0.719	1.47	1.29	1.312
2503-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	0.938	1.47	1.48	1.312
2503-16-20-FG	1	1-5/16-12	1-1/4-11-1/2	0.844	1.250	1.540	1.670	1.625
2503-20-16-FG	1 1/4	1-5/8-12	1-11-1/2	1.078	0.938	1.59	1.64	1.625
2503-20-20-FG	1 1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	1.59	1.67	1.625
2503-20-24-FG	1 1/4	1-5/8-12	1-1/2-11-1/2	1.078	1.500	1.65	1.77	1.875
2503-24-20-FG	1 1/2	1-7/8-12	1-1/4-11-1/2	1.312	1.250	1.78	1.74	1.875
2503-24-24-FG	1 1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	1.78	1.77	1.875
2503-32-32-FG	2	2-1/2-12	2-11-1/2	1.781	1.938	2.22	2.11	2.500

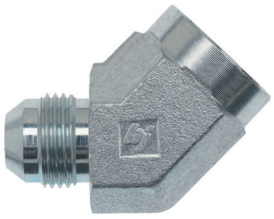
2504-FG MJ-MJ 45 DEG ELBOW

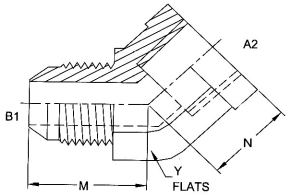




PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M1 LGTH	M2 LGTH	Y FLATS
2504-03-03-FG	3/16	3/16	3/8-24	3/8-24	0.125	0.125	0.69	0.69	0.438
2504-04-04-FG	1/4	1/4	7/16-20	7/16-20	0.172	0.172	0.72	0.72	0.438
2504-06-04-FG	3/8	3/8	9/16-18	7/16-20	0.297	0.172	0.83	0.82	0.562
2504-06-06-FG	3/8	3/8	9/16-18	9/16-18	0.297	0.297	0.83	0.83	0.562
2504-08-08-FG	1/2	1/2	3/4-16	3/4-16	0.391	0.391	0.98	0.98	0.750
2504-10-10-FG	5/8	5/8	7/8-14	7/8-14	0.484	0.484	1.11	1.11	0.875
2504-12-12-FG	3/4	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.28	1.28	1.062
2504-16-16-FG	1	1	1-5/16-12	1-5/16-12	0.844	0.844	1.47	1.47	1.312

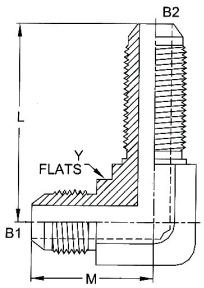
2505-FG MJ-FP 45 DEG ELBOW





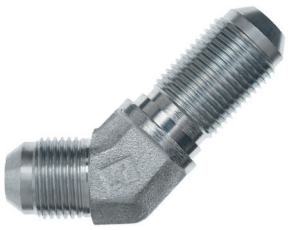
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	M LGTH	N LGTH	Y FLATS
2505-04-04-FG	1/4	7/16-20	1/4-18	0.172	0.870	0.620	0.750
2505-06-04-FG	3/8	9/16-18	1/4-18	0.297	0.87	0.69	0.750
2505-06-06-FG	3/8	9/16-18	3/8-18	0.297	0.88	0.75	0.875
2505-08-06-FG	1/2	3/4-16	3/8-18	0.391	0.98	0.75	0.875
2505-08-08-FG	1/2	3/4-16	1/2-14	0.391	1.04	0.94	1.062
2505-10-08-FG	5/8	7/8-14	1/2-14	0.484	1.16	0.94	1.062
2505-12-12-FG	3/4	1-1/16-12	3/4-14	0.609	1.42	1.00	1.312
2505-16-16-FG	1	1-5/16-12	1-11-1/2	0.844	1.54	1.12	1.625

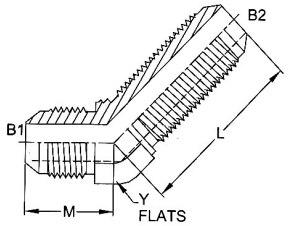
2701-FG MJ-MJ BULKHEAD 90 DEG ELBOW



PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M LGTH	L LGTH	Y FLATS
2701-02-02-FG	1/8	5/16-24	5/16-24	0.062	0.062	0.88	1.50	0.438
2701-03-03-FG	3/16	3/8-24	3/8-24	0.125	0.125	0.940	1.500	0.438
2701-04-04-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.970	1.590	0.438
2701-05-05-FG	5/16	1/2-20	1/2-20	0.234	0.234	1.06	1.72	0.562
2701-06-06-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.09	1.81	0.562
2701-08-08-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.360	2.110	0.750
2701-10-10-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.560	2.390	0.875
2701-12-12-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.780	2.670	1.062
2701-14-14-FG	7/8	1-3/16-12	1-3/16-12	0.719	0.719	1.92	2.80	1.312
2701-16-16-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.940	2.800	1.312
2701-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.170	3.120	1.625
2701-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.34	3.42	1.875

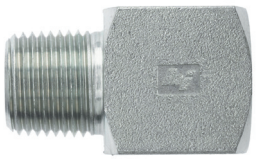
2702-FG MJ-MJ BULKHEAD 45 DEG ELBOW

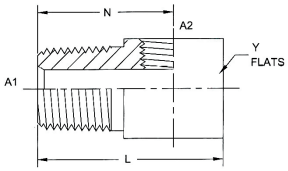




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M LGTH	L LGTH	Y FLATS
2702-03-03-FG	3/16	3/8-24	3/8-24	0.125	0.125	0.69	1.42	0.438
2702-04-04-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.72	1.53	0.438
2702-05-05-FG	5/16	1/2-20	1/2-20	0.234	0.234	0.77	1.66	0.562
2702-06-06-FG	3/8	9/16-18	9/16-18	0.297	0.297	0.83	1.67	0.562
2702-08-08-FG	1/2	3/4-16	3/4-16	0.391	0.391	0.98	1.94	0.750
2702-10-10-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.110	2.170	0.875
2702-12-12-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.28	2.44	1.062
2702-16-16-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.47	2.56	1.312
2702-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	1.590	2.650	1.625
2702-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	1.78	2.67	1.875
2702-32-32-FG	2	2-1/2-12	2-1/2-12	1.781	1.781	2.22	2.91	2.500

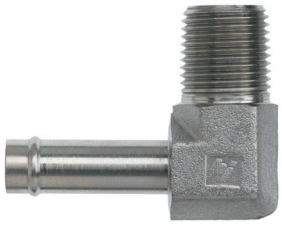
3051 MP-FP LOW PROFILE 90 DEG ELBOW

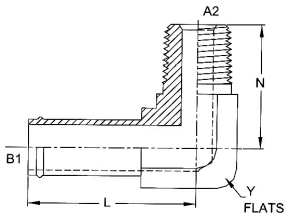




PART NO.	TUBE O.D.	A1 NPTF	A2 NPTF	L LGTH	N LGTH	Y FLATS
3051-02-02	1/8	1/8-27	1/8-27	1.020	0.75	0.500
3051-04-04	1/4	1/4-18	1/4-18	1.562	1.065	0.875
3051-06-06	3/8	3/8-18	3/8-18	1.562	1.065	0.875
3051-08-08	1/2	1/2-14	1/2-14	1.875	1.310	1.125
3051-12-12	3/4	3/4-14	3/4-14	2.25	1.50	1.375
3051-16-16	1	1-11-1/2	1-11-1/2	2.785	1.972	1.625

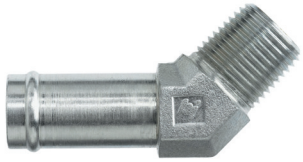
4501-FG HB-MP 90 DEG ELBOW

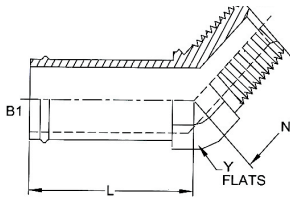




PART NO.	B1 TUBE O.D.	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	N LGTH	Y FLATS
4501-04-02-FG	1/4	1/8-27	0.188	0.188	1.810	0.750	0.438
4501-04-04-FG	1/4	1/4-18	0.189	0.281	1.850	1.090	0.625
4501-05-02-FG	5/16	1/8-27	0.252	0.188	1.750	0.781	0.437
4501-06-02-FG	3/8	1/8-27	0.297	0.188	1.810	0.900	0.562
4501-06-04-FG	3/8	1/4-18	0.297	0.281	1.870	1.090	0.562
4501-06-06-FG	3/8	3/8-18	0.297	0.406	2.040	1.220	0.750
4501-06-08-FG	3/8	1/2-14	0.297	0.531	2.040	1.470	0.875
4501-08-04-FG	1/2	1/4-18	0.406	0.281	2.040	1.220	0.750
4501-08-06-FG	1/2	3/8-18	0.406	0.406	2.040	1.220	0.750
4501-08-08-FG	1/2	1/2-14	0.406	0.531	2.055	1.470	0.875
4501-08-12-FG	1/2	3/4-14	0.406	0.719	2.232	1.594	1.062
4501-10-06-FG	5/8	3/8-18	0.500	0.406	1.968	1.278	0.750
4501-10-08-FG	5/8	1/2-14	0.500	0.531	2.055	1.470	0.875
4501-10-12-FG	5/8	3/4-14	0.500	0.709	2.232	1.595	1.062
4501-12-06-FG	3/4	3/8-18	0.626	0.406	2.060	1.280	0.875
4501-12-08-FG	3/4	1/2-14	0.626	0.531	2.060	1.470	0.875
4501-12-12-FG	3/4	3/4-14	0.626	0.719	2.232	1.595	1.062
4501-12-16-FG	3/4	1-11-1/2	0.626	0.938	2.382	1.969	1.311
4501-16-08-FG	1	1/2-14	0.844	0.531	2.320	1.590	1.312
4501-16-12-FG	1	3/4-14	0.843	0.719	2.360	1.780	1.312
4501-16-16-FG	1	1-11-1/2	0.843	0.938	2.320	1.970	1.312
4501-16-20-FG	1	1-1/4-11-1/2	0.844	1.250	2.567	2.374	1.625
4501-20-16-FG	1 1/4	1-11-1/2	1.094	0.938	2.500	1.968	1.625
4501-20-20-FG	1 1/4	1-1/4-11-1/2	1.094	1.250	2.570	2.375	1.625
4501-20-24-FG	1-1/4	1-1/2-11-1/2	1.094	1.500	2.650	2.640	1.875
4501-24-16-FG	1 1/2	1-11-1/2	1.344	0.938	2.650	2.284	1.875
4501-24-20-FG	1 1/2	1-1/4-11-1/2	1.344	1.250	2.650	2.610	1.875
4501-24-24-FG	1 1/2	1-1/2-11-1/2	1.343	1.500	2.650	2.640	1.875
4501-32-32-FG	2	2-11-1/2	1.843	1.938	3.000	3.000	2.500

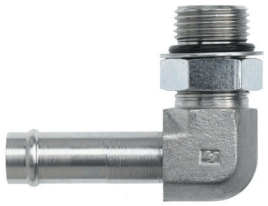
4503-FG HB-MP 45 DEG ELBOW

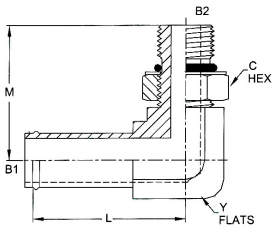




PART NO.	B1 TUBE O.D.	A2 NPTF	B1 DRILL	A2 DRILL	L LGTH	N LGTH	Y FLATS
4503-04-02-FG	1/4	1/8-27	0.189	0.188	1.562	0.640	0.500
4503-04-04-FG	1/4	1/4-18	0.189	0.281	1.810	0.830	0.625
4503-06-04-FG	3/8	1/4-18	0.297	0.281	1.670	0.860	0.562
4503-08-06-FG	1/2	3/8-18	0.406	0.406	1.687	0.953	0.812
4503-08-08-FG	1/2	1/2-14	0.406	0.531	1.830	1.170	0.875
4503-10-06-FG	5/8	3/8-18	0.500	0.406	1.830	0.980	0.875
4503-10-08-FG	5/8	1/2-14	0.500	0.531	1.830	1.170	0.875
4503-10-12-FG	5/8	3/4-14	0.500	0.719	1.890	1.200	1.062
4503-12-08-FG	3/4	1/2-14	0.625	0.531	1.846	1.170	0.875
4503-12-12-FG	3/4	3/4-14	0.626	0.709	1.894	1.200	1.062
4503-12-16-FG	3/4	1-11 1/2	0.625	0.938	1.930	1.480	1.312
4503-16-12-FG	1	3/4-14	0.844	0.719	1.930	1.290	1.312
4503-16-16-FG	1	1-11 1/2	0.843	0.938	1.930	1.480	1.312
4503-16-20-FG	1	1 1/4-11 1/2	0.843	1.250	2.070	1.620	1.750
4503-20-16-FG	1 1/4	1-11 1/2	1.078	0.938	1.930	1.480	1.312
4503-20-20-FG	1 1/4	1-1/4-11-1/2	1.094	1.250	2.060	1.670	1.625
4503-24-20-FG	1 1/2	1 1/4-11 1/2	1.343	1.250	1.930	1.620	1.750
4503-24-24-FG	1 1/2	1 1/2-11 1/2	1.343	1.500	2.146	1.770	1.875
4503-32-32-FG	2	2-11 1/2	1.843	1.938	2.240	2.110	2.500

4601-NWO-FG HB-MAORB 90 DEG ELBOW





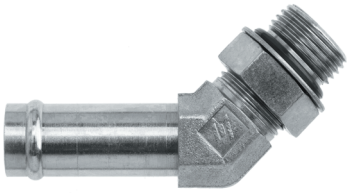
PART NO.	B1 TUBE O.D.	B2 AORB	B1 DRILL	B2 DRILL	L LGTH	M LGTH	C HEX	Y FLATS
4601-04-04-NWO-FG	1/4	7/16-20	0.189	0.172	1.750	1.030	0.563	0.438
4601-04-06-NWO-FG	1/4	9/16-18	0.189	0.297	1.810	1.270	0.688	0.625
4601-04-08-NWO-FG	1/4	3/4-16	0.189	0.391	1.980	1.449	0.875	0.750
4601-05-04-NWO-FG	5/16	7/16-20	0.252	0.172	1.810	1.030	0.562	0.562
4601-05-06-NWO-FG	5/16	9/16-18	0.252	0.297	1.810	1.240	0.688	0.562
4601-06-04-NWO-FG	3/8	7/16-20	0.297	0.172	1.810	1.190	0.562	0.562
4601-06-06-NWO-FG	3/8	9/16-18	0.297	0.297	1.812	1.240	0.688	0.562
4601-06-08-NWO-FG	3/8	3/4-16	0.297	0.391	1.980	1.450	0.875	0.750
4601-08-06-NWO-FG	1/2	9/16-18	0.406	0.297	1.980	1.250	0.688	0.750
4601-08-08-NWO-FG	1/2	3/4-16	0.406	0.391	1.980	1.449	0.875	0.750
4601-10-08-NWO-FG	5/8	3/4-16	0.500	0.391	1.980	1.450	0.750	0.812
4601-10-10-NWO-FG	5/8	7/8-14	0.500	0.484	2.055	1.701	1.000	0.875
4601-10-12-NWO-FG	5/8	1 1/16-12	0.500	0.609	2.232	1.941	1.250	1.062
4601-12-08-NWO-FG	3/4	3/4-16	0.625	0.391	2.050	1.540	0.875	0.875
4601-12-10-NWO-FG	3/4	7/8-14	0.625	0.484	2.060	1.700	1.000	1.062
4601-12-12-NWO-FG	3/4	1 1/16-12	0.625	0.609	2.197	1.929	1.250	1.062
4601-12-16-NWO-FG	3/4	1 5/16-12	0.625	0.844	2.360	2.030	1.500	1.312
4601-14-16-NWO-FG	7/8	1-5/16-12	0.719	0.844	2.300	2.039	1.500	1.312
4601-16-10-NWO-FG	1	7/8-14	0.844	0.484	2.358	1.920	1.000	1.312
4601-16-12-NWO-FG	1	1 1/16-12	0.844	0.609	2.358	2.051	1.250	1.312
4601-16-14-NWO-FG	1	1 3/16-12	0.844	0.719	2.394	2.039	1.375	1.312
4601-16-16-NWO-FG	1	1 5/16-12	0.844	0.844	2.394	2.039	1.500	1.312
4601-16-20-NWO-FG	1	1 5/8-12	0.844	1.078	2.450	2.230	1.875	1.625
4601-20-12-NWO-FG	1-1/4	1 1/16-12	1.094	0.609	2.614	2.240	1.250	1.625
4601-20-16-NWO-FG	1-1/4	1-5/16-12	1.094	0.844	2.450	2.250	1.500	1.625
4601-20-20-NWO-FG	1-1/4	1 5/8-12	1.094	1.078	2.375	2.250	1.875	1.750
4601-20-24-NWO-FG	1-1/4	1 7/8-12	1.094	1.312	2.500	2.400	2.125	2.000
4601-24-16-NWO-FG	1-1/2	1 5/16-12	1.344	0.844	2.697	2.390	1.500	1.875
4601-24-20-NWO-FG	1-1/2	1-5/8-12	1.343	1.078	2.700	2.380	1.875	1.875
4601-24-24-NWO-FG	1-1/2	1 7/8-12	1.344	1.312	2.697	2.382	2.125	1.875

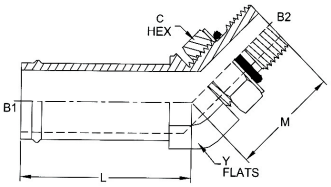
Continued...

PART NO.	B1 TUBE O.D.	B2 AORB	B1 DRILL	B2 DRILL	L LGTH	M LGTH	C HEX	Y FLATS
4601-32-20-NWO-FG	2	1-5/8-12	1.843	1.078	3.060	2.890	1.875	2.500
4601-32-24-NWO-FG	2	1-7/8-12	1.843	1.312	3.060	2.890	2.125	2.500
4601-32-32-NWO-FG	2	2 1/2-12	1.843	1.781	2.812	2.890	2.750	2.625

4603-NWO-FG

HB-MAORB 45 DEG ELBOW

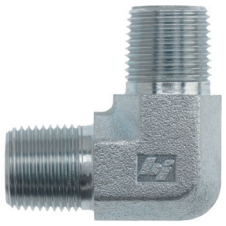


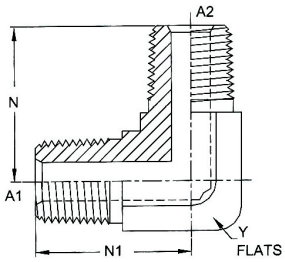


PART NO.	B1 TUBE O.D.	B2 AORB	B1 DRILL	B2 DRILL	L LGTH	M LGTH	C HEX	Y FLATS
4603-04-04-NWO-FG	1/4	7/16-20	0.188	0.172	1.681	1.047	0.563	0.438
4603-06-04-NWO-FG	3/8	7/16-20	0.297	0.172	1.681	1.100	0.562	0.562
4603-06-06-NWO-FG	3/8	9/16-18	0.297	0.297	1.681	1.146	0.688	0.562
4603-08-06-NWO-FG	1/2	9/16-18	0.406	0.297	1.760	1.300	0.688	0.750
4603-08-08-NWO-FG	1/2	3/4-16	0.406	0.391	1.625	1.296	0.875	0.812
4603-10-08-NWO-FG	5/8	3/4-16	0.500	0.391	1.820	1.300	0.875	0.750
4603-10-10-NWO-FG	5/8	7/8-14	0.500	0.484	1.850	1.520	1.000	0.875
4603-10-12-NWO-FG	5/8	1-1/16-12	0.500	0.609	1.894	1.724	1.250	1.062
4603-12-08-NWO-FG	3/4	3/4-16	0.626	0.391	1.846	1.358	0.875	0.875
4603-12-10-NWO-FG	3/4	7/8-14	0.626	0.484	1.650	1.530	1.000	1.062
4603-12-12-NWO-FG	3/4	1 1/16-12	0.626	0.609	1.894	1.724	1.250	1.062
4603-12-16-NWO-FG	3/4	1 5/16-20	0.626	0.844	1.957	1.854	1.500	1.312
4603-16-12-NWO-FG	1	1 1/16-12	0.843	0.609	1.700	1.730	1.250	1.312
4603-16-16-NWO-FG	1	1-5/16-12	0.844	0.844	1.960	1.850	1.500	1.312
4603-16-20-NWO-FG	1	1-5/8-12	0.844	1.078	2.050	1.894	1.875	1.625
4603-20-12-NWO-FG	1-1/4	1 1/16-12	1.094	0.609	2.059	1.840	1.250	1.625
4603-20-16-NWO-FG	1-1/4	1-5/16-12	1.094	0.844	2.060	1.840	1.500	1.625
4603-20-20-NWO-FG	1-1/4	1 5/8-12	1.094	1.078	2.059	1.894	1.875	1.625
4603-24-16-NWO-FG	1 1/2	1 5/16-12	1.343	0.844	1.988	1.909	1.500	1.875
4603-24-20-NWO-FG	1-1/2	1 5/8-12	1.343	1.078	1.990	1.894	1.875	1.875
4603-24-24-NWO-FG	1-1/2	1 7/8-12	1.343	1.312	2.060	1.909	2.125	1.875
4603-32-32-NWO-FG	2	2 1/2-12	1.843	1.781	2.237	1.860	2.750	2.500

5500-FG

MP-MP 90 DEG ELBOW





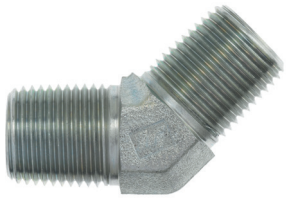
PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	N1 LGTH	N LGTH	Y FLATS
5500-02-02-FG	1/8-27	1/8-27	0.188	0.188	0.780	0.780	0.438
5500-04-02-FG	1/4-18	1/8-27	0.281	0.188	1.09	0.90	0.562
5500-04-04-FG	1/4-18	1/4-18	0.281	0.281	1.09	1.09	0.562
5500-06-02-FG	3/8-18	1/8-27	0.406	0.188	1.220	1.030	0.750
5500-06-04-FG	3/8-18	1/4-18	0.406	0.281	1.22	1.22	0.750
5500-06-06-FG	3/8-18	3/8-18	0.406	0.406	1.22	1.22	0.750
5500-08-04-FG	1/2-14	1/4-18	0.531	0.281	1.470	1.280	0.875
5500-08-06-FG	1/2-14	3/8-18	0.531	0.406	1.47	1.28	0.875
5500-08-08-FG	1/2-14	1/2-14	0.531	0.531	1.47	1.47	0.875
5500-12-06-FG	3/4-14	3/8-18	0.719	0.406	1.590	1.400	1.062
5500-12-08-FG	3/4-14	1/2-14	0.719	0.531	1.59	1.59	1.062
5500-12-12-FG	3/4-14	3/4-14	0.719	0.719	1.59	1.59	1.062
5500-16-08-FG	1-11-1/2	1/2-14	0.938	0.531	1.970	1.780	1.312
5500-16-12-FG	1-11 1/2	3/4-14	0.938	0.719	1.97	1.78	1.312
5500-16-16-FG	1-11 1/2	1-11 1/2	0.938	0.938	1.97	1.97	1.312
5500-20-16-FG	1-1/4-11-1/2	1-11-1/2	1.250	0.938	2.382	2.350	1.625

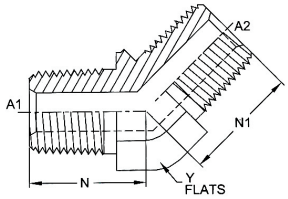
Continued...

PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	N1 LGTH	N LGTH	Y FLATS
5500-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	2.380	2.380	1.625
5500-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	1.500	1.500	2.640	2.640	1.875
5500-32-32-FG	2-11 1/2	2-11 1/2	1.938	1.938	3.00	3.00	2.500

5501-FG

MP-MP 45 DEG ELBOW

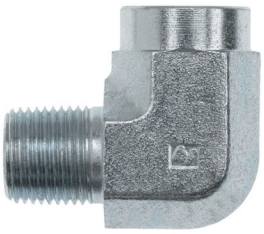


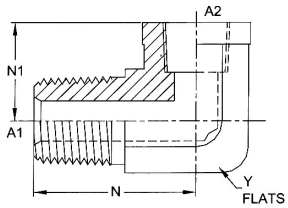


PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	A2 DRILL	N LGTH	N1 LGTH	Y FLATS
5501-01-02-FG	1/16-27	1/8-27	0.117	0.188	0.64	0.64	0.438
5501-02-02-FG	1/8-27	1/8-27	0.188	0.188	0.64	0.64	0.438
5501-04-04-FG	1/4-18	1/4-18	0.281	0.281	0.86	0.86	0.562
5501-06-06-FG	3/8-18	3/8-18	0.406	0.406	0.95	0.95	0.750
5501-08-08-FG	1/2-14	1/2-14	0.531	0.531	1.17	1.17	0.875
5501-12-12-FG	3/4-14	3/4-14	0.719	0.719	1.20	1.20	1.062
5501-16-16-FG	1-11 1/2	1-11 1/2	0.938	0.938	1.480	1.480	1.312
5501-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	1.67	1.67	1.625
5501-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	1.770	1.770	1.875

5502-FG

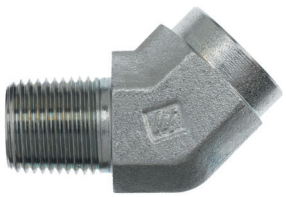
MP-FP 90 DEG ELBOW STREET ELBOW

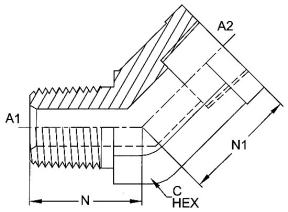




PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	N LGTH	N1 LGTH	Y FLATS
5502-01-02-FG	1/16-27	1/8-27	0.117	0.780	0.660	0.562
5502-02-02-FG	1/8-27	1/8-27	0.188	0.780	0.660	0.562
5502-02-04-FG	1/8-27	1/4-18	0.188	0.900	0.880	0.750
5502-02-06-FG	1/8-27	3/8-18	0.188	1.030	1.020	0.875
5502-04-02-FG	1/4-18	1/8-27	0.281	1.090	0.660	0.562
5502-04-04-FG	1/4-18	1/4-18	0.281	1.090	0.880	0.750
5502-04-06-FG	1/4-18	3/8-18	0.281	1.220	1.020	0.875
5502-06-04-FG	3/8-18	1/4-18	0.406	1.220	1.010	0.875
5502-06-06-FG	3/8-18	3/8-18	0.406	1.220	1.020	0.875
5502-06-08-FG	3/8-18	1/2-14	0.406	1.280	1.230	1.062
5502-08-04-FG	1/2-14	1/4-18	0.531	1.470	1.010	0.875
5502-08-06-FG	1/2-14	3/8-18	0.531	1.470	1.020	0.875
5502-08-08-FG	1/2-14	1/2-14	0.531	1.470	1.230	1.062
5502-08-12-FG	1/2-14	3/4-14	0.531	1.590	1.360	1.312
5502-12-06-FG	3/4-14	3/8-18	0.719	1.590	1.040	1.062
5502-12-08-FG	3/4-14	1/2-14	0.719	1.590	1.230	1.062
5502-12-12-FG	3/4-14	3/4-14	0.719	1.590	1.360	1.312
5502-12-16-FG	3/4-14	1-11-1/2	0.719	1.770	1.620	1.625
5502-16-12-FG	1-11-1/2	3/4-14	0.938	1.970	1.360	1.312
5502-16-16-FG	1-11-1/2	1-11-1/2	0.938	1.970	1.620	1.625
5502-16-20-FG	1-11-1/2	1-1/4-11-1/2	0.938	2.350	1.700	1.875
5502-20-16-FG	1-1/4-11-1/2	1-11-1/2	1.250	2.380	1.620	1.625
5502-20-20-FG	1-1/4-11-1/2	1-1/4-11-1/2	1.250	2.380	1.700	1.875
5502-20-24-FG	1-1/4-11-1/2	1-1/2-11-1/2	1.250	2.610	2.080	2.562
5502-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	1.500	2.640	2.080	2.562
5502-32-32-FG	2-11-1/2	2-11-1/2	1.938	3.000	2.390	2.812

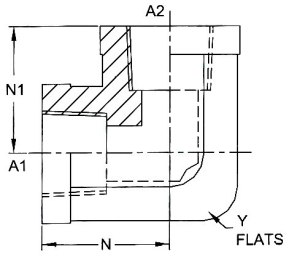
5503-FG MP-FP 45 DEG ELBOW STREET ELBOW





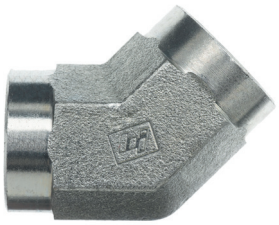
PART NO.	A1 NPTF	A2 NPTF	A1 DRILL	N LGTH	N1 LGTH	Y FLATS
5503-02-02-FG	1/8-27	1/8-27	0.188	0.720	0.470	0.562
5503-02-04-FG	1/8-27	1/4-18	0.188	0.860	0.620	0.750
5503-04-04-FG	1/4-18	1/4-18	0.281	1.05	0.62	0.750
5503-06-06-FG	3/8-18	3/8-18	0.406	1.06	0.72	0.875
5503-08-08-FG	1/2-14	1/2-14	0.531	1.34	0.91	1.062
5503-12-12-FG	3/4-14	3/4-14	0.719	1.38	0.97	1.312
5503-16-16-FG	1-11 1/2	1-11 1/2	0.938	1.72	1.12	1.625
5503-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.80	1.63	1.875
5503-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1.500	2.06	1.69	2.562
5503-32-32-FG	2-11-1/2	2-11-1/2	1.938	2.150	2.190	2.812

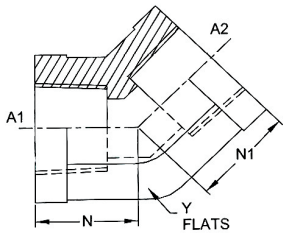
5504-FG FP-FP 90 DEG ELBOW



PART NO.	A1 NPTF	A2 NPTF	N LGTH	N1 LGTH	Y FLATS
5504-02-02-FG	1/8-27	1/8-27	0.660	0.660	0.562
5504-04-02-FG	1/4-18	1/8-27	0.88	0.88	0.750
5504-04-04-FG	1/4-18	1/4-18	0.880	0.880	0.750
5504-06-04-FG	3/8-18	1/4-18	1.020	1.010	0.875
5504-06-06-FG	3/8-18	3/8-18	1.020	1.020	0.875
5504-08-04-FG	1/2-14	1/4-18	1.23	1.10	1.062
5504-08-06-FG	1/2-14	3/8-18	1.230	1.010	1.062
5504-08-08-FG	1/2-14	1/2-14	1.230	1.230	1.062
5504-12-06-FG	3/4-14	3/8-18	1.36	1.36	1.312
5504-12-08-FG	3/4-14	1/2-14	1.360	1.350	1.312
5504-12-12-FG	3/4-14	3/4-14	1.36	1.36	1.312
5504-16-08-FG	1-11-1/2	1/2-14	1.62	1.62	1.625
5504-16-12-FG	1-11-1/2	3/4-14	1.620	1.620	1.625
5504-16-16-FG	1-11-1/2	1-11-1/2	1.62	1.62	1.625
5504-20-12-FG	1-1/4-11-1/2	3/4-14	1.700	1.450	1.875
5504-20-16-FG	1-1/4-11-1/2	1-11-1/2	1.70	1.70	1.875
5504-20-20-FG	1-1/4-11-1/2	1-1/4-11-1/2	1.70	1.70	1.875
5504-24-20-FG	1-1/2-11-1/2	1-1/4-11-1/2	2.080	2.080	2.562
5504-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	2.08	2.08	2.562
5504-32-32-FG	2-11-1/2	2-11-1/2	2.39	2.39	2.812

5505-FG FP-FP 45 DEG ELBOW



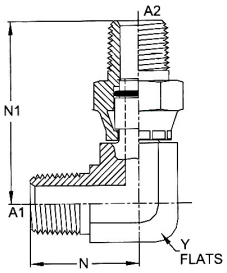


PART NO.	A1 NPTF	A2 NPTF	N LGTH	N1 LGTH	Y FLATS
5505-02-02-FG	1/8-27	1/8-27	0.50	0.50	0.562
5505-04-04-FG	1/4-18	1/4-18	0.69	0.69	0.750
5505-06-06-FG	3/8-18	3/8-18	0.75	0.75	0.875
5505-08-08-FG	1/2-14	1/2-14	0.940	0.940	1.062

Continued...

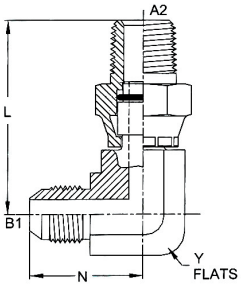
PART NO.	A1 NPTF	A2 NPTF	N LGTH	N1 LGTH	Y FLATS
5505-12-12-FG	3/4-14	3/4-14	1.00	1.00	1.312
5505-16-16-FG	1-11 1/2	1-11 1/2	1.19	1.19	1.625
5505-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1.44	1.44	1.875
5505-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	1.460	1.460	2.500
5505-32-32-FG	2-11-1/2	2-11-1/2	2.19	2.19	2.812

5700-FG MP-MPS 90 DEG ELBOW



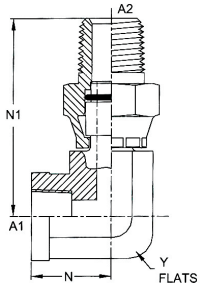
PART NO.	A1 NPF	A2 NPTF	A1 DRILL	N LGTH	N1 LGTH	Y FLATS
5700-04-04-FG	1/4-18	1/4-18	0.281	1.070	1.650	0.562
5700-06-06-FG	3/8-18	3/8-18	0.406	1.22	1.64	0.750
5700-08-08-FG	1/2-14	1/2-14	0.531	1.49	2.027	0.875
5700-12-12-FG	3/4-14	3/4-14	0.719	1.59	2.14	1.063

5701-FG MJ-MPS 90 DEG ELBOW



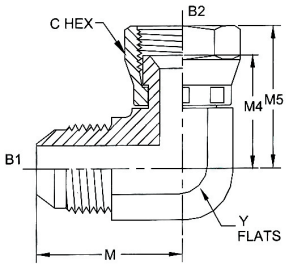
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B1 DRILL	N LGTH	L LGTH	Y FLATS
5701-04-04-FG	1/4	7/16-20	1/4-18	0.172	1.051	1.506	0.562
5701-06-04-FG	3/8	9/16-18	1/4-18	0.297	1.08	1.72	0.687
5701-06-06-FG	3/8	9/16-18	3/8-18	0.297	1.14	1.66	0.750
5701-08-06-FG	1/2	3/4-16	3/8-18	0.391	1.250	1.660	0.750
5701-08-08-FG	1/2	3/4-16	1/2-14	0.391	1.330	2.150	0.750
5701-10-08-FG	5/8	7/8-14	1/2-14	0.484	1.450	1.960	0.875
5701-12-12-FG	3/4	1 1/16-12	3/4-14	0.609	1.670	2.327	1.062

5702-FG FP-MPS 90 DEG ELBOW



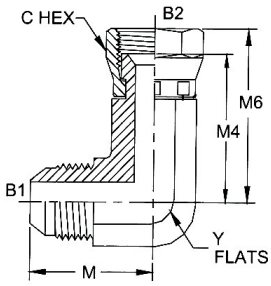
PART NO.	A1 NPTF	A2 NPTF	N LGTH	N1 LGTH	Y FLATS
5702-04-04-FG	1/4-18	1/4-18	0.88	1.56	0.750
5702-06-06-FG	3/8-18	3/8-18	1.02	1.70	0.875
5702-08-08-FG	1/2-14	1/2-14	1.23	2.01	1.062
5702-12-12-FG	3/4-14	3/4-14	1.37	2.25	1.375

6500-FG MJ-FJS 90 DEG ELBOW



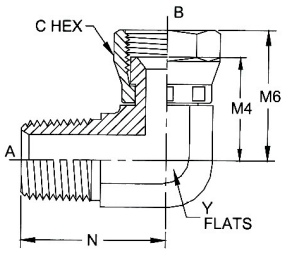
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M LGTH	M4 LGTH	M6 LGTH	C HEX	Y FLATS
6500-02-02-FG	1/8	5/16-24	5/16-24	0.062	0.062	0.770	0.660	0.970	0.438	0.438
6500-03-03-FG	3/16	3/8-24	3/8-24	0.125	0.125	0.830	0.670	1.000	0.500	0.438
6500-04-04-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.89	0.65	1.00	0.563	0.438
6500-04-06-FG	1/4	7/16-20	9/16-18	0.172	0.297	1.05	0.87	1.25	0.688	0.562
6500-05-05-FG	5/16	1/2-20	1/2-20	0.234	0.234	0.950	0.678	1.060	0.625	0.562
6500-05-06-FG	5/16	1/2-20	9/16-18	0.234	0.297	0.950	0.870	1.250	0.688	0.562
6500-06-04-FG	3/8	9/16-18	7/16-20	0.297	0.172	1.060	0.900	1.240	0.563	0.562
6500-06-06-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.06	0.87	1.25	0.688	0.562
6500-06-08-FG	3/8	9/16-18	3/4-16	0.297	0.391	1.140	0.950	1.380	0.875	0.750
6500-08-06-FG	1/2	3/4-16	9/16-18	0.391	0.297	1.250	0.910	1.280	0.688	0.750
6500-08-08-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.25	0.95	1.38	0.875	0.750
6500-08-10-FG	1/2	3/4-16	7/8-14	0.391	0.484	1.33	1.12	1.62	1.000	0.875
6500-08-12-FG	1/2	3/4-16	1-1/16-12	0.391	0.609	1.420	1.180	1.750	1.250	1.062
6500-10-08-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.450	1.090	1.510	0.875	0.875
6500-10-10-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.450	1.120	1.620	1.000	0.875
6500-10-12-FG	5/8	7/8-14	1-1/16-12	0.484	0.609	1.540	1.180	1.750	1.250	1.062
6500-12-08-FG	3/4	1-1/16-12	3/4-16	0.609	0.391	1.660	1.120	1.550	0.875	1.062
6500-12-10-FG	3/4	1-1/16-12	7/8-14	0.609	0.484	1.66	1.16	1.66	1.000	1.062
6500-12-12-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.66	1.18	1.75	1.250	1.062
6500-12-16-FG	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.81	1.40	2.00	1.500	1.312
6500-14-14-FG	7/8	1-3/16-12	1-3/16-12	0.719	0.719	1.800	1.200	1.780	1.375	1.312
6500-16-12-FG	1	1-5/16-12	1-1/16-12	0.844	0.609	1.81	1.34	1.91	1.250	1.312
6500-16-16-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.81	1.40	2.00	1.500	1.312
6500-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.060	1.670	2.310	2.000	1.625
6500-24-24-FG	1 1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.330	1.870	2.590	2.250	1.875
6500-32-32-FG	2	2-1/2-12	2-1/2-12	1.781	1.781	3.06	2.43	3.38	2.875	2.500

6500-L-FG MJ-FJS 90 DEG ELBOW LONG



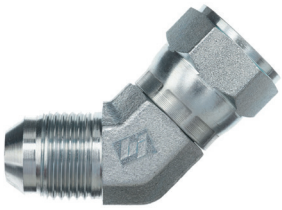
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M LGTH	M4 LGTH	M6 LGTH	C HEX	Y FLATS
6500-L-04-04-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.89	1.81	2.16	0.562	0.438
6500-L-06-06-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.06	2.16	2.54	0.688	0.562
6500-L-08-08-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.25	2.38	2.81	0.875	0.750
6500-L-10-10-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.45	2.57	3.07	1.000	0.875
6500-L-12-12-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.66	3.73	4.30	1.250	1.062
6500-L-16-16-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.81	4.40	5.00	1.500	1.312

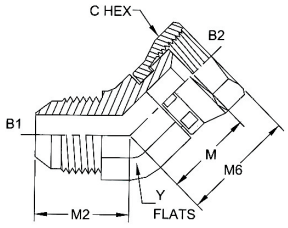
6501-FG MP-FJS 90 DEG ELBOW



PART NO.	TUBE O.D.	A NPTF	B SAE 37Deg	A DRILL	B DRILL	M4 LGTH	M6 LGTH	N LGTH	C HEX	Y FLATS
6501-02-04-FG	1/4	1/8-27	7/16-20	0.188	0.172	0.660	1.000	0.780	0.562	0.438
6501-02-05-FG	5/16	1/8-27	1/2-20	0.188	0.234	0.678	1.060	0.900	0.625	0.562
6501-04-04-FG	1/4	1/4-18	7/16-20	0.281	0.172	0.800	1.144	1.090	0.562	0.562
6501-04-05-FG	5/16	1/4-18	1/2-20	0.281	0.234	0.690	1.060	1.090	0.625	0.562
6501-04-06-FG	3/8	1/4-18	9/16-18	0.281	0.297	0.875	1.250	1.090	0.688	0.562
6501-06-04-FG	1/4	3/8-18	7/16-20	0.406	0.172	0.830	1.170	1.220	0.562	0.750
6501-06-06-FG	3/8	3/8-18	9/16-18	0.406	0.297	0.90	1.28	1.22	0.688	0.750
6501-06-08-FG	1/2	3/8-18	3/4-16	0.406	0.391	0.958	1.380	1.220	0.875	0.750
6501-08-06-FG	3/8	1/2-14	9/16-18	0.531	0.297	1.045	1.420	1.470	0.688	0.875
6501-08-08-FG	1/2	1/2-14	3/4-16	0.531	0.391	1.09	1.52	1.47	0.875	0.875
6501-08-10-FG	5/8	1/2-14	7/8-14	0.531	0.484	1.12	1.62	1.47	1.000	0.875
6501-08-12-FG	1/2	1/2-14	1-1/16-12	0.531	0.609	1.180	1.750	1.590	1.250	1.062
6501-12-08-FG	3/4	3/4-14	3/4-16	0.719	0.391	1.120	1.612	1.590	0.875	1.062
6501-12-12-FG	3/4	3/4-14	1-1/16-12	0.719	0.609	1.180	1.750	1.590	1.250	1.062
6501-12-14-FG	7/8	3/4-14	1-3/16-12	0.719	0.719	1.31	1.89	1.69	1.375	1.312
6501-16-16-FG	1	1-11-1/2	1-5/16-12	0.938	0.844	1.410	2.010	1.970	1.500	1.312
6501-20-20-FG	1-1/4	1-1/4-11-1/2	1-5/8-12	1.250	1.078	1.670	2.310	2.380	2.000	1.625
6501-24-24-FG	1-1/2	1-1/2-11-1/2	1-7/8-12	1.500	1.312	1.856	2.590	2.640	2.250	1.875
6501-32-32-FG	2	2-11-1/2	2-1/2-12	1.938	1.781	2.440	3.380	3.000	2.875	2.500

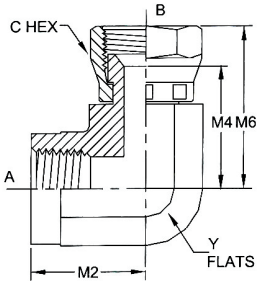
6502-FG MJ-FJS 45 DEG ELBOW





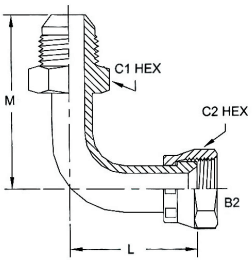
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M2 LGTH	M LGTH	M6 LGTH	C HEX	Y FLATS
6502-02-02-FG	1/8	5/16-24	5/16-24	0.062	0.062	0.690	0.630	0.940	0.438	0.438
6502-03-03-FG	3/16	3/8-24	3/8-24	0.125	0.125	0.690	0.605	0.940	0.438	0.438
6502-04-04-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.72	0.59	0.94	0.563	0.438
6502-05-05-FG	5/16	1/2-20	1/2-20	0.234	0.234	0.770	0.620	1.000	0.625	0.562
6502-06-06-FG	3/8	9/16-18	9/16-18	0.297	0.297	0.83	0.75	1.12	0.688	0.562
6502-08-08-FG	1/2	3/4-16	3/4-16	0.391	0.391	0.98	0.85	1.28	0.875	0.750
6502-10-08-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.11	0.91	1.33	0.875	0.875
6502-10-10-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.11	0.94	1.44	1.000	0.875
6502-12-12-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.280	0.931	1.500	1.250	1.062
6502-14-14-FG	7/8	1-3/16-12	1-3/16-12	0.719	0.719	1.45	1.04	1.62	1.375	1.312
6502-16-12-FG	1	1-5/16-12	1-1/16-12	0.844	0.609	1.47	1.14	1.70	1.250	1.312
6502-16-16-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.47	1.15	1.75	1.500	1.312
6502-20-20-FG	1 1/4	1-5/8-12	1-5/8-12	1.078	1.078	1.59	1.405	2.03	2.000	1.625
6502-24-24-FG	1 1/2	1-7/8-12	1-7/8-12	1.312	1.312	1.78	1.53	2.25	2.250	1.875
6502-32-32-FG	2	2-1/2-12	2-1/2-12	1.781	1.781	2.220	1.960	2.910	2.875	2.500

6503-FG FP-FJS 90 DEG ELBOW



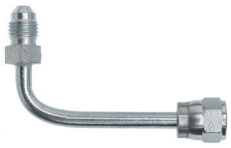
PART NO.	TUBE O.D.	A NPTF	B SAE 37Deg	B DRILL	M2 LGTH	M4 LGTH	M6 LGTH	C HEX	Y FLATS
6503-02-04-FG	1/4	1/8-27	7/16/20	0.172	0.660	0.800	1.140	0.562	0.562
6503-04-04-FG	1/4	1/4-18	7/16-20	0.172	0.88	0.83	1.18	0.563	0.750
6503-04-06-FG	3/8	1/4-18	9/16-18	0.297	0.88	0.91	1.29	0.688	0.750
6503-06-06-FG	3/8	3/8-18	9/16-18	0.297	1.020	1.040	1.380	0.688	0.875
6503-06-08-FG	1/2	3/8-18	3/4-16	0.391	1.02	1.09	1.51	0.875	0.875
6503-08-08-FG	1/2	1/2-14	3/4-16	0.391	1.23	1.12	1.55	0.875	1.062
6503-08-10-FG	5/8	1/2-14	7/8-14	0.484	1.23	1.16	1.66	1.000	1.062
6503-12-12-FG	3/4	3/4-14	1-1/16-12	0.609	1.360	1.300	1.860	1.250	1.312
6503-04-05-FG	5/16	1/4-18	1/2-20	0.234	0.88	0.87	1.25	0.625	0.750

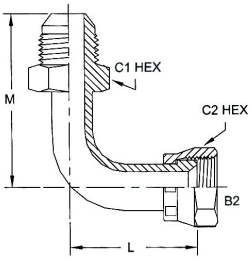
6701 MJ-FJS SWEPT 90 DEG ELBOW



PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	M LGTH	L LGTH	C1 HEX	C2 HEX	
6701-04-04	1/4	7/16-20	7/16-20	1.25	1.09	0.500	0.563	Steel
6701-06-06	3/8	9/16-18	9/16-18	1.35	1.22	0.625	0.688	Steel
6701-08-08	1/2	3/4-16	3/4-16	1.77	1.52	0.812	0.875	Steel
6701-10-10	5/8	7/8-14	7/8-14	1.94	1.80	0.937	1.000	Steel
6701-12-12	3/4	1 1/16-12	1 1/16-12	2.50	2.40	1.125	1.250	Steel
6701-16-16	1	1 5/16-12	1 5/16-12	3.10	3.15	1.375	1.500	Steel
6701-20-20	1 1/4	1-5/8-12	1-5/8-12	2.750	3.750	1.693	2.000	Steel
6701-32-32	2	2-1/2-12	2-1/2-12	5.790	4.840	2.750	2.875	Steel

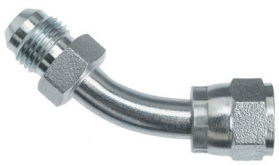
6701-L MJ-FJS SWEPT 90 LONG

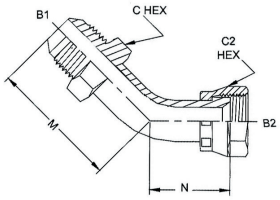




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	L LGTH	M LGTH	C1 HEX	C2 HEX	
6701-L-04-04	1/4	7/16-20	7/16-20	2.730	1.580	0.500	0.563	Steel
6701-L-06-06	3/8	9/16-18	9/16-18	2.420	1.500	0.625	0.688	Steel
6701-L-08-08	1/2	3/4-16	3/4-16	2.900	1.825	0.812	0.875	Steel
6701-L-10-10	5/8	7/8-14	7/8-14	3.070	2.160	0.937	1.000	Steel
6701-L-12-12	3/4	1 1/16-12	1 1/16-12	4.220	2.800	1.125	1.250	Steel
6701-L-16-16	1	1 5/16-12	1 5/16-12	4.870	3.125	1.375	1.500	Steel
6701-L-20-20	1 1/4	1-5/8-12	1-5/8-12	5.000	3.500	1.692	2.000	Steel

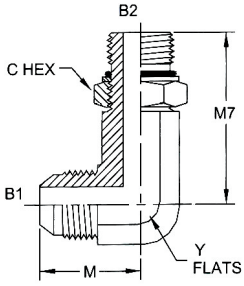
6702 MJ-FJS SWEPT 45 DEG ELBOW





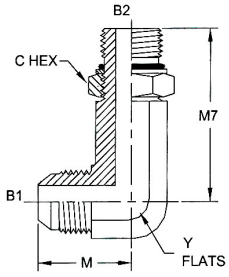
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	M LGTH	N LGTH	C HEX	C2 HEX	
6702-04-04	1/4	7/16-20	7/16-20	1.102	0.984	0.500	0.563	Steel
6702-06-06	3/8	9/16-18	9/16-18	1.378	1.063	0.625	0.688	Steel
6702-08-08	1/2	3/4-16	3/4-16	1.575	1.181	0.812	0.875	Steel
6702-10-10	5/8	7/8-14	7/8-14	1.614	1.417	0.937	1.000	Steel
6702-12-12	3/4	1 1/16-12	1 1/16-12	2.205	1.732	1.125	1.250	Steel
6702-16-16	1	1 5/16-12	1 5/16-12	2.480	2.087	1.375	1.500	Steel

6801-L-NWO-FG MJ-MAORB 90 DEG ELBOW LONG



PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M LGTH	M7 LGTH	C HEX	Y FLATS
6801-L-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.89	1.54	0.563	0.438
6801-L-04-06-NWO-FG	1/4	7/16-20	9/16-18	0.172	0.297	1.050	1.660	0.688	0.562
6801-L-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.06	1.66	0.688	0.562
6801-L-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	0.391	1.14	1.97	0.875	0.750
6801-L-08-06-NWO-FG	1/2	3/4-16	9/16-18	0.391	0.297	1.25	1.84	0.688	0.750
6801-L-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.25	1.97	0.875	0.750
6801-L-08-10-NWO-FG	1/2	3/4-16	7/8-14	0.391	0.484	1.33	2.26	1.000	0.875
6801-L-10-08-NWO-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.450	2.100	0.875	0.875
6801-L-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.45	2.26	1.000	0.875
6801-L-10-12-NWO-FG	5/8	7/8-14	1-1/16-12	0.484	0.609	1.54	2.62	1.250	1.062
6801-L-12-10-NWO-FG	3/4	1-1/16-12	7/8-14	0.609	0.484	1.660	2.460	1.000	1.062
6801-L-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.66	2.62	1.250	1.062
6801-L-16-12-NWO-FG	1	1-5/16-12	1-1/16-12	0.844	0.609	1.810	3.010	1.250	1.312
6801-L-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.810	3.060	1.500	1.312
6801-L-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.06	3.48	1.875	1.625

