

**O-Ring Face Seal Fittings**

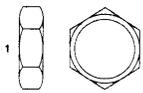
Brennan Industries, Inc.'s steel and stainless steel o-ring face seal fittings meet all design and performance requirements for o-ring face seal fittings in Standard J1453 published by the Society of Automotive Engineers (SAE).

(520112)



**CAP ASSEMBLY INSERT**  
FF820

(520118)



**BULKHEAD LOCK NUT**  
FF924

(520112)



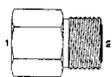
**NUT**  
FF818

(520115)

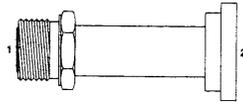


**SLEEVE**  
FF819

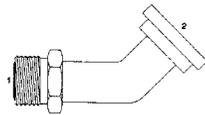
(520104)



**BORE - MFS STRAIGHT**  
FF853



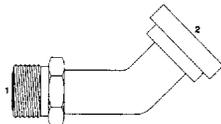
**MFS - FLANGE STRAIGHT**  
CODE 61  
FF360



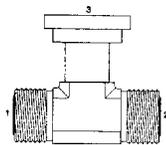
**MFS - FLANGE 45° CODE 61**  
FF361



**MFS - FLANGE STRAIGHT**  
CODE 62  
FF363

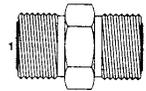


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FF364

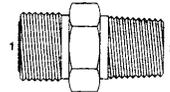


**MFS - MFS - FLANGE**  
CODE 62  
FF366

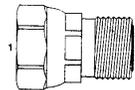
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**MFS - MFS STRAIGHT**  
FF815



**MFS - MP STRAIGHT**  
FF816



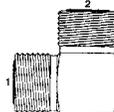
**FFS - MFS TUBE END REDUCER**  
FF860

(520109)



**MFS PLUG**  
FF806

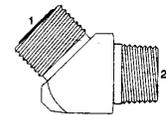
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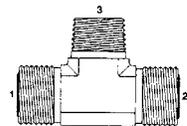
**MFS - MFS 90°**  
FF821



**MFS - MP 90°**  
FF822

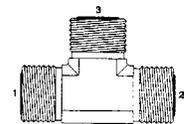


**MFS - MP 45°**  
FF823



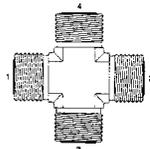
**MFS - MFS - MP TEE**  
FF825

(520401)



**MFS - MFS - MFS TEE**  
FF824

(520501)

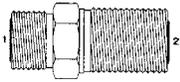


**MFS - MFS - MFS - MFS CROSS**  
FF827

**Hydraulic Adapters**

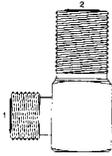


(520601)



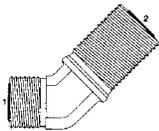
**MFS - MFS BULKHEAD UNION**  
FF832

(520701)

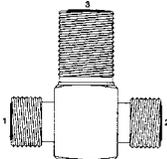


**MFS - MFS BULKHEAD 90°**  
FF833

(520801)

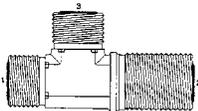


**MFS - MFS BULKHEAD 90°**  
FF837



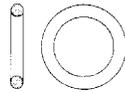
**MFS - MFS BULKHEAD TEE**  
FF815

(520201)

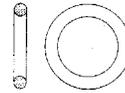


**MFS - MFS - MFS TEE**  
FF846

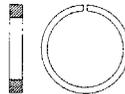
(J515 Type CH)



**BUNA O-RING**  
FF

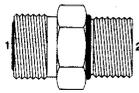


**VITON O-RING**  
FF



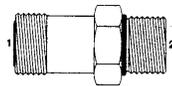
**SILVER BRAZE RING**  
FF813

(520120)

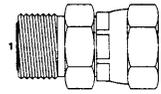


**MFS - MORB STRAIGHT**  
FF516

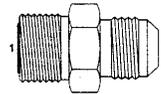
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**MFS - MORB STRAIGHT LONG**  
FF516L

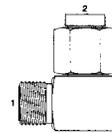


**MFS - FJS STRAIGHT**  
FF501

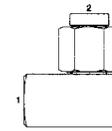


**MFS - MJ STRAIGHT**  
FF816

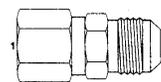
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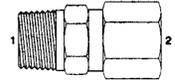
**MFS - FFSS 90°**  
FF601



