



ORFS FITTINGS

O-RING FACE SEAL FITTINGS & ACCESSORIES





O-RING FACE SEAL

As the name implies, O-ring Face Seal (ORFS) fittings incorporate an O-ring at the face of the fitting and are designed to eliminate leaks in high pressure hydraulic systems. These elastomeric seals provide a leak-proof, drop-in replacement for SAE 37° flared tube fittings, literally eliminating hydraulic leaks when used properly. When the connection is tightened the seal compresses creating a metal-to-metal seal with a leak barrier provided by the O-ring. The flat face sleeve also eliminates twisting of the tube and provides support during assembly.

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

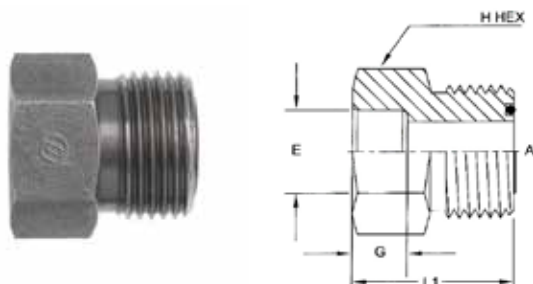
TABLE OF CONTENTS

03	STRAIGHTS
07	ELBOWS
12	TEES
17	CROSSES
17	NUTS & ACCESSORIES
19	INDEX



STRAIGHTS

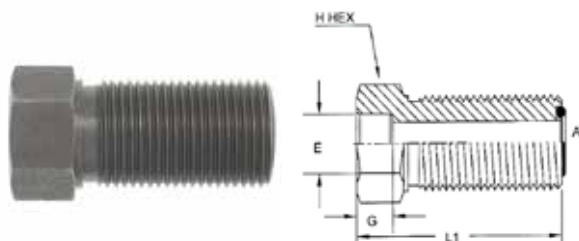
FS0403 BORE-MFS STRAIGHT



PART NO. E* BORE A THREAD G* DEPTH L1 LGTH H HEX

FS0403-04-04	0.256	9/16-18	0.330	0.86	0.625
FS0403-04-06	0.256	11/16-16	0.330	0.900	0.750
FS0403-06-04	0.381	9/16-18	0.330	0.86	0.750
FS0403-06-06	0.381	11/16-16	0.330	0.900	0.750
FS0403-06-08	0.381	13/16-16	0.330	0.970	0.875
FS0403-08-06	0.506	11/16-16	0.330	0.900	0.875
FS0403-08-08	0.506	13/16-16	0.330	0.970	0.875
FS0403-08-10	0.506	1-14	0.330	1.070	1.062
FS0403-08-12	0.506	1-3/16-12	0.330	1.16	1.250
FS0403-10-08	0.631	13/16-16	0.330	0.970	1.062
FS0403-10-10	0.631	1-14	0.330	1.07	1.062
FS0403-10-12	0.631	1-3/16-12	0.330	1.160	1.250
FS0403-12-08	0.757	13/16-16	0.490	1.130	1.250
FS0403-12-10	0.757	1-14	0.490	1.23	1.250
FS0403-12-12	0.757	1-3/16-12	0.490	1.32	1.250
FS0403-12-16	0.757	1-7/16-12	0.490	1.460	1.500
FS0403-16-12	1.007	1-3/16-12	0.550	1.380	1.500
FS0403-16-16	1.007	1-7/16-12	0.550	1.520	1.500
FS0403-16-20	1.007	1-11/16-12	0.550	1.52	1.750
FS0403-20-16	1.258	1-7/16-12	0.550	1.520	1.750
FS0403-20-20	1.258	1-11/16-12	0.550	1.520	1.750
FS0403-24-20	1.508	1-11/16-12	0.550	1.520	2.000
FS0403-24-24	1.508	2-12	0.550	1.52	2.125

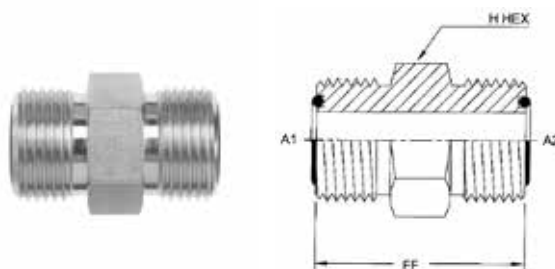
FS0406 BORE-MFS BULKHEAD



PART NO. E* BORE A THREAD G DEPTH L1 LGTH H HEX

FS0406-08-08	0.506	13/16-16	0.330	1.91	0.875
FS0406-10-08	0.631	13/16-16	0.330	1.91	1.062

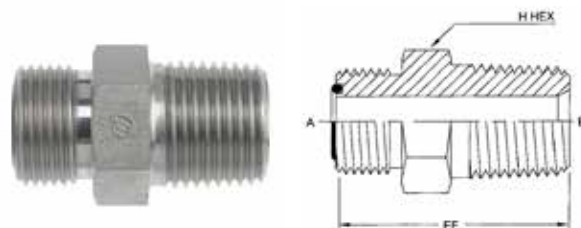
FS2403 MFS-MFS STRAIGHT



PART NO. A1 TUBE A2 TUBE O.D. A1 THREAD A2 THREAD FF LGTH H HEX

FS2403-04-04	1/4	1/4	9/16-18	9/16-18	1.080	0.625
FS2403-06-04	3/8	1/4	11/16-16	9/16-18	1.17	0.750
FS2403-06-06	3/8	3/8	11/16-16	11/16-16	1.22	0.750
FS2403-08-06	1/2	3/8	13/16-16	11/16-16	1.33	0.875
FS2403-08-08	1/2	1/2	13/16-16	13/16-16	1.39	0.875
FS2403-10-08	5/8	1/2	1-14	13/16-16	1.570	1.062
FS2403-10-10	5/8	5/8	1-14	1-14	1.68	1.062
FS2403-12-08	3/4	1/2	1-3/16-12	13/16-16	1.69	1.250
FS2403-12-10	3/4	5/8	1-3/16-12	1-14	1.800	1.250
FS2403-12-12	3/4	3/4	1-3/16-12	1-3/16-12	1.860	1.250
FS2403-16-12	1	3/4	1-7/16-12	1-3/16-12	1.92	1.500
FS2403-16-16	1	1	1-7/16-12	1-7/16-12	1.94	1.500
FS2403-20-16	1-1/4	1	1-11/16-12	1-7/16-12	2.020	1.750
FS2403-20-20	1-1/4	1-1/4	1-11/16-12	1-11/16-12	2.020	1.750
FS2403-24-20	1-1/2	1-1/4	2-12	1-11/16-12	2.090	2.125
FS2403-24-24	1-1/2	1-1/2	2-12	2-12	2.09	2.125

FS2404 MFS-MP STRAIGHT



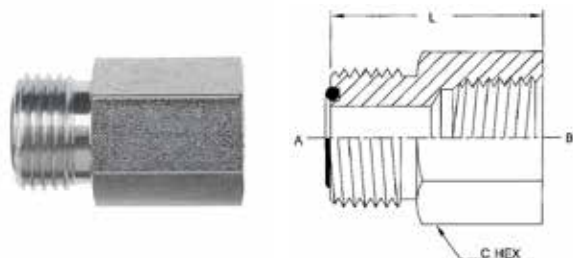
PART NO. TUBE O.D. A THREAD B THREAD FF LGTH H HEX

FS2404-04-02	1/4	9/16-18	1/8-27	1.080	0.625
FS2404-04-04	1/4	9/16-18	1/4-18	1.26	0.625
FS2404-04-06	1/4	9/16-18	3/8-18	1.260	0.750
FS2404-04-08	1/4	9/16-18	1/2-14	1.500	0.938
FS2404-06-02	3/8	11/16-16	1/8-27	1.160	0.750
FS2404-06-04	3/8	11/16-16	1/4-18	1.340	0.750
FS2404-06-06	3/8	11/16-16	3/8-18	1.34	0.750
FS2404-06-08	3/8	11/16-16	1/2-14	1.550	0.938
FS2404-08-04	1/2	13/16-16	1/4-18	1.480	0.875
FS2404-08-06	1/2	13/16-16	3/8-18	1.45	0.875
FS2404-08-08	1/2	13/16-16	1/2-14	1.640	0.938
FS2404-08-12	1/2	13/16-16	3/4-14	1.690	1.125
FS2404-08-16	1/2	13/16-16	1-11-1/2	1.80	1.375
FS2404-10-08	5/8	1-14	1/2-14	1.82	1.062
FS2404-10-12	5/8	1-14	3/4-14	1.820	1.250
FS2404-10-16	5/8	1-14	1-11-1/2	1.950	1.375
FS2404-12-08	3/4	1-3/16-12	1/2-14	1.94	1.250
FS2404-12-12	3/4	1-3/16-12	3/4-14	1.94	1.250
FS2404-12-16	3/4	1-3/16-12	1-11-1/2	2.130	1.375

Continued...

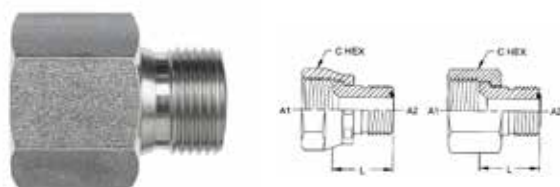
PART NO.	TUBE O.D.	A THREAD	B THREAD	FF LGTH	H HEX
FS2404-16-12	1	1-7/16-12	3/4-14	2.00	1.500
FS2404-16-16	1	1-7/16-12	1-11/2	2.190	1.500
FS2404-16-20	1	1-7/16-12	1-1/4-11-1/2	2.300	1.750
FS2404-16-24	1	1-7/16-12	1-1/2-11-1/2	2.400	2.000
FS2404-20-16	1-1/4	1-11/16-12	1-11-1/2	2.27	1.750
FS2404-20-20	1-1/4	1-11/16-12	1-1/4-11-1/2	2.30	1.750
FS2404-24-24	1-1/2	2-12	1-1/2-11-1/2	2.400	2.125

FS2405 FS-FP STRAIGHT



PART NO.	TUBE O.D.	A THREAD	B NPTF	LLGTH	C HEX
FS2405-04-04	1/4	9/16-18	1/4-18	1.250	0.750
FS2405-06-04	3/8	11/16-16	1/4-18	1.290	0.750
FS2405-08-08	1/2	13/16-16	1/2-14	1.640	1.125

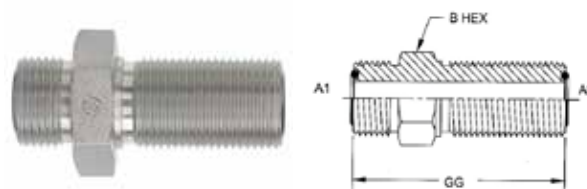
FS2406 FFS-MFS TUBE END REDUCER



PART NO.	A1 TUBE O.D.	A2 TUBE O.D.	A1 THREAD	A2 THREAD	LLGTH	C HEX
FS2406-06-04	3/8	1/4	11/16-16	9/16-18	0.770	0.812
FS2406-08-04	3/8	1/4	13/16-16	9/16-18	0.860	0.938
FS2406-08-06	1/2	3/8	13/16-16	11/16-16	0.880	0.938
FS2406-10-04	5/8	1/4	1-14	9/16-18	0.900	1.125
FS2406-10-06	5/8	3/8	1-14	11/16-16	0.950	1.125
FS2406-10-08	5/8	1/2	1-14	13/16-16	1.010	1.125
FS2406-10-12	5/8	3/4	1-14	1-3/16-12	1.063	1.125
FS2406-12-04	3/4	1/4	1-3/16-12	9/16-18	0.980	1.375
FS2406-12-06	3/4	3/8	1-3/16-12	11/16-16	1.030	1.375
FS2406-12-08	3/4	1/2	1-3/16-12	13/16-16	1.090	1.375
FS2406-12-10	3/4	5/8	1-3/16-12	1-14	1.160	1.375
FS2406-12-16	3/4	1	1-3/16-12	1-7/16-12	1.240	1.375
FS2406-16-06	1	3/8	1-7/16-12	11/16-16	1.09	1-5/8
FS2406-16-08	1	1/2	1-7/16-12	13/16-16	1.150	1.625
FS2406-16-10	1	5/8	1-7/16-12	1-14	1.260	1.625
FS2406-16-12	1	3/4	1-7/16-12	1-3/16-12	1.300	1.625

PART NO.	A1 TUBE O.D.	A2 TUBE O.D.	A1 THREAD	A2 THREAD	LLGTH	C HEX
FS2406-16-20	1	1-1/4	1-7/16-12	1-11/16-12	1.330	1.625
FS2406-20-12	1-1/4	3/4	1-11/16-12	1-3/16-12	1.320	1.875
FS2406-20-16	1-1/4	1	1-11/16-12	1-7/16-12	1.514	1.875
FS2406-20-24	1-1/4	1-1/2	1-11/16-12	2-12	1.514	1.875
FS2406-24-12	1-1/2	3/4	2-12	1-3/16-12	1.320	2-1/4
FS2406-24-16	1-1/2	1	2-12	1-7/16-12	1.340	2.250
FS2406-24-20	1-1/2	1-1/4	2-12	1-11/16-12	1.340	2.250