6801-LL-NWO-FG MJ- MAORB 90 DEG ELBOW X-LONG



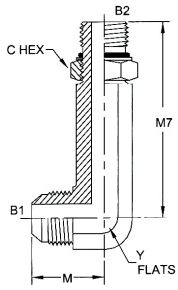
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M LGTH	M7 LGTH	C HEX	Y FLATS
6801-LL-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.890	1.730	0.563	0.438
6801-LL-04-06-NWO-FG	1/4	7/16-20	9/16-18	0.172	0.297	1.050	2.080	0.688	0.562
6801-LL-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.06	2.08	0.688	0.562
6801-LL-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	0.391	1.14	2.48	0.875	0.750
6801-LL-08-06-NWO-FG	1/2	3/4-16	9/16-18	0.391	0.297	1.250	2.350	0.688	0.750
6801-LL-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.250	2.480	0.875	0.750
6801-LL-08-10-NWO-FG	1/2	3/4-16	7/8-14	0.391	0.484	1.33	2.89	1.000	0.875
6801-LL-10-08-NWO-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.45	2.73	0.875	0.875
6801-LL-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.450	2.890	1.000	0.875
6801-LL-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.660	3.340	1.250	1.062

Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M LGTH	M7 LGTH	C HEX	Y FLATS
6801-LL-12-16-NWO-FG	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.760	3.720	1.500	1.312
6801-LL-16-12-NWO-FG	1	1-5/16-12	1-1/16-12	0.844	0.609	1.810	3.720	1.250	1.312
6801-LL-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.81	3.72	1.500	1.312
6801-LL-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.060	4.410	1.875	1.625

6801-LLL-NWO-FG

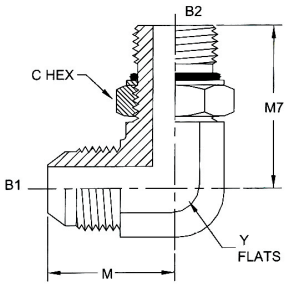
MJ-MAORB 90 DEG ELBOW XX-LONG



PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 MAORB	B1 DRILL	B2 DRILL	M LGTH	M7 LGTH	C HEX	Y FLATS
6801-LLL-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.89	2.44	0.563	0.438
6801-LLL-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.060	2.910	0.688	0.562
6801-LLL-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	0.391	1.140	3.530	0.875	0.750
6801-LLL-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.250	3.530	0.875	0.750
6801-LLL-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.81	5.39	1.500	1.312

6801-NWO-FG

MJ-MAORB 90 DEG ELBOW



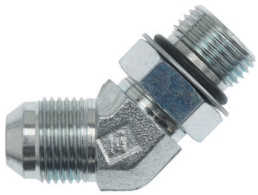
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M LGTH	M7 LGTH	C HEX	Y FLATS
6801-02-02-NWO-FG	1/8	5/16-24	5/16-24	0.062	0.062	0.77	0.94	0.438	0.438
6801-02-04-NWO-FG	1/8	5/16-24	7/16-20	0.062	0.172	0.780	1.030	0.563	0.438
6801-03-03-NWO-FG	3/16	3/8-24	3/8-24	0.125	0.125	0.830	0.940	0.500	0.438
6801-03-04-NWO-FG	3/16	3/8-24	7/16-20	0.125	0.172	0.810	1.030	0.563	0.438
6801-04-02-NWO-FG	1/4	7/16-20	5/16-24	0.172	0.062	0.89	0.92	0.438	0.438
6801-04-03-NWO-FG	1/4	7/16-20	3/8-24	0.172	0.125	0.890	1.020	0.500	0.438
6801-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.89	1.03	0.563	0.438
6801-04-05-NWO-FG	1/4	7/16-20	1/2-20	0.172	0.234	0.95	1.13	0.625	0.562
6801-04-06-NWO-FG	1/4	7/16-20	9/16-18	0.172	0.297	1.05	1.25	0.688	0.562
6801-04-08-NWO-FG	1/4	7/16-20	3/4-16	0.172	0.391	1.12	1.45	0.875	0.750
6801-05-04-NWO-FG	5/16	1/2-20	7/16-20	0.234	0.172	0.950	1.130	0.563	0.562
6801-05-05-NWO-FG	5/16	1/2-20	1/2-20	0.234	0.234	0.95	1.13	0.625	0.562
6801-05-06-NWO-FG	5/16	1/2-20	9/16-18	0.234	0.297	1.050	1.250	0.688	0.562
6801-05-08-NWO-FG	5/16	1/2-20	3/4-16	0.234	0.391	1.120	1.450	0.875	0.750
6801-05-10-NWO-FG	5/16	1/2-20	7/8-14	0.234	0.484	1.21	1.70	1.000	0.875
6801-06-02-NWO-FG	3/8	9/16-18	5/16-24	0.297	0.062	1.06	1.08	0.438	0.562
6801-06-04-NWO-FG	3/8	9/16-18	7/16-20	0.297	0.172	1.06	1.19	0.563	0.562
6801-06-05-NWO-FG	3/8	9/16-18	1/2-20	0.297	0.234	1.06	1.19	0.625	0.562
6801-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.06	1.25	0.688	0.562
6801-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	0.391	1.14	1.45	0.875	0.750
6801-06-10-NWO-FG	3/8	9/16-18	7/8-14	0.297	0.484	1.22	1.70	1.000	0.875
6801-06-12-NWO-FG	3/8	9/16-18	1-1/16-12	0.297	0.609	1.31	1.94	1.250	1.062
6801-08-04-NWO-FG	1/2	3/4-16	7/16-20	0.391	0.172	1.25	1.26	0.563	0.750
6801-08-05-NWO-FG	1/2	3/4-16	1/2-20	0.391	0.234	1.25	1.26	0.625	0.750
6801-08-06-NWO-FG	1/2	3/4-16	9/16-18	0.391	0.297	1.25	1.32	0.688	0.750
6801-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.25	1.45	0.875	0.750
6801-08-10-NWO-FG	1/2	3/4-16	7/8-14	0.391	0.484	1.33	1.70	1.000	0.875
6801-08-12-NWO-FG	1/2	3/4-16	1-1/16-12	0.391	0.609	1.42	1.94	1.250	1.062

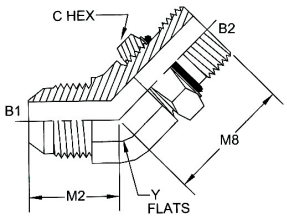
Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M LGTH	M7 LGTH	C HEX	Y FLATS
6801-08-16-NWO-FG	1/2	3/4-16	1-5/16-12	0.391	0.844	1.52	2.05	1.500	1.312
6801-10-06-NWO-FG	5/8	7/8-14	9/16-18	0.484	0.297	1.45	1.41	0.688	0.875
6801-10-08-NWO-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.45	1.54	0.875	0.875
6801-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.45	1.70	1.000	0.875
6801-10-12-NWO-FG	5/8	7/8-14	1-1/16-12	0.484	0.609	1.54	1.94	1.250	1.062
6801-10-14-NWO-FG	5/8	7/8-14	1-3/16-12	0.484	0.719	1.65	2.00	1.375	1.312
6801-10-16-NWO-FG	5/8	7/8-14	1-5/16-12	0.484	0.844	1.640	2.050	1.500	1.312
6801-10-20-NWO-FG	5/8	7/8-14	1-5/8-12	0.484	1.078	1.84	2.25	1.875	1.625
6801-12-06-NWO-FG	3/4	1-1/16-12	9/16-18	0.609	0.297	1.660	1.490	0.688	1.062
6801-12-08-NWO-FG	3/4	1-1/16-12	3/4-16	0.609	0.391	1.660	1.620	0.875	1.062
6801-12-10-NWO-FG	3/4	1-1/16-12	7/8-14	0.609	0.484	1.66	1.78	1.000	1.062
6801-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.66	1.94	1.250	1.062
6801-12-14-NWO-FG	3/4	1-1/16-12	1-3/16-12	0.609	0.719	1.77	2.00	1.375	1.312
6801-12-16-NWO-FG	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.76	2.05	1.500	1.312
6801-12-20-NWO-FG	3/4	1-1/16-12	1-5/8-12	0.609	1.078	1.97	2.25	1.875	1.625
6801-14-12-NWO-FG	7/8	1-3/16-12	1-1/16-12	0.719	0.609	1.80	2.00	1.250	1.312
6801-14-14-NWO-FG	7/8	1-3/16-12	1-3/16-12	0.719	0.719	1.80	2.00	1.375	1.312
6801-14-16-NWO-FG	7/8	1-3/16-12	1-5/16-12	0.719	0.844	1.79	2.05	1.500	1.312
6801-16-08-NWO-FG	1	1-5/16-12	3/4-16	0.844	0.391	1.81	1.73	0.875	1.312
6801-16-10-NWO-FG	1	1-5/16-12	7/8-14	0.844	0.484	1.810	1.890	1.000	1.312
6801-16-12-NWO-FG	1	1-5/16-12	1-1/16-12	0.844	0.609	1.81	2.05	1.250	1.312
6801-16-14-NWO-FG	1	1-5/16-12	1-3/16-12	0.844	0.719	1.810	2.050	1.375	1.312
6801-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.81	2.05	1.500	1.312
6801-16-20-NWO-FG	1	1-5/16-12	1-5/8-12	0.844	1.078	2.010	2.250	1.875	1.625
6801-16-24-NWO-FG	1	1-5/16-12	1-7/8-12	0.844	1.312	2.16	2.39	2.125	1.875
6801-20-12-NWO-FG	1-1/4	1-5/8-12	1-1/16-12	1.078	0.609	2.06	2.25	1.250	1.625
6801-20-14-NWO-FG	1-1/4	1-5/8-12	1-3/16-12	1.078	0.719	2.06	2.25	1.375	1.625
6801-20-16-NWO-FG	1-1/4	1-5/8-12	1-5/16-12	1.078	0.844	2.06	2.25	1.500	1.625
6801-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.060	2.250	1.875	1.625
6801-20-24-NWO-FG	1-1/4	1-5/8-12	1-7/8-12	1.078	1.312	2.20	2.39	2.125	1.875
6801-24-16-NWO-FG	1-1/2	1-7/8-12	1-5/16-12	1.312	0.844	2.33	2.39	1.500	1.875
6801-24-20-NWO-FG	1-1/2	1-7/8-12	1-5/8-12	1.312	1.078	2.330	2.390	1.875	1.875
6801-24-24-NWO-FG	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.33	2.39	2.125	1.875
6801-24-32-NWO-FG	2	1-7/8-12	2-1/2-12	1.312	1.781	2.810	2.890	2.750	2.500
6801-32-24-NWO-FG	2	2-1/2-12	1-7/8-12	1.781	1.312	3.060	2.890	2.125	2.500
6801-32-32-NWO-FG	2	2-1/2-12	2-1/2-12	1.781	1.781	3.06	2.89	2.750	2.500

6802-NWO-FG

MJ-MAORB 45 DEG ELBOW





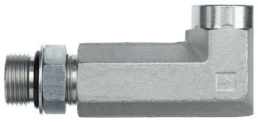
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M2 LGTH	M8 LGTH	C HEX	Y FLATS
6802-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	0.72	1.05	0.563	0.438
6802-04-05-NWO-FG	1/4	7/16-20	1/2-20	0.172	0.234	0.770	1.050	0.625	0.562
6802-04-06-NWO-FG	1/4	7/16-20	9/16-18	0.172	0.297	0.820	1.140	0.688	0.562
6802-04-08-NWO-FG	1/4	7/16-20	3/4-16	0.172	0.391	0.85	1.30	0.875	0.750
6802-05-04-NWO-FG	5/16	1/2-20	7/16-20	0.234	0.172	0.770	1.050	0.562	0.562
6802-05-05-NWO-FG	5/16	1/2-20	1/2-20	0.234	0.234	0.770	1.050	0.625	0.562
6802-05-06-NWO-FG	5/16	1/2-20	9/16-18	0.234	0.297	0.820	1.140	0.688	0.562
6802-06-04-NWO-FG	3/8	9/16-18	7/16-20	0.297	0.172	0.830	1.080	0.563	0.562
6802-06-05-NWO-FG	3/8	9/16-18	1/2-20	0.297	0.234	0.83	1.14	0.625	0.562
6802-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	0.83	1.14	0.688	0.562
6802-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	0.391	0.87	1.30	0.875	0.750
6802-06-10-NWO-FG	3/8	9/16-18	7/8-14	0.297	0.484	0.880	1.520	1.000	0.875
6802-06-12-NWO-FG	3/8	9/16-18	1-1/16-12	0.297	0.609	0.930	1.730	1.250	1.062
6802-08-04-NWO-FG	1/2	3/4-16	7/16-20	0.391	0.172	0.98	1.11	0.563	0.750
6802-08-06-NWO-FG	1/2	3/4-16	9/16-18	0.391	0.297	0.980	1.170	0.688	0.750
6802-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	0.98	1.30	0.875	0.750

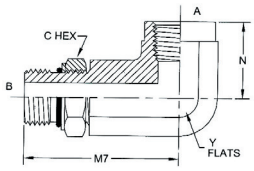
Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B1 DRILL	B2 DRILL	M2 LGTH	M8 LGTH	C HEX	Y FLATS
6802-08-10-NWO-FG	1/2	3/4-16	7/8-14	0.391	0.484	0.99	1.52	1.000	0.875
6802-08-12-NWO-FG	1/2	3/4-16	1-1/16-12	0.391	0.609	1.04	1.73	1.250	1.062
6802-10-08-NWO-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.110	1.360	0.875	0.875
6802-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.11	1.52	1.000	0.875
6802-10-12-NWO-FG	5/8	7/8-14	1-1/16-12	0.484	0.609	1.16	1.73	1.250	1.062
6802-12-08-NWO-FG	3/4	1-1/16-12	3/4-16	0.609	0.391	1.280	1.410	0.875	1.062
6802-12-10-NWO-FG	3/4	1-1/16-12	7/8-14	0.609	0.484	1.28	1.57	1.000	1.062
6802-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.28	1.73	1.250	1.062
6802-12-14-NWO-FG	3/4	1-1/16-12	1-3/16-12	0.609	0.719	1.420	1.860	1.375	1.312
6802-12-16-NWO-FG	3/4	1-1/16-12	1-5/16-12	0.609	0.844	1.42	1.86	1.500	1.312
6802-14-14-NWO-FG	5/8	1-3/16-12	1-3/16-12	0.719	0.719	1.450	1.860	1.375	1.312
6802-16-12-NWO-FG	1	1-5/16-12	1-1/16-12	0.844	0.609	1.470	1.860	1.250	1.312
6802-16-14-NWO-FG	1	1-5/16-12	1-3/16-12	0.844	0.719	1.470	1.860	1.375	1.312
6802-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.470	1.860	1.500	1.312
6802-16-20-NWO-FG	1	1 5/16-12	1 5/8-12	0.844	1.078	1.54	1.91	1.875	1.625
6802-20-16-NWO-FG	1-1/4	1-5/8-12	1-5/16-12	1.078	0.844	1.590	1.910	1.500	1.625
6802-20-20-NWO-FG	1 1/4	1 5/8-12	1 5/8-12	1.078	1.078	1.59	1.91	1.875	1.625
6802-20-24-NWO-FG	1 1/4	1 5/8-12	1 7/8-12	1.078	1.312	1.650	1.910	2.125	1.875
6802-24-20-NWO-FG	1 1/2	1 7/8-12	1 5/8-12	1.312	1.078	1.78	1.91	1.875	1.875
6802-24-24-NWO-FG	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	1.780	1.910	2.125	1.875
6802-32-32-NWO-FG	2	2 1/2-12	2 1/2-12	1.781	1.781	2.220	1.860	2.750	2.500
6802-02-02-NWO-FG	1/8	5/16-24	5/16-24	0.062	0.062	0.69	0.88	0.438	0.438
6802-03-03-NWO-FG	3/8	3/8-24	3/8-24	0.125	0.125	0.690	0.880	0.500	0.438

6805-L-NWO-FG

MAORB-FP 90 DEG ELBOW LONG

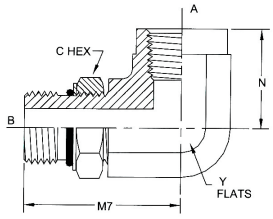




PART NO.	TUBE O.D.	B SAE ORB	A NPTF	B DRILL	M7 LGTH	N LGTH	C HEX	Y FLATS
6805-L-08-06-NWO-FG	1/2	3/4-16	3/8-18	0.391	2.93	1.02	0.875	0.875
6805-L-10-08-NWO-FG	5/8	7/8-14	1/2-14	0.484	3.530	1.230	1.000	1.062
6805-L-12-12-NWO-FG	3/4	1-1/16-12	3/4-14	0.609	4.05	1.36	1.250	1.312
6805-L-16-16-NWO-FG	1	1-5/16-12	1-11-1/2	0.844	4.62	1.62	1.500	1.625

6805-NWO-FG

MAORB-FP 90 DEG ELBOW



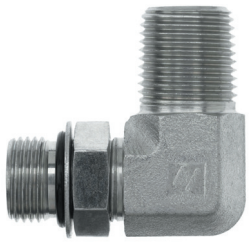
PART NO.	TUBE O.D.	B SAE ORB	A NPTF	B DRILL	M7 LGTH	N LGTH	C HEX	Y FLATS
6805-04-02-NWO-FG	1/4	7/16-20	1/8-27	0.172	1.190	0.660	0.563	0.562
6805-04-04-NWO-FG	1/4	7/16-20	1/4-18	0.172	1.24	0.88	0.563	0.750
6805-05-02-NWO-FG	5/16	1/2-20	1/8-27	0.234	1.190	0.660	0.625	0.562
6805-06-04-NWO-FG	3/8	9/16-18	1/4-18	0.297	1.320	0.880	0.688	0.750
6805-06-06-NWO-FG	3/8	9/16-18	3/8-18	0.297	1.41	1.02	0.688	0.875
6805-08-06-NWO-FG	1/2	3/4-16	3/8-18	0.391	1.540	1.020	0.875	0.875
6805-08-08-NWO-FG	1/2	3/4-16	1/2-14	0.391	1.620	1.230	0.875	1.062
6805-10-06-NWO-FG	5/8	7/8-14	3/8-18	0.484	1.700	1.020	1.000	0.875
6805-10-08-NWO-FG	5/8	7/8-14	1/2-14	0.484	1.780	1.230	1.000	1.062
6805-12-08-NWO-FG	3/4	1-1/16-12	1/2-14	0.609	1.94	1.23	1.250	1.062
6805-12-12-NWO-FG	3/4	1-1/16-12	3/4-14	0.609	2.050	1.100	1.250	1.312
6805-12-16-NWO-FG	3/4	1-1/16-12	1-11-1/2	0.609	2.25	1.62	1.250	1.625
6805-14-12-NWO-FG	7/8	1-3/16-12	3/4-14	0.719	2.050	1.360	1.375	1.312
6805-16-12-NWO-FG	1	1-5/16-12	3/4-14	0.844	2.050	1.360	1.500	1.312
6805-16-16-NWO-FG	1	1-5/16-12	1-11-1/2	0.844	2.25	1.62	1.500	1.625
6805-20-20-NWO-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	2.390	1.700	1.875	1.875

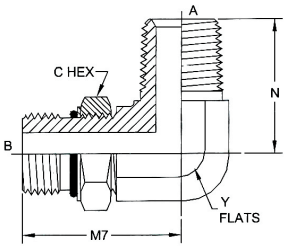
Continued...

PART NO.	TUBE O.D.	B SAE ORB	A NPTF	B DRILL	M7 LGTH	N LGTH	C HEX	Y FLATS
6805-24-20-NWO-FG	1-1/2	1-7/8-12	1-1/4-11-1/2	1.312	2.390	1.700	2.125	1.875
6805-24-24-NWO-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1.312	2.890	2.080	2.125	2.562
6805-32-32-NWO-FG	2	2-1/2-12	2-11-1/2	1.781	3.020	2.390	2.750	2.812

6806-NWO-FG

MAORB-MP 90 DEG ELBOW

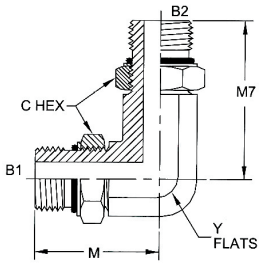




PART NO.	TUBE O.D.	B SAE ORB	A NPTF	B DRILL	A DRILL	M7 LGTH	N LGTH	C HEX	Y FLATS
6806-04-02-NWO-FG	1/4	7/16-20	1/8-27	0.172	0.188	1.030	0.780	0.563	0.562
6806-04-04-NWO-FG	1/4	7/16-20	1/4-18	0.172	0.281	1.190	1.090	0.562	0.562
6806-05-02-NWO-FG	5/16	1/2-20	1/8-27	0.234	0.188	1.130	0.780	0.625	0.562
6806-06-04-NWO-FG	3/8	9/16-18	1/4-18	0.297	0.281	1.250	1.090	0.688	0.562
6806-06-06-NWO-FG	3/8	9/16-18	3/8-18	0.297	0.406	1.320	1.220	0.688	0.750
6806-08-06-NWO-FG	1/2	3/4-16	3/8-18	0.391	0.406	1.450	1.220	0.875	0.750
6806-08-08-NWO-FG	1/2	3/4-16	1/2-14	0.391	0.531	1.540	1.470	0.875	0.875
6806-10-08-NWO-FG	5/8	7/8-14	1/2-14	0.484	0.531	1.700	1.470	1.000	0.875
6806-12-12-NWO-FG	3/4	1-1/16-12	3/4-14	0.609	0.719	1.940	1.590	1.250	1.062
6806-12-16-NWO-FG	3/4	1-1/16-12	1-11-1/2	0.609	0.938	2.050	1.970	1.250	1.312
6806-14-12-NWO-FG	7/8	1-3/16-12	3/4-14	0.719	0.719	2.00	1.69	1.375	1.312
6806-16-12-NWO-FG	1	1-5/16-12	3/4-14	0.844	0.719	2.050	1.780	1.500	1.312
6806-16-16-NWO-FG	1	1-5/16-12	1-11-1/2	0.844	0.938	2.050	1.970	1.500	1.312
6806-20-20-NWO-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.250	2.250	2.380	1.875	1.625
6806-20-24-NWO-FG	1-1/4	1-5/8-12	1-1/2-11-1/2	1.078	1.500	2.39	2.64	1.875	1.875
6806-24-24-NWO-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.500	2.390	2.640	2.125	1.875
6806-32-32-NWO-FG	2	2-1/2-12	2-11-1/2	1.781	1.938	2.890	3.000	2.750	2.500

6807-LL-NWO-FG

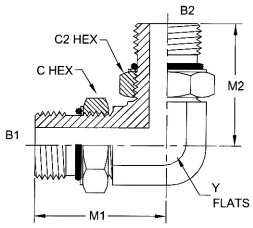
MAORB-MAORB 90 DEG ELBOW



PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	B2 DRILL	M LGTH	M2 LGTH	C HEX	Y FLATS
6807-LL-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.25	2.08	0.688	0.562

6807-NWO-FG

MAORB-MAORB 90 DEG ELBOW



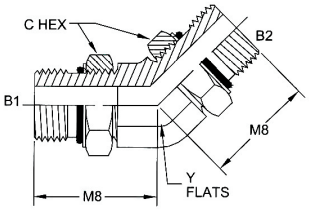
PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	B2 DRILL	M1 LGTH	M2 LGTH	C HEX	C2 HEX	Y FLATS
6807-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	1.030	1.030	0.563	0.563	0.438
6807-06-04-NWO-FG	3/8	9/16-18	7/16-20	0.297	0.172	1.250	1.190	0.688	0.562	0.562
6807-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.250	1.250	0.688	0.688	0.562
6807-08-06-NWO-FG	1/2	3/4-16	9/16-18	0.391	0.297	1.450	1.340	0.875	0.688	0.750
6807-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.450	1.450	0.875	0.875	0.750
6807-10-08-NWO-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.700	1.540	1.000	0.875	0.875
6807-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.700	1.700	1.000	1.000	0.875
6807-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.940	1.940	1.250	1.250	1.062

Continued...

PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	B2 DRILL	M1 LGTH	M2 LGTH	C HEX	C2 HEX	Y FLATS
6807-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	2.050	2.050	1.500	1.500	1.312
6807-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.250	2.250	1.875	1.875	1.625
6807-24-24-NWO-FG	1-1/2	1-7/8-12	1-7/8-12	1.312	1.312	2.390	2.390	2.125	2.125	1.875
6807-32-32-NWO-FG	2	2-1/2-12	2-1/2-12	1.781	1.781	2.890	2.890	2.750	2.750	2.500

6808-NWO-FG

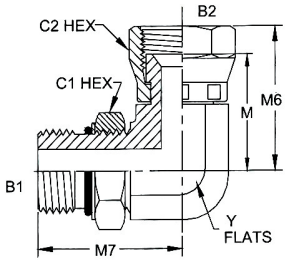
MAORB-MAORB 45 DEG ELBOW



PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	B2 DRILL	M1 LGTH	M2 LGTH	C HEX	Y FLATS
6808-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	1.05	1.05	0.563	0.438
6808-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.140	1.140	0.688	0.562
6808-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.300	1.300	0.875	0.750
6808-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.730	1.730	1.250	1.062
6808-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	1.86	1.86	1.500	1.312

6809-NWO-FG

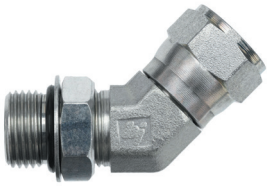
MAORB-FJS 90 DEG ELBOW

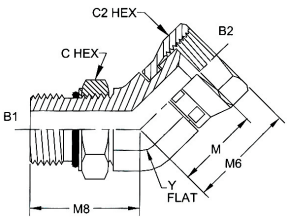


PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M7 LGTH	M LGTH	M6 LGTH	C1 HEX	C2 HEX	Y FLATS
6809-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	1.03	0.68	1.00	0.563	0.563	0.438
6809-04-06-NWO-FG	3/8	7/16-20	9/16-18	0.172	0.297	1.19	0.88	1.25	0.563	0.688	0.562
6809-06-04-NWO-FG	3/8	9/16-18	7/16-20	0.297	0.172	1.250	0.750	1.09	0.688	0.563	0.562
6809-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.250	0.870	1.250	0.688	0.688	0.562
6809-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	0.391	1.320	0.950	1.380	0.688	0.875	0.750
6809-08-06-NWO-FG	1/2	3/4-16	9/16-18	0.391	0.297	1.45	0.91	1.28	0.875	0.688	0.750
6809-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.45	0.960	1.380	0.875	0.875	0.750
6809-10-08-NWO-FG	5/8	7/8-14	3/4-16	0.484	0.391	1.700	1.090	1.510	1.000	0.875	0.875
6809-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	0.484	1.700	1.120	1.620	1.000	1.000	0.875
6809-12-10-NWO-FG	3/4	1-1/16-12	7/8-14	0.609	0.484	1.94	1.150	1.650	1.250	1.000	1.062
6809-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.940	1.370	1.750	1.250	1.250	1.062
6809-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	0.844	2.05	1.45	2.00	1.500	1.500	1.312
6809-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1.078	1.078	2.250	1.680	2.310	1.875	2.000	1.625

6810-NWO-FG

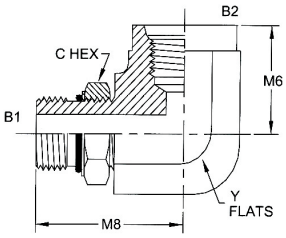
MAORB-FJS 45 DEG ELBOW





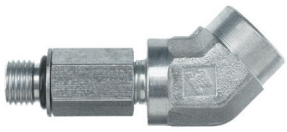
PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE 37Deg	B1 DRILL	B2 DRILL	M8 LGTH	M LGTH	M6 LGTH	C HEX	C2 HEX	Y FLATS
6810-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	0.172	1.050	0.589	0.940	0.562	0.562	0.438
6810-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	0.297	1.14	0.74	1.12	0.688	0.688	0.562
6810-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	0.391	1.300	0.850	1.280	0.875	0.875	0.750
6810-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	0.609	1.73	0.93	1.50	1.250	1.250	1.062

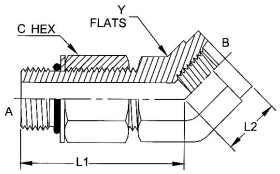
6815-NWO-FG MAORB-FORB 90 DEG ELBOW



PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B1 DRILL	M8 LGTH	M6 LGTH	C HEX	Y FLATS
6815-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	1.230	0.630	0.563	0.750
6815-04-06-NWO-FG	1/4	7/16-20	9/16-18	0.172	1.320	0.750	0.562	0.875
6815-06-06-NWO-FG	3/8	9/16-18	9/16-18	0.297	1.410	1.020	0.688	0.875
6815-06-08-NWO-FG	3/8	9/16-18	3/4-16	0.297	1.460	0.880	0.688	1.062
6815-08-08-NWO-FG	1/2	3/4-16	3/4-16	0.391	1.590	0.880	0.875	1.062
6815-10-10-NWO-FG	5/8	7/8-14	7/8-14	0.484	1.81	1.02	1.000	1.062
6815-12-08-NWO-FG	3/4	1-1/16-12	3/4-16	0.609	1.940	1.020	1.250	1.062
6815-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	0.609	2.000	1.210	1.250	1.312
6815-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	0.844	2.250	1.620	1.500	1.625
6815-24-24-NWO-FG	1 1/4	1 7/8-12	1 7/8-12	1.312	2.890	2.080	2.125	2.562

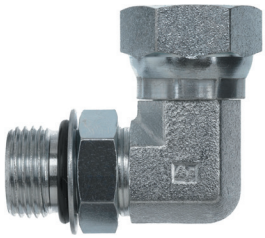
6818-NWO-FG MAORB-FORB 45 DEG ELBOW

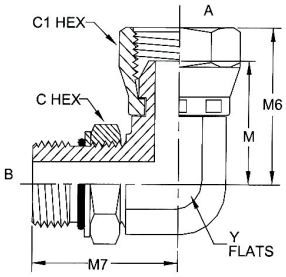




PART NO.	TUBE O.D.	A SAE ORB	B SAE ORB	A DRILL	L1 LGTH	L2 LGTH	C HEX	Y FLATS
6818-04-04-NWO-FG	1/4	7/16-20	7/16-20	0.172	1.86	0.64	0.563	0.750

6901-NWO-FG MAORB-FPS 90 DEG ELBOW





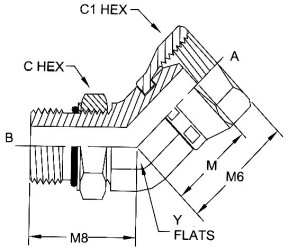
PART NO.	TUBE O.D.	B SAE ORB	A NPSM	B DRILL	A DRILL	M7 LGTH	M LGTH	M6 LGTH	C HEX	C1 HEX	Y FLATS
6901-04-02-NWO-FG	1/4	7/16-20	1/8-27	0.172	.11/.13	1.030	0.700	0.840	0.563	0.562	0.438
6901-04-04-NWO-FG	1/4	7/16-20	1/4-18	0.172	0.220	1.19	0.79	0.98	0.563	0.688	0.562
6901-04-06-NWO-FG	1/4	7/16-20	3/8-18	0.172	0.320	1.26	0.99	1.20	0.563	0.875	0.750
6901-04-08-NWO-FG	1/4	7/16-20	1/2-14	0.172	0.440	1.260	1.110	1.390	0.563	1.000	0.750
6901-05-04-NWO-FG	5/16	1/2-20	1/4-18	0.234	0.220	1.13	0.88	1.07	0.625	0.688	0.562
6901-06-04-NWO-FG	3/8	9/16-18	1/4-18	0.297	0.220	1.250	0.880	1.070	0.688	0.688	0.562
6901-06-06-NWO-FG	3/8	9/16-18	3/8-18	0.297	0.340	1.250	0.900	1.110	0.688	0.875	0.562
6901-06-08-NWO-FG	3/8	9/16-18	1/2-14	0.297	0.44/0.46	1.320	1.040	1.320	0.688	1.000	0.750
6901-08-04-NWO-FG	1/2	3/4-16	1/4-18	0.391	0.220	1.45	0.97	1.16	0.875	0.688	0.750
6901-08-06-NWO-FG	1/2	3/4-16	3/8-18	0.391	0.320/0.360	1.45	0.99	1.20	0.875	0.875	0.750
6901-08-08-NWO-FG	1/2	3/4-16	1/2-14	0.391	0.460	1.45	1.11	1.39	0.875	1.000	0.750
6901-08-12-NWO-FG	1/2	3/4-16	3/4-14	0.391	0.609	1.450	1.270	1.580	0.875	1.250	1.062
6901-10-04-NWO-FG	5/8	7/8-14	1/4-18	0.484	0.220	1.70	1.02	1.21	1.000	0.688	0.875
6901-10-06-NWO-FG	5/8	7/8-14	3/8-18	0.484	0.340	1.70	1.04	1.25	1.000	0.875	0.875
6901-10-08-NWO-FG	5/8	7/8-14	1/2-14	0.484	0.460	1.70	1.11	1.39	1.000	1.000	0.875
6901-10-12-NWO-FG	5/8	7/8-14	3/4-14	0.484	0.620	1.780	1.270	1.620	1.000	1.250	1.062
6901-12-06-NWO-FG	3/4	1-1/16-12	3/8-18	0.609	0.320/0.360	1.94	1.26	1.47	1.250	0.875	1.062
6901-12-08-NWO-FG	3/4	1-1/16-12	1/2-14	0.609	0.460	1.94	1.30	1.58	1.250	1.000	1.062
6901-12-12-NWO-FG	3/4	1-1/16-12	3/4-14	0.609	0.620	1.940	1.300	1.650	1.250	1.250	1.062
6901-12-16-NWO-FG	3/4	1-1/16-12	1-11-1/2	0.609	.78/.80	2.050	1.540	1.890	1.250	1.500	1.312
6901-14-12-NWO-FG	7/8	1-3/16-12	3/4-14	0.719	0.620	2.000	1.400	1.750	1.375	1.250	1.312
6901-14-16-NWO-FG	7/8	1-3/16-12	1-11-1/2	0.719	0.831	2.05	1.54	1.89	1.375	1.500	1.312

Continued...

PART NO.	TUBE O.D.	B SAE ORB	A NPSM	B DRILL	A DRILL	M7 LGTH	M LGTH	M6 LGTH	C HEX	C1 HEX	Y FLATS
6901-16-12-NWO-FG	1	1-5/16-12	3/4-14	0.844	0.610/0.630	2.050	1.400	1.750	1.500	1.250	1.312
6901-16-16-NWO-FG	1	1-5/16-12	1-11-1/2	0.844	0.78/0.88	2.05	1.54	1.89	1.500	1.500	1.312
6901-16-20-NWO-FG	1	1-5/16-12	1-1/4-11-1/2	0.844	1.01/1.16	2.25	1.78	2.20	1.500	1.875	1.625
6901-20-12-NWO-FG	1-1/4	1-5/8-12	3/4-14	1.078	0.620	2.250	1.610	1.960	1.875	1.250	1.625
6901-20-16-NWO-FG	1-1/4	1-5/8-12	1-11-1/2	1.078	0.831	2.25	1.70	2.05	1.875	1.500	1.625
6901-20-20-NWO-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.087	2.25	1.73	2.15	1.875	1.875	1.625
6901-24-20-NWO-FG	1-1/2	1-7/8-12	1-1/4-11-1/2	1.312	1.020	2.39	1.83	2.25	2.125	1.875	1.875
6901-24-24-NWO-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.317	2.39	1.89	2.31	2.125	2.125	1.875
6901-32-32-NWO-FG	2	2-1/2-12	2-11-1/2	1.781	1.720	2.890	2.430	2.850	2.750	2.625	2.500

6902-NWO-FG

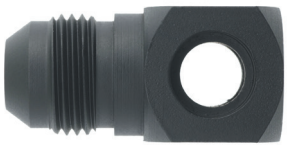
MAORB-FPS 45 DEG ELBOW

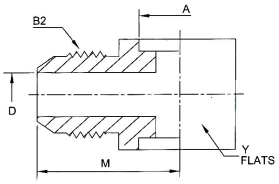


PART NO.	TUBE O.D.	B SAE ORB	A NPSM	B DRILL	A DRILL	M8 LGTH	M LGTH	M6 LGTH	C HEX	C1 HEX	Y FLATS
6902-04-02-NWO-FG	1/4	7/16-20	1/8-27	0.172	0.110	1.050	0.620	0.760	0.562	0.562	0.438
6902-04-04-NWO-FG	1/4	7/16-20	1/4-18	0.172	0.22	1.05	0.61	0.80	0.563	0.688	0.438
6902-04-06-NWO-FG	1/4	7/16-20	3/8-18	0.172	0.34	1.08	0.83	1.04	0.563	0.875	0.562
6902-06-04-NWO-FG	3/8	9/16-18	1/4-18	0.297	0.22	1.14	0.81	1.00	0.688	0.688	0.562
6902-06-06-NWO-FG	3/8	9/16-18	3/8-18	0.297	0.32/0.36	1.14	0.83	1.04	0.688	0.875	0.562
6902-06-08-NWO-FG	3/8	9/16-18	1/2-14	0.297	0.46	1.14	0.89	1.17	0.688	1.000	0.750
6902-08-04-NWO-FG	1/2	3/4-16	1/4-18	0.391	0.22	1.30	0.79	0.98	0.875	0.688	0.750
6902-08-06-NWO-FG	1/2	3/4-16	3/8-18	0.391	0.320	1.300	0.810	1.020	0.875	0.875	0.750
6902-08-08-NWO-FG	1/2	3/4-16	1/2-14	0.391	0.44/0.46	1.300	0.890	1.170	0.875	1.000	0.750
6902-08-12-NWO-FG	1/2	3/4-16	3/4-14	0.391	0.635	1.41	1.02	1.37	0.875	1.250	1.062
6902-10-06-NWO-FG	5/8	7/8-14	3/8-18	0.484	0.340	1.520	0.810	1.020	1.000	0.875	0.875
6902-10-08-NWO-FG	5/8	7/8-14	1/2-14	0.484	0.46	1.52	0.88	1.16	1.000	1.000	0.875
6902-10-12-NWO-FG	5/8	7/8-14	3/4-14	0.484	0.635	1.570	1.020	1.370	1.000	1.250	1.062
6902-12-08-NWO-FG	3/4	1-1/16-12	1/2-14	0.609	0.46	1.73	1.02	1.30	1.250	1.000	1.062
6902-12-12-NWO-FG	3/4	1-1/16-12	3/4-14	0.609	.61/.63	1.730	1.020	1.370	1.250	1.250	1.062
6902-12-16-NWO-FG	3/4	1-1/16-12	1-11-1/2	0.609	0.78	1.86	1.15	1.50	1.250	1.500	1.312
6902-16-12-NWO-FG	1	1-5/16-12	3/4-14	0.844	0.620	1.860	1.010	1.360	1.500	1.250	1.312
6902-16-16-NWO-FG	1	1-5/16-12	1-11-1/2	0.844	0.780	1.860	1.150	1.500	1.500	1.500	1.312
6902-16-20-NWO-FG	1	1-5/16-12	1-1/4-11-1/2	0.844	1.087	1.91	1.23	1.66	1.500	1.875	1.625
6902-20-16-NWO-FG	1-1/4	1-5/8-12	1-11-1/2	1.078	0.78/0.80	1.910	1.200	1.550	1.875	1.500	1.625
6902-20-20-NWO-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1.078	1.010	1.910	1.230	1.650	1.875	1.875	1.625
6902-24-24-NWO-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1.312	1.250	1.910	1.350	1.770	2.125	2.125	1.875

TEES

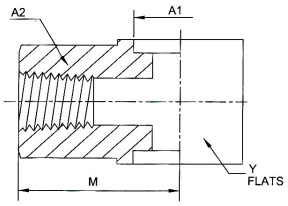
0600 BORE-BORE-MJ TEE





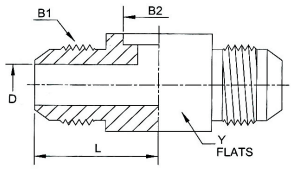
PART NO.	TUBE O.D.	A BORE	B2 JIC	D DRILL	M LGTH	Y FLATS
0600-04-04-04	1/4	0.256	7/16-20	0.172	0.890	0.500
0600-05-05-05	5/16	0.319	1/2-20	0.234	0.953	0.562
0600-06-06-06	3/8	0.381	9/16-18	0.297	1.062	0.625
0600-08-08-08	1/2	0.506	3/4-16	0.391	1.250	0.812
0600-10-10-10	5/8	0.631	7/8-14	0.484	1.453	0.937
0600-12-12-12	3/4	0.757	1-1/16-12	0.609	1.656	1.125
0600-14-14-14	7/8	0.882	1-3/16-12	0.719	1.734	1.250
0600-16-16-16	1	1.007	1-5/16-12	0.844	1.812	1.375
0600-20-20-20	1-1/4	1.258	1-5/8-12	1.078	2.062	1.750
0600-24-24-24	1-1/2	1.508	1-7/8-12	1.312	2.328	2.000

0602 BORE-BORE-FP TEE



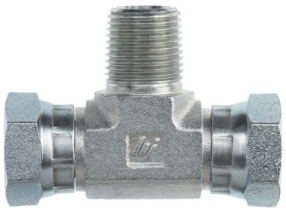
PART NO.	TUBE O.D.	A1 BORE	A2 NPTF	M LGTH	Y FLATS
0602-06-06-04	3/8	0.381	1/4-18	0.90	0.750
0602-16-16-16	1	1.007	1 -11-1/2	1.65	1.625

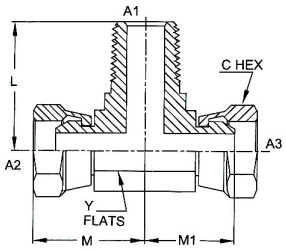
0702 BORE-MJ-MJ-TEE



PART NO.	TUBE O.D.	B1 JIC	B2 BORE	B DRILL	L LGTH	Y FLATS
0702-05-05-05	5/16	1/2-20	0.319	0.234	0.970	0.562
0702-06-06-06	3/8	9/16-18	0.381	0.297	1.090	0.625
0702-08-08-08	1/2	3/4-16	0.506	0.391	1.250	0.812
0702-10-10-10	5/8	7/8-14	0.631	0.484	1.450	0.937
0702-12-12-12	3/4	1-1/16-12	0.757	0.609	1.660	1.125
0702-16-16-16	1	1-5/16-12	1.007	0.844	1.810	1.375

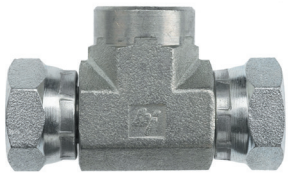
1601-FG MP-FPS-FPS TEE

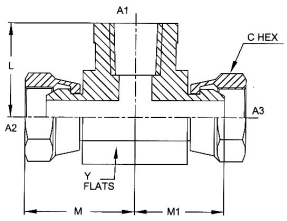




PART NO.	A1 NPTF	A2 NPSM	A3 NPSM	A1 DRILL	A2 DRILL	A3 DRILL	L LGTH	M1 LGTH	M LGTH	C HEX	Y FLATS
1601-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.188	0.120	0.120	0.720	0.700	0.840	0.562	0.438
1601-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.281	0.220	0.220	1.090	0.880	1.070	0.688	0.562
1601-04-06-06-FG	1/4-18	3/8-18	3/8-18	0.281	0.340	0.340	1.220	0.990	1.200	0.688	0.750
1601-06-04-04-FG	3/8-18	1/4-18	1/4-18	0.406	0.220	0.220	1.220	0.970	1.160	0.875	0.750
1601-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.406	0.340	0.340	1.22	0.99	1.20	0.875	0.750
1601-08-04-04-FG	1/2-14	1/4-18	1/4-18	0.531	0.210	0.210	1.470	1.030	1.210	0.688	0.875
1601-08-06-06-FG	1/2-14	3/8-18	3/8-18	0.531	0.340	0.340	1.47	1.04	1.25	1.000	0.875
1601-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.531	0.460	0.460	1.470	1.110	1.390	1.000	0.875
1601-08-12-12-FG	1/2-14	3/4-14	3/4-14	0.531	0.620	0.620	1.590	1.300	1.650	1.250	1.062
1601-12-08-08-FG	3/4-14	1/2-14	1/2-14	0.719	0.460	0.460	1.590	1.330	1.610	1.250	1.062
1601-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.719	0.620	0.620	1.590	1.300	1.650	1.250	1.062
1601-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	0.938	0.800	0.800	1.970	1.540	1.890	1.500	1.312
1601-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.020	1.020	2.38	1.73	2.15	1.875	1.625
1601-24-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.250	1.250	2.64	1.89	2.31	2.125	1.875

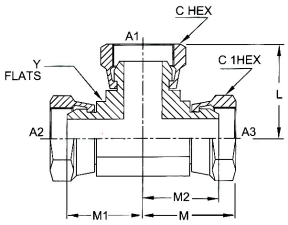
1602-FG FP-FPS-FPS TEE





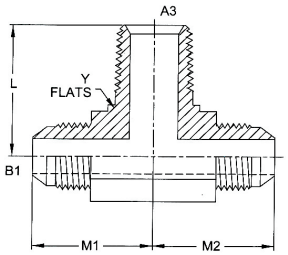
PART NO.	A1 NPTF	A2 NPSM	A3 NPSM	A2 DRILL	A3 DRILL	L LGTH	M1 LGTH	M LGTH	C HEX	Y FLATS
1602-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.120	0.120	0.660	0.800	0.940	0.562	0.562
1602-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.220	0.220	0.880	0.990	1.180	0.688	0.750
1602-06-04-04-FG	3/8-18	1/4-18	1/4-18	0.220	0.220	1.020	1.060	1.250	0.875	0.875
1602-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.340	0.340	0.940	0.990	1.200	0.875	0.875
1602-08-06-06-FG	1/2-14	3/8-18	3/8-18	0.340	0.340	1.23	1.17	1.38	1.000	1.062
1602-12-08-08-FG	3/4-14	1/2-14	1/2-14	0.460	0.460	1.36	1.47	1.75	1.250	1.312
1602-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.630	0.630	1.360	1.470	1.820	1.250	1.312
1602-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	0.800	0.800	1.62	1.73	2.08	1.500	1.625
1602-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.020	1.020	1.700	1.830	2.250	1.875	1.875

1603-FG FP-FPS-FPS TEE



PART NO.	A1 NPSM	A2 NPSM	A3 NPSM	A1 DRILL	A2 DRILL	A3 DRILL	L LGTH	M1 LGTH	M2 LGTH	M LGTH	C HEX	C1 HEX	Y Flats
1603-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.110	0.110	0.110	0.840	0.700	0.700	0.840	0.562	0.562	0.438
1603-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.220	0.220	0.220	1.070	0.880	0.880	1.070	0.688	0.688	0.562
1603-04-04-06-FG	1/4-18	1/4-18	3/8-18	0.210	0.210	0.320	1.20	0.99	0.99	1.20	0.875	0.875	0.750
1603-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.340	0.340	0.340	1.200	0.990	0.990	1.200	0.875	0.875	0.750
1603-06-06-08-FG	3/8-18	3/8-18	1/2-14	0.320	0.320	0.440	1.250	1.040	1.110	1.390	0.875	1.000	0.875
1603-08-06-06-FG	1/2-14	3/8-18	3/8-18	0.44	0.32	0.32	1.39	1.04	1.04	1.250	1.00	0.875	0.875
1603-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.44/0.46	0.44/0.46	0.44/0.46	1.390	1.110	1.110	1.390	1.000	1.000	0.875
1603-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.620	0.620	0.620	1.650	1.300	1.300	1.650	1.250	1.250	1.062
1603-16-12-16-FG	1-11 1/2	3/4-14	1-11 1/2	.78	.61	.78	1.89	1.54	1.54	1.89	1.50	1.25	1.312
1603-16-16-16-FG	1-11-1/2	1-11-1/2	1-11-1/2	0.780	0.780	0.780	1.890	1.540	1.540	1.890	1.500	1.500	1.312
1603-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.020	1.020	1.020	2.150	1.730	1.730	2.150	1.875	1.875	1.625
1603-24-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.250	1.250	1.250	2.310	1.890	1.890	2.310	2.125	2.125	1.875

2601-FG MJ-MJ-MP TEE

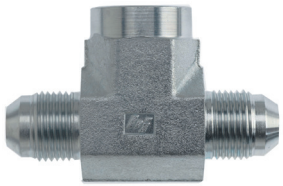


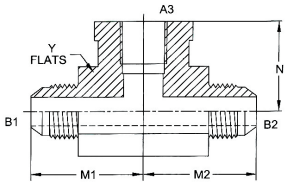
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	A3 NPTF	B1 DRILL	B2 DRILL	A3 DRILL	M1 LGTH	M2 LGTH	L LGTH	Y FLATS
2601-03-03-02-FG	3/16	3/8-24	3/8-24	1/8-27	0.125	0.125	0.188	0.83	0.83	0.72	0.438
2601-04-04-02-FG	1/4	7/16-20	7/16-20	1/8-27	0.172	0.172	0.188	0.89	0.89	0.78	0.438
2601-04-04-04-FG	1/4	7/16-20	7/16-20	1/4-18	0.172	0.172	0.281	1.05	1.05	1.09	0.562
2601-04-04-06-FG	1/4	7/16-20	7/16-20	3/8-18	0.172	0.172	0.406	1.12	1.12	1.22	0.750
2601-05-05-02-FG	5/16	1/2-20	1/2-20	1/8-27	0.234	0.234	0.188	0.95	0.95	0.78	0.562
2601-05-05-04-FG	5/16	1/2-20	1/2-20	1/4-18	0.234	0.234	0.281	1.05	1.05	1.09	0.562
2601-06-06-02-FG	3/8	9/16-18	9/16-18	1/8-27	0.297	0.297	0.188	1.060	1.060	0.900	0.562
2601-06-06-04-FG	3/8	9/16-18	9/16-18	1/4-18	0.297	0.297	0.281	1.06	1.06	1.09	0.562
2601-06-06-06-FG	3/8	9/16-18	9/16-18	3/8-18	0.297	0.297	0.406	1.14	1.14	1.22	0.750
2601-06-06-08-FG	3/8	9/16-18	9/16-18	1/2-14	0.297	0.297	0.531	1.220	1.220	1.470	0.875
2601-08-08-04-FG	1/2	3/4-16	3/4-16	1/4-18	0.391	0.391	0.281	1.25	1.25	1.22	0.750

Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	A3 NPTF	B1 DRILL	B2 DRILL	A3 DRILL	M1 LGTH	M2 LGTH	L LGTH	Y FLATS
2601-08-08-06-FG	1/2	3/4-16	3/4-16	3/8-18	0.391	0.391	0.406	1.25	1.25	1.22	0.750
2601-08-08-08-FG	1/2	3/4-16	3/4-16	1/2-14	0.391	0.391	0.531	1.33	1.33	1.47	0.875
2601-08-08-12-FG	1/2	3/4-16	3/4-16	3/4-14	0.391	0.391	0.719	1.42	1.42	1.59	1.062
2601-10-10-06-FG	5/8	7/8-14	7/8-14	3/8-18	0.484	0.484	0.406	1.45	1.45	1.28	0.875
2601-10-10-08-FG	5/8	7/8-14	7/8-14	1/2-14	0.484	0.484	0.531	1.450	1.450	1.470	0.875
2601-10-10-12-FG	5/8	7/8-14	7/8-14	3/4-14	0.484	0.484	0.719	1.54	1.54	1.59	1.062
2601-12-12-08-FG	3/4	1-1/16-12	1-1/16-12	1/2-14	0.609	0.609	0.531	1.66	1.66	1.59	1.062
2601-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	3/4-14	0.609	0.609	0.719	1.66	1.66	1.59	1.062
2601-12-12-16-FG	3/4	1-1/16-12	1-1/16-12	1-11-1/2	0.609	0.609	0.938	1.760	1.760	1.970	1.312
2601-14-14-12-FG	7/8	1-3/16-12	1-3/16-12	3/4-14	0.719	0.719	0.719	1.80	1.80	1.69	1.312
2601-16-16-12-FG	1	1-5/16-12	1-5/16-12	3/4-14	0.844	0.844	0.719	1.81	1.81	1.78	1.312
2601-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-11-1/2	0.844	0.844	0.938	1.810	1.810	1.970	1.312
2601-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-1/4-11-1/2	1.078	1.078	1.250	2.06	2.06	2.38	1.625
2601-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-1/2-11-1/2	1.312	1.312	1.500	2.330	2.330	2.640	1.875
2601-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-11-1/2	1.781	1.781	1.938	3.06	3.06	3.00	2.500

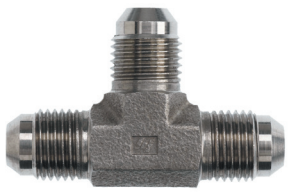
2602-FG MJ-MJ-FP TEE

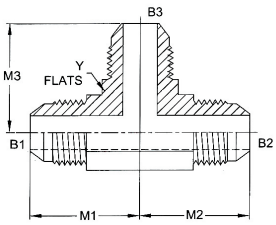




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	A3 NPTF	B1 DRILL	B2 DRILL	M1 LGTH	M2 LGTH	N LGTH	Y FLATS
2602-03-03-02-FG	3/16	3/8-24	3/8-24	1/8-27	0.125	0.125	1.03	1.03	0.66	0.562
2602-04-04-02-FG	1/4	7/16-20	7/16-20	1/8-27	0.172	0.172	1.080	1.080	0.660	0.562
2602-04-04-04-FG	1/4	7/16-20	7/16-20	1/4-18	0.172	0.172	1.220	1.220	0.880	0.750
2602-05-05-02-FG	5/16	1/2-20	1/2-20	1/8-27	0.234	0.234	1.08	1.08	0.66	0.562
2602-06-06-04-FG	3/8	9/16-18	9/16-18	1/4-18	0.297	0.297	1.23	1.23	0.88	0.750
2602-06-06-06-FG	3/8	9/16-18	9/16-18	3/8-18	0.297	0.297	1.31	1.31	1.02	0.875
2602-08-08-04-FG	1/2	3/4-16	3/4-16	1/4-18	0.391	0.391	1.42	1.42	1.02	0.875
2602-08-08-06-FG	1/2	3/4-16	3/4-16	3/8-18	0.391	0.391	1.420	1.420	1.020	0.875
2602-08-08-08-FG	1/2	3/4-16	3/4-16	1/2-14	0.391	0.391	1.520	1.520	1.230	1.062
2602-10-10-04-FG	5/8	7/8-14	7/8-14	1/4-18	0.484	0.484	1.45	1.45	1.01	0.875
2602-10-10-08-FG	5/8	7/8-14	7/8-14	1/2-14	0.484	0.484	1.64	1.64	1.23	1.062
2602-12-12-08-FG	3/4	1-1/16-12	1-1/16-12	1/2-14	0.609	0.609	1.890	1.890	1.350	1.312
2602-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	3/4-14	0.609	0.609	1.89	1.89	1.36	1.312
2602-14-14-12-FG	7/8	1-3/16-12	1-3/16-12	3/4-14	0.719	0.719	1.860	1.860	1.420	1.312
2602-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-11-1/2	0.844	0.844	2.17	2.17	1.62	1.625
2602-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-1/4-11-1/2	1.078	1.078	2.330	2.330	1.700	1.875
2602-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-1/2-11-1/2	1.312	1.312	2.89	2.89	2.08	2.562
2602-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-11-1/2	1.781	1.781	3.30	3.30	2.39	2.812

2603-FG MJ-MJ-MJ TEE





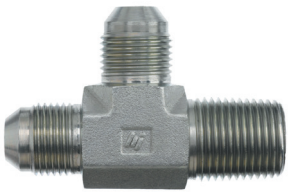
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	M2 LGTH	M3 LGTH	Y FLATS
2603-02-02-02-FG	1/8	5/16-24	5/16-24	5/16-24	0.062	0.062	0.062	0.77	0.77	0.77	0.438
2603-03-03-03-FG	3/16	3/8-24	3/8-24	3/8-24	0.125	0.125	0.125	0.83	0.83	0.83	0.438
2603-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.89	0.89	0.89	0.438
2603-04-04-06-FG	1/4	7/16-20	7/16-20	9/16-18	0.172	0.172	0.297	1.050	1.050	1.060	0.562
2603-05-05-05-FG	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	0.95	0.95	0.95	0.562
2603-06-06-04-FG	3/8	9/16-18	9/16-18	7/16-20	0.297	0.297	0.172	1.06	1.06	1.05	0.562
2603-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.06	1.06	1.06	0.562
2603-06-06-08-FG	3/8	9/16-18	9/16-18	3/4-16	0.297	0.297	0.391	1.140	1.140	1.250	0.750

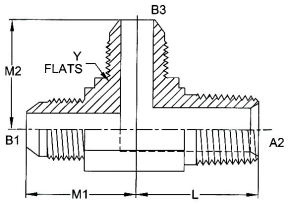
Continued...

PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	M2 LGTH	M3 LGTH	Y FLATS
2603-08-06-06-FG	1/2	3/4-16	9/16-18	9/16-18	0.391	0.297	0.297	1.25	1.14	1.14	0.750
2603-08-08-06-FG	1/2	3/4-16	3/4-16	9/16-18	0.391	0.391	0.297	1.25	1.25	1.14	0.750
2603-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.25	1.25	1.25	0.750
2603-08-08-10-FG	1/2	3/4-16	3/4-16	7/8-14	0.391	0.391	0.484	1.330	1.330	1.450	0.875
2603-08-08-12-FG	1/2	3/4-16	3/4-16	1-1/16-12	0.391	0.391	0.609	1.420	1.420	1.660	1.062
2603-10-08-08-FG	5/8	7/8-14	3/4-16	3/4-16	0.484	0.391	0.391	1.45	1.33	1.33	0.875
2603-10-10-08-FG	5/8	7/8-14	7/8-14	3/4-16	0.484	0.484	0.391	1.450	1.450	1.330	0.875
2603-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.45	1.45	1.45	0.875
2603-10-10-12-FG	5/8	7/8-14	7/8-14	1-1/16-12	0.484	0.484	0.609	1.54	1.54	1.66	1.062
2603-12-10-10-FG	3/4	1-1/16-12	7/8-14	7/8-14	0.609	0.484	0.484	1.66	1.54	1.54	1.062
2603-12-12-06-FG	3/4	1-1/16-12	1-1/16-12	9/16-18	0.609	0.609	0.297	1.66	1.66	1.31	1.062
2603-12-12-08-FG	3/4	1-1/16-12	1-1/16-12	3/4-16	0.609	0.609	0.391	1.660	1.660	1.420	1.062
2603-12-12-10-FG	3/4	1-1/16-12	1-1/16-12	7/8-14	0.609	0.609	0.484	1.66	1.66	1.54	1.062
2603-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.66	1.66	1.66	1.062
2603-12-12-16-FG	3/4	1-1/16-12	1-1/16-12	1-5/16-12	0.609	0.609	0.844	1.760	1.760	1.810	1.312
2603-14-14-14-FG	7/8	1-3/16-12	1-3/16-12	1-3/16-12	0.719	0.719	0.719	1.80	1.80	1.80	1.312
2603-16-12-12-FG	1	1-5/16-12	1-1/16-12	1-1/16-12	0.844	0.609	0.609	1.81	1.76	1.76	1.312
2603-16-16-12-FG	1	1-5/16-12	1-5/16-12	1-1/16-12	0.844	0.844	0.609	1.81	1.81	1.76	1.312
2603-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.81	1.81	1.81	1.312
2603-20-20-12-FG	1-1/4	1-5/8-12	1-5/8-12	1-1/16-12	1.078	1.078	0.609	2.06	2.06	1.97	1.625
2603-20-20-16-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/16-12	1.078	1.078	0.844	2.060	2.060	2.010	1.625
2603-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.060	2.060	2.060	1.625
2603-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.33	2.33	2.33	1.875
2603-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	3.06	3.06	3.06	2.500
2603-06-06-10-FG	3/8	9/16-18	9/16-18	7/8-14	0.297	0.297	0.484	1.22	1.22	1.45	0.875
2603-10-10-06-FG	5/8	7/8-14	7/8-14	9/16-18	0.484	0.484	0.297	1.45	1.45	1.22	0.875

2605-FG

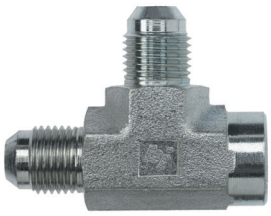
MJ-MP-MJ TEE

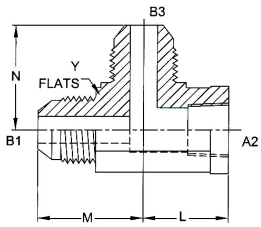




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B3 SAE 37Deg	B1 DRILL	A2 DRILL	B3 DRILL	M1 LGTH	L LGTH	M2 LGTH	Y FLATS
2605-03-02-03-FG	3/16	3/8-24	1/8-27	3/8-24	0.125	0.188	0.125	0.83	0.72	0.83	0.438
2605-04-02-04-FG	1/4	7/16-20	1/8-27	7/16-20	0.172	0.188	0.172	0.890	0.780	0.890	0.438
2605-04-04-04-FG	1/4	7/16-20	1/4-18	7/16-20	0.172	0.281	0.172	1.050	1.090	1.050	0.562
2605-05-02-05-FG	5/16	1/2-20	1/8-27	1/2-20	0.234	0.188	0.234	0.95	0.78	0.95	0.562
2605-05-04-05-FG	5/16	1/2-20	1/4-18	1/2-20	0.234	0.234	0.234	1.05	1.09	1.05	0.562
2605-06-02-06-FG	3/8	9/16-18	1/8-27	9/16-18	0.297	0.188	0.297	1.06	0.90	1.06	0.562
2605-06-04-04-FG	3/8	9/16-18	1/4-18	7/16-20	0.297	0.281	0.172	1.060	1.090	1.050	0.562
2605-06-04-06-FG	3/8	9/16-18	1/4-18	9/16-18	0.297	0.281	0.297	1.06	1.09	1.06	0.562
2605-06-06-06-FG	3/8	9/16-18	3/8-18	9/16-18	0.297	0.406	0.297	1.14	1.22	1.14	0.750
2605-06-08-06-FG	3/8	9/16-18	1/2-14	9/16-18	0.297	0.531	0.297	1.22	1.47	1.22	0.875
2605-08-04-08-FG	1/2	3/4-16	1/4-18	3/4-16	0.391	0.281	0.391	1.25	1.22	1.25	0.750
2605-08-06-06-FG	1/2	3/4-16	3/8-18	9/16-18	0.391	0.391	0.297	1.25	1.22	1.14	0.750
2605-08-06-08-FG	1/2	3/4-16	3/8-18	3/4-16	0.391	0.406	0.391	1.25	1.22	1.25	0.750
2605-08-08-06-FG	1/2	3/4-16	1/2-14	9/16-18	0.391	0.531	0.297	1.330	1.470	1.220	0.875
2605-08-08-08-FG	1/2	3/4-16	1/2-14	3/4-16	0.391	0.531	0.391	1.33	1.47	1.33	0.875
2605-08-12-08-FG	1/2	3/4-16	3/4-14	3/4-16	0.391	0.719	0.391	1.420	1.590	1.420	1.062
2605-10-08-10-FG	5/8	7/8-14	1/2-14	7/8-14	0.484	0.531	0.484	1.450	1.470	1.450	0.875
2605-10-12-10-FG	5/8	7/8-14	3/4-14	7/8-14	0.484	0.719	0.484	1.54	1.59	1.54	1.062
2605-12-08-12-FG	3/4	1-1/16-12	1/2-14	1-1/16-12	0.609	0.531	0.609	1.66	1.59	1.66	1.062
2605-12-12-08-FG	3/4	1-1/16-12	3/4-14	3/4-16	0.609	0.719	0.391	1.660	1.590	1.420	1.062
2605-12-12-12-FG	3/4	1-1/16-12	3/4-14	1-1/16-12	0.609	0.609	0.609	1.660	1.590	1.660	1.062
2605-16-12-16-FG	1	1-5/16-12	1-11-1/2	1-5/16-12	0.844	0.844	0.844	1.81	1.97	1.81	1.312
2605-16-16-16-FG	1	1-5/16-12	1-11-1/2	1-5/16-12	0.844	0.938	0.844	1.810	1.970	1.810	1.312
2605-20-16-20-FG	1-1/4	1-5/8-12	1-11-1/2	1-5/8-12	1.078	0.938	1.078	2.06	2.35	2.06	1.625
2605-20-20-16-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1-5/16-12	1.078	1.250	0.844	2.06	2.38	2.01	1.625
2605-20-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1-5/8-12	1.078	1.250	1.078	2.060	2.380	2.060	1.625
2605-24-24-24-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1-7/8-12	1.312	1.500	1.312	2.330	2.640	2.330	1.875
2605-32-32-32-FG	2	2-1/2-12	2-11-1/2	2-1/2-12	1.781	1.938	1.781	3.06	3.00	3.06	2.500

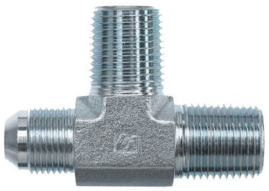
2606-FG MJ-FP-MJ TEE

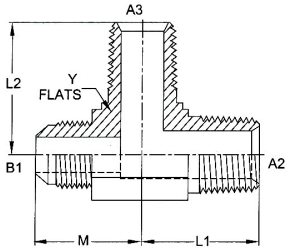




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	BE SAE 37Deg	B1 DRILL	B3 DRILL	M LGTH	L LGTH	N LGTH	Y FLATS
2606-04-02-04-FG	1/4	7/16-20	1/8-27	7/16-20	0.172	0.172	1.08	0.66	1.08	0.562
2606-04-04-04-FG	1/4	7/16-20	1/4-18	7/16-20	0.172	0.172	1.22	0.88	1.22	0.750
2606-05-02-05-FG	5/16	1/2-20	1/8-27	1/2-20	0.234	0.234	1.08	0.66	1.08	0.562
2606-06-04-06-FG	3/8	9/16-18	1/4-18	9/16-18	0.297	0.297	1.23	0.88	1.23	0.750
2606-06-06-06-FG	3/8	9/16-18	3/8-18	9/16-18	0.297	0.297	1.310	1.020	1.310	0.875
2606-08-06-08-FG	1/2	3/4-16	3/8-18	3/4-16	0.391	0.391	1.42	1.02	1.42	0.875
2606-08-08-08-FG	1/2	3/4-16	1/2-14	3/4-16	0.391	0.391	1.520	1.230	1.520	1.062
2606-10-08-10-FG	5/8	7/8-14	1/2-14	7/8-14	0.484	0.484	1.640	1.230	1.640	1.062
2606-12-12-12-FG	3/4	1-1/16-12	3/4-14	1-1/16-12	0.609	0.609	1.81	1.36	1.81	1.312
2606-16-16-16-FG	1	1-5/16-12	1-11-1/2	1-5/16-12	0.844	0.844	2.170	1.620	2.170	1.625
2606-20-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1-5/8-12	1.078	1.078	2.33	1.70	2.33	1.875
2606-24-24-24-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1-7/8-12	1.312	1.312	2.89	2.08	2.89	2.562

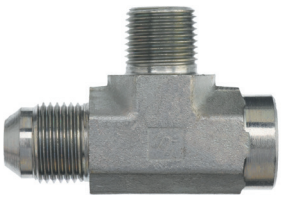
2607-FG MJ-MP-MP TEE

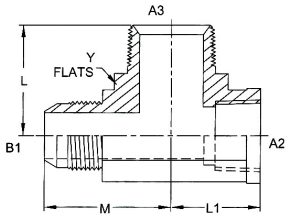




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	A3 NPTF	B1 DRILL	A2 DRILL	A3 DRILL	M LGTH	L1 LGTH	L2 LGTH	Y FLATS
2607-04-02-02-FG	1/4	7/16-20	1/8-27	1/8-27	0.172	0.172	0.188	0.890	0.780	0.780	0.438
2607-06-04-04-FG	3/8	9/16-18	1/4-18	1/4-18	0.281	0.281	0.281	1.06	1.09	1.09	0.562
2607-06-06-06-FG	3/8	9/16-18	3/8-18	3/8-18	0.297	0.406	0.406	1.14	1.22	1.22	0.750
2607-08-06-06-FG	1/2	3/4-16	3/8-18	3/8-18	0.391	0.406	0.406	1.25	1.22	1.22	0.750
2607-08-08-08-FG	1/2	3/4-16	1/2-14	1/2-14	0.391	0.531	0.531	1.330	1.470	1.470	0.875
2607-10-08-08-FG	5/8	7/8-14	1/2-14	1/2-14	0.484	0.531	0.531	1.45	1.47	1.47	0.875
2607-12-12-12-FG	3/4	1 1/16-12	3/4-14	3/4-14	0.609	0.719	0.719	1.66	1.59	1.59	1.062
2607-16-16-16-FG	1	1 5/16-12	1-11 1/2	1-11 1/2	0.844	0.938	0.938	1.810	1.970	1.970	1.312
2607-20-20-20-FG	1-1/4	1 5/8-12	1 1/4-11 1/2	1 1/4-11 1/2	1.078	1.250	1.250	2.060	2.380	2.380	1.625
2607-10-08-06-FG	5/8	7/8-14	1/2-14	3/8-18	0.484	0.531	0.406	1.45	1.47	1.28	0.875

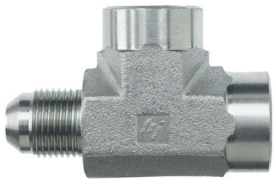
2608-FG MJ-FP-MP TEE

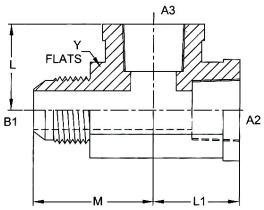




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	A3 NPTF	B1 DRILL	A3 DRILL	M LGTH	L1 LGTH	L LGTH	Y FLATS
2608-04-02-02-FG	1/4	7/16-20	1/8-27	1/8-27	0.172	0.188	1.08	0.66	0.78	0.562
2608-06-04-04-FG	3/8	9/16-18	1/4-18	1/4-18	0.297	0.281	1.23	0.88	1.09	0.750
2608-08-06-06-FG	1/2	3/4-16	3/8-18	3/8-18	0.391	0.406	1.42	1.02	1.22	0.875
2608-10-08-08-FG	5/8	7/8-14	1/2-14	1/2-14	0.484	0.531	1.64	1.23	1.47	1.062
2608-12-12-12-FG	3/4	1-1/16-12	3/4-14	3/4-14	0.609	0.719	1.89	1.36	1.59	1.312
2608-16-16-16-FG	1	1-5/16-12	1-11-1/2	1-11-1/2	0.844	0.938	2.17	1.62	1.70	1.625
2608-08-02-06-FG	1/2	3/4-16	1/8-27	3/8-18	0.391	0.406	1.25	0.81	1.22	0.750

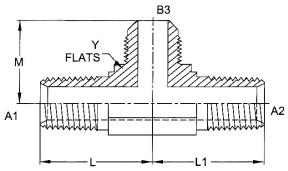
2609-FG MJ-FP-FP TEE





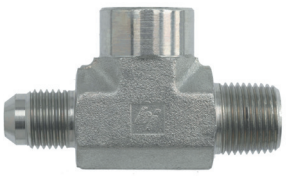
PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	A3 NPTF	B1 DRILL	M LGTH	L1 LGTH	L LGTH	Y FLATS
2609-04-02-02-FG	1/4	7/16-20	1/8-27	1/8-27	0.172	1.08	0.66	0.66	0.562
2609-04-04-04-FG	1/4	7/16-20	1/4-18	1/4-18	0.172	1.220	0.880	0.880	0.750
2609-05-04-04-FG	5/16	1/2-20	1/4-18	1/4-18	0.234	1.22	0.88	0.88	0.750
2609-06-04-04-FG	3/8	9/16-18	1/4-18	1/4-18	0.297	1.23	0.88	0.88	0.750
2609-08-06-06-FG	1/2	3/4-16	3/8-18	3/8-18	0.391	1.42	1.02	1.02	0.875
2609-08-08-08-FG	1/2	3/4-16	1/2-14	1/2-14	0.391	1.520	1.230	1.230	1.062
2609-10-08-08-FG	5/8	7/8-14	1/2-14	1/2-14	0.484	1.640	1.230	1.230	1.062
2609-12-12-12-FG	3/4	1-1/16-12	3/4-14	3/4-14	0.609	1.890	1.360	1.360	1.312
2609-16-16-16-FG	1	1-5/16-12	1-11-1/2	1-11-1/2	0.844	2.17	1.62	1.62	1.625
2609-20-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1-1/4-11-1/2	1.078	2.33	1.70	1.70	1.875
2609-24-24-24-FG	1-1/5	1-7/8-12	1-1/2-11-1/2	1-1/2-11-1/2	1.312	2.640	2.080	2.080	2.562

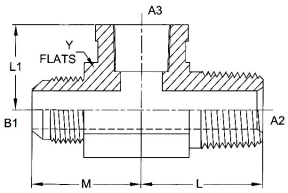
2610-FG MP-MP-MJ TEE



PART NO.	TUBE O.D.	A1 NPTF	A2 NPTF	B3 SAE 37Deg	A1 DRILL	A2 DRILL	B3 DRILL	L LGTH	L1 LGTH	M LGTH	Y FLATS
2610-04-04-04-FG	1/4	1/4-18	1/4-18	7/16-20	0.281	0.281	0.172	1.090	1.090	1.050	0.562
2610-04-04-06-FG	3/8	1/4-18	1/4-18	9/16-18	0.281	0.281	0.297	1.090	1.090	1.060	0.562
2610-06-06-06-FG	3/8	3/8-18	3/8-18	9/16-18	0.406	0.406	0.297	1.22	1.22	1.14	0.750
2610-06-06-08-FG	1/2	3/8-18	3/8-18	3/4-16	0.406	0.406	0.391	1.22	1.22	1.25	0.750
2610-08-08-08-FG	1/2	1/2-14	1/2-14	3/4-16	0.531	0.531	0.391	1.47	1.47	1.33	0.875
2610-08-08-10-FG	5/8	1/2-14	1/2-14	7/8-14	0.531	0.531	0.484	1.47	1.47	1.45	0.875
2610-12-12-12-FG	3/4	3/4-14	3/4-14	1-1/16-12	0.719	0.719	0.609	1.590	1.590	1.660	1.062
2610-16-16-16-FG	1	1-11-1/2	1-11-1/2	1-5/16-12	0.938	0.938	0.844	1.97	1.97	1.81	1.312

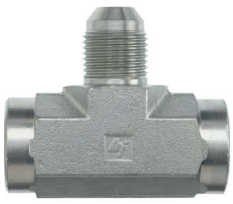
2611-FG MJ-MP-FP TEE

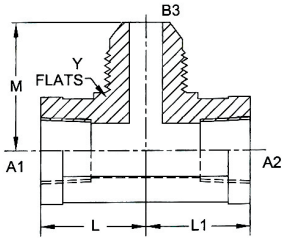




PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	A3 NPTF	B1 DRILL	A2 DRILL	M LGTH	L LGTH	L1 LGTH	Y FLATS
2611-04-02-02-FG	1/4	7/16-20	1/8-27	1/8-27	0.172	0.188	1.08	0.78	0.66	0.562
2611-04-04-02-FG	1/4	7/16-20	1/4-18	1/8-27	0.172	0.281	1.220	1.090	0.690	0.562
2611-04-04-04-FG	1/4	7/16-20	1/4-18	1/4-18	0.172	0.281	1.220	1.090	0.880	0.750
2611-06-04-04-FG	3/8	9/16-18	1/4-18	1/4-18	0.297	0.281	1.23	1.09	0.88	0.750
2611-06-06-06-FG	3/8	9/16-18	3/8-18	3/8-18	0.297	0.406	1.310	1.220	1.020	0.875
2611-08-06-06-FG	1/2	3/4-16	3/8-18	3/8-18	0.391	0.406	1.42	1.22	1.02	0.875
2611-08-08-08-FG	1/2	3/4-16	1/2-14	1/2-14	0.391	0.531	1.52	1.47	1.23	1.062
2611-10-08-08-FG	5/8	7/8-14	1/2-14	1/2-14	0.484	0.531	1.64	1.47	1.23	1.062
2611-12-12-12-FG	3/4	1-1/16-12	3/4-14	3/4-14	0.609	0.719	1.890	1.590	1.360	1.312
2611-16-16-16-FG	1	1-5/16-12	1-11-1/2	1-11-1/2	0.844	0.938	2.17	1.97	1.62	1.625
2611-20-20-20-FG	1-1/4	1-5/8-12	1-1/4-11-1/2	1-1/4-11-1/2	1.078	1.250	2.330	2.380	1.700	1.875
2611-24-24-24-FG	1-1/2	1-7/8-12	1-1/2-11-1/2	1-1/2-11-1/2	1.312	1.500	2.880	2.640	2.080	2.562
2611-32-32-32-FG	2	2-1/2-12	2-11-1/2	2-11-1/2	1.781	1.938	3.300	3.000	2.390	2.812