**FP - FFSS 90°**  
FF602

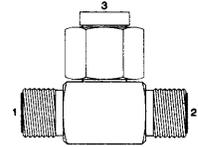


**FFSS - MJ STRAIGHT**  
FF811



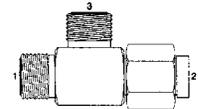
**MP - FFSS STRAIGHT**  
FF618

(520433)



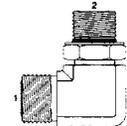
**MFS - MFS - FFSS BRANCH TEE**  
FF625

(520428)



**MFS - MAORB - MFS TEE**  
FF526

(520281)



**MFS - MAORD 90°**  
FF620

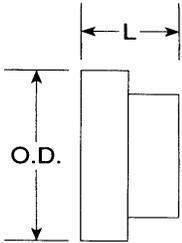
**Hydraulic  
Adapters**



# Cap Assembly Insert

*FF820 Series (Used with FS0318)*

SAE # 520112

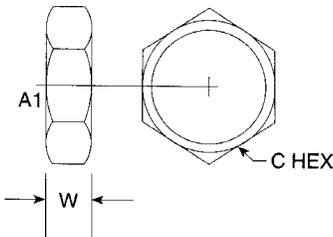


PART NO. SIZE	TUBE O.D.	O.D.	M.M.	L LGTH	M.M.	Standard Material From Stock			
						S	FG	SS	B
FF820-04S	1/4	0.502	12.75	0.340	8.64	•			
FF820-06S	3/8	0.620	15.75	0.370	9.40	•			
FF820-08S	1/2	0.745	18.92	0.470	11.94	•			
FF820-10S	5/8	0.923	23.44	0.470	11.94	•			
FF820-12S	3/4	1.097	27.86	0.530	13.46	•			
FF820-16S	1	1.347	34.21	0.590	14.99	•			
FF820-20S	1 1/4	1.597	40.56	0.590	14.99	•			
FF820-24S	1 1/2	1.910	48.51	0.590	14.99	•			

# Bulkhead Lock Nut

*FF924 Series*

SAE # 520118

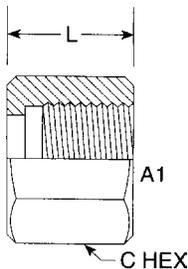


PART NO. SIZE	TUBE O.D.	A1 THREAD	C HEX	M.M.	W WIDTH	M.M.	Standard Material From Stock			
							S	FG	SS	B
FF924-04S	1/4	9/16-18	13/16	20.64	0.270	6.86	•			
FF924-06S	3/8	11/16-16	1	25.40	0.310	8.13	•			
FF924-08S	1/2	13/16-16	1 1/8	28.58	0.350	8.89	•			
FF924-10S	5/8	1-14	1 5/16	33.34	0.410	10.41	•			
FF924-12S	3/4	1 3/16-12	1 1/2	38.10	0.410	10.41	•			
FF924-16S	1	1 7/16-12	1 3/4	44.45	0.410	10.41	•			
FF924-20S	1 1/4	1 11/16-12	2	50.80	0.410	10.41	•			
FF924-24S	1 1/2	2-12	2 3/8	60.33	0.410	10.41	•			

# Nut

*FF818 Series*

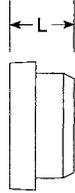
SAE # 520110



PART NO. SIZE	TUBE O.D.	A1 THREAD	C HEX	M.M.	L LGTH	M.M.	Standard Material From Stock			
							S	FG	SS	B
FF818-04S	1/4	9/16-18	11/16	17.46	0.580	14.73	•			
FF818-06S	3/8	11/16-16	13/16	20.63	0.670	17.02	•			
FF818-08S	1/2	13/16-16	15/16	23.81	0.830	21.08	•			
FF818-10S	5/8	1-14	1-1/8	28.58	0.930	23.62	•			
FF818-12S	3/4	1 4/16-12	1-3/8	34.93	1.024	26.01	•			
FF818-16S	1	1 7/16-12	1-5/8	41.28	1.100	27.94	•			
FF818-20S	1 1/4	1 11/16-12	1-7/8	47.64	1.100	27.94	•			
FF818-24S	1 1/2	2-12	2-1/4	57.15	1.100	27.94	•			