FS2700 MFS-MFS BULKHEAD UNION



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	GG LGTH	B HEX
FS2700-04-04	1/4	9/16-18	9/16-18	1.900	0.812
FS2700-06-06	3/8	11/16-16	11/16-16	2.09	1.000
FS2700-06-08	3/8 1/2	11/16-16	13/16-16	2.240	1.125
FS2700-08-08	1/2	13/16-16	13/16-16	2.30	1.125
FS2700-10-08	5/8	1-14	13/16-16	2.460	1.312
FS2700-10-10	5/8	1-14	1-14	2.62	1.312
FS2700-12-12	3/4	1-3/16-12	1-3/16-12	2.720	1.500
FS2700-16-16	1	1-7/16-12	1-7/16-12	2.76	1.750
FS2700-20-20	1-1/4	1-11/16-12	1-11/16-12	2.76	2.000
FS2700-24-24	1-1/2	2-12	2-12	2.760	2.375

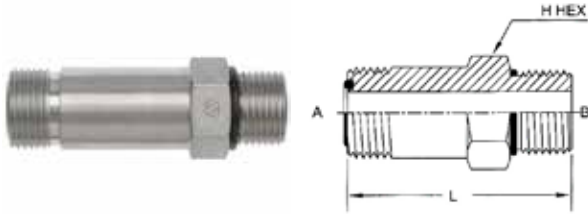
FS2764 MFS BULKHEAD-MORB STRAIGHT



PART NO.	TUBE O.D.	A THREAD	B MORB	LLGTH	H HEX
FS2764-04-04-O	1/4	9/16-18	7/16-20	2.14	.812
FS2764-04-06-O	3/8	9/16-18	9/16-18	2.18	.812
FS2764-06-06-O	3/8	11/16-16	9/16-18	2.31	1.00
FS2764-08-08-O	1/2	13/16-16	3/4-16	2.600	1.125
FS2764-10-10-O	5/8	1-14	7/8-14	2.91	1.312
FS2764-12-12-O	3/4	1-3/16-12	1-1/16-12	3.110	1.500
FS2764-16-16-O	1	1-7/16-12	1-5/16-12	3.220	1.750
FS2764-20-20-O	1-1/4	1-11/16-12	1-5/8-12	3.300	2.000
FS2764-24-24-O	1-1/2	2-12	1-7/8-12	3.30	2.375

Continued...

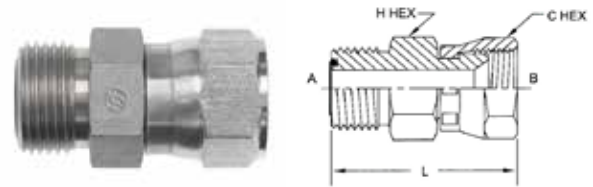
FS6400-L-O MFS-MORB STRAIGHT LONG



PART NO.	TUBE O.D.	A THREAD	B THREAD	L LGTH	H HEX
FS6400-L-04-04-O	1/4	9/16-18	7/16-20	2.070	0.625
FS6400-L-06-06-O	3/8	11/16-16	9/16-18	2.272	0.750
FS6400-L-06-08-O	3/8	11/16-16	3/4-16	2.611	0.875
FS6400-L-08-08-O	1/2	13/16-16	3/4-16	2.671	0.875
FS6400-L-10-10-O	5/8	1-14	7/8-14	3.130	1.062
FS6400-L-12-10-O	3/4	1-3/16-12	7/8-14	3.660	1.250
FS6400-L-12-12-O	3/4	1-3/16-12	1-1/16-12	3.758	1.250
FS6400-L-16-12-O	1	1-7/16-12	1-1/16-12	4.138	1.500
FS6400-L-16-16-O	1	1-7/16-12	1-5/16-12	4.138	1.500
FS6400-L-20-20-O	1-1/4	1-11/16-12	1-5/8-12	4.760	1.875
FS6400-L-24-24-O	1-1/2	2-12	1-7/8-12	5.258	2.125

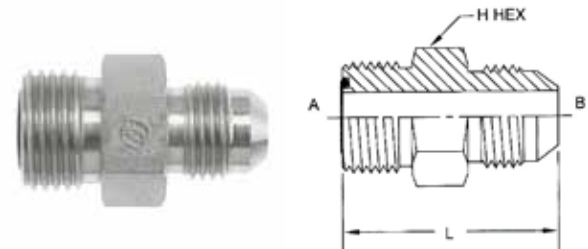
PART NO.	TUBE O.D.	A THREAD	B THREAD	L LGTH	H HEX
FS6400-10-12-O	5/8	1-14	1-1/16-12	1.858	1.250
FS6400-10-16-O	5/8	1-14	1-5/16-12	1.900	1.500
FS6400-12-06-O	3/4	1-3/16-12	9/16-18	1.772	1.250
FS6400-12-08-O	3/4	1-3/16-12	3/4-16	1.911	1.250
FS6400-12-10-O	3/4	1-3/16-12	7/8-14	1.990	1.250
FS6400-12-12-O	3/4	1-3/16-12	1-1/16-12	1.918	1.250
FS6400-12-16-O	3/4	1-3/16-12	1-5/16-12	1.958	1.500
FS6400-12-20-O	3/4	1-3/16-12	1-5/8-12	2.038	1.875
FS6400-16-08-O	1	1-7/16-12	3/4-16	1.961	1.500
FS6400-16-10-O	1	1-7/16-12	7/8-14	2.040	1.500
FS6400-16-12-O	1	1-7/16-12	1-1/16-12	2.138	1.500
FS6400-16-14-O	1	1-7/16-12	1-3/16-12	1.978	1.500
FS6400-16-16-O	1	1-7/16-12	1-5/16-12	1.978	1.500
FS6400-16-20-O	1	1-7/16-12	1-5/8-12	2.058	1.875
FS6400-16-24-O	1	1-7/16-12	1-7/8-12	2.130	2.125
FS6400-20-16-O	1-1/4	1-11/16-12	1-5/16-12	2.278	1.875
FS6400-20-20-O	1-1/4	1-11/16-12	1-5/8-12	2.058	1.875
FS6400-20-24-O	1-1/4	1-11/16-12	1-7/8-12	2.128	2.125
FS6400-24-20-O	1-1/2	2-12	1-5/8-12	2.348	2.125
FS6400-24-24-O	1-1/2	2-12	1-7/8-12	2.128	2.125
FS6400-32-32-O	2	2-1/2-12	2-1/2-12	2.313	2.750

FS6402 MFS-FJS STRAIGHT



PART NO.	TUBE O.D.	A THREAD	B THREAD	L LGTH	C HEX	H HEX
FS6402-04-04	1/4	9/16-18	7/16-20	1.344	0.562	0.625
FS6402-06-06	3/8	11/16-16	9/16-18	1.565	0.688	0.750
FS6402-08-08	1/2	13/16-16	3/4-16	1.770	0.875	0.875
FS6402-10-10	5/8	1-14	7/8-14	2.060	1.000	1.062
FS6402-12-12	3/4	1 3/16-12	1 1/16-12	0.609	1.250	1.250
FS6402-16-16	1	1 7/16-12	1 5/16-12	2.460	1.500	1.500
FS6402-20-20	1 1/4	1-11/16-12	1-5/8-12	2.615	2.000	1.750

FS6403 MFS-MJ STRAIGHT



PART NO.	TUBE O.D.	A THREAD	B THREAD	L LGTH	H HEX
FS6403-04-04	1/4	9/16-18	7/16-20	1.250	0.625
FS6403-06-06	3/8	11/16-16	9/16-18	1.350	0.750
FS6403-08-08	1/2	13/16-16	3/4-16	1.540	0.875

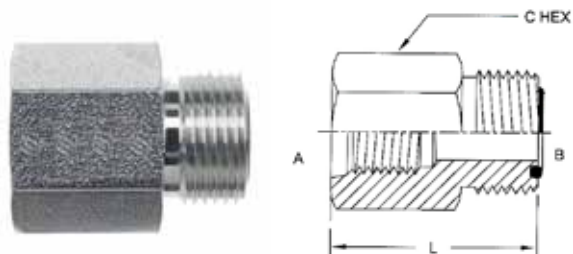
Continued...

Continued...

PART NO. TUBE O.D. A THREAD B THREAD L LGTH H HEX

FS6403-10-10	5/8	1-14	7/8-14	1.820	1.062
FS6403-12-12	3/4	1-3/16-12	1-1/16-12	2.050	1.250
FS6403-16-16	1	1-7/16-12	1-5/16-12	2.161	1.500
FS6403-20-20	1-1/4	1-11/16-12	1-5/8-12	2.290	1.750

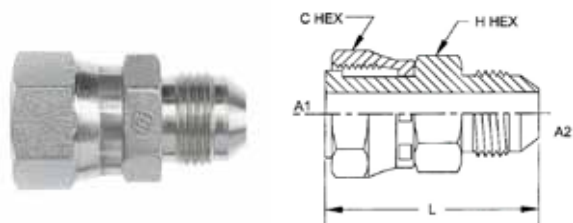
FS6410 FORB-MFS STRAIGHT



PART NO. TUBE O.D. A FORB B THREAD L LGTH C HEX

FS6410-04-04-O	1/4	7/16-20	9/16-18	1.220	0.625
FS6410-08-08-O	1/2	3/4-16	13/16-16	1.390	1.000
FS6410-16-12-O	1	1-5/16-12	1-3/16-12	1.79	1.625
FS6410-16-16-O	1	1-5/16-12	1-7/16-12	1.80	1.625
FS6410-20-20-O	1-1/4	1-5/8-12	1-11/16-12	1.86	2.125
FS6410-24-24-O	1-1/2	1-7/8-12	2-12	1.87	2.500

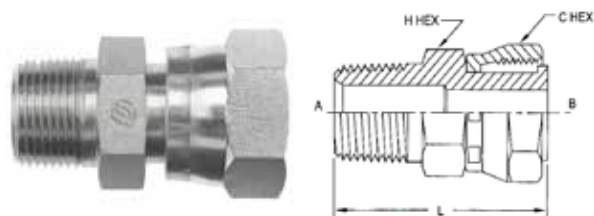
FS6504 FFSS-MJ STRAIGHT



PART NO. A1 TUBE O.D. A2 TUBE O.D. A1 THREAD A2 THREAD L LGTH C HEX H HEX

FS6504-04-04	1/4	1/4	9/16-18	7/16-20	1.580	0.687	0.625
FS6504-04-12	1/4	3/4	9/16-18	1-1/16-12	1.994	0.687	1.125
FS6504-06-04	3/8	1/4	11/16-16	7/16-20	1.660	0.812	0.750
FS6504-06-06	3/8	3/8	11/16-16	9/16-18	1.610	0.812	0.750
FS6504-08-04	1/2	1/4	13/16-16	7/16-20	1.940	0.938	0.875
FS6504-08-08	1/2	1/2	13/16-16	3/4-16	1.900	0.938	0.875
FS6504-08-12	1/2	3/4	13/16-16	1-1/16-12	2.194	0.938	1.125
FS6504-10-04	5/8	1/4	1-14	7/16-20	2.040	1.125	1.062
FS6504-10-10	5/8	5/8	1-14	7/8-14	2.248	1.125	1.062
FS6504-10-12	5/8	3/4	1-14	1-1/16-12	2.354	1.125	1.125
FS6504-12-04	3/4	1/4	1-3/16-12	7/16-20	2.170	1.375	1.250
FS6504-12-12	3/4	3/4	1-3/16-12	1-1/16-12	2.500	1.375	1.250
FS6504-16-04	1	1/4	1-7/16-12	7/16-20	2.480	1.625	1.500
FS6504-16-16	1	1	1-7/16-12	1-5/16-12	2.650	1.625	1.500
FS6504-20-20	1-1/4	1-1/4	1-11/16-12	1-5/8-12	2.888	1.875	1.875
FS6504-24-24	1-1/2	1-1/2	2-12	1-7/8-12	2.840	2.250	2.000

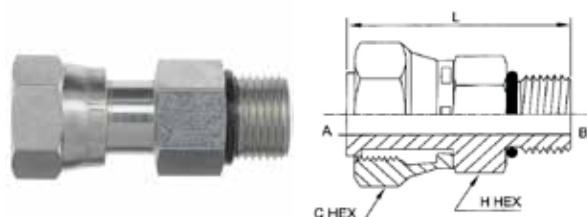
FS6505 MP-FFSS STRAIGHT



PART NO. TUBE O.D. A THREAD B THREAD A HOLE B HOLE L LGTH C HEX H HEX

FS6505-04-04	1/4	1/4-18	9/16-18	0.281	0.165	1.520	0.688	0.625
FS6505-04-06	3/8	1/4-18	11/16-16	0.281	0.264	1.650	0.812	0.750
FS6505-08-08	1/2	1/2-14	13/16-16	0.531	0.358	2.150	0.937	0.875
FS6505-12-12	3/4	3/4-14	1-3/16-12	0.719	0.547	2.370	1.375	1.250
FS6505-16-16	1	1-11/2	1-7/16-12	0.938	0.783	2.880	1.625	1.500
FS6505-20-20	1-1/4	1-1/4-11-1/2	1-11/16-12	1.250	1.024	2.900	1.875	1.750