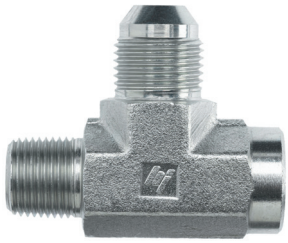
2612-FG FP-FP-MJ TEE

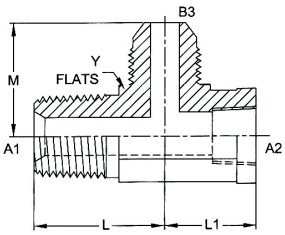




PART NO.	TUBE O.D.	A1 NPTF	A2 NPTF	B3 SAE 37Deg	B3 DRILL	L LGTH	L1 LGTH	M LGTH	Y FLATS
2612-02-02-04-FG	1/4	1/8-27	1/8-27	7/16-20	0.172	0.66	0.66	1.08	0.562
2612-04-04-06-FG	3/8	1/4-18	1/4-18	9/16-18	0.297	0.880	0.880	1.230	0.750
2612-06-06-08-FG	1/2	3/8-18	3/8-18	3/4-16	0.391	1.020	1.020	1.420	0.875
2612-08-08-08-FG	1/2	1/2-14	1/2-14	3/4-16	0.391	1.23	1.23	1.52	1.062
2612-12-12-12-FG	3/4	3/4-14	3/4-14	1-1/16-12	0.609	1.360	1.360	1.890	1.312
2612-16-16-16-FG	1	1-11-1/2	1-11-1/2	1-5/16-12	0.844	1.620	1.620	2.170	1.625

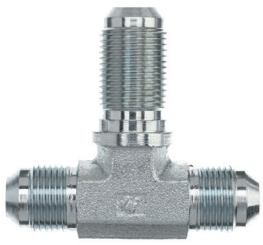
2613-FG MP-FP-MJ TEE

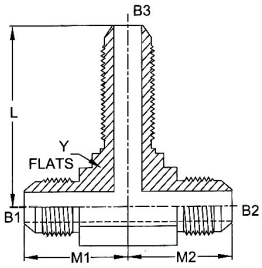




PART NO.	TUBE O.D.	A1 NPTF	A2 NPTF	B3 SAE 37Deg	A1 DRILL	B3 DRILL	L LGTH	L1 LGTH	M LGTH	Y FLATS
2613-02-02-04-FG	1/4	1/8-27	1/8-27	7/16-20	0.188	0.172	0.780	0.660	1.080	0.562
2613-04-04-04-FG	1/4	1/4-18	1/4-18	7/16-20	0.281	0.172	1.090	0.880	1.220	0.750
2613-04-04-06-FG	3/8	1/4-18	1/4-18	9/16-18	0.281	0.297	1.090	0.880	1.230	0.750
2613-06-06-06-FG	3/8	3/8-18	3/8-18	9/16-18	0.406	0.297	1.220	1.020	1.310	0.875
2613-06-06-08-FG	1/2	3/8-18	3/8-18	3/4-16	0.406	0.391	1.22	1.02	1.42	0.875
2613-08-08-10-FG	5/8	1/2-14	1/2-14	7/8-14	0.531	0.484	1.47	1.23	1.64	1.062
2613-12-12-12-FG	3/4	3/4-14	3/4-14	1-1/16-12	0.719	0.609	1.59	1.36	1.89	1.312
2613-16-16-16-FG	1	1-11-1/2	1-11-1/2	1-5/16-12	0.938	0.844	1.97	1.62	2.17	1.625

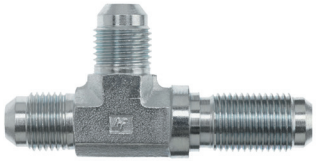
2703-FG MJ-MJ-MJ BULKHEAD BRANCH TEE

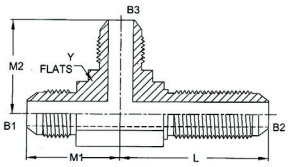




PART NO.	TUBE O.D.	B1 SAE 37	B2 SAE 37	B3 SAE 37	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	M2 LGTH	L LGTH	Y FLATS
2703-03-03-03-FG	3/16	3/8-24	3/8-24	3/8-24	0.125	0.125	0.125	0.94	0.94	1.50	0.438
2703-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.970	0.970	1.590	0.438
2703-04-04-06-FG	1/4	7/16-20	7/16-20	9/16-18	0.172	0.172	0.297	1.08	1.08	1.81	0.562
2703-05-05-05-FG	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	1.06	1.06	1.72	0.562
2703-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.090	1.090	1.810	0.562
2703-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.360	1.360	2.110	0.750
2703-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.56	1.56	2.39	0.875
2703-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.78	1.78	2.67	1.062
2703-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.94	1.94	2.80	1.312
2703-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.17	2.17	3.12	1.625
2703-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.34	2.34	3.42	1.875
2703-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	2.890	2.890	4.110	2.500

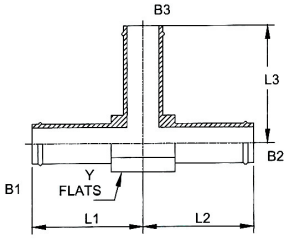
2704-FG MJ-MJ-MJ BULKHEAD RUN TEE





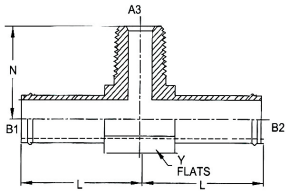
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	L LGTH	M2 LGTH	Y FLATS
2704-03-03-03-FG	3/16	3/8-24	3/8-24	3/8-24	0.125	0.125	0.125	0.94	1.50	0.94	0.438
2704-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.97	1.59	0.97	0.438
2704-05-05-05-FG	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	1.06	1.72	1.06	0.562
2704-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.090	1.810	1.090	0.562
2704-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.36	2.11	1.36	0.750
2704-08-10-08-FG	1/2	3/4-16	7/8-14	3/4-16	0.391	0.391	0.391	1.44	2.39	1.44	0.875
2704-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.56	2.39	1.56	0.875
2704-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.780	2.670	1.780	1.062
2704-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.94	2.80	1.94	1.312
2704-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.170	3.120	2.170	1.625
2704-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.34	3.42	2.34	1.875

4504-FG HB-HB-HB TEE



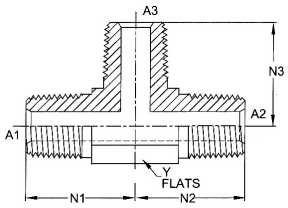
PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B3 TUBE O.D.	B1 DRILL	B2 DRILL	B3 DRILL	L1 LGTH	L2 LGTH	L3 LGTH	Y FLATS
4504-06-06-06-FG	3/8	3/8	3/8	0.297	0.297	0.297	1.812	1.812	1.812	0.562
4504-04-04-04-FG	1/4	1/4	1/4	0.189	0.189	0.189	1.75	1.75	1.75	0.500
4504-08-08-08-FG	1/2	1/2	1/2	0.406	0.406	0.406	1.98	1.98	1.98	0.812

4506 HB-HB-MP TEE



PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	A3 NPTF	L LGTH	M.M.	NJ LGTH	M.M.	Y FLATS	Y FLATS	M.M.
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

5600-FG MP-MP-MP TEE (AS CODED PER SAE J846)



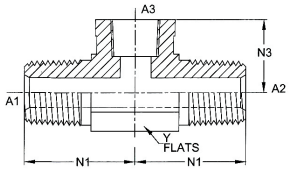
PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A1 DRILL	A2 DRILL	A3 DRILL	N1 LGTH	N2 LGTH	N3 LGTH	Y FLATS
5600-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.188	0.188	0.188	0.78	0.78	0.78	0.438
5600-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.281	0.281	0.281	1.09	1.09	1.09	0.562
5600-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.406	0.406	0.406	1.22	1.22	1.22	0.750
5600-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.531	0.531	0.531	1.47	1.47	1.47	0.875

Continued...

PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A1 DRILL	A2 DRILL	A3 DRILL	N1 LGTH	N2 LGTH	N3 LGTH	Y FLATS
5600-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.719	0.719	0.719	1.590	1.590	1.590	1.062
5600-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	0.938	0.938	0.938	1.97	1.97	1.97	1.312
5600-20-20-20-FG	1-1/4-11-1/2	1-1/4-11-1/2	1-1/4-11-1/2	1.250	1.250	1.250	2.380	2.380	2.380	1.625
5600-24-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	1-1/2-11-1/2	1.500	1.500	1.500	2.640	2.640	2.640	1.875
5600-32-32-32-FG	2-11 1/2	2-11 1/2	2-11 1/2	1.938	1.938	1.938	3.00	3.00	3.00	2.500

5601-FG

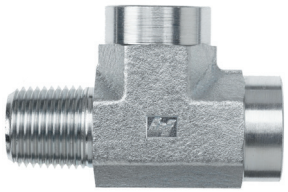
MP-MP-FP TEE (AS CODED PER SAE J846)

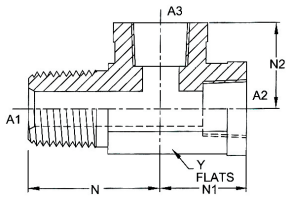


PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A1 DRILL	A2 DRILL	N1 LGTH	N2 LGTH	N3 LGTH	Y FLATS
5601-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.188	0.188	0.780	0.780	0.660	0.562
5601-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.281	0.281	1.09	1.09	0.88	0.750
5601-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.406	0.406	1.220	1.220	1.020	0.875
5601-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.531	0.531	1.470	1.470	1.230	1.062
5601-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.719	0.719	1.59	1.59	1.36	1.312
5601-16-16-16-FG	1-11-1/2	1-11-1/2	1-11-1/2	0.938	0.938	1.970	1.970	1.620	1.625
5601-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.250	2.38	2.38	1.70	1.875
5601-24-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.500	1.500	2.64	2.64	2.08	2.562
5601-32-32-32-FG	2-11-1/2	2-11-1/2	2-11-1/2	1.938	1.938	3.000	3.000	2.390	2.812

5602-FG

MP-FP-FP STREET TEE

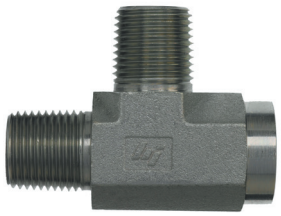


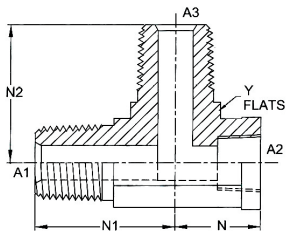


PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A1 DRILL	N LGTH	N1 LGBTH	N2 LGTH	Y FLATS
5602-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.188	0.78	0.66	0.66	0.562
5602-02-02-04-FG	1/8-27	1/8-27	1/4-18	0.188	0.900	0.670	0.880	0.750
5602-02-04-04-FG	1/8-27	1/4-18	1/4-18	0.188	0.900	0.880	0.880	0.750
5602-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.281	1.09	0.88	0.88	0.750
5602-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.406	1.22	1.02	1.02	0.875
5602-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.531	1.470	1.230	1.230	1.062
5602-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.719	1.590	1.360	1.360	1.312
5602-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	0.938	1.970	1.620	1.620	1.625
5602-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.25	2.38	1.70	1.70	1.875
5602-24-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1.5	2.64	2.08	2.08	2.562
5602-32-32-32-FG	2-11-1/2	2-11-1/2	2-11-1/2	1.938	3.000	2.390	2.390	2.812

5603-FG

MP-FP-MP TEE



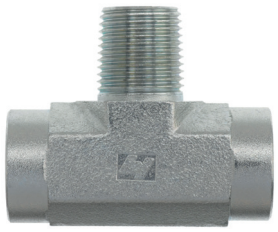


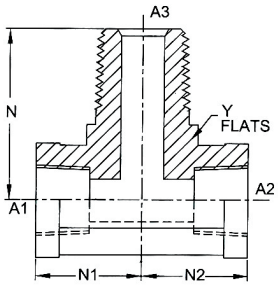
PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A1 DRILL	A3 DRILL	N1 LGTH	N LGTH	N2 LGTH	Y FLATS
5603-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.188	0.188	0.780	0.660	0.780	0.562
5603-02-04-02-FG	1/8-27	1/4-18	1/8-27	0.188	0.188	0.90	0.88	0.90	0.750
5603-04-02-04-FG	1/4-18	1/8-27	1/4-18	0.281	0.281	1.090	0.670	1.090	0.562
5603-04-04-02-FG	1/4-18	1/4-18	1/8-27	0.281	0.188	1.090	0.880	0.900	0.750
5603-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.281	0.281	1.09	0.88	1.09	0.750
5603-04-06-04-FG	1/4-18	3/8-18	1/4-18	0.281	0.281	1.220	1.020	1.220	0.875

Continued...

PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A1 DRILL	A3 DRILL	N1 LGTH	N LGTH	N2 LGTH	Y FLATS
5603-06-04-06-FG	3/8-18	1/4-18	3/8-18	0.406	0.406	1.220	1.010	1.220	0.875
5603-06-06-04-FG	3/8-18	3/8-18	1/4-18	0.406	0.281	1.220	1.220	1.220	0.875
5603-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.406	0.406	1.220	1.020	1.220	0.875
5603-06-08-06-FG	3/8-18	1/2-14	3/8-18	0.406	0.406	1.280	1.230	1.280	1.062
5603-08-06-08-FG	1/2-14	3/8-18	1/2-14	0.531	0.531	1.470	1.020	1.470	0.875
5603-08-08-06-FG	1/2-14	1/2-14	3/8-18	0.531	0.406	1.470	1.230	1.280	1.062
5603-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.531	0.531	1.470	1.230	1.470	1.062
5603-08-12-08-FG	1/2-14	3/4-14	1/2-14	0.531	0.531	1.590	1.360	1.590	1.312
5603-12-08-12-FG	3/4-14	1/2-14	3/4-14	0.719	0.719	1.590	1.230	1.590	1.062
5603-12-12-08-FG	3/4-14	3/4-14	1/2-14	0.719	0.531	1.59	1.36	1.59	1.312
5603-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.719	0.719	1.590	1.360	1.590	1.312
5603-16-16-16-FG	1-11-1/2	1-11-1/2	1-11-1/2	0.938	0.938	1.970	1.620	1.970	1.625
5603-20-20-20-FG	1-1/4-11-1/2	1-1/4-11-1/2	1-1/4-11-1/2	1.250	1.250	2.38	1.70	2.38	1.875
5603-24-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	1-1/2-11-1/2	1.500	1.500	2.64	2.08	2.64	2.562

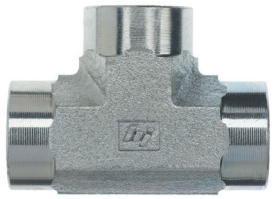
5604-FG FP-FP-MP BRANCH TEE

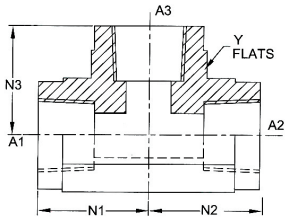




PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A3 DRILL	N1 LGTH	N2 LGTH	N LGTH	Y FLATS
5604-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.188	0.660	0.660	0.780	0.562
5604-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.281	0.88	0.88	1.09	0.750
5604-06-06-06-FG	3/8-18	3/8-18	3/8-18	0.406	1.020	1.020	1.220	0.875
5604-08-08-08-FG	1/2-14	1/2-14	1/2-14	0.531	1.230	1.230	1.470	1.062
5604-12-12-08-FG	3/4-14	3/4-14	1/2-14	0.531	1.36	1.36	1.59	1.312
5604-12-12-12-FG	3/4-14	3/4-14	3/4-14	0.719	1.36	1.36	1.59	1.312
5604-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	0.938	1.620	1.620	1.970	1.625
5604-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.250	1.700	1.700	2.380	1.875
5604-24-24-24-FG	1-1/2-11-1/2	1-1/2-11-1/2	1-1/2-11-1/2	1.500	2.080	2.080	2.640	2.562
5604-32-32-32-FG	2-11-1/2	2-11-1/2	2-11-1/2	1.938	2.390	2.390	3.000	2.812

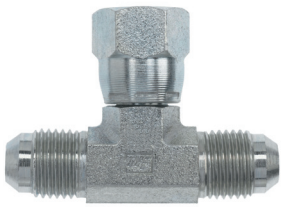
5605-FG FP-FP-FP TEE

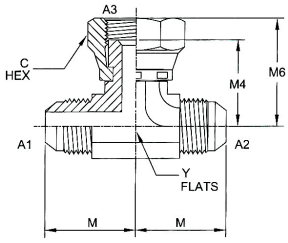




PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	N1 LGTH	N2 LGTH	N3 LGTH	Y FLATS
5605-02-02-02-FG	1/8-27	1/8-27	1/8-27	0.66	0.66	0.66	0.562
5605-04-04-02-FG	1/4-18	1/4-18	1/8-27	0.88	0.88	0.88	0.750
5605-04-04-04-FG	1/4-18	1/4-18	1/4-18	0.88	0.88	0.88	0.750
5605-04-04-06-FG	1/4-18	1/4-18	3/8-18	1.02	1.02	1.02	0.875
5605-06-06-06-FG	3/8-18	3/8-18	3/8-18	1.02	1.02	1.02	0.875
5605-06-06-08-FG	3/8-18	3/8-18	1/2-14	1.23	1.23	1.23	1.062
5605-08-08-08-FG	1/2-14	1/2-14	1/2-14	1.23	1.23	1.23	1.062
5605-12-12-12-FG	3/4-14	3/4-14	3/4-14	1.36	1.36	1.36	1.312
5605-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	1.620	1.620	1.620	1.625
5605-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1.70	1.70	1.875
5605-24-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.08	2.08	2.562
5605-32-32-32-FG	2-11 1/2	2-11 1/2	2-11 1/2	2.39	2.39	2.39	2.812

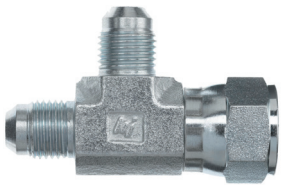
6600-FG MJ-MJ-FJS TEE

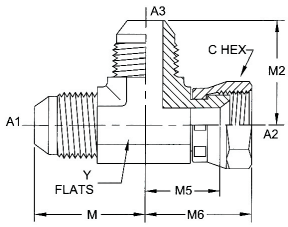




PART NO.	TUBE O.D.	A1 SAE 37Deg	A2 SAE 37Deg	A3 SAE 37Deg	A1 DRILL	A2 DRILL	A3 DRILL	M LGTH	M4 LGTH	M6 LGTH	C HEX	Y FLATS
6600-03-03-03-FG	3/16	3/8-24	3/8-24	3/8-24	0.125	0.125	0.125	0.830	0.660	1.000	0.500	0.438
6600-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.89	0.65	1.00	0.563	0.438
6600-05-05-05-FG	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	0.95	0.68	1.06	0.625	0.562
6600-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.06	0.87	1.25	0.688	0.562
6600-06-06-08-FG	3/8	9/16-18	9/16-18	3/4-16	0.297	0.297	0.391	1.140	0.950	1.380	0.875	0.750
6600-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.25	0.95	1.38	0.875	0.750
6600-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.450	1.120	1.620	1.000	0.875
6600-12-12-10-FG	3/4	1-1/16-12	1-1/16-12	7/8-14	0.609	0.609	0.484	1.66	1.130	1.630	1.000	1.062
6600-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.66	1.18	1.75	1.250	1.062
6600-14-14-14-FG	7/8	1-3/16-12	1-3/16-12	1-3/16-12	0.719	0.719	0.719	1.80	1.20	1.78	1.375	1.312
6600-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.81	1.40	2.00	1.500	1.312
6600-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.06	1.67	2.31	2.000	1.625
6600-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.330	1.870	2.590	2.250	1.875
6600-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	3.06	2.43	3.38	2.875	2.500

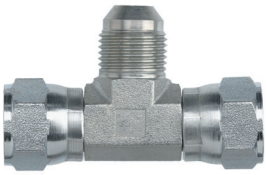
6602-FG MJ-FJS-MJ TEE

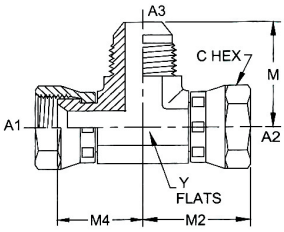




PART NO.	A1 TUBE O.D.	A2 TUBE O.D.	A1 SAE 37Deg	A2 SAE 37Deg	A3 SAE 37Deg	A1 DRILL	A2 DRILL	A3 DRILL	M LGTH	M5 LGTH	M6 LGTH	M2 LGTH	C HEX	Y HEX
6602-03-03-03-FG	3/16	3/16	3/8-24	3/8-24	3/8-24	0.125	0.125	0.125	0.83	0.67	1.00	0.83	0.500	0.438
6602-04-04-04-FG	1/4	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.89	0.65	1.00	0.89	0.563	0.438
6602-04-06-06-FG	1/4	3/8	7/16-20	9/16-18	9/16-18	0.172	0.172	0.297	1.050	0.875	1.250	1.060	0.688	0.562
6602-04-10-10-FG	1/4	5/8	7/16-20	7/8-14	7/8-14	0.172	0.484	0.484	1.21	1.05	1.62	1.45	1.000	0.875
6602-04-12-12-FG	1/4	3/4	7/16-20	1-1/16-12	1-1/16-12	0.172	0.609	0.609	1.30	1.18	1.75	1.66	1.250	1.062
6602-05-05-05-FG	5/16	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	0.95	0.68	1.06	0.95	0.625	0.562
6602-06-06-04-FG	3/8	1/4	9/16-18	9/16-18	7/16-20	0.297	0.297	0.172	1.060	0.875	1.250	1.050	0.688	0.562
6602-06-06-06-FG	3/8	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.060	0.875	1.250	1.060	0.687	0.562
6602-06-08-06-FG	3/8	1/2	9/16-18	3/4-16	9/16-18	0.297	0.391	0.297	1.140	0.950	1.380	1.140	0.875	0.750
6602-06-08-08-FG	3/8	1/2	9/16-18	3/4-16	3/4-16	0.297	0.391	0.391	1.140	0.950	1.380	1.250	0.875	0.750
6602-08-08-04-FG	1/2	1/2	3/4-16	3/4-16	7/16-20	0.391	0.391	0.172	1.250	0.950	1.380	1.120	0.875	0.750
6602-08-08-05-FG	1/2	5/16	3/4-16	3/4-16	1/2-20	0.391	0.391	0.234	1.25	0.95	1.38	1.12	0.875	0.750
6602-08-08-06-FG	1/2	3/8	3/4-16	3/4-16	9/16-18	0.391	0.391	0.297	1.25	0.95	1.38	1.14	0.875	0.750
6602-08-08-08-FG	1/2	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.25	0.95	1.38	1.25	0.875	0.750
6602-08-08-12-FG	1/2	3/4	3/4-16	3/4-16	1-1/16-12	0.391	0.391	0.609	1.420	1.130	1.550	1.660	0.875	1.062
6602-08-12-12-FG	1/2	3/4	3/4-16	1-1/16-12	1-1/16-12	0.391	0.609	0.609	1.42	1.18	1.75	1.66	1.250	1.062
6602-08-20-20-FG	1/2	1-1/4	3/4-16	1-5/8-12	1-5/8-12	0.391	1.078	1.078	1.72	1.67	2.31	2.06	2.000	1.625
6602-10-10-10-FG	5/8	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.45	1.12	1.62	1.45	1.000	0.875
6602-10-10-12-FG	5/8	3/4	7/8-14	7/8-14	1-1/16-12	0.484	0.484	0.609	1.54	1.15	1.66	1.66	1.000	1.062
6602-12-12-04-FG	3/4	1/4	1-1/16-12	1-1/16-12	7/16-20	0.609	0.609	0.172	1.66	1.18	1.75	1.30	1.250	1.062
6602-12-12-12-FG	3/4	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.66	1.18	1.75	1.66	1.250	1.062
6602-14-14-14-FG	7/8	7/8	1-3/16-12	1-3/16-12	1-3/16-12	0.719	0.719	0.719	1.800	1.200	1.780	1.800	1.375	1.312
6602-16-16-12-FG	1	3/4	1-5/16-12	1-5/16-12	1-1/16-12	0.844	0.844	0.609	1.81	1.40	2.00	1.76	1.500	1.312
6602-16-16-16-FG	1	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.81	1.40	2.00	1.81	1.500	1.312
6602-16-20-20-FG	1	1-1/4	1-5/16-12	1-5/16-12	1-5/8-12	0.844	1.078	1.078	2.01	1.67	2.31	2.06	2.000	1.625
6602-20-20-20-FG	1-1/4	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.060	1.685	2.310	2.060	2.000	1.625
6602-24-24-24-FG	1-1/2	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.330	1.870	2.590	2.330	2.250	1.875
6602-32-32-32-FG	2	2	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	3.060	2.430	3.380	3.060	2.875	2.500

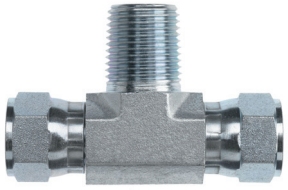
6603-FG FJS-FJS-MJ TEE

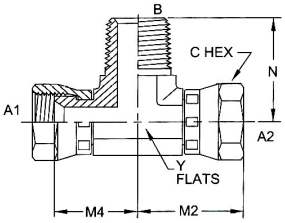




PART NO.	TUBE O.D.	A1 SAE 37Deg	A2 SAE 37Deg	A3 SAE 37Deg	A1 DRILL	A2 DRILL	A3 DRILL	M4 LGTH	M2 LGTH	M LGTH	C HEX	Y FLATS
6603-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.65	1.0029	0.89	0.563	0.438
6603-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	0.870	1.250	1.060	0.688	0.562
6603-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	0.95	1.38	1.25	0.875	0.750
6603-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.12	1.62	1.45	1.000	0.875
6603-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.18	1.75	1.66	1.250	1.062
6603-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.40	2.00	1.81	1.500	1.312
6603-20-20-20-FG	1 1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	1.685	2.310	2.059	2.000	1.625
6603-24-24-24-FG	1 1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.311	1.311	1.311	1.854	2.590	2.331	2.250	1.875