**Sleeve**  
**FF819 Series**  
SAE # 520115

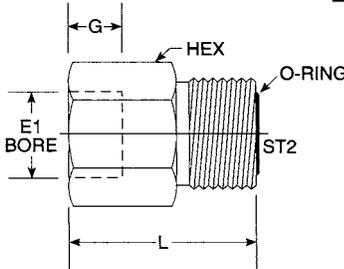


PART NO. SIZE	TUBE O.D.	LGTH L	M.M.	Standard Material From Stock			
				S	FG	SS	B
FF819-04Tpls	1/4	0.374	9.50	•			
FF819-06Tpls	3/8	0.374	9.50	•			
FF819-08Tpls	1/2	0.374	9.50	•			
FF819-10Tpls	5/8	0.413	10.49	•			
FF819-12Tpls	3/4	0.551	13.99	•			
FF819-16Tpls	1	0.610	15.49	•			
FF819-20Tpls	1 1/4	0.610	15.49	•			
FF819-24Tpls	1 1/2	0.610	15.49	•			

Note: Braze Style

**Bore - MFS Straight**

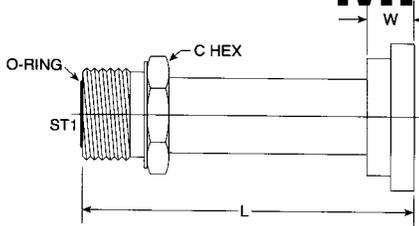
**FF853 Series**  
SAE # 520104



PART NO. SIZE	E1* BORE	ST2 THREAD	G*	M.M.	L LGTH	M.M.	HEX	HEX	M.M.	Standard Material From Stock	
										S	SS
FF853-04-04S	0.256	9/16-18	0.330	8.38	0.860	21.84	5/8	0.625	15.87	•	
FF853-04-06S	0.256	11/16-16	0.330	8.38	0.900	22.86	3/4	0.750	19.05	•	
FF853-06-04S	0.381	9/16-18	0.330	8.38	0.860	21.84	5/8	0.625	15.87	•	
FF853-06-06S	0.381	11/16-16	0.330	8.38	0.900	22.86	3/4	0.750	19.05	•	
FF853-06-08S	0.381	13/16-16	0.330	8.38	0.970	24.64	7/8	0.875	22.22	•	
FF853-08-06S	0.506	11/16-16	0.330	8.38	0.900	22.86	3/4	0.750	19.05	•	
FF853-08-08S	0.506	13/16-16	0.330	8.38	0.970	24.64	7/8	0.875	22.22	•	
FF853-08-10S	0.506	1-14	0.330	8.38	1.070	27.18	1 1/16	1.062	26.97	•	
FF853-08-12S	0.506	1 3/16-12	0.330	8.38	1.160	29.46	1 1/4	1.250	31.75	•	
FF853-10-08S	0.631	13/16-16	0.330	8.38	0.970	24.64	7/8	0.875	22.22	•	
FF853-10-10S	0.631	1-14	0.330	8.38	1.070	27.18	1 1/16	1.062	26.97	•	
FF853-10-12S	0.631	1 3/16-12	0.330	8.38	1.160	29.46	1 1/4	1.250	31.75	•	
FF853-12-08S	0.757	13/16-16	0.490	12.45	1.160	29.46	1 1/16	1.062	26.97	•	
FF853-12-10S	0.757	1-14	0.490	12.45	1.230	31.24	1 1/4	1.250	31.75	•	
FF853-12-12S	0.757	1 3/16-12	0.490	12.45	1.320	33.53	1 1/4	1.250	31.75	•	
FF853-12-16S	0.757	1 7/16-12	0.490	12.45	1.460	37.08	1 1/2	1.500	38.10	•	
FF853-16-12S	1.007	1 3/16-12	0.550	13.97	1.380	35.05	1 1/2	1.500	38.10	•	
FF853-16-16S	1.007	1 7/16-12	0.550	13.97	1.520	38.61	1 1/2	1.500	38.10	•	
FF853-16-20S	1.007	1 11/16-12	0.550	13.97	1.520	38.61	1 3/4	1.750	44.45	•	
FF853-20-20S	1.258	1 11/16-12	0.550	13.97	1.520	38.61	1 3/4	1.750	44.45	•	
FF853-20-24S	1.258	2-12	0.550	13.97	1.520	38.61	2 1/8	2.125	53.97	•	
FF853-24-20S	1.508	1 11/16-12	0.550	13.97	1.520	38.61	2 1/8	2.125	53.97	•	
FF853-24-24S	1.508	2-12	0.550	13.97	1.520	38.61	2 1/8	2.125	53.97	•	