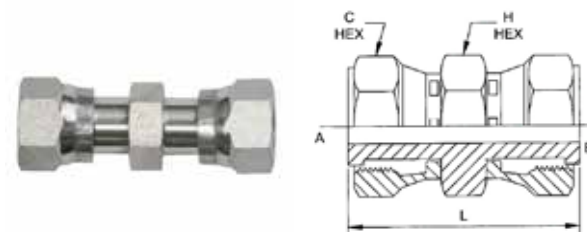
FS6540-O FFSS-MORB STRAIGHT



PART NO. TUBE O.D. A THREAD B MORB L LGTH C HEX H HEX

FS6540-04-04-O	1/4	9/16-18	7/16-20	1.460	0.687	0.625
FS6540-06-06-O	3/8	11/16-16	9/16-18	1.580	0.812	0.750
FS6540-08-06-O	1/2	13/16-16	9/16-18	1.862	0.938	0.875
FS6540-08-08-O	1/2	13/16-16	3/4-16	1.941	0.938	0.875
FS6540-10-12-O	5/8	1-14	1-1/16-12	2.218	1.125	1.250
FS6540-12-12-O	3/4	1-3/16-12	1-1/16-12	2.348	1.375	1.250
FS6540-16-16-O	1	1-7/16-12	1-5/16-12	2.658	1.625	1.500
FS6540-20-20-O	1-1/4	1-11/16-12	1-5/8-12	2.658	1.875	1.875
FS6540-24-24-O	1-1/2	2-12	1-7/8-12	2.658	2.250	2.125

FS6565 FFSS-FFSS STRAIGHT



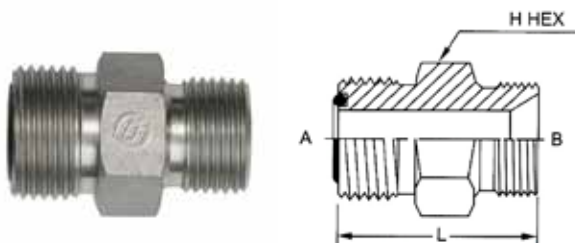
PART NO. TUBE O.D. A THREAD B THREAD L LGTH C HEX H HEX

FS6565-04-04	1/4	9/16-18	9/16-18	1.590	0.687	0.625
FS6565-06-06	3/8	11/16-16	11/16-16	1.77	0.812	0.750

Continued...

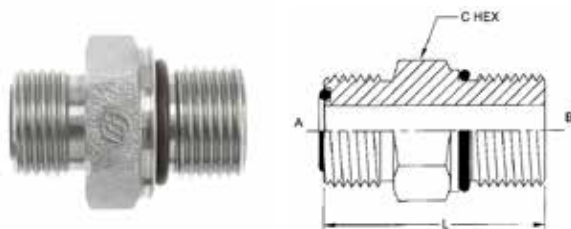
PART NO.	TUBE O.D.	A THREAD	B THREAD	LLGTH	C HEX	H HEX
FS6565-08-08	1/2	13/16-16	13/16-16	2.120	0.938	0.875
FS6565-10-10	5/8	1-14	1-14	2.420	1.125	1.062
FS6565-12-12	3/4	1-3/16-12	1-3/16-12	2.74	1.375	1.250
FS6565-16-16	1	1-7/16-12	1-7/16-12	2.95	1.625	1.500
FS6565-20-20	1-1/4	1-11/16-12	1-11/16-12	2.990	1.875	1.750
FS6565-24-24	1-1/2	2-12	2-12	3.040	2.250	2.125

FS7005 MFS-MM STRAIGHT



PART NO.	TUBE O.D.	A THREAD	B THREAD	LLGTH	C HEX
FS7005-04-12	1/4	9/16-18	M12X1.5	32.3	17.0
FS7005-06-14	3/8	11/16-16	M14X1.5	33.50	19.05
FS7005-06-16	3/8	11/16-16	M16X1.5	32.30	19.05
FS7005-06-22	3/8	11/16-16	M22X1.5	34.50	27.00
FS7005-08-14	1/2	13/16-16	M14X1.5	35.10	22.22
FS7005-08-18	1/2	13/16-16	M18X1.5	35.60	22.00
FS7005-08-22	1/2	13/16-16	M22X1.5	36.00	27.00
FS7005-12-24	3/4	1-3/16-12	M24X1.5	43.70	32.00
FS7005-12-26	3/4	1-3/16-12	M26X1.5	45.00	32.00

FS7640-0 MFS-MMORB ISO6149-2 STRAIGHT



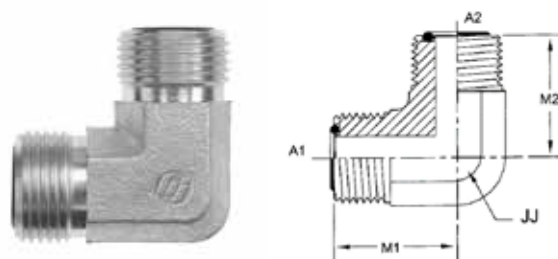
PART NO.	TUBE O.D.	A THREAD	B MM THREAD	LLGTH	C HEX
FS7640-04-10-0	1/4	9/16-18	M10 x 1	27.0	17.0
FS7640-04-12-0	1/4	9/16-18	M12 x 1.5	28.5	17.0
FS7640-04-14-0	1/4	9/16-18	M14 x 1.5	29.50	19.00
FS7640-06-12-0	3/8	11/16-16	M12 x 1.5	32.0	19.00
FS7640-06-14-0	3/8	11/16-16	M14 x 1.5	32.0	19.0
FS7640-06-16-0	3/8	11/16-16	M16 x 1.5	33.5	22.0
FS7640-06-18-0	3/8	11/16-16	M18 x 1.5	36.0	24.0
FS7640-06-22-0	3/8	11/16-16	M22 x 1.5	37.5	27.0
FS7640-08-14-0	1/2	13/16-16	M14 x 1.5	35.00	22.00
FS7640-08-16-0	1/2	13/16-16	M16 x 1.5	36.5	22.0
FS7640-08-18-0	1/2	13/16-16	M18 x 1.5	38.0	24.0
FS7640-08-22-0	1/2	13/16-16	M22 x 1.5	39.5	27.0
FS7640-08-26-0	1/2	13/16-16	M26 x 1.5	42.3	32.0
FS7640-08-27-0	1/2	13/16-16	M27 x 2.0	44.5	32.0
FS7640-08-33-0	1/2	13/16-16	M33 x 2.0	47.5	41.0
FS7640-10-18-0	5/8	1-14	M18 x 1.5	41.0	27.0

Continued...

PART NO.	TUBE O.D.	A THREAD	B MM THREAD	LLGTH	C HEX
FS7640-10-22-0	5/8	1-14	M22 x 1.5	42.0	27.0
FS7640-10-26-0	7/8	1-14	M26X1.5	45.5	32.0
FS7640-10-27-0	5/8	1-14	M27 x 2.0	48.5	32.0
FS7640-10-33-0	5/8	1-14	M33 x 2.0	50.0	41.0
FS7640-12-22-0	3/4	1-3/16-12	M22 x 1.5	47.5	32.0
FS7640-12-27-0	3/4	1-3/16-12	M27 x 2.0	48.5	32.0
FS7640-12-33-0	3/4	1-3/16-12	M33 x 2.0	51.5	41.0
FS7640-16-33-0	1	1-7/16-12	M33 x 2.0	52.0	41.0
FS7640-20-38-0	1-1/4	1-11/16-12	M38 x 2.0	54.5	50.0
FS7640-20-42-0	1-1/4	1-11/16-12	M42 x 2.0	54.5	50.0

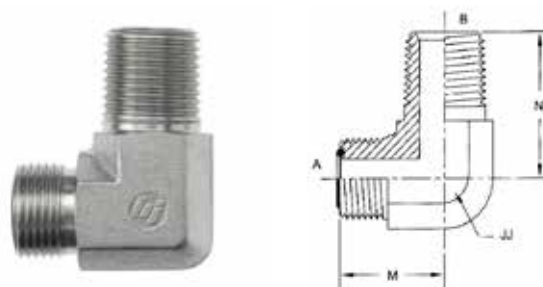
ELBOWS

FS2500-FG MFS-MFS 90 DEG ELBOW



PART NO.	A1 TUBE O.D.	A2 TUBE O.D.	A1 THREAD	A2 THREAD	M1 LGTH	M2 LGTH	JJ FLATS
FS2500-04-04-FG	1/4	1/4	9/16-18	9/16-18	0.85	0.85	0.562
FS2500-06-06-FG	3/8	3/8	11/16-16	11/16-16	0.98	0.98	0.750
FS2500-08-08-FG	1/2	1/2	13/16-16	13/16-16	1.10	1.10	0.750
FS2500-10-10-FG	5/8	5/8	1-14	1-14	1.31	1.31	1.062
FS2500-12-08-FG	3/4	1/2	1-3/16-12	13/16-16	1.47	1.32	1.188
FS2500-12-12-FG	3/4	3/4	1-3/16-12	1-3/16-12	1.47	1.47	1.188
FS2500-16-12-FG	1	3/4	1-7/16-12	1-3/16-12	1.64	1.62	1.438
FS2500-16-16-FG	1	1	1-7/16-12	1-7/16-12	1.64	1.64	1.438
FS2500-20-16-FG	1-1/4	1	1-11/16-12	1-7/16-12	1.76	1.76	1.625
FS2500-20-20-FG	1-1/4	1-1/4	1-11/16-12	1-11/16-12	1.76	1.76	1.625
FS2500-24-20-FG	1-1/2	1-1/4	2-12	1-11/16-12	1.92	1.92	1.875
FS2500-24-24-FG	1-1/2	1-1/2	2-12	2-12	1.92	1.92	1.875

FS2501-FG MFS-MP 90 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	JJ FLATS
FS2501-04-02-FG	1/4	9/16-18	1/8-27	0.85	0.80	0.562
FS2501-04-04-FG	1/4	9/16-18	1/4-18	0.85	1.12	0.562
FS2501-04-06-FG	1/4	9/16-18	3/8-18	0.970	1.220	0.750

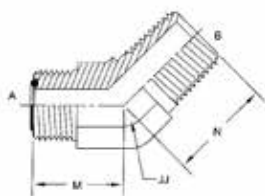
Continued...

PART NO. **TUBE O.D.** **A1 THREAD** **B1 THREAD** **MLGTH** **N LGTH** **JJ FLATS**

FS2501-06-02-FG	3/8	11/16-16	1/8-27	0.98	0.90	0.750
FS2501-06-04-FG	3/8	11/16-16	1/4-18	0.98	1.09	0.750
FS2501-06-06-FG	3/8	11/16-16	3/8-18	0.980	1.220	0.750
FS2501-06-08-FG	3/8	11/16-16	1/2-14	1.150	1.470	0.875
FS2501-08-04-FG	1/2	13/16-16	1/4-18	1.10	1.22	0.750
FS2501-08-06-FG	1/2	13/16-16	3/8-18	1.10	1.22	0.750
FS2501-08-08-FG	1/2	13/16-16	1/2-14	1.10	1.47	0.875
FS2501-08-12-FG	1/2	13/16-16	3/4-14	1.320	1.590	1.062
FS2501-10-06-FG	5/8	1-14	3/8-18	1.310	1.400	1.062
FS2501-10-08-FG	5/8	1-14	1/2-14	1.310	1.470	1.062
FS2501-10-12-FG	5/8	1-14	3/4-14	1.31	1.59	1.062
FS2501-12-08-FG	3/4	1-3/16-12	1/2-14	1.470	1.590	1.188
FS2501-12-12-FG	3/4	1-3/16-12	3/4-14	1.470	1.590	1.188
FS2501-12-16-FG	3/4	1-3/16-12	1-11/2	1.620	1.970	1.312
FS2501-16-12-FG	1	1-7/16-12	3/4-14	1.64	1.78	1.438
FS2501-16-16-FG	1	1-7/16-12	1-11/2	1.64	1.97	1.438
FS2501-16-20-FG	1	1-7/16-12	1-1/4-11-1/2	1.760	2.380	1.625
FS2501-20-16-FG	1-1/4	1-11/16-12	1-11/2	1.760	2.350	1.625
FS2501-20-20-FG	1-1/4	1-11/16-12	1-1/4-11-1/2	1.76	2.38	1.625
FS2501-24-24-FG	1-1/2	2-12	1-1/2-11-1/2	1.920	2.640	1.875

FS2503-FG

MFS-MP 45 DEG ELBOW

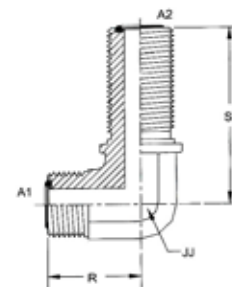


PART NO. **TUBE O.D.** **A1 THREAD** **B1 THREAD** **MLGTH** **N LGTH** **JJ FLATS**

FS2503-04-02-FG	1/4	9/16-18	1/8-27	0.63	0.67	0.562
FS2503-04-04-FG	1/4	9/16-18	1/4-18	0.63	0.86	0.562
FS2503-06-04-FG	3/8	11/16-16	1/4-18	0.74	0.87	0.750
FS2503-06-06-FG	3/8	11/16-16	3/8-18	0.740	0.950	0.750
FS2503-06-08-FG	3/8	11/16-16	1/2-14	0.79	1.17	0.875
FS2503-08-06-FG	1/2	13/16-16	3/8-18	0.80	0.95	0.750
FS2503-08-08-FG	1/2	13/16-16	1/2-14	0.80	1.17	0.875
FS2503-08-12-FG	1/2	13/16-16	3/4-14	0.82	1.20	1.062
FS2503-10-08-FG	5/8	1-14	1/2-14	0.92	1.20	1.062
FS2503-12-08-FG	3/4	1-3/16-12	1/2-14	1.020	1.300	1.188
FS2503-12-12-FG	3/4	1-3/16-12	3/4-14	1.020	1.180	1.188
FS2503-16-16-FG	1	1-7/16-12	1-11/2	1.180	1.560	1.438
FS2503-20-20-FG	1-1/4	1-11/16-12	1-1/4-11-1/2	1.26	1.67	1.625