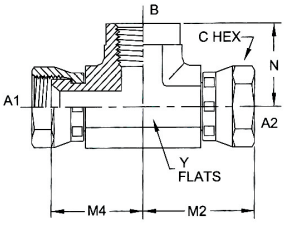
6604-FG FJS-FJS-MP TEE





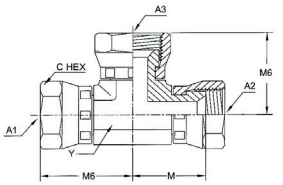
PART NO.	TUBE O.D.	A1 SAE 37Deg	A2 SAE 37Deg	B NPTF	A1 DRILL	A2 DRILL	B DRILL	M4 LGTH	M2 LGTH	N LGTH	C HEX	Y FLATS
6604-04-04-04-FG	1/4	7/16-20	7/16-20	1/4-18	0.172	0.172	0.281	0.790	1.130	1.090	0.562	0.562
6604-06-06-06-FG	3/8	9/16-18	9/16-18	3/8-18	0.297	0.297	0.406	0.900	1.280	1.220	0.688	0.750
6604-08-08-08-FG	1/2	3/4-16	3/4-16	1/2-14	0.391	0.391	0.531	1.080	1.510	1.470	0.875	0.875
6604-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	3/4-14	0.609	0.609	0.719	1.18	1.75	1.59	1.250	1.062
6604-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-11-1/2	0.844	0.844	0.938	1.40	2.00	1.97	1.500	1.312

6605-FG FJS-FJS-FP TEE



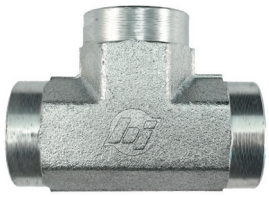
PART NO.	TUBE O.D.	A1 SAE 37Deg	A2 SAE 37Deg	BNPTF	A1 DRILL	A2 DRILL	M4 LGTH	M2 LGTH	N LGTH	C HEX	Y FLATS
6605-04-04-04-FG	1/4	7/16-20	7/16-20	1/4-18	0.172	0.172	0.830	1.180	0.880	0.563	0.750

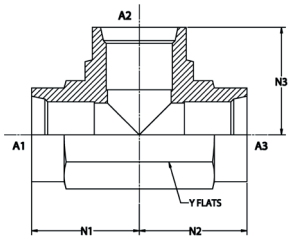
6606-FG FJS-FJS-FJS TEE



PART NO.	TUBE O.D.	A1 SAE 37Deg	A2 SAE 37Deg	A3 SAE 37Deg	A1 DRILL	A2 DRILL	A3 DRILL	M LGTH	M6 LGTH	C HEX	Y FLATS
6606-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.65	1.00	0.563	0.438
6606-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	0.870	1.250	0.688	0.562
6606-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	0.950	1.380	0.875	0.750
6606-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.120	1.620	1.000	0.875
6606-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.180	1.750	1.250	1.062
6606-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.40	2.00	1.500	1.312

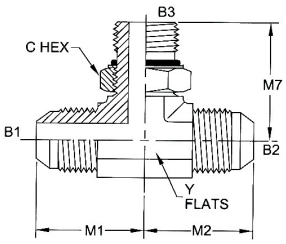
6660-FG FORB-FORB-FORB TEE





PART NO.	A1 FORB	A2 FORB	A3 FORB	N1 LENGTH	N2 LENGTH	N3 LENGTH	Y FLATS
6660-04-04-04-FG	7/16-20	7/16-20	7/16-20	0.740	0.740	0.740	0.750
6660-06-06-06-FG	9/16-18	9/16-18	9/16-18	0.860	0.860	0.860	0.750
6660-08-08-08-FG	3/4-16	3/4-16	3/4-16	1.030	1.030	1.030	1.062
6660-10-10-10-FG	7/8-14	7/8-14	7/8-14	1.180	1.180	1.180	1.062
6660-12-12-12-FG	1-1/16-12	1-1/16-12	1-1/16-12	1.390	1.390	1.390	1.312
6660-16-16-16-FG	1-5/16-12	1-5/16-12	1-5/16-12	1.520	1.520	1.520	1.625
6660-20-20-20-FG	1-5/8-12	1-5/8-12	1-5/8-12	1.700	1.700	1.700	2.000
6660-24-24-24-FG	1-7/8-12	1-7/8-12	1-7/8-12	2.080	2.080	2.080	2.562

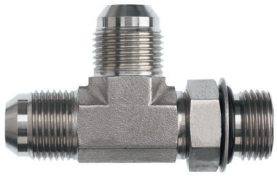
6803-NWO-FG MJ-MJ-MAORB BRANCH TEE

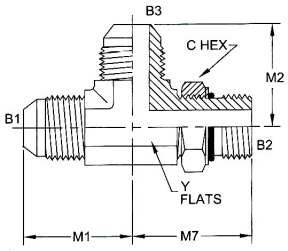


PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE ORB	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	M2 LGTH	M7 LGTH	C HEX	Y FLATS
6803-04-04-04-NWO-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.89	0.89	1.03	0.563	0.438
6803-04-04-06-NWO-FG	1/4	7/16-20	7/16-20	9/16-18	0.172	0.172	0.297	1.05	1.05	1.25	0.688	0.562
6803-05-05-05-NWO-FG	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	0.95	0.95	1.13	0.625	0.562
6803-06-06-04-NWO-FG	3/8	9/16-18	9/16-18	7/16-20	0.297	0.297	0.172	1.06	1.06	1.19	0.563	0.562
6803-06-06-06-NWO-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.06	1.06	1.25	0.688	0.562
6803-06-06-08-NWO-FG	3/8	9/16-18	9/16-18	3/4-16	0.297	0.297	0.391	1.140	1.140	1.450	0.875	0.750
6803-08-08-06-NWO-FG	1/2	3/4-16	3/4-16	9/16-18	0.391	0.391	0.297	1.25	1.25	1.32	0.688	0.750
6803-08-08-08-NWO-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.25	1.25	1.45	0.875	0.750
6803-08-08-10-NWO-FG	1/2	3/4-16	3/4-16	7/8-14	0.391	0.391	0.484	1.33	1.33	1.70	1.000	0.875
6803-08-08-12-NWO-FG	1/2	3/4-16	3/4-16	1-1/16-12	0.391	0.391	0.609	1.42	1.42	1.94	1.250	1.062
6803-10-10-08-NWO-FG	5/8	7/8-14	7/8-14	3/4-16	0.484	0.484	0.391	1.45	1.45	1.54	0.875	0.875
6803-10-10-10-NWO-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.45	1.45	1.70	1.000	0.875
6803-10-10-12-NWO-FG	5/8	7/8-14	7/8-14	1-1/16-12	0.484	0.484	0.609	1.540	1.540	1.940	1.250	1.062
6803-10-10-16-NWO-FG	5/8	7/8-14	7/8-14	1-5/16-12	0.484	0.484	0.844	1.64	1.64	2.05	1.500	1.312
6803-12-12-08-NWO-FG	3/4	1-1/16-12	1-1/16-12	3/4-16	0.609	0.609	0.391	1.660	1.660	1.620	0.875	1.062
6803-12-12-10-NWO-FG	3/4	1-1/16-12	1-1/16-12	7/8-14	0.609	0.609	0.484	1.660	1.660	1.780	1.000	1.062
6803-12-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.66	1.66	1.94	1.250	1.062
6803-12-12-16-NWO-FG	3/4	1-1/16-12	1-1/16-12	1-5/16-12	0.609	0.609	0.844	1.76	1.76	2.05	1.500	1.312
6803-14-14-14-NWO-FG	7/8	1-3/16-12	1-3/16-12	1-3/16-12	0.719	0.719	0.719	1.80	1.80	2.00	1.375	1.312
6803-16-12-16-NWO-FG	1	1-5/16-12	1-1/16-12	1-5/16-12	0.844	0.609	0.844	1.81	1.76	2.05	1.500	1.312
6803-16-16-12-NWO-FG	1	1-5/16-12	1-5/16-12	1-1/16-12	0.844	0.844	0.609	1.810	1.810	2.050	1.250	1.312
6803-16-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.81	1.81	2.05	1.500	1.312
6803-20-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.06	2.06	2.25	1.875	1.625
6803-24-24-24-NWO-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.33	2.33	2.39	2.125	1.875
6803-32-32-32-NWO-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	3.060	3.060	2.890	2.750	2.500

6804-NWO-FG

MJ-MAORB-MJ RUN TEE

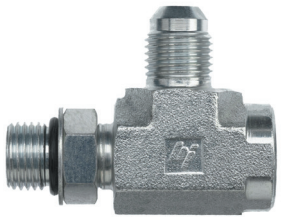


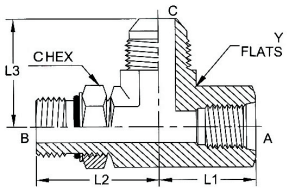


PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE ORB	B3 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	M7 LGTH	M2 LGTH	C HEX	Y FLATS
6804-04-04-04-NWO-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.89	1.03	0.89	0.563	0.438
6804-04-06-04-NWO-FG	1/4	7/16-20	9/16-18	7/16-20	0.172	0.297	0.172	1.050	1.250	1.050	0.688	0.562
6804-04-06-06-NWO-FG	1/4	7/16-20	9/16-18	9/16-18	0.172	0.297	0.297	1.050	1.250	1.060	0.688	0.562
6804-05-05-05-NWO-FG	5/16	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	0.95	1.13	0.95	0.625	0.562
6804-06-04-06-NWO-FG	3/8	9/16-18	7/16-20	9/16-18	0.297	0.172	0.297	1.06	1.19	1.06	0.563	0.562
6804-06-06-06-NWO-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	1.06	1.25	1.06	0.688	0.562
6804-06-08-06-NWO-FG	3/8	9/16-18	3/4-16	9/16-18	0.297	0.391	0.297	1.14	1.45	1.14	0.875	0.750
6804-06-08-08-NWO-FG	3/8	9/16-18	3/4-16	3/4-16	0.297	0.391	0.391	1.140	1.450	1.250	0.875	0.750
6804-08-06-06-NWO-FG	1/2	3/4-16	9/16-18	9/16-18	0.391	0.297	0.297	1.250	1.320	1.140	0.688	0.750
6804-08-06-08-NWO-FG	1/2	3/4-16	9/16-18	3/4-16	0.391	0.297	0.391	1.25	1.32	1.25	0.688	0.750
6804-08-08-04-NWO-FG	1/2	3/4-16	3/4-16	7/16-20	0.391	0.391	0.172	1.25	1.45	1.12	0.875	0.750
6804-08-08-08-NWO-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	1.25	1.45	1.25	0.875	0.750
6804-08-10-08-NWO-FG	1/2	3/4-16	7/8-14	3/4-16	0.391	0.484	0.391	1.33	1.70	1.33	1.000	0.875
6804-08-12-04-NWO-FG	1/2	3/4-16	1-1/16-12	7/16-20	0.391	0.609	0.172	1.42	1.94	1.30	1.250	1.062
6804-08-12-08-NWO-FG	1/2	3/4-16	1-1/16-12	3/4-16	0.391	0.609	0.391	1.420	1.940	1.420	1.250	1.062
6804-10-08-10-NWO-FG	5/8	7/8-14	3/4-16	7/8-14	0.484	0.391	0.484	1.450	1.540	1.450	0.875	0.875
6804-10-10-10-NWO-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	1.45	1.70	1.45	1.000	0.875
6804-10-12-06-NWO-FG	5/8	7/8-14	1-1/16-12	9/16-18	0.484	0.609	0.297	1.54	1.94	1.54	1.250	1.062
6804-10-12-10-NWO-FG	5/8	7/8-14	1-1/16-12	7/8-14	0.484	0.609	0.484	1.54	1.94	1.54	1.250	1.062
6804-12-08-12-NWO-FG	3/4	1-1/16-12	3/4-16	1-1/16-12	0.609	0.391	0.609	1.66	1.62	1.66	0.875	1.062
6804-12-10-12-NWO-FG	3/4	1-1/16-12	7/8-14	1-1/16-12	0.609	0.484	0.609	1.660	1.780	1.660	1.000	1.062
6804-12-12-06-NWO-FG	3/4	1-1/16-12	1-1/16-12	9/16-18	0.609	0.609	0.297	1.66	1.94	1.66	1.250	1.062
6804-12-12-08-NWO-FG	3/4	1-1/16-12	1-1/16-12	3/4-16	0.609	0.609	0.391	1.660	1.940	1.420	1.250	1.062
6804-12-12-10-NWO-FG	3/4	1-1/16-12	1-1/16-12	7/8-14	0.609	0.609	0.484	1.660	1.940	1.540	1.250	1.062
6804-12-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	1.66	1.94	1.66	1.250	1.062
6804-12-12-16-NWO-FG	3/4	1-1/16-12	1-1/16-12	1-5/16-12	0.609	0.609	0.844	1.76	2.05	1.76	1.250	1.312
6804-12-16-12-NWO-FG	3/4	1-1/16-12	1-5/16-12	1-1/16-12	0.609	0.844	0.609	1.760	2.050	1.760	1.500	1.312
6804-14-14-14-NWO-FG	7/8	1-3/16-12	1-3/16-12	1-3/16-12	0.719	0.719	0.719	1.80	2.00	1.80	1.375	1.312
6804-16-12-16-NWO-FG	1	1-5/16-12	1-1/16-12	1-5/16-12	0.844	0.609	0.844	1.810	2.050	1.810	1.250	1.312
6804-16-16-12-NWO-FG	1	1-5/16-12	1-5/16-12	1-1/16-12	0.844	0.844	0.609	1.81	2.05	1.76	1.500	1.312
6804-16-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	1.810	2.050	1.810	1.500	1.312
6804-20-20-20-NWO-FG	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	1.078	1.078	1.078	2.060	2.250	2.060	1.875	1.625
6804-24-24-24-NWO-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	2.330	2.390	2.330	2.125	1.875
6804-32-32-32-NWO-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	3.060	2.890	3.060	2.750	2.500
6804-02-02-02-NWO-FG	1/8	5/16-24	5/16-24	5/16-24	0.062	0.062	0.062	0.77	0.94	0.77	0.438	0.438
6804-02-04-02-NWO-FG	1/8	5/16-24	7/16-20	5/16-24	0.062	0.172	0.062	0.89	1.03	0.89	0.563	0.438

6820-NWO-FG

FORB-MAORB-MJ TEE

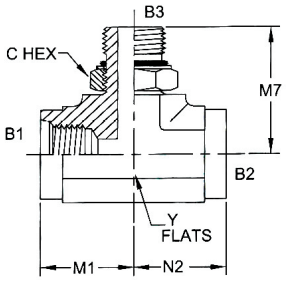




PART NO.	TUBE O.D.	A SAE ORB	B SAE ORB	C JIC 37Deg	B DRILL	C DRILL	L1 LGTH	L2 LGTH	L3 LGTH	C HEX	Y FLATS	
6820-06-06-06-NWO-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.297	0.75	1.38	1.22	0.688	0.875	Steel Forged
6820-06-12-12-NWO-FG	3/4	9/16-18	1-1/16-12	1-1/16-12	0.609	0.609	1.21	1.94	1.66	1.250	1.062	Steel Forged

6832-NWO-FG

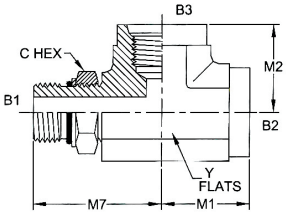
FORB-FORB-MAORB TEE



PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B3 SAE ORB	B3 DRILL	M1 LGTH	N2 LGTH	M7 LGTH	C HEX	Y FLATS	
6832-04-04-04-NWO-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	0.63	0.63	1.23	0.563	0.750	Steel Forged
6832-06-06-06-NWO-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	0.750	0.750	1.380	0.688	0.875	Steel Forged
6832-08-05-08-NWO-FG	1/2	3/4-16	1/2-20	3/4-16	0.391	0.88	0.88	1.59	0.875	1.062	Steel Forged
6832-08-08-08-NWO-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	0.880	0.880	1.590	0.875	1.062	Steel Forged
6832-10-10-10-NWO-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	1.020	1.020	1.810	1.000	1.062	Steel Forged
6832-12-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	1.210	1.210	2.000	1.250	1.312	Steel Forged
6832-16-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	1.33	1.33	2.25	1.500	1.625	Steel Forged
6832-20-20-20-NWO-FG	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	1.078	1.700	1.700	2.390	1.875	1.875	Steel

6835-NWO-FG

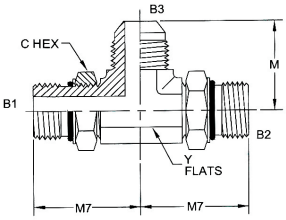
MAORB-FORB-FORB TEE



PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B3 SAE ORB	B1 DRILL	M7 LGTH	M1 LGH	M2 LGTH	C HEX	Y FLATS	
6835-04-04-04-NWO-FG	1/4	7/16-20	7/16-20	7/16-20	0.172	1.230	0.740	0.740	0.563	0.750	Steel Forged
6835-06-06-06-NWO-FG	3/8	9/16-18	9/16-18	9/16-18	0.297	1.380	0.750	0.750	0.688	0.875	Steel Forged
6835-08-08-08-NWO-FG	1/2	3/4-16	3/4-16	3/4-16	0.391	1.590	0.880	0.880	0.875	1.062	Steel Forged
6835-10-10-10-NWO-FG	5/8	7/8-14	7/8-14	7/8-14	0.484	1.810	1.180	1.180	1.000	1.062	Steel Forged
6835-12-12-12-NWO-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	0.609	2.00	1.39	1.39	1.250	1.312	Steel Forged
6835-16-16-16-NWO-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	0.844	2.250	1.520	1.520	1.500	1.625	Steel Forged
6835-20-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	2.390	1.800	1.800	1.875	1.875	Steel

6840-NWO-FG

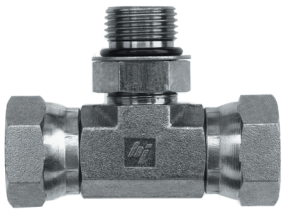
MAORB-MAORB-MJ TEE

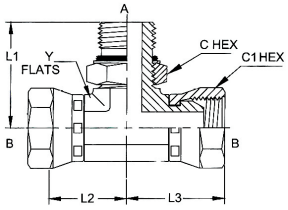


PART NO.	TUBE O.D.	B1 SAE ORB	B2 SAE ORB	B2 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	M7 LGTH	M LGTH	C HEX	Y FLATS	
6840-20-20-20-NWO-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	2.25	2.06	1.875	1.625	Steel Forged

6911-NWO-FG

MAORB-FPS-FPS TEE

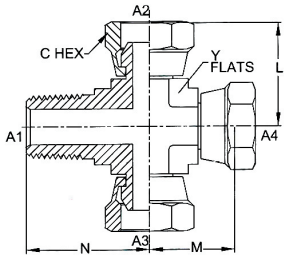




PART NO.	TUBE O.D.	A SAE ORB	B NPSM	B NPSM	A DRILL	B DRILL	B DRILL	L1 LGTH	L2 LGTH	L3 LGTH	C HEX	C1 HEX	Y FLATS
6911-08-08-08-NWO-FG	1/2	3/4-16	1/2-14	1/2-14	0.391	0.44	0.44	1.45	1.11	1.39	0.875	1.000	0.875
6911-10-12-12-NWO-FG	5/8	7/8-14	3/4-14	3/4-14	0.484	0.61	0.61	1.78	1.30	1.65	1.000	1.250	1.062

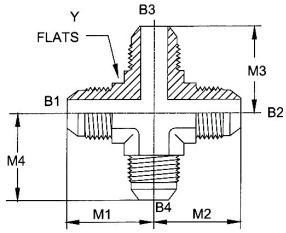
CROSSES

1604-FG MP-FPS-FPS-FPS CROSS



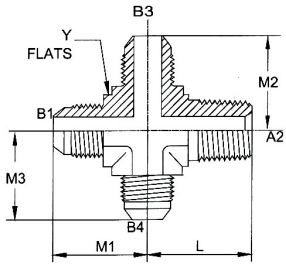
PART NO.	A1 NPTF	A2 NPSM	A3 NPSM	A4 NPSM	A1 DRILL	A2 DRILL	A3 DRILL	A4 DRILL	N LGTH	L LGTH	M LGTH	C HEX	Y FLATS
1604-04-04-04-04-FG	1/4-18	1/4-18	1/4-18	1/4-18	0.281	0.220	0.220	0.220	1.09	1.07	0.88	0.688	0.562

2650-FG MJ-MJ-MJ-MJ CROSS



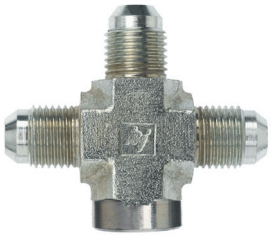
PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE 37Deg	B4 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	B4 DRILL	M1 LGTH	M2 LGTH	M3 LGTH	M4 LGTH	Y FLATS
2650-02-02-02-02-FG	1/8	5/16-24	5/16-24	5/16-24	5/16-24	0.062	0.062	0.062	0.062	0.77	0.77	0.77	0.77	0.438
2650-04-04-04-04-FG	1/4	7/16-20	7/16-20	7/16-20	7/16-20	0.172	0.172	0.172	0.172	0.89	0.89	0.89	0.89	0.438
2650-05-05-05-05-FG	5/16	1/2-20	1/2-20	1/2-20	1/2-20	0.234	0.234	0.234	0.234	0.950	0.950	0.950	0.950	0.562
2650-06-06-06-06-FG	3/8	9/16-18	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	0.297	1.06	1.06	1.06	1.06	0.562
2650-06-08-06-08-FG	3/8	9/16-18	3/4-16	9/16-18	3/4-16	0.297	0.391	0.297	0.391	1.14	1.25	1.14	1.25	0.75
2650-08-08-08-08-FG	1/2	3/4-16	3/4-16	3/4-16	3/4-16	0.391	0.391	0.391	0.391	1.25	1.25	1.25	1.25	0.75
2650-10-10-10-10-FG	5/8	7/8-14	7/8-14	7/8-14	7/8-14	0.484	0.484	0.484	0.484	1.45	1.45	1.45	1.45	0.875
2650-12-12-12-12-FG	3/4	1-1/16-12	1-1/16-12	1-1/16-12	1-1/16-12	0.609	0.609	0.609	0.609	1.660	1.660	1.660	1.660	1.062
2650-16-16-16-16-FG	1	1-5/16-12	1-5/16-12	1-5/16-12	1-5/16-12	0.844	0.844	0.844	0.844	1.81	1.81	1.81	1.81	1.312
2650-20-20-20-20-FG	1-1/4	1-5/8-12	1-5/8-12	1-5/8-12	1-5/8-12	1.078	1.078	1.078	1.078	2.06	2.06	2.06	2.06	1.625
2650-24-24-24-24-FG	1-1/2	1-7/8-12	1-7/8-12	1-7/8-12	1-7/8-12	1.312	1.312	1.312	1.312	2.33	2.33	2.33	2.33	1.875
2650-32-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	2-1/2-12	1.781	1.781	1.781	1.781	3.06	3.06	3.06	3.06	2.5

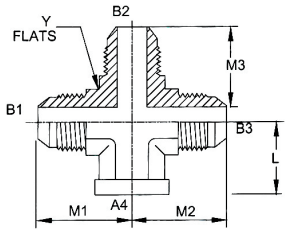
2651-FG MJ-MP-MJ-MJ CROSS



PART NO.	TUBE O.D.	B1 SAE 37Deg	A2 NPTF	B3 SAE 37Deg	B4 SAE 37Deg	B1 DRILL	A2 DRILL	B3 DRILL	B4 DRILL	M1 LGTH	L LGTH	M2 LGTH	M3 LGTH	Y FLATS
2651-04-04-04-04-FG	1/4	7/16-20	1/4-18	7/16-20	7/16-20	0.172	0.281	0.172	0.172	1.05	1.09	1.05	1.05	0.562
2651-06-04-06-06-FG	3/8	9/16-18	1/4-18	9/16-18	9/16-18	0.297	0.281	0.297	0.297	1.06	1.09	1.06	1.06	0.562
2651-06-06-06-06-FG	3/8	9/16-18	3/8-18	9/16-18	9/16-18	0.297	0.406	0.297	0.297	1.14	1.22	1.14	1.14	0.750
2651-08-08-08-08-FG	1/2	3/4-16	1/2-14	3/4-16	3/4-16	0.391	0.531	0.391	0.391	1.330	1.470	1.330	1.330	0.875
2651-12-12-12-12-FG	3/4	1-1/16-12	3/4-14	1-1/16-12	1-1/16-12	0.609	0.719	0.609	0.609	1.66	1.59	1.66	1.66	1.062
2651-16-16-16-16-FG	1	1-5/16-12	1-11-1/2	1-5/16-12	1-5/16-12	0.844	0.938	0.844	0.844	1.81	1.97	1.81	1.81	1.312

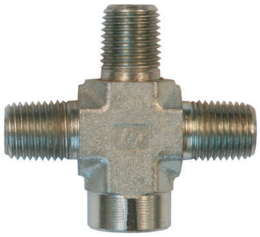
2652-FG MJ-MJ-MJ-FP CROSS

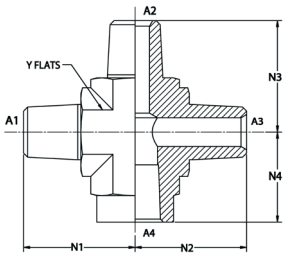




PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE 37Deg	A4 NPTF	B1 DRILL	B2 DRILL	B3 DRILL	M1 LGTH	M2 LGTH	M3 LGTH	L LGHT	Y FLATS
2652-10-10-10-08-FG	5/8	7/8-14	7/8-14	7/8-14	1/2-14	0.484	0.484	0.484	1.64	1.64	1.64	1.23	1.062