Hydraulic Adapters

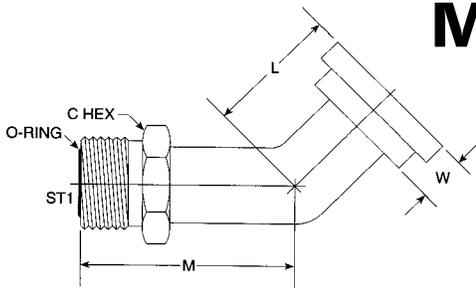
**MFS - Flange Straight**  
**Code 61**  
*FF360 Series*



PART NO. SIZE	TUBE O.D.	ST1	FLANGE	L		W		C HEX	C HEX	M.M.	Standard Material From Stock						
				LGTH	M.M.	WIDTH	M.M.				S	FG	SS	B			
FF360-12-12																	
FF360-16-16																	
FF360-20-20																	
FF360-24-24																	

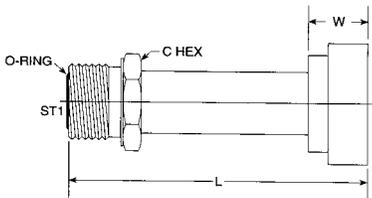
Hydraulic Adapters

**MFS - Flange 45°**  
**Code 61**  
*FF361 Series*



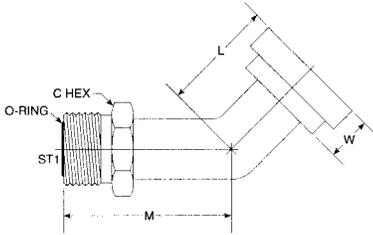
PART NO. SIZE	TUBE O.D.	ST1	FLANGE	L		M		W		C HEX	C HEX	M.M.	Standard Material From Stock				
				LGTH	M.M.	LGTH	M.M.	WIDTH	M.M.				S	FG	SS	B	
FF361-12-12																	
FF361-12-16																	
FF361-16-16																	
FF361-20-20																	
FF361-24-24																	

**MFS - Flange Straight**  
**Code 62**  
*FF363 Series*



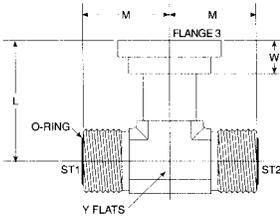
PART NO. SIZE	TUBE O.D.	ST1	FLANGE	L		W		C HEX	C HEX	M.M.	Standard Material From Stock						
				LGTH	M.M.	WIDTH	M.M.				S	FG	SS	B			
FF363-12-12																	
FF363-16-12																	
FF363-16-16																	
FF363-20-20																	
FF363-24-24																	





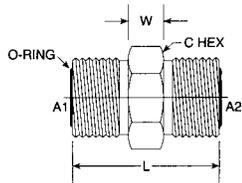
**MFS - Flange 45°  
Code 62  
FF364 Series**

PART NO. SIZE	TUBE O.D.	ST1	FLANGE	L LGTH	M M.M.	M LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock					
													S	FG	SS	B		
FF364-12-12																		
FF364-16-16																		
FF364-20-20																		
FF364-24-24																		



**MFS - MFS - Flange  
Code 62  
FF366 Series**

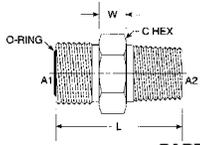
PART NO. SIZE	TUBE O.D.	ST1	ST2	L LGTH	M M.M.	M LGTH	M.M.	W WIDTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
													S	FG	SS	B		
FF366-12-12																		
FF366-16-16																		