FS2701-FG

MFS-MFS BULKHEAD 90 DEG ELBOW

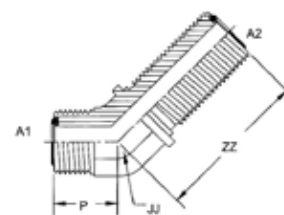


PART NO. **TUBE O.D.** **A1 THREAD** **A2 THREAD** **R LGTH** **S LGTH** **JJ FLATS**

FS2701-04-04-FG	1/4	9/16-18	9/16-18	0.89	1.85	0.562
FS2701-06-06-FG	3/8	11/16-16	11/16-16	1.02	2.05	0.750
FS2701-06-08-FG	3/8 1/2	11/16-16	13/16-16	1.08	2.18	0.750
FS2701-08-08	1/2	13/16-16	13/16-16	1.14	2.18	0.750
FS2701-08-08-FG	1/2	13/16-16	13/16-16	1.14	2.18	0.750
FS2701-08-10-FG	1/2 5/8	13/16-16	1-14	1.260	2.480	1.062
FS2701-10-10-FG	5/8	1-14	1-14	1.36	2.48	1.062
FS2701-12-12-FG	3/4	1-3/16-12	1-3/16-12	1.520	2.650	1.188
FS2701-16-16-FG	1	1-7/16-12	1-7/16-12	1.67	2.80	1.438
FS2701-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1.79	2.97	1.625
FS2701-24-24-FG	1-1/2	2-12	2-12	1.950	3.130	1.875

FS2702-FG

MFS-MFS BULKHEAD 45 DEG ELBOW

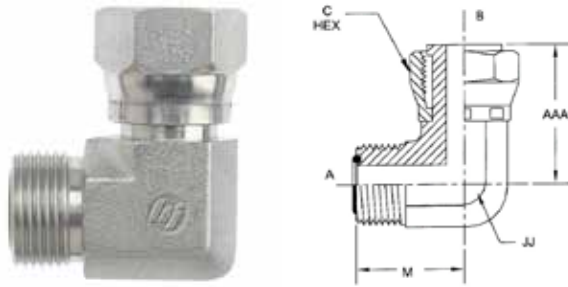


PART NO. **TUBE O.D.** **A1 THREAD** **A2 THREAD** **P LGTH** **ZZ LGTH** **JJ FLATS**

FS2702-04-04-FG	1/4	9/16-18	9/16-18	0.63	1.73	0.562
FS2702-06-06-FG	3/8	11/16-16	11/16-16	0.74	1.91	0.750
FS2702-08-08-FG	1/2	13/16-16	13/16-16	0.80	2.01	0.750
FS2702-10-08-FG	5/8 1/2	1-14	13/16-16	0.92	2.13	1.062
FS2702-10-10-FG	5/8	1-14	1-14	0.920	2.230	1.062
FS2702-12-12-FG	3/4	1-3/16-12	1-3/16-12	1.020	2.390	1.188
FS2702-16-16-FG	1	1-7/16-12	1-7/16-12	1.18	2.57	1.438
FS2702-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1.26	2.64	1.625
FS2702-24-24-FG	1-1/2	2-12	2-12	1.460	2.640	1.875

FS6500-FG

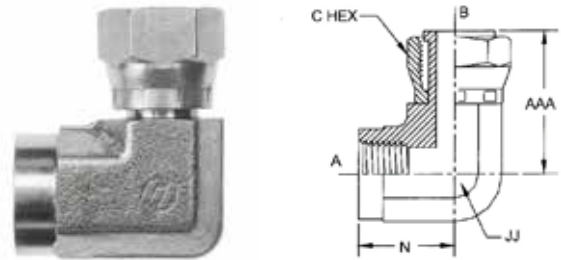
MFS-FFSS 90 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	AAA LGTH	C HEX	JJ FLATS
FS6500-04-04-FG	1/4	9/16-18	9/16-18	0.85	1.04	0.687	0.562
FS6500-04-06-FG	1/4	9/16-18	11/16-16	0.920	1.150	0.812	0.750
FS6500-06-06-FG	3/8	11/16-16	11/16-16	0.98	1.15	0.812	0.750
FS6500-08-06-FG	1/2	13/16-16	11/16-16	1.10	1.33	0.812	0.750
FS6500-08-08-FG	1/2	13/16-16	13/16-16	1.10	1.49	0.938	0.750
FS6500-10-10-FG	5/8	1-14	1-14	1.31	1.62	1.125	1.062
FS6500-12-12-FG	3/4	1-3/16-12	1-3/16-12	1.47	1.82	1.375	1.188
FS6500-16-16-FG	1	1-7/16-12	1-7/16-12	1.64	2.10	1.625	1.438
FS6500-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1.76	2.29	1.875	1.625
FS6500-24-24-FG	1-1/2	2-12	2-12	1.920	2.410	2.250	1.875

FS6503-FG

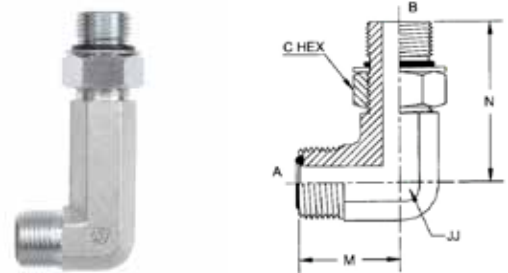
FP-FFSS 90 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	N LGTH	AAA LGTH	C HEX	JJ FLATS
FS6503-06-06-FG	3/8	3/8-18	11/16-16	1.020	1.320	0.812	0.875

FS6801-L-NW0-FG

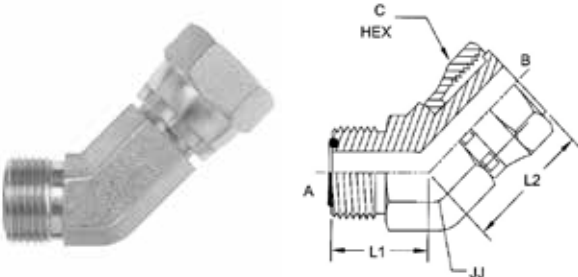
MFS-MORB 90 DEG ELBOW LONG



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C HEX	JJ FLATS
FS6801-L-04-04-NW0-FG	1/4	9/16-18	7/16-20	0.850	2.230	0.625	0.562
FS6801-L-06-06-NW0-FG	3/8	11/16-16	9/16-18	0.98	2.61	0.750	0.750
FS6801-L-08-08-NW0-FG	1/2	13/16-16	3/4-16	1.10	2.95	0.938	0.750
FS6801-L-08-12-NW0-FG	1/2	13/16-16	1-1/16-12	1.320	3.970	1.375	1.188
FS6801-L-10-10-NW0-FG	5/8	1-14	7/8-14	1.31	3.51	1.062	1.062
FS6801-L-10-12-NW0-FG	5/8	1-14	1-1/16-12	1.402	3.980	1.375	1.1875
FS6801-L-12-12-NW0-FG	3/4	1-3/16-12	1-1/16-12	1.47	4.00	1.375	1.188
FS6801-L-16-16-NW0-FG	1	1-7/16-12	1-5/16-12	1.64	4.51	1.625	1.438
FS6801-L-20-20-NW0-FG	1-1/4	1-11/16-12	1-5/8-12	1.760	4.980	1.875	1.625

FS6502-FG

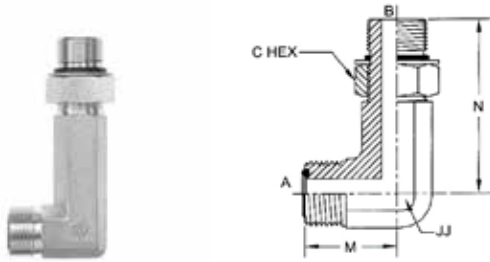
MFS-FFSS 45 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	L1 LGTH	L2 LGTH	C HEX	JJ FLATS
FS6502-04-04-FG	1/4	9/16-18	9/16-18	0.63	0.94	0.687	0.562
FS6502-06-06-FG	3/8	11/16-16	11/16-16	0.74	1.06	0.812	0.75
FS6502-08-08-FG	1/2	13/16-16	13/16-16	0.80	1.32	0.938	0.75
FS6502-10-10-FG	5/8	1-14	1-14	0.92	1.44	1.125	1.062
FS6502-12-12-FG	3/4	1-3/16-12	1-3/16-12	1.02	1.48	1.375	1.188
FS6502-16-16-FG	1	1-7/16-12	1-7/16-12	1.180	1.520	1.625	1.438
FS6502-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1.26	1.72	1.875	1.625
FS6502-24-24-FG	1-1/2	2-12	2-12	1.450	2.060	2.250	1.875

FS6801-LL-NWO-FG

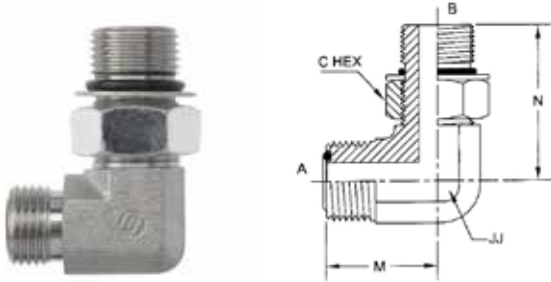
MFS-MAORB 90 DEG ELBOW EXTRA LONG



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C HEX	JJ FLATS
FS6801-LL-06-06-NWO-FG	3/8	11/16-16	9/16-18	0.980	3.000	0.750	0.750
FS6801-LL-08-08-NWO-FG	1/2	13/16-16	3/4-16	1.10	3.50	0.938	0.750
FS6801-LL-12-12-NWO-FG	3/4	1-3/16-12	1-1/16-12	1.470	4.500	1.375	1.188
FS6801-LL-16-16-NWO-FG	1	1-7/16-12	1-5/16-12	1.64	5.00	1.625	1.438

FS6801-NWO-FG

MFS-MAORB 90 DEG ELBOW



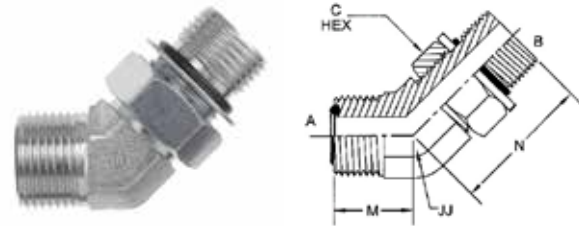
PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C HEX	JJ FLATS
FS6801-04-04-NWO-FG	1/4	9/16-18	7/16-20	0.85	1.29	0.625	0.562
FS6801-04-05-NWO-FG	1/4	9/16-18	1/2-20	0.85	1.29	0.687	0.562
FS6801-04-06-NWO-FG	1/4	9/16-18	9/16-18	0.92	1.45	0.750	0.750
FS6801-04-08-NWO-FG	1/4	9/16-18	3/4-16	0.970	1.600	0.938	0.750
FS6801-06-04-NWO-FG	3/8	11/16-16	7/16-20	0.980	1.370	0.625	0.750
FS6801-06-05-NWO-FG	3/8	11/16-16	1/2-20	0.98	1.45	0.687	0.750
FS6801-06-06-NWO-FG	3/8	11/16-16	9/16-18	0.980	1.450	0.750	0.750
FS6801-06-08-NWO-FG	3/8	11/16-16	3/4-16	1.04	1.60	0.938	0.750
FS6801-06-10-NWO-FG	3/8	11/16-16	7/8-14	1.150	1.970	1.062	1.062
FS6801-06-12-NWO-FG	3/8	11/16-16	1-1/16-12	1.250	2.170	1.375	1.188
FS6801-08-04-NWO-FG	1/2	13/16-16	7/16-20	1.100	1.360	0.625	0.750
FS6801-08-06-NWO-FG	1/2	13/16-16	9/16-18	1.10	1.44	0.750	0.750
FS6801-08-08-NWO-FG	1/2	13/16-16	3/4-16	1.10	1.60	0.938	0.750
FS6801-08-10-NWO-FG	1/2	13/16-16	7/8-14	1.21	1.97	1.062	1.062
FS6801-08-12-NWO-FG	1/2	13/16-16	1-1/16-12	1.320	2.170	1.375	1.188
FS6801-10-08-NWO-FG	5/8	1-14	3/4-16	1.31	1.80	0.938	1.062
FS6801-10-10-NWO-FG	5/8	1-14	7/8-14	1.31	1.97	1.062	1.062
FS6801-10-12-NWO-FG	5/8	1-14	1-1/16-12	1.410	2.170	1.375	1.188
FS6801-12-08-NWO-FG	3/4	1-3/16-12	3/4-16	1.470	1.840	0.938	1.188
FS6801-12-10-NWO-FG	3/4	1-3/16-12	7/8-14	1.47	2.01	1.062	1.188
FS6801-12-12-NWO-FG	3/4	1-3/16-12	1-1/16-12	1.47	2.17	1.375	1.188
FS6801-12-16-NWO-FG	3/4	1-3/16-12	1-5/16-12	1.62	2.35	1.625	1.438
FS6801-16-12-NWO-FG	1	1-7/16-12	1-1/16-12	1.640	2.320	1.375	1.438
FS6801-16-16-NWO-FG	1	1-7/16-12	1-5/16-12	1.64	2.35	1.625	1.438
FS6801-16-20-NWO-FG	1	1-7/16-12	1-5/8-12	1.760	2.450	1.875	1.625
FS6801-16-24-NWO-FG	1	1-7/16-12	1-7/8-12	1.920	2.590	2.125	1.875
FS6801-20-12-NWO-FG	1-1/4	1-11/16-12	1-1/16-12	1.760	2.420	1.375	1.625

Continued...

PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C HEX	JJ FLATS
FS6801-20-16-NWO-FG	1-1/4	1-11/16-12	1-5/16-12	1.76	2.45	1.625	1.625
FS6801-20-20-NWO-FG	1-1/4	1-11/16-12	1-5/8-12	1.760	2.450	1.875	1.625
FS6801-20-24-NWO-FG	1-1/4	1-11/16-12	1-7/8-12	1.92	2.59	2.125	1.875
FS6801-24-20-NWO-FG	1-1/2	2-12	1-5/8-12	1.920	2.590	1.875	1.875
FS6801-24-24-NWO-FG	1-1/2	2-12	1-7/8-12	1.920	2.590	2.125	1.875

FS6802-NWO-FG

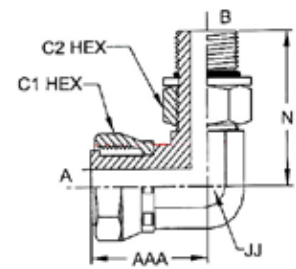
MFS-MAORB 45 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C HEX	JJ FLATS
FS6802-04-04-NWO-FG	1/4	9/16-18	7/16-20	0.630	1.180	0.625	0.562
FS6802-04-06-NWO-FG	1/4	9/16-18	9/16-18	0.68	1.30	0.750	0.750
FS6802-04-08-NWO-FG	1/4	9/16-18	3/4-16	0.67	1.43	0.938	0.750
FS6802-06-04-NWO-FG	3/8	11/16-16	7/16-20	0.740	1.220	0.625	0.750
FS6802-06-06-NWO-FG	3/8	11/16-16	9/16-18	0.74	1.30	0.750	0.750
FS6802-06-08-NWO-FG	3/8	11/16-16	3/4-16	0.740	1.430	0.938	0.750
FS6802-06-10-NWO-FG	3/8	11/16-16	7/8-14	0.760	1.760	1.062	1.062
FS6802-08-06-NWO-FG	1/2	13/16-16	9/16-18	0.80	1.27	0.750	0.750
FS6802-08-08-NWO-FG	1/2	13/16-16	3/4-16	0.800	1.430	0.938	0.750
FS6802-08-10-NWO-FG	1/2	13/16-16	7/8-14	0.82	1.76	1.062	1.062
FS6802-08-12-NWO-FG	1/2	13/16-16	1-1/16-12	0.87	1.97	1.375	1.188
FS6802-08-16-NWO-FG	1/2	13/16-16	1-5/16-12	1.03	2.11	1.625	1.438
FS6802-10-08-NWO-FG	5/8	1-14	3/4-16	0.920	1.590	0.938	1.062
FS6802-10-10-NWO-FG	5/8	1-14	7/8-14	0.92	1.76	1.062	1.062
FS6802-10-12-NWO-FG	5/8	1-14	1-1/16-12	0.960	1.970	1.375	1.188
FS6802-12-08-NWO-FG	3/4	1-3/16-12	3/4-16	1.020	1.640	0.938	1.188
FS6802-12-10-NWO-FG	3/4	1-3/16-12	7/8-14	1.020	1.810	1.062	1.188
FS6802-12-12-NWO-FG	3/4	1-3/16-12	1-1/16-12	1.02	1.97	1.375	1.188
FS6802-12-16-NWO-FG	3/4	1-3/16-12	1-5/16-12	1.160	2.060	1.625	1.438
FS6802-16-12-NWO-FG	1	1-7/16-12	1-1/16-12	1.180	2.030	1.375	1.438
FS6802-16-16-NWO-FG	1	1-7/16-12	1-5/16-12	1.180	2.060	1.625	1.438
FS6802-16-20-NWO-FG	1	1-7/16-12	1-5/8-12	1.26	2.11	1.875	1.625
FS6802-20-16-NWO-FG	1-1/4	1-11/16-12	1-5/16-12	1.260	2.110	1.625	1.625
FS6802-20-20-NWO-FG	1-1/4	1-11/16-12	1-5/8-12	1.260	2.110	1.875	1.625
FS6802-24-24-NWO-FG	1-1/2	2-12	1-7/8-12	1.45	2.11	2.125	1.875

FS6809-NWO-FG

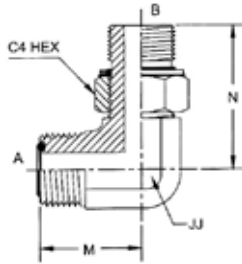
FFSS-MAORB 90 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	A HOLE	B HOLE	AAA LGTH	N LGTH	C1 HEX	C2 HEX	JJ FLATS
FS6809-04-04-NWO-FG	1/4	9/16-18	7/16-20	0.165	0.172	1.04	1.29	0.687	0.625	0.562
FS6809-06-06-NWO-FG	3/8	11/16-16	9/16-18	0.264	0.264	1.15	1.450	0.812	0.750	0.750
FS6809-08-08-NWO-FG	1/2	13/16-16	3/4-16	0.358	0.378	1.49	1.60	0.938	0.938	0.750
FS6809-10-10-NWO-FG	5/8	1-14	7/8-14	0.453	0.484	1.62	1.97	1.125	1.062	1.062
FS6809-12-12-NWO-FG	3/4	1-3/16-12	1-1/16-12	0.547	0.609	1.82	2.17	1.375	1.375	1.188
FS6809-16-16-NWO-FG	1	1-7/16-12	1-5/16-12	0.783	0.811	2.10	2.35	1.625	1.625	1.438
FS6809-20-20-NWO-FG	1 1/2	1-11/16-12	1-5/8-12	1.024	1.024	2.29	2.45	1.875	1.875	1.625

FS7202-NWO-FG

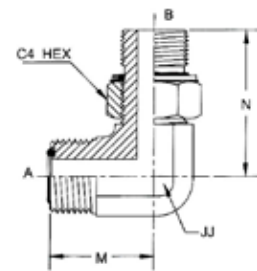
MFS-MBSPP 90 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C4 HEX	JJ HEX
FS7202-04-02-NWO-FG	1/4	9/16-18	1/8-28	21.5	30.0	14	14
FS7202-04-04-NWO-FG	1/4	9/16-18	1/4-19	23.5	36.0	19	19
FS7202-04-06-NWO-FG	1/4	9/16-18	3/8-19	24.7	38.0	22	19
FS7202-06-04-NWO-FG	3/8	11/16-16	1/4-19	25.0	36.0	19	19
FS7202-06-06-NWO-FG	3/8	11/16-16	3/8-19	26.5	38.0	22	19
FS7202-08-04-NWO-FG	1/2	13/16-16	1/4-19	27.93	36.07	19.00	19.00
FS7202-08-06-NWO-FG	1/2	13/16-16	3/8-19	28.0	38.0	22	19
FS7202-08-08-NWO-FG	1/2	13/16-16	1/2-14	30.8	48.5	27	27
FS7202-08-12-NWO-FG	1/2	13/16-16	3/4-14	33.5	51.5	36	30
FS7202-10-06-NWO-FG	5/8	1-14	3/8-19	33.3	41.9	22	24
FS7202-10-08-NWO-FG	5/8	1-14	1/2-14	33.3	48.5	27	27
FS7202-10-12-NWO-FG	5/8	1-14	3/4-14	35.8	51.5	36	30
FS7202-12-08-NWO-FG	3/4	1-3/16-12	1/2-14	37.3	48.5	27	27
FS7202-12-12-NWO-FG	3/4	1-3/16-12	3/4-14	37.50	51.50	36.00	30.00
FS7202-12-16-NWO-FG	3/4	1-3/16-12	1-11	41.2	58.5	41	36
FS7202-16-12-NWO-FG	1	1-7/16-12	3/4-14	41.7	55.2	36	36
FS7202-16-16-NWO-FG	1	1-7/16-12	1-11	41.7	58.5	41	36
FS7202-16-20-NWO-FG	1	1-7/16-12	1-1/4-11	44.5	61.0	50	41
FS7202-20-16-NWO-FG	1 1/4	1-11/16-12	1-11	44.70	62.00	41.30	41.30
FS7202-20-20-NWO-FG	1 1/4	1-11/16-12	1-1/4-11	44.7	62.2	50	41
FS7202-20-24-NWO-FG	1 1/4	1-11/16-12	1-1/2-11	48.8	65.8	55	50
FS7202-24-24-NWO-FG	1 1/2	2-12	1-1/2-11	48.8	65.8	55	50

FS7205-NWO-FG

MFS-MMAORB 90 DEG ELBOW



PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C4 HEX	JJ FLATS
FS7205-04-12-NWO-FG	1/4	9/16-18	M12 x 1.5	21.5	33.0	17	14
FS7205-04-14-NWO-FG	1/4	9/16-18	M14 x 1.5	23.5	35.5	19	17
FS7205-06-10-NWO-FG	3/8	11/16-16	M10 x 1	25.00	32.00	14.00	17.00
FS7205-06-12-NWO-FG	3/8	11/16-16	M12 x 1.5	25.0	35.5	17	17
FS7205-06-14-NWO-FG	3/8	11/16-16	M14 x 1.5	25.0	35.5	19	17
FS7205-06-16-NWO-FG	3/8	11/16-16	M16 x 1.5	25.0	37.0	22.0	19.0
FS7205-06-18-NWO-FG	3/8	11/16-16	M18 x 1.5	26.4	40.6	24	19
FS7205-08-14-NWO-FG	1/2	13/16-16	M14 x 1.5	28.0	36.0	19	19
FS7205-08-16-NWO-FG	1/2	13/16-16	M16 x 1.5	28.0	38.0	22	19
FS7205-08-18-NWO-FG	1/2	13/16-16	M18 x 1.5	28.00	41.00	24.00	19.00
FS7205-10-18-NWO-FG	5/8	1-14	M18 x 1.5	33.3	47.5	24	24
FS7205-10-22-NWO-FG	5/8	1-14	M22x1.5	33.30	49.00	27.00	27.00
FS7205-10-27-NWO-FG	5/8	1-14	M27 x 2.0	35.8	55.5	32	27
FS7205-12-22-NWO-FG	3/4	1-3/16-12	M22 x 1.5	37.3	49.0	27	27
FS7205-12-27-NWO-FG	3/4	1-3/16-12	M27 x 2.0	37.5	55.5	32.0	30.0
FS7205-16-33-NWO-FG	1	1-7/16-12	M33 x 2.0	41.7	59.5	41	36
FS7205-20-42-NWO-FG	1 1/4	1-11/16-12	M42 x 2.0	44.7	63.0	50	41
FS7205-24-48-NWO-FG	1 1/2	2-12	M48 x 2.0	48.8	71.5	55	50

**LEARN EVERYTHING YOU NEED TO KNOW
ABOUT FITTINGS, ADAPTERS AND
THE INDUSTRIES USING THEM.**



FITTINGS 101
BEGIN LEARNING TODAY



INDUSTRY
LEARN ABOUT THE IND



BRENNAN

UNIVERSITY

BRENNANINC.COM/BRENNAN-UNIVERSITY

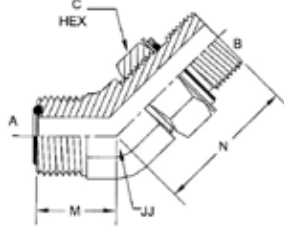
INSIGHTS
INDUSTRIES WE SUPPORT

RESOURCES
BROWSE OUR LITERATURE



FS7300-NWO-FG

MFS-MMAORB 45 DEG ELBOW

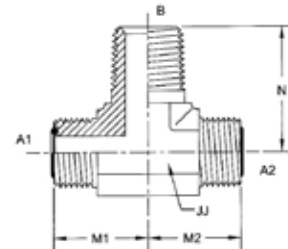


PART NO.	TUBE O.D.	A THREAD	B THREAD	M LGTH	N LGTH	C HEX	JJ FLATS
FS7300-04-12-NWO-FG	1/4	9/16-18	M12 x 1.5	16.0	30.0	17	14
FS7300-04-14-NWO-FG	1/4	9/16-18	M14 x 1.5	17.5	31.5	19	17
FS7300-06-16-NWO-FG	3/8	11/16-16	M16 x 1.5	19.0	33.5	22	17
FS7300-08-14-NWO-FG	1/2	13/16-16	M14 x 1.5	20.5	32.0	19	19
FS7300-08-18-NWO-FG	1/2	13/16-16	M18 x 1.5	20.5	37.0	24	19
FS7300-10-22-NWO-FG	5/8	1-14	M22 x 1.5	23.5	44.0	27	24
FS7300-12-27-NWO-FG	3/4	1 3/16-12	M27 x 2.0	26.0	50.5	32	27
FS7300-16-33-NWO-FG	1	1 7/16-12	M33 x 2.0	30.0	52.5	41	36
FS7300-24-48-NWO-FG	1 1/2	2-12	M47 x 2.0	37.0	56.5	55	50