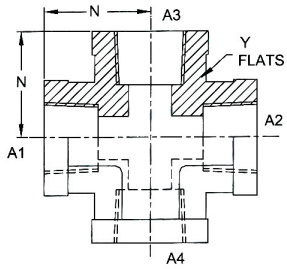
5651-FG MP-MP-MP-FP-CROSS





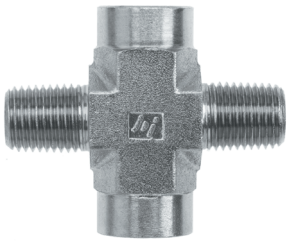
PART NO.	TUBE OD	A1 NPTF	A2 NPTF	A3 NPTF	A4 NPTF	A1 DRILL	A2 DRILL	A3 DRILL	N1 LENGTH	N2 LENGTH	N3 LENGTH	N4 LENGTH	Y FLATS
5651-04-04-04-04-FG	1/4	1/4-18	1/4-18	1/4-18	1/4-18	0.281	0.281	0.281	1.090	1.090	1.090	0.880	0.750

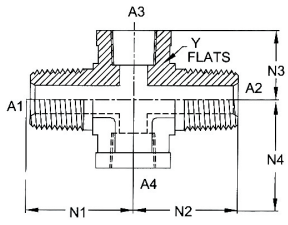
5652-FG FP-FP-FP-FP-CROSS



PART NO.	A1 NPTF	A2 NPTF	AD NPTF	A4 NPTF	N LGTH	Y FLATS
5652-02-02-02-02-FG	1/8-27	1/8-27	1/8-27	1/8-27	0.66	0.562
5652-04-04-04-04-FG	1/4-18	1/4-18	1/4-18	1/4-18	0.88	0.750
5652-06-06-06-06-FG	3/8-18	3/8-18	3/8-18	3/8-18	1.020	0.875
5652-08-08-08-08-FG	1/2-14	1/2-14	1/2-14	1/2-14	1.23	1.062
5652-12-12-12-12-FG	3/4-14	3/4-14	3/4-14	3/4-14	1.360	1.312
5652-16-16-16-16-FG	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	1.62	1.625
5652-20-20-20-20-FG	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1.70	1.875
5652-24-24-24-24-FG	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	2.08	2.561

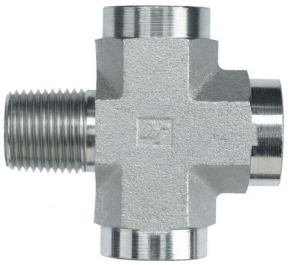
5653-FG MP-MP-FP-FP CROSS

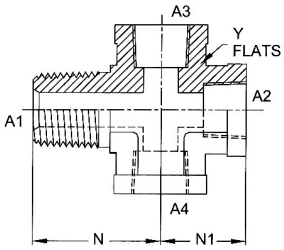




PART NO.	A1 NPTR	A2 NPTR	A3 NPTF	A4 NPTF	A1 DRILL	A2 DRILL	N1 LGTH	N2 LGTH	N3 LGTH	N4 LGTH	Y FLATS
5653-04-04-04-04-FG	1/4-18	1/4-18	1/4-18	1/4-18	0.281	0.281	1.090	1.090	0.880	0.880	0.750
5653-06-06-06-06-FG	3/8-18	3/8-18	3/8-18	3/8-18	0.406	0.406	1.220	1.220	1.020	1.020	0.875

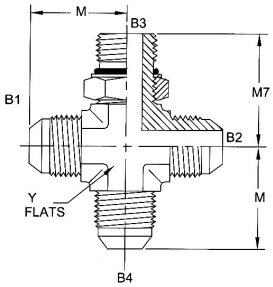
5655-FG MP-FP-FP-FP CROSS





PART NO.	A1 NPTF	A2 NPTF	A3 NPTF	A4 NPTF	A1 DRILL	N LGTH	N1 LGTH	Y FLATS
5655-04-04-04-04-FG	1/4-18	1/4-18	1/4-18	1/4-18	0.280	1.09	0.88	0.748
5655-06-06-06-06-FG	3/8-18	3/8-18	3/8-18	3/8-18	0.406	1.22	1.02	0.875
5655-08-08-08-08-FG	1/2-14	1/2-14	1/2-14	1/2-14	0.531	1.47	1.23	1.062
5655-12-12-12-12-FG	3/4-14	3/4-14	3/4-14	3/4-14	0.719	1.59	1.36	1.312
5655-16-16-16-16-FG	1-11-1/2	1-11-1/2	1-11-1/2	1-11-1/2	0.938	1.97	1.62	1.625
5655-20-16-08-08-FG	1-1/4-11-1/2	1-11-1/2	1/2-14	1/2-14	1.25	2.38	1.62	1.625

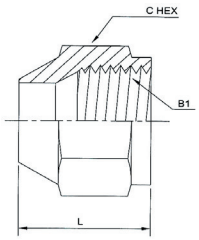
6850-NWO-FG MJ-MJ-MB-MJ CROSS



PART NO.	TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	B3 SAE ORB	B4 SAE 37Deg	B1 DRILL	B2 DRILL	B3 DRILL	B4 DRILL	M7 LGTH	M LGTH	C HEX	Y FLATS	
6850-06-06-04-06-NWO-FG	3/8	9/16-18	9/16-18	7/16-20	9/16-18	0.297	0.297	0.172	0.297	1.190	1.060	0.562	0.562	Steel Forged
6850-06-06-06-06-NWO-FG	3/8	9/16-18	9/16-18	9/16-18	9/16-18	0.297	0.297	0.297	0.297	1.25	1.06	0.688	0.562	Steel Forged

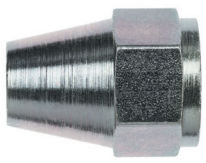
CAPS, PLUGS & NUTS

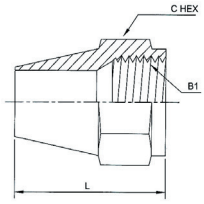
0302 SHORT NUT



PART NO.	TUBE O.D.	B1 THREAD	L LGTH	C HEX
0302-04	1/4	7/16-20	0.593	0.562
0302-05	5/16	1/2-20	0.593	0.625
0302-06	3/8	9/16-18	0.656	0.687
0302-08	1/2	3/4-16	0.812	0.875
0302-10	5/8	7/8-14	0.937	1.000
0302-12	3/4	1 1/16-12	1.140	1.250
0302-14	7/8	1 3/16-12	1.203	1.375
0302-16	1	1 5/16-12	1.281	1.500
0302-20	1-1/4	1 5/8-12	1.437	2.000
0302-24	1-1/2	1 7/8-12	1.562	2.250
0302-32	2	2 1/2-12	2.000	2.875

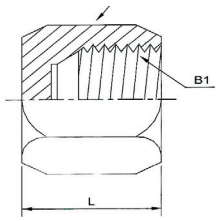
0304 STANDARD NUT





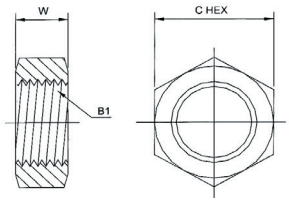
PART NO.	TUBE O.D.	B1 THREAD	L LGTH	C HEX
0304-03	3/16	3/8-24	0.94	0.438
0304-04	1/4	7/16-20	1.00	0.562
0304-05	5/16	1/2-20	1.06	0.625
0304-06	3/8	9/16-18	1.09	0.687
0304-08	1/2	3/4-16	1.28	0.875
0304-10	5/8	7/8-14	1.48	1.000
0304-12	3/4	1 1/16-12	1.660	1.250
0304-14	7/8	1 3/16-12	1.81	1.375
0304-16	1	1-5/16-12	1.940	1.500
0304-20	1-1/4	1 5/8-12	2.190	2.000
0304-24	1-1/2	1-7/8-12	2.310	2.250
0304-32	2	2 1/2-12	2.75	2.875

0304-C JIC CAP NUT



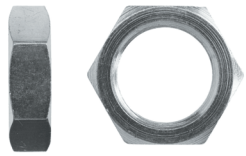
PART NO.	TUBE O.D.	B1 THREAD	L LGTH	C HEX
0304-C-02	1/8	5/16-24	0.500	0.375
0304-C-03	3/16	3/8-24	0.562	0.438
0304-C-04	1/4	7/16-20	0.594	0.562
0304-C-05	5/16	1/2-20	0.609	0.625
0304-C-06	3/8	9/16-18	0.625	0.687
0304-C-08	1/2	3/4-16	0.750	0.875
0304-C-10	5/8	7/8-14	0.844	1.000
0304-C-12	3/4	1 1/16-12	0.906	1.250
0304-C-14	7/8	1-3/16-12	0.969	1.375
0304-C-16	1	1 5/16-12	1.016	1.500
0304-C-20	1-1/4	1 5/8-12	1.062	2.000
0304-C-24	1-1/2	1-7/8-12	1.188	2.250
0304-C-32	2	2 1/2-12	1.440	2.880
0304-C-40	2 1/2	3-12	1.220	3.500
0304-C-48				

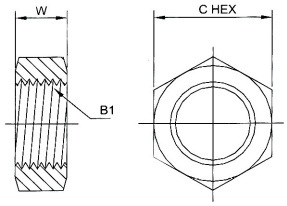
0306 BULKHEAD LOCK NUT



PART NO.	TUBE O.D.	B1 THREAD	W WIDTH	C HEX
0306-02	1/8	5/16-24	0.22	0.562
0306-03	3/16	3/8-24	0.22	0.625
0306-04	1/4	7/16-20	0.28	0.687
0306-05	5/16	1/2-20	0.280	0.750
0306-06	3/8	9/16-18	0.27	0.812
0306-08	1/2	3/4-16	0.31	1.000
0306-10	5/8	7/8-14	0.36	1.125
0306-12	3/4	1 1/16-12	0.41	1.375
0306-14	7/8	1 3/16-12	0.41	1.500
0306-16	1	1 5/16-12	0.41	1.625
0306-20	1-1/4	1 5/8-12	0.41	1.875
0306-24	1-1/2	1 7/8-12	0.41	2.125
0306-32	2	2-1/2-12	0.410	2.750

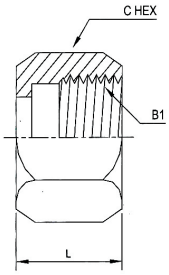
0306-N ADJUSTABLE NUT (NWO STYLE)





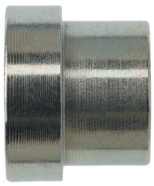
PART NO.	TUBE O.D.	B1 THREAD	W WIDTH	C HEX
0306-N-03	3/16	3/8-24	0.22	0.500
0306-N-04	1/4	7/16-20	0.28	0.562
0306-N-05	5/16	1/2-20	0.28	0.625
0306-N-06	3/8	9/16-18	0.27	0.687
0306-N-08	1/2	3/4-16	0.31	0.875
0306-N-10	5/8	7/8-14	0.36	1.000
0306-N-12	3/4	1 1/16-12	0.41	1.250
0306-N-14	7/8	1 3/16-12	0.41	1.375
0306-N-16	1	1 5/16-12	0.41	1.500
0306-N-20	1-1/4	1-5/8-12	0.41	1.875
0306-N-02	1/8	5/16-24	0.22	0.438

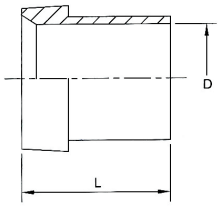
0318 JIC TUBE NUT



PART NO.	TUBE O.D.	B1 THREAD	L LGTH	C HEX
0318-02	1/8	5/16-24	0.550	0.375
0318-03	3/16	3/8-24	0.610	0.438
0318-04	1/4	7/16-20	0.620	0.562
0318-05	5/16	1/2-20	0.680	0.625
0318-06	3/8	9/16-18	0.730	0.687
0318-08	1/2	3/4-16	0.850	0.875
0318-10	5/8	7/8-14	0.980	1.000
0318-12	3/4	1 1/16-12	1.030	1.250
0318-14	7/8	1 3/16-12	1.090	1.375
0318-16	1	1 5/16-12	1.130	1.500
0318-20	1-1/4	1 5/8-12	1.230	2.000
0318-24	1-1/2	1-7/8-12	1.420	2.250
0318-32	2	2 1/2-12	1.750	2.875
0318-40	2-1/2	3-12	1.638	3.375

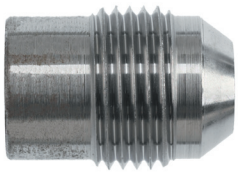
0319 JIC TUBE SLEEVE

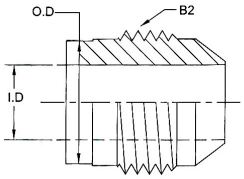




PART NO.	TUBE O.D.	L LGTH	D I.D.
0319-02	1/8	0.34	0.130
0319-03	3/16	0.34	0.193
0319-04	1/4	0.41	0.255
0319-05	5/16	0.44	0.318
0319-06	3/8	0.50	0.380
0319-08	1/2	0.56	0.505
0319-10	5/8	0.66	0.631
0319-12	3/4	0.68	0.756
0319-14	7/8	0.76	0.881
0319-16	1	0.78	1.006
0319-20	1-1/4	0.91	1.260
0319-24	1-1/2	1.12	1.510
0319-32	2	1.19	2.014
0319-40	2-1/2	1.250	2.520

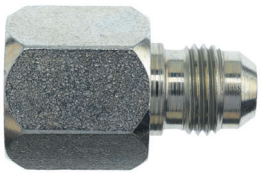
0403-TS MJ TUBE SPUD

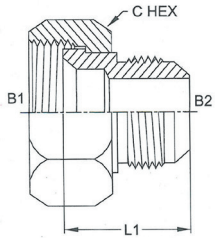




PART NO.	TUBE O.D.	B2 THREAD	O.D.	I.D.
0403-TS-04-04	1/4	7/16-20	0.361	0.172
0403-TS-06-06	3/8	9/16-18	0.471	0.297
0403-TS-08-08	1/2	3/4-16	0.628	0.391
0403-TS-10-10	5/8	7/8-14	0.752	0.484
0403-TS-12-12	3/4	1 1/16-12	0.862	0.609
0403-TS-16-16	1	1-5/16-12	1.159	0.844
0403-TS-20-20	1-1/4	1 5/8-12	1.504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

2406-2PC FJ-MJ STRAIGHT REDUCER (NUT & INSERT)



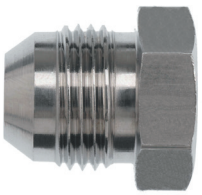


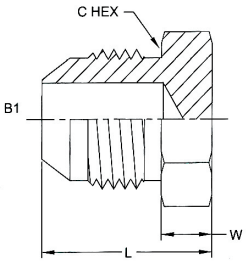
PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	L1 LGTH	C HEX
2406-06-04-2PC	3/8	1/4	9/16-18	7/16-20	0.97	0.688
2406-08-04-2PC	1/2	1/4	3/4-16	7/16-20	1.00	0.875
2406-08-06-2PC	1/2	3/8	3/4-16	9/16-18	1.00	0.875
2406-10-04-2PC	5/8	1/4	7/8-14	7/16-20	1.03	1.000

Continued...

PART NO.	B1 TUBE O.D.	B2 TUBE O.D.	B1 SAE 37Deg	B2 SAE 37Deg	L1 LGTH	C HEX
2406-10-06-2PC	5/8	3/8	7/8-14	9/16-18	1.03	1.000
2406-12-04-2PC	3/4	1/4	1-1/16-12	7/16-20	1.09	1.250
2406-12-06-2PC	3/4	3/8	1-1/16-12	9/16-18	1.09	1.250
2406-12-08-2PC	3/4	1/2	1-1/16-12	3/4-16	1.19	1.250
2406-14-10-2PC	7/8	5/8	1-3/16-12	7/8-14	1.33	1.375
2406-16-04-2PC	1	1/4	1-5/16-12	7/16-20	1.22	1.500
2406-16-06-2PC	1	3/8	1-5/16-12	9/16-18	1.22	1.500
2406-16-08-2PC	1	1/2	1-5/16-12	3/4-16	1.27	1.500
2406-16-10-2PC	1	5/8	1-5/16-12	7/8-14	1.38	1.500
2406-16-12-2PC	1	3/4	1-5/16-12	1-1/16-12	1.47	1.500
2406-20-12-2PC	1-1/4	3/4	1-5/8-12	1-1/16-12	1.53	2.000
2406-20-16-2PC	1-1/4	1	1-5/8-12	1-5/16-12	1.59	2.000
2406-24-20-2PC	1-1/2	1-1/4	1-7/8-12	1-5/8-12	1.69	2.250

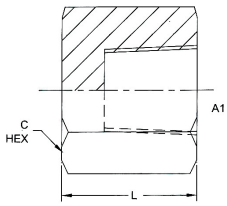
2408 MJ PLUG





PART NO.	TUBE O.D.	B1 SAE 37Deg	L LGTH	W WIDTH	C HEX
2408-02	1/8	5/16-24	0.700	0.252	0.438
2408-03	3/16	3/8-24	0.730	0.251	0.438
2408-04	1/4	7/16-20	0.800	0.250	0.500
2408-05	5/16	1/2-20	0.800	0.250	0.562
2408-06	3/8	9/16-18	0.840	0.284	0.625
2408-08	1/2	3/4-16	0.940	0.283	0.812
2408-10	5/8	7/8-14	1.100	0.342	0.937
2408-12	3/4	1 1/16-12	1.280	0.416	1.125
2408-14	7/8	1-3/16-12	1.310	0.420	1.250
2408-16	1	1 5/16-12	1.330	0.419	1.375
2408-20	1-1/4	1-5/8-12	1.450	0.490	1.688
2408-24	1 1/2	1 7/8-12	1.650	0.567	2.000
2408-32	2	2 1/2-12	2.050	0.717	2.625
2408-40	2-1/2	3-12	2.051	0.718	3.250

5406-C PIPE CAP

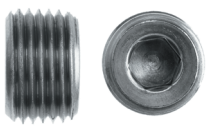


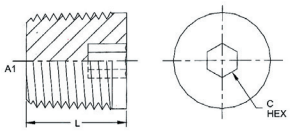
PART NO.	A1 NPTF	L LGTH	C HEX
5406-C-02	1/8-27	0.563	0.562
5406-C-04	1/4-18	0.81	0.750
5406-C-06	3/8-18	0.810	0.812
5406-C-08	1/2-14	1.000	1.000
5406-C-12	3/4-14	1.13	1.188
5406-C-16	1- 11 1/2	1.250	1.625

Continued...

PART NO.	A1 NPTF	L LGTH	C HEX
5406-C-20	1 1/4-11 1/2	1.250	2.000
5406-C-24	1-1/2-11-1/2	1.540	2.375
5406-C-32	2-11-1/2	1.370	2.875

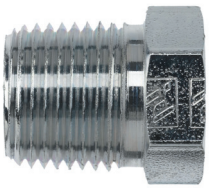
5406-HP HOLLOW HEX PIPE PLUG

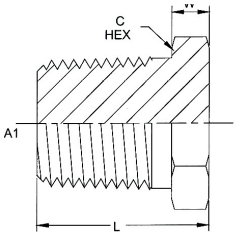




PART NO.	A1 NPTF	L LGTH	C HEX
5406-HP-01	1/16-27	0.300	0.156
5406-HP-02	1/8-27	0.30	0.188
5406-HP-04	1/4-18	0.46	0.250
5406-HP-06	3/8-18	0.46	0.312
5406-HP-08	1/2-14	0.610	0.375
5406-HP-12	3/4-14	0.620	0.562
5406-HP-16	1-11 1/2	0.79	0.625
5406-HP-20	1 1/4-11 1/2	0.770	0.750
5406-HP-24	1 1/2-11 1/2	0.83	1.00
5406-HP-32	2-11 1/2	0.87	0.75

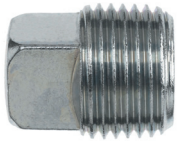
5406-P EXTERNAL HEX PIPE PLUG

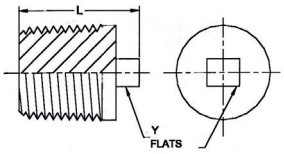




PART NO.	A1 NPTF	L LGTH	W WIDTH	C HEX
5406-P-01	1/16-27	0.531	0.151	0.312
5406-P-02	1/8-27	0.562	0.170	0.438
5406-P-04	1/4-18	0.750	0.170	0.562
5406-P-06	3/8-18	0.780	0.22	0.688
5406-P-08	1/2-14	0.960	0.210	0.875
5406-P-12	3/4-14	1.170	0.420	1.125
5406-P-16	1-11 1/2	1.360	0.42	1.375
5406-P-20	1 1/4-11 1/2	1.470	0.500	1.750
5406-P-24	1 1/2-11 1/2	1.570	0.570	2.000
5406-P-32	2-11 1/2	1.750	0.72	2.500

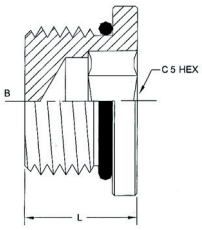
5406-SHP SQUARE HEAD PIPE PLUG





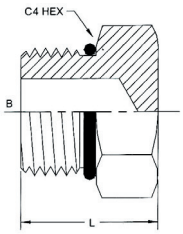
PART NO.	A1 NPTF	L LGTH	Y FLATS
5406-SHP-02	1/8-27	0.630	0.281
5406-SHP-04	1/4-18	0.750	0.375
5406-SHP-06	3/8-18	0.780	0.437
5406-SHP-08	1/2-14	1.020	0.563
5406-SHP-12	3/4-14	1.100	0.625
5406-SHP-16	1-11 1/2	1.300	0.812
5406-SHP-20	1-1/4-11-1/2	1.400	0.937
5406-SHP-24	1 1/2-11 1/2	1.470	1.125
5406-SHP-32	2-11-1/2	1.600	1.312

6408-H-O MORB HOLLOW HEX PLUG



PART NO.	TUBE O.D.	B SAE ORB	L LGTH	C5 HEX
6408-H02-O	1/8	5/16-24	0.400	0.125
6408-H03-O	3/16	3/8-24	0.40	0.125
6408-H04-O	1/4	7/16-20	0.47	0.188
6408-H05-O	5/16	1/2-20	0.47	0.188
6408-H06-O	3/8	9/16-18	0.50	0.250
6408-H08-O	1/2	3/4-16	0.58	0.313
6408-H10-O	5/8	7/8-14	0.65	0.375
6408-H12-O	3/4	1 1/16-12	0.77	0.562
6408-H14-O	7/8	1-3/16-12	0.770	0.562
6408-H16-O	1	1 5/16-12	0.775	0.625
6408-H20-O	1 1/4	1 5/8-12	0.77	0.750
6408-H24-O	1-1/2	1-7/8-12	0.770	0.750
6408-H32-O	2	2 1/2-12	0.77	0.750

6408-O MORB EXTERNAL HEX PLUG

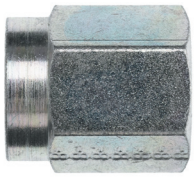


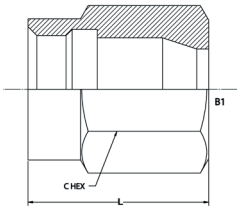
PART NO.	TUBE O.D.	B SAE ORB	L LGTH	C4 HEX
6408-02-O	1/8	5/16-24	0.60	0.438
6408-03-O	3/16	3/8-24	0.60	0.500
6408-04-O	1/4	7/16-20	0.67	0.562
6408-05-O	5/16	1/2-20	0.67	0.625
6408-06-O	3/8	9/16-18	0.730	0.687

Continued...

PART NO.	TUBE O.D.	B SAE ORB	L LGTH	C4 HEX
6408-08-0	1/2	3/4-16	0.80	0.875
6408-10-0	5/8	7/8-14	0.93	1.000
6408-12-0	3/4	1 1/16-12	1.09	1.250
6408-14-0	7/8	1 3/16-12	1.09	1.375
6408-16-0	1	1 5/16-12	1.12	1.500
6408-20-0	1-1/4	1 5/8-12	1.20	1.875
6408-24-0	1-1/2	1 7/8-12	1.27	2.125
6408-32-0	2	2 1/2-12	1.43	2.750

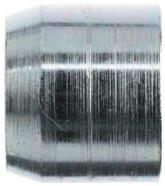
V0318 JIC-FLARELESS NUT

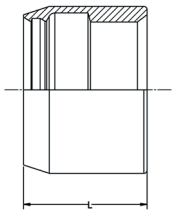




PART NO.	TUBE O.D.	B1 THREAD	L LGTH	M.M.	C HEX	C HEX	M.M.
V0318-04	1/4	7/16-20	0.830	21.08	9/16	0.562	14.28
V0318-05	5/16	1/2-20	0.830	21.08	5/8	0.625	15.87
V0318-06	3/8	9/16-18	0.860	21.84	11/16	0.687	17.46
V0318-08	1/2	3/4-16	1.085	27.56	7/8	0.875	22.23
V0318-10	5/8	7/8-14	1.125	28.57	1	1.000	25.40
V0318-12	3/4	1 1/16-12	1.365	34.67	1 1/4	1.250	28.57
V0318-16	1	1 5/16-12	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

V0319 JIC FLARELESS SLEEVE





PART NO.	TUBE O.D.	L LGTH	M.M.
V0319-04	1/4	0.400	10.16
V0319-05	5/16	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	0.700	17.78
V0319-20	1 1/4	1.000	25.40

FOR MORE INFORMATION ABOUT THESE AND OTHER BRENNAN PRODUCTS INCLUDING SPECS, PRESSURE RATINGS, TERMS AND CONDITIONS, CAD FILES AND DRAWINGS, PLEASE VISIT BRENNANINC.COM

CALIFORNIA PROPOSITION 65 WARNING

WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION: WWW.P65WARNINGS.CA.GOV

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