TEES

FS2601-FG

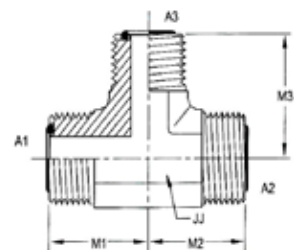
MFS-MFS-MP TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	B THREAD	M1 LGTH	M2 LGTH	N LGTH	JJ FLATS
FS2601-04-04-04-FG	1/4	9/16-18	9/16-18	1/4-18	0.85	0.85	1.12	0.562
FS2601-06-06-04-FG	3/8	11/16-16	11/16-16	1/4-18	0.98	0.98	1.09	0.750
FS2601-06-06-06-FG	3/8	11/16-16	11/16-16	3/8-18	0.98	0.98	1.22	0.750
FS2601-08-08-08-FG	1/2	13/16-16	13/16-16	1/2-14	1.10	1.10	1.47	0.875
FS2601-10-10-08-FG	5/8	1-14	1-14	1/2-14	1.31	1.31	1.59	1.062
FS2601-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	3/4-14	1.47	1.47	1.59	1.188
FS2601-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-11-1/2	1.640	1.640	1.970	1.438
FS2601-20-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1-11/4-11-1/2	1.760	1.760	2.380	1.625

FS2603-FG

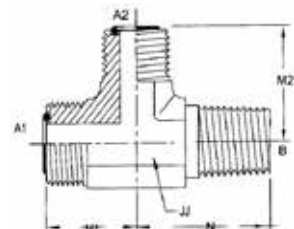
MFS-MFS-MFS TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	M1 LGTH	M2 LGTH	M3 LGTH	JJ FLATS
FS2603-04-04-04-FG	1/4	9/16-18	9/16-18	9/16-18	0.85	0.85	0.85	0.562
FS2603-06-06-06-FG	3/8	11/16-16	11/16-16	11/16-16	0.980	0.980	0.980	0.750
FS2603-06-06-08-FG	3/8 1/2	11/16-16	11/16-16	13/16-16	1.040	1.040	1.100	0.750
FS2603-06-08-08-FG	3/8 1/2	11/16-16	13/16-16	13/16-16	1.04	1.10	1.10	0.750
FS2603-08-08-06-FG	1/2	13/16-16	13/16-16	11/16-16	1.10	1.10	1.04	.750
FS2603-08-08-08-FG	1/2	13/16-16	13/16-16	13/16-16	1.10	1.10	1.10	0.750
FS2603-08-08-10-FG	1/2 5/8	13/16-16	13/16-16	1-14	1.21	1.21	1.31	1.062
FS2603-10-10-10-FG	5/8	1-14	1-14	1-14	1.31	1.31	1.31	1.062
FS2603-12-12-08-FG	3/4	1-3/16-12	1-3/16-12	13/16-16	1.469	1.469	1.350	1.188
FS2603-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	1-3/16-12	1.47	1.47	1.47	1.188
FS2603-16-16-12-FG	1	1-7/16-12	1-7/16-12	1-3/16-12	1.64	1.64	1.62	1.438
FS2603-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-7/16-12	1.64	1.64	1.64	1.438
FS2603-20-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1-11/16-12	1.76	1.76	1.76	1.625
FS2603-24-24-24-FG	1-1/2	2-12	2-12	2-12	1.92	1.92	1.92	1.875
FS2603-32-32-32-FG	2	2-1/2-12	2-1/2-12	2-1/2-12	2.52	2.52	2.52	2.562

FS2605-FG

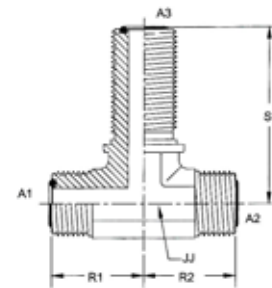
MFS-MP-MFS TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	M LENGTH	M1 LENGTH	L LENGTH	A/F
FS2605-04-04-04-FG	1/4	9/16-18	1/4-18	9/16-18	0.850	0.850	1.120	0.562
FS2605-06-06-06-FG	3/8	11/16-16	3/8-18	11/16-16	0.980	0.980	1.220	0.750
FS2605-08-08-08-FG	1/2	13/16-16	1/2-14	13/16-16	1.100	1.100	1.470	0.875
FS2605-12-12-12-FG	3/4	1-3/16-12	3/4-14	1-3/16-12	1.470	1.470	1.590	1.188
FS2605-16-16-16-FG	1	1-7/16-12	1-11/2	1-7/16-12	1.640	1.640	1.970	1.438

FS2703-FG

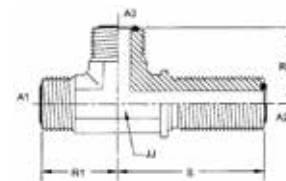
MFS-MFS-MFS BULKHEAD TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	R1 LGTH	R2 LGTH	SLGTH	JJ FLATS
FS2703-04-04-04-FG	1/4	9/16-18	9/16-18	9/16-18	0.890	0.890	1.850	0.562
FS2703-06-06-06-FG	3/8	11/16-16	11/16-16	11/16-16	1.020	1.020	2.050	0.750
FS2703-06-06-08-FG	3/8	11/16-16	11/16-16	13/16-16	1.08	1.08	2.18	0.75
FS2703-08-08-08-FG	1/2	13/16-16	13/16-16	13/16-16	1.14	1.14	2.18	0.750
FS2703-08-08-12-FG	1/2	13/16-16	13/16-16	1-3/16-16	1.341	1.341	2.66	1.188
FS2703-10-10-10-FG	5/8	1-14	1-14	1-14	1.36	1.36	2.48	1.062
FS2703-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	1-3/16-12	1.52	1.52	2.65	1.188
FS2703-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-7/16-12	1.670	1.670	2.800	1.438
FS2703-20-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1-11/16-12	1.790	1.790	2.970	1.625

FS2704-FG

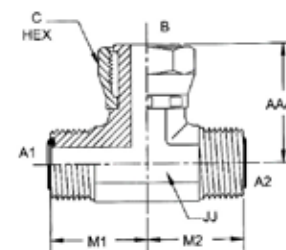
MFS-MFS-MFS BULKHEAD RUN TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	R1 LGTH	SLGTH	R2 LGTH	JJ FLATS
FS2704-04-04-04-FG	1/4	9/16-18	9/16-18	9/16-18	0.890	1.850	0.890	0.562
FS2704-06-06-06-FG	3/8	11/16-16	11/16-16	11/16-16	1.02	2.05	1.02	0.750
FS2704-08-08-08-FG	1/2	13/16-16	13/16-16	13/16-16	1.14	2.18	1.14	0.750
FS2704-10-10-10-FG	5/8	1-14	1-14	1-14	1.36	2.48	1.36	1.062
FS2704-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	1-3/16-12	1.52	2.65	1.52	1.188
FS2704-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-7/16-12	1.67	2.80	1.67	1.438
FS2704-20-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1-11/16-12	1.79	2.97	1.79	1.625

FS6600-FG

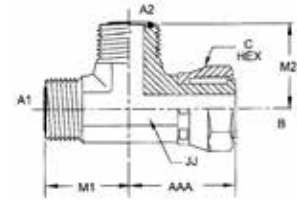
MFS-MFS-FFSS BRANCH TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	B THREAD	M1 LGTH	M2 LGTH	AAA LGTH	C HEX	JJ FLATS
FS6600-04-04-04-FG	1/4	9/16-18	9/16-18	9/16-18	0.85	0.85	1.04	0.687	0.562
FS6600-04-04-06-FG	1/4	9/16-18	9/16-18	11/16-16	0.92	0.92	1.15	0.812	0.750
FS6600-06-06-06-FG	3/8	11/16-16	11/16-16	11/16-16	0.98	0.98	1.15	0.812	0.750
FS6600-08-08-08-FG	1/2	13/16-16	13/16-16	13/16-16	1.10	1.10	1.49	0.938	0.750
FS6600-10-10-10-FG	5/8	1-14	1-14	1-14	1.31	1.31	1.62	1.125	1.062
FS6600-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	1-3/16-12	1.47	1.47	1.82	1.375	1.188
FS6600-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-7/16-12	1.64	1.64	2.10	1.625	1.438
FS6600-20-20-20-FG	1 1/4	1-11/16-12	1-11/16-12	1-11/16-12	1.76	1.76	2.29	1.875	1.625
FS6600-24-24-24-FG	1-1/2	2-12	2-12	2-12	1.920	1.920	2.410	2.250	1.875

FS6602-FG

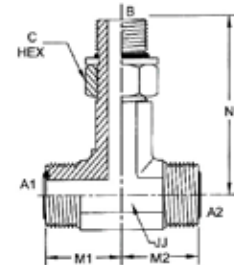
MFS-FFSS-MFS RUN TEE



PART NO.	TUBE O.D.	A1 THREAD	B THREAD	A2 THREAD	M1 LGTH	AAA LGTH	M2 LGTH	C HEX	JJ FLATS
FS6602-04-04-04-FG	1/4	9/16-18	9/16-18	9/16-18	0.85	1.04	0.85	0.687	0.562
FS6602-06-06-04-FG	3/8	11/16-16	11/16-16	9/16-18	0.98	1.15	0.92	0.812	0.750
FS6602-06-06-06-FG	3/8	11/16-16	11/16-16	11/16-16	0.98	1.15	0.98	0.812	0.750
FS6602-06-08-06-FG	1/2	11/16-16	13/16-16	11/16-16	1.04	1.49	1.04	0.938	0.750
FS6602-06-08-08-FG	1/2	11/16-16	13/16-16	13/16-16	1.040	1.490	1.100	0.938	0.750
FS6602-08-08-06-FG	1/2	13/16-16	13/16-16	11/16-16	1.10	1.49	1.04	0.938	0.750
FS6602-08-08-08-FG	1/2	13/16-16	13/16-16	13/16-16	1.10	1.49	1.10	0.938	0.750
FS6602-10-10-10-FG	5/8	1-14	1-14	1-14	1.31	1.62	1.31	1.125	1.062
FS6602-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	1-3/16-12	1.47	1.82	1.47	1.375	1.188
FS6602-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-7/16-12	1.64	2.10	1.64	1.625	1.438
FS6602-20-20-20-FG	1 1/4	1-11/16-12	1-11/16-12	1-11/16-12	1.76	2.29	1.76	1.875	1.625
FS6602-24-24-24-FG	1 1/2	2-12	2-12	2-12	1.92	2.41	1.92	2.250	1.875

FS6803-L-NWO-FG

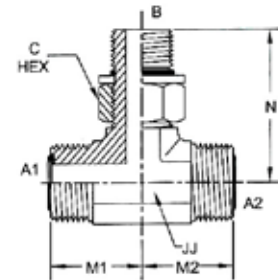
MFS-MFS-MAORB TEE LONG



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	B THREAD	M1 LGTH	M2 LGTH	N LGTH	C HEX	JJ FLATS
FS6803-L-12-12-12-NWO-FG	3/4	1-3/16-12	1-3/16-12	1-1/16-12	1.47	1.47	2.67	1.375	1.188

FS6803-NWO-FG

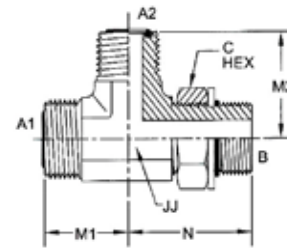
MFS-MFS-MAORB TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	B THREAD	M1 LGTH	M2 LGTH	N LGTH	C HEX	JJ FLATS
FS6803-04-04-04-NWO-FG	1/4	9/16-18	9/16-18	7/16-20	0.85	0.85	1.29	0.625	0.562
FS6803-04-04-06-NWO-FG	1/4	9/16-18	9/16-18	9/16-18	0.920	0.920	1.450	0.750	0.750
FS6803-06-06-04-NWO-FG	3/8	11/16-16	11/16-16	7/16-20	0.980	0.980	1.370	0.750	0.750
FS6803-06-06-06-NWO-FG	3/8	11/16-16	11/16-16	9/16-18	0.98	0.98	1.45	0.750	0.750
FS6803-06-06-08-NWO-FG	3/8	11/16-16	11/16-16	3/4-16	1.040	1.040	1.600	0.750	0.750
FS6803-06-08-10-NWO-FG	3/8 / 1/2 / 5/8	11/16-16	13/16-16	7/8-14	1.190	1.202	1.980	1.0625	0.875
FS6803-08-08-08-NWO-FG	1/2	13/16-16	13/16-16	3/4-16	1.10	1.10	1.60	0.937	0.750
FS6803-10-10-10-NWO-FG	5/8	1-14	1-14	7/8-14	1.31	1.31	1.97	1.062	1.062
FS6803-12-12-12-NWO-FG	3/4	1-3/16-12	1-3/16-12	1-1/16-12	1.47	1.47	2.17	1.375	1.188
FS6803-16-16-16-NWO-FG	1	1-7/16-12	1-7/16-12	1-5/16-12	1.64	1.64	2.35	1.625	1.438
FS6803-20-20-20-NWO-FG	1 1/4	1-11/16-12	1-11/16-12	1-5/8-12	1.760	1.760	2.450	1.875	1.625

FS6804-NWO-FG

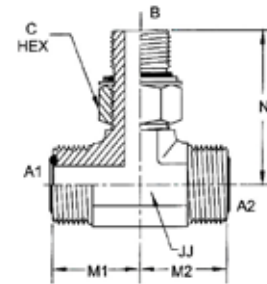
MFS-MAORB-MFS TEE



PART NO.	TUBE O.D.	A1 THREAD	B THREAD	A2 THREAD	M1 LGTH	N LGTH	M2 LGTH	C HEX	JJ FLATS
FS6804-04-04-04-NWO-FG	1/4	9/16-18	7/16-20	9/16-18	0.85	1.29	0.85	0.625	0.562
FS6804-04-06-04-NWO-FG	1/4	9/16-18	9/16-18	9/16-18	0.92	1.45	0.92	0.750	0.750
FS6804-04-08-04-NWO-FG	1/4	9/16-18	3/4-16	9/16-18	0.980	1.600	0.980	0.750	0.938
FS6804-06-04-06-NWO-FG	3/8	11/16-16	7/16-20	11/16-16	0.980	1.370	0.980	0.625	0.750
FS6804-06-06-06-NWO-FG	3/8	11/16-16	9/16-18	11/16-16	0.980	1.450	0.980	0.750	0.750
FS6804-06-08-06-NWO-FG	3/8	11/16-16	3/4-16	11/16-16	1.040	1.600	1.040	0.938	0.750
FS6804-08-06-08-NWO-FG	1/2	13/16-16	9/16-18	13/16-16	1.100	1.440	1.100	0.750	0.750
FS6804-08-08-04-NWO-FG	1/2	13/16-16	3/4-16	9/16-18	1.10	1.60	0.97	0.938	0.750
FS6804-08-08-08-NWO-FG	1/2	13/16-16	3/4-16	13/16-16	1.100	1.600	1.100	0.938	0.750
FS6804-08-10-08-NWO-FG	1/2	13/16-16	7/8-14	13/16-16	1.210	1.970	1.210	1.062	1.062
FS6804-08-12-04-NWO-FG	1/2	13/16-16	1-1/16-12	9/16-18	1.32	2.17	1.19	1.375	1.188
FS6804-08-12-08-NWO-FG	1/2	13/16-16	1-1/16-12	13/16-16	1.320	2.170	1.320	1.375	1.188
FS6804-10-10-06-NWO-FG	5/8	1-14	7/8-14	11/16-16	1.310	1.970	1.150	1.062	1.062
FS6804-10-10-10-NWO-FG	5/8	1-14	7/8-14	1-14	1.310	1.970	1.310	1.062	1.062
FS6804-10-12-10-NWO-FG	5/8	1-14	1-1/16-12	1-14	1.41	2.17	1.41	1.375	1.188
FS6804-12-08-12-NWO-FG	3/4	1-3/16-12	3/4-16	1-3/16-12	1.47	1.84	1.47	0.938	1.188
FS6804-12-12-08-NWO-FG	3/4	1-3/16-12	1-1/16-12	13/16-16	1.470	2.170	1.320	1.375	1.188
FS6804-12-12-12-NWO-FG	3/4	1-3/16-12	1-1/16-12	1-3/16-12	1.47	2.17	1.47	1.375	1.188
FS6804-12-12-16-NWO-FG	3/4	1-3/16-12	1-1/16-12	1-7/16-12	1.62	2.32	1.64	1.375	1.438
FS6804-12-16-12-NWO-FG	3/4	1-3/16-12	1-5/16-12	1-3/16-12	1.620	2.350	1.620	1.625	1.438
FS6804-16-12-12-NWO-FG	1	1-7/16-12	1-1/16-12	1-3/16-12	1.64	2.32	1.62	1.375	1.438
FS6804-16-12-16-NWO-FG	1	1-7/16-12	1-1/16-12	1-7/16-12	1.640	2.320	1.640	1.375	1.438
FS6804-16-16-16-NWO-FG	1	1-7/16-12	1-5/16-12	1-7/16-12	1.640	2.350	1.640	1.625	1.438
FS6804-16-24-16-NWO-FG	1	1-7/16-12	1-7/8-12	1-7/16-12	1.92	2.59	1.92	2.125	1.875
FS6804-20-20-20-NWO-FG	1-1/4	1-11/16-12	1-5/8-12	1-11/16-12	1.760	2.450	1.760	1.875	1.625
FS6804-24-24-24-NWO-FG	1 1/2	2-12	1-7/8-12	2-12	1.920	2.590	1.920	2.125	1.875

FS7210-NWO-FG

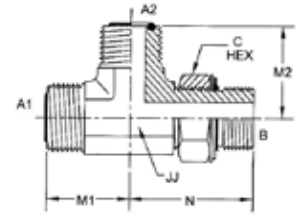
MFS-MFS-MMAORB TEE



PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	B THREAD	M1 LGTH	M2 LGTH	N LGTH	C HEX	JJ FLATS
FS7210-04-04-12-NWO-FG	1/4	9/16-18	9/16-18	M12 x 1.5	21.5	21.5	33.0	17	14
FS7210-04-04-14-NWO-FG	1/4	9/16-18	9/16-18	M14 x 1.5	23.5	23.5	35.5	19	17
FS7210-06-06-14-NWO-FG	3/8	11/16-16	11/16-16	M14 x 1.5	25.0	25.0	35.5	19	17
FS7210-06-06-16-NWO-FG	3/8	11/16-16	11/16-16	M16 x 1.5	25.0	25.0	37.5	12	17
FS7210-08-08-14-NWO-FG	1/2	13/16-16	13/16-16	M14 x 1.5	28.0	28.0	36.0	19	19
FS7210-08-08-18-NWO-FG	1/2	13/16-16	13/16-16	M18 x 1.5	28.0	28.0	41.0	24	19
FS7210-08-08-22-NWO-FG	1/2	13/16-16	13/16-16	M22 x 1.5	31.0	31.0	49.0	27	24
FS7210-10-10-22-NWO-FG	5/8	1-14	1-14	M22 x 1.5	33.5	33.5	49.0	27	24
FS7210-12-12-27-NWO-FG	3/4	1 3/16-12	1 3/16-12	M27 x 2.0	37.5	37.5	55.5	32	27
FS7210-16-16-33-NWO-FG	1	1 7/8-12	1 7/8-12	M33 x 2.0	41.5	41.5	59.5	41	36
FS7210-20-20-42-NWO-FG	1 1/4	1 11/16-12	1 11/16-12	M42 x 2.0	44.5	44.5	63.0	50	41
FS7210-24-24-48-NWO-FG	1 1/2	2-12	2-12	M48 x 2.0	49.0	49.0	71.5	55	50

FS7215-NWO-FG

MFS-MMAORB-MFS TEE

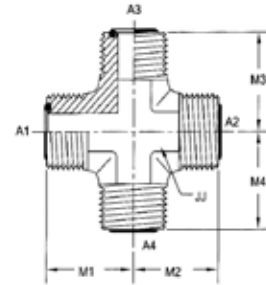


PART NO.	TUBE O.D.	A1 THREAD	B THREAD	A2 THREAD	M1 LGTH	N LGTH	M2 LGTH	C HEX	JJ FLATS
FS7215-04-12-04-NWO-FG	1/4	9/16-18	M12 x 1.5	9/16-18	21.5	33.0	21.5	17	14
FS7215-04-14-04-NWO-FG	1/4	9/16-18	M14 x 1.5	9/16-18	23.5	35.5	23.5	19	17
FS7215-06-14-06-NWO-FG	3/8	11/16-16	M14 x 1.5	11/16-16	25.0	35.5	25.0	19	17
FS7215-06-16-06-NWO-FG	3/8	11/16-16	M16 x 1.5	11/16-16	25.0	37.5	25.0	22	17
FS7215-08-14-08-NWO-FG	1/2	13/16-16	M14 x 1.5	13/16-16	28.0	36.0	28.0	19	19
FS7215-08-18-08-NWO-FG	1/2	13/16-16	M18 x 1.5	13/16-16	28.0	41.0	28.0	24	19
FS7215-08-22-08-NWO-FG	1/2	13/16-16	M22 x 1.5	13/16-16	31.0	49.0	31.0	27	24
FS7215-10-18-10-NWO-FG	5/8	1-14	M18 x 1.5	1-14	33.5	47.5	33.5	24	24
FS7215-10-22-10-NWO-FG	5/8	1-14	M22 x 1.5	1-14	33.5	49.0	33.5	27	24
FS7215-12-27-12-NWO-FG	3/4	1 3/16-12	M27 x 2.0	1 3/16-12	37.5	55.5	37.5	32	27
FS7215-16-33-16-NWO-FG	1	1 7/16-12	M33 x 2.0	1 7/16-12	41.5	59.5	41.5	41	36
FS7215-20-42-20-NWO-FG	1 1/4	1 11/16-12	M42 x 2.0	1 11/16-12	44.5	63.0	44.5	50	41
FS7215-24-48-24-NWO-FG	1 1/2	2-12	M48 x 2.0	2-12	49.0	71.5	49.0	55	50

CROSSES

FS2650-FG

MFS-MFS-MFS-MFS-CROSS

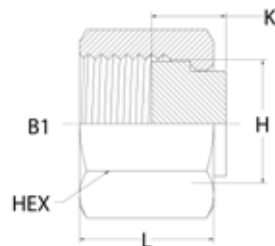


PART NO.	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	A4 THREAD	M1 LGTH	M2 LGTH	M3 LGTH	M4 LGTH	JJ FLATS
FS2650-04-04-04-04-FG	1/4	9/16-18	9/16-18	9/16-18	9/16-18	0.85	0.85	0.85	0.85	0.562
FS2650-06-06-06-06-FG	3/8	11/16-16	11/16-16	11/16-16	11/16-16	0.98	0.98	0.98	0.98	0.750
FS2650-08-08-08-08-FG	1/2	13/16-16	13/16-16	13/16-16	13/16-16	1.100	1.100	1.100	1.100	0.750
FS2650-10-10-10-10-FG	5/8	1-14	1-14	1-14	1-14	1.31	1.31	1.31	1.31	1.062
FS2650-12-12-12-12-FG	3/4	1-3/16-12	1-3/16-12	1-3/16-12	1-3/16-12	1.47	1.47	1.47	1.47	1.188
FS2650-16-16-16-16-FG	1	1-7/16-12	1-7/16-12	1-7/16-12	1-7/16-12	1.64	1.64	1.64	1.64	1.438
FS2650-20-20-20-20-FG	1-1/4	1-11/16-12	1-11/16-12	1-11/16-12	1-11/16-12	1.76	1.76	1.76	1.76	1.625
FS2650-24-24-24-24-FG	1-1/2	2-12	2-12	2-12	2-12	1.92	1.92	1.92	1.92	1.875

NUTS & ACCESSORIES

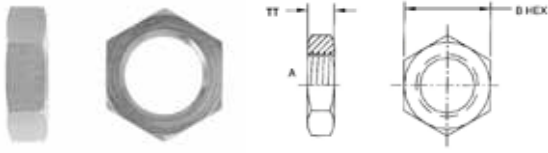
FS0304-C

CAP ASSEMBLY INSERT



PART NO.	TUBE O.D.	H.O.D.	K LGTH	B1	HEX	L
FS0304-C-04	1/4	0.502	0.340	9/16-18	0.688	0.580
FS0304-C-06	3/8	0.620	0.37	11/16-16	0.812	0.670
FS0304-C-08	1/2	0.745	0.47	13/16-16	0.938	0.830
FS0304-C-10	5/8	0.923	0.470	1-14	1.125	0.930
FS0304-C-12	3/4	1.097	0.530	1-3/16-12	1.375	1.020
FS0304-C-16	1	1.347	0.590	1-7/16-12	1.625	1.090
FS0304-C-20	1-1/4	1.597	0.59	1-11/16-12	1.875	1.090
FS0304-C-24	1-1/2	1.910	0.590	2-12	2.250	1.090

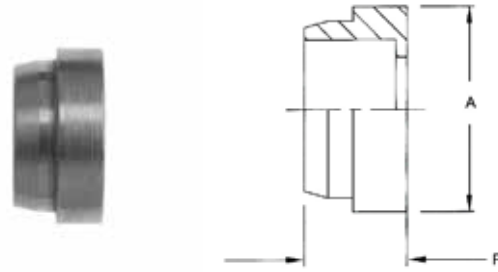
FS0306 BULKHEAD LOCK NUT



PART NO. **TUBE O.D.** **A THREAD** **B HEX** **TT WIDTH**

FS0306-04	1/4	9/16-18	0.812	0.270
FS0306-06	3/8	11/16-16	1.000	0.31
FS0306-08	1/2	13/16-16	1.125	0.35
FS0306-10	5/8	1-14	1.312	0.41
FS0306-12	3/4	1-3/16-12	1.500	0.410
FS0306-16	1	1-7/16-12	1.750	0.41
FS0306-20	1-1/4	1-11/16-12	2.000	0.41
FS0306-24	1-1/2	2-12	2.375	0.41

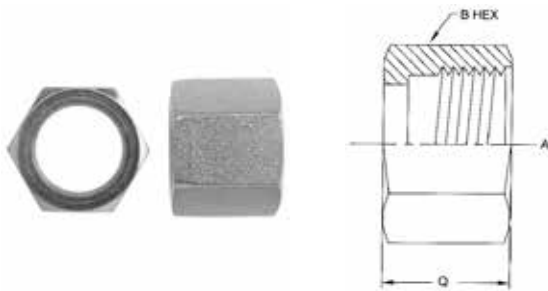
FS0319 BRAZE SLEEVE



PART NO. **TUBE O.D.** **A O.D.** **FLGTH**

FS0319-04	1/4	0.502	0.374
FS0319-06	3/8	0.620	0.374
FS0319-08	1/2	0.745	0.374
FS0319-10	5/8	0.923	0.413
FS0319-12	3/4	1.097	0.551
FS0319-16	1	1.347	0.610
FS0319-20	1-1/4	1.597	0.610
FS0319-24	1-1/2	1.910	0.610

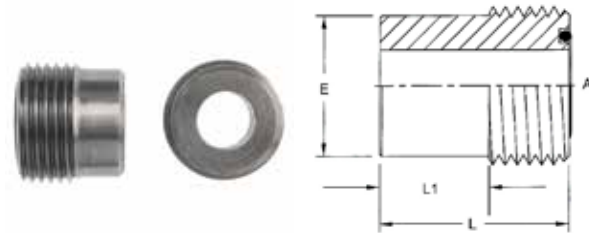
FS0318 NUT



PART NO. **TUBE O.D.** **A THREAD** **B HEX** **Q WIDTH**

FS0318-04	1/4	9/16-18	0.687	0.580
FS0318-06	3/8	11/16-16	0.812	0.670
FS0318-08	1/2	13/16-16	0.938	0.827
FS0318-10	5/8	1-14	1.125	0.925
FS0318-12	3/4	1-3/16-12	1.375	1.024
FS0318-16	1	1-7/16-12	1.625	1.095
FS0318-20	1-1/4	1-11/16-12	1.875	1.095
FS0318-24	1-1/2	2-12	2.250	1.095

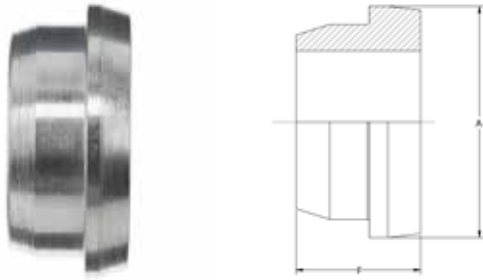
FS0403-TS MFS TUBE SPUD



PART NO. **E* DIA** **A THREAD** **L1 LGTH** **LLGTH**

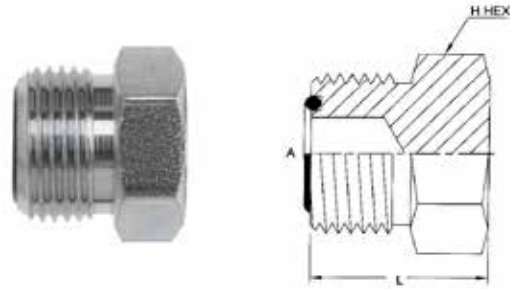
FS0403-TS-04-04	0.468	9/16-18	0.454	0.735
FS0403-TS-06-06	0.594	11/16-16	0.340	0.751
FS0403-TS-08-08	0.719	13/16-16	0.292	0.694
FS0403-TS-10-10	0.891	1-14	0.570	1.070
FS0403-TS-12-12	1.069	1-3/16-12	0.408	0.945
FS0403-TS-16-16	1.319	1-7/16-12	0.473	1.029

FS1319 MECHANICALLY FORMED FLANGE SLEEVE



PART NO.	TUBE O.D.	A O.D.	F LGTH
FS1319-04	1/4	0.50	0.30
FS1319-06	3/8	0.62	0.34
FS1319-08	1/2	0.74	0.42
FS1319-10	5/8	0.92	0.42
FS1319-12	3/4	1.10	0.47
FS1319-16	1	1.34	0.53
FS1319-20	1 1/4	1.59	0.52
FS1319-24	1 1/2	1.91	0.49

FS2408 MFS PLUG



PART NO.	A THREAD	L LGTH	H HEX
FS2408-04	9/16-18	0.660	0.625
FS2408-06	11/16-16	0.750	0.750
FS2408-08	13/16-16	0.850	0.875
FS2408-10	1-14	1.020	1.062
FS2408-12	1-3/16-12	1.080	1.250
FS2408-16	1-7/16-12	1.099	1.500
FS2408-20	1-11/16-12	1.099	1.750
FS2408-24	2-12	1.090	2.125
FS2408-32	2-1/2-12	1.398	2.750

INDEX

FS0304-C	CAP ASSEMBLY INSERT	PAGE: 17	FS6400-0	MFS-MORB STRAIGHT	PAGE: 5
FS0306	BULKHEAD LOCK NUT	PAGE: 17	FS6402	MFS-FJS STRAIGHT	PAGE: 5
FS0318	NUT	PAGE: 18	FS6403	MFS-MJ STRAIGHT	PAGE: 5
FS0319	BRAZE SLEEVE	PAGE: 18	FS6410	FORB-MFS STRAIGHT	PAGE: 6
FS0403	BORE-MFS STRAIGHT	PAGE: 3	FS6500-FG	MFS-FFSS 90 DEG ELBOW	PAGE: 8
FS0403-TS	MFS TUBE SPUD	PAGE: 18	FS6502-FG	MFS-FFSS 45 DEG ELBOW	PAGE: 9
FS0406	BORE-MFS BULKHEAD	PAGE: 3	FS6503-FG	FP-FFSS 90 DEG ELBOW	PAGE: 9
FS1319	MECHANICALLY FORMED FLANGE SLEEVE	PAGE: 18	FS6504	FFSS-MJ STRAIGHT	PAGE: 6
FS2403	MFS-MFS STRAIGHT	PAGE: 3	FS6505	MP-FFSS STRAIGHT	PAGE: 6
FS2404	MFS-MP STRAIGHT	PAGE: 3	FS6540-0	FFSS-MORB STRAIGHT	PAGE: 6
FS2405	FS-FP STRAIGHT	PAGE: 4	FS6565	FFSS-FFSS STRAIGHT	PAGE: 6
FS2406	FFS-MFS TUBE END REDUCER	PAGE: 4	FS6600-FG	MFS-MFS-FFSS BRANCH TEE	PAGE: 14
FS2408	MFS PLUG	PAGE: 18	FS6602-FG	MFS-FFSS-MFS RUN TEE	PAGE: 14
FS2500-FG	MFS-MFS 90 DEG ELBOW	PAGE: 7	FS6801-L-NW0-FG	MFS-MORB 90 DEG ELBOW LONG	PAGE: 9
FS2501-FG	MFS-MP 90 DEG ELBOW	PAGE: 7	FS6801-LL-NW0-FG	MFS-MAORB 90 DEG ELBOW EXTRA LONG	PAGE: 9
FS2503-FG	MFS-MP 45 DEG ELBOW	PAGE: 8	FS6801-NW0-FG	MFS-MAORB 90 DEG ELBOW	PAGE: 9
FS2601-FG	MFS-MFS-MP TEE	PAGE: 12	FS6802-NW0-FG	MFS-MAORB 45 DEG ELBOW	PAGE: 10
FS2603-FG	MFS-MFS-MFS TEE	PAGE: 12	FS6803-L-NW0-FG	MFS-MFS-MAORB TEE LONG	PAGE: 14
FS2605-FG	MFS-MP-MFS TEE	PAGE: 13	FS6803-NW0-FG	MFS-MFS-MAORB TEE	PAGE: 15
FS2650-FG	MFS-MFS-MFS-MFS-CROSS	PAGE: 17	FS6804-NW0-FG	MFS-MAORB-MFS TEE	PAGE: 15
FS2700	MFS-MFS BULKHEAD UNION	PAGE: 4	FS6809-NW0-FG	FFSS-MAORB 90 DEG ELBOW	PAGE: 10
FS2701-FG	MFS-MFS BULKHEAD 90 DEG ELBOW	PAGE: 8	FS7005	MFS-MM STRAIGHT	PAGE: 7
FS2702-FG	MFS-MFS BULKHEAD 45 DEG ELBOW	PAGE: 8	FS7202-NW0-FG	MFS-MBSPP 90 DEG ELBOW	PAGE: 11
FS2703-FG	MFS-MFS-MFS BULKHEAD TEE	PAGE: 13	FS7205-NW0-FG	MFS-MMAORB 90 DEG ELBOW	PAGE: 11
FS2704-FG	MFS-MFS-MFS BULKHEAD RUN TEE	PAGE: 13	FS7210-NW0-FG	MFS-MFS-MMAORB TEE	PAGE: 16
FS2764	MFS BULKHEAD-MORB STRAIGHT	PAGE: 4	FS7215-NW0-FG	MFS-MMAORB-MFS TEE	PAGE: 16
FS6400-L-0	MFS-MORB STRAIGHT LONG	PAGE: 5	FS7300-NW0-FG	MFS-MMAORB 45 DEG ELBOW	PAGE: 11
			FS7640-0	MFS-MMORB ISO6149-2 STRAIGHT	PAGE: 7



With 16 strategically located, full-service distribution centers across North America, Europe and Asia, our goal is to provide your fittings as fast as possible- when and where you need them.



MAKING CONNECTIONS

Brennan supplies customers worldwide with more than 120,000 standard and special hydraulic fittings, adapters and O-rings in sizes ranging from 1/16 to 3 inches. These include a wide choice of fitting and adapter types such as tube, O-ring face seal, instrumentation, metric bite type, push-to-connect, conversion and flareless bite type, as well as valves, clamps and swivels.

Brennan fittings are manufactured to the highest standards, meeting or exceeding J.I.C./S.A.E. and international specifications, with quality control certifications including DIN, ISO, ITAR, ASTM, NADCAP and AS9100.

brennaninc.com

CATALOG INFORMATION

The content of this catalogue has been prepared with care, but Brennan Industries, its subsidiaries, and its authorized distributors are not responsible for any inadvertent typographical errors or omissions. The content herein, including, without limitation, product features, specifications, designs, availability, and pricing, is subject to change without notice and is only accurate as of the date of publication. For more current information, please visit our website.

USER RESPONSIBILITY



WARNING: IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN, OR RELATED ITEMS, CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE.

This catalogue, and other content from Brennan Industries, its subsidiaries, and its authorized distributors, provides product options for further investigation by users having technical expertise.

The user, through their own analysis and testing, is solely responsible for making the final selection of the product and ensuring all applicable performance, endurance, maintenance, safety, and warning requirements are met. The user must analyze all aspects of the application, follow applicable industry standards, and read, understand, and follow the content in this catalogue and any other content provided by Brennan Industries, its subsidiaries, and its authorized distributors.

To the extent Brennan Industries, its subsidiaries, and its authorized distributors provide product options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the products. In the event the buyer is not the end-user, the buyer will ensure such end-user is made aware of and complies with these responsibilities.

PRODUCT COMPLIANCE

The buyer agrees to comply with all applicable laws, regulations, and industry/professional standards in the country or countries where it may operate. The buyer agrees to indemnify, defend, and hold harmless Brennan Industries, its subsidiaries, and its authorized distributors from the consequences of any violation of such laws, regulations, and standards by the buyer, its employees, or agents. The buyer further represents and agrees it will not receive, use, service, transfer, or ship any product from Brennan Industries, its subsidiaries, and its authorized distributors in a manner or for a purpose that violates trade laws or would cause Brennan Industries, its subsidiaries, and its authorized distributors to be in violation of trade laws.

California Proposition 65: California Proposition 65 requires businesses to provide warnings to California consumers about exposures to chemicals that cause cancer or birth defects and other reproductive harm. The required warnings are as follows:



WARNING: Certain products in this catalog can expose you to chemicals which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



WARNING: Certain products in this catalog can expose you to chemicals which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

If you have any questions about whether any product is subject to California Proposition 65 warning requirements, please visit our website with reference to that product. For further information regarding Proposition 65, please visit www.P65Warnings.ca.gov or www.oehha.ca.gov.

*“Our mission is to provide best-in-class hydraulic,
pneumatic, and instrumentation products, leveraging
our extensive inventories with a consultative approach.
That is the Brennan difference.”*



CORPORATE HEADQUARTERS
6701 COCHRAN ROAD
SOLON, OHIO 44139 USA

PHONE: 440.248.1880
TOLL FREE: 888.331.1523
FAX: 440.248.7282

BRENNANINC.COM



LOCATIONS



ABOUT US

MAKING CONNECTIONS