**MFS - MFS Straight  
FF815 Series  
SAE # 520101**

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF815-04-04S	1/4	9/16-18	9/16-18	1.080	27.43	0.310	7.87	5/8	0.625	15.87	•			
FF815-06-04S	3/8 1/4	11/16-16	9/16-18	1.170	29.72	0.340	8.64	3/4	0.750	19.05	•			
FF815-06-06S	3/8	11/16-16	11/16-16	1.220	30.99	0.340	8.64	3/4	0.750	19.05	•			
FF815-08-06S	1/2 3/8	13/16-16	11/16-16	1.330	33.78	0.390	9.91	7/8	0.875	22.22	•			
FF815-08-08S	1/2	13/16-16	13/16-16	1.390	35.31	0.390	9.91	7/8	0.875	22.22	•			
FF815-10-08S	5/8 1/2	1-14	13/16-16	1.570	39.88	0.460	11.68	1 1/16	1.062	26.97	•			
FF815-10-10S	5/8	1-14	1-14	1.680	42.67	0.460	11.68	1 1/16	1.062	26.97	•			
<b>NEW</b> FF815-12-08S											•			
FF815-12-10S	3/4 5/8	1 3/16-12	1-14	1.800	45.72	0.520	13.20	1 1/4	1.250	31.75	•			
FF815-12-12S	3/4	1 3/16-12	1 3/16-12	1.850	46.99	0.520	13.20	1 1/4	1.250	31.75	•			
FF815-16-12S	1 3/4	1 7/16-12	1 3/16-12	1.920	48.77	0.560	14.22	1 1/2	1.500	38.10	•			
FF815-16-16S	1	1 7/16-12	1 7/16-12	1.940	49.28	0.560	14.22	1 1/2	1.500	38.10	•			
FF815-20-20S	1 1/4	1 11/16-12	1 11/16-12	2.020	51.31	0.640	16.26	1 3/4	1.750	44.45	•			
<b>NEW</b> FF815-24-20S											•			
FF815-24-24S	1 1/2	2-12	2-12	2.090	53.09	0.710	18.03	2 1/8	2.125	53.97	•			

**Hydraulic Adapters**

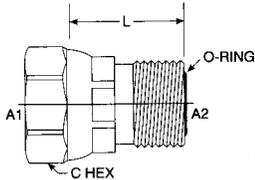


**MFS - MP Straight  
FF816 Series**

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF816-04-02S	1/4	9/16-18	1/8-27	1.070	27.18	0.270	6.86	5/8	0.625	15.87	•			
FF816-04-04S	1/4	9/16-18	1/4-18	1.260	32.00	0.270	6.86	5/8	0.625	15.87	•			
FF816-04-06S	1/4	9/16-18	3/8-18	1.320	33.53	0.270	6.86	3/4	0.750	19.05	•			
FF816-04-08S	1/4	9/16-18	1/2-14	1.500	38.10	0.270	6.86	7/8	0.875	22.22	•			
<b>NEW</b> FF816-06-02S											•			
FF816-06-04S	3/8	11/16-16	1/4-18	1.250	31.75	0.310	7.87	3/4	0.750	19.05	•			
FF816-06-06S	3/8	11/16-16	3/8-18	1.340	34.04	0.310	7.87	3/4	0.750	19.05	•			
FF816-06-08S	3/8	11/16-16	1/2-14	1.550	39.37	0.310	7.87	7/8	0.875	22.22	•			
FF816-08-04S	1/2	13/16-16	1/4-18	1.480	37.59	0.350	8.89	7/8	0.875	22.22	•			
FF816-08-06S	1/2	13/16-16	3/8-18	1.480	37.59	0.350	8.89	7/8	0.875	22.22	•			
FF816-08-08S	1/2	13/16-16	1/2-14	1.640	41.66	0.350	8.89	7/8	0.875	22.22	•			
FF816-08-12S	1/2	13/16-16	3/4-14	1.690	42.93	0.410	10.41	1 1/8	1.125	28.57	•			
FF816-10-08S	5/8	1-14	1/2-14	1.820	46.23	0.410	10.41	1 1/16	1.062	26.97	•			
FF816-10-12S	5/8	1-14	3/4-14	1.820	46.23	0.410	10.41	1 1/8	1.125	28.57	•			
FF816-10-16S	5/8	1-14	1-11 1/2	1.950	49.53	0.380	9.65	1 3/8	1.375	34.93	•			
FF816-12-08S	3/4	1 3/16-12	1/2-14	1.930	49.02	0.410	10.41	1 1/4	1.250	31.75	•			
FF816-12-12S	3/4	1 3/16-12	3/4-14	1.930	49.02	0.410	10.41	1 1/4	1.250	31.75	•			
FF816-12-16S	3/4	1 3/16-12	1 11-1/2	2.130	54.10	0.410	10.41	1 3/8	1.375	34.92	•			
FF816-16-12S	1	1 7/16-12	3/4-14	2.000	50.80	0.410	10.41	1 1/2	1.500	38.10	•			
FF816-16-16S	1	1 7/16-12	1 11-1/2	2.190	55.63	0.410	10.41	1 1/2	1.500	38.10	•			
FF816-16-20S	1	1 7/16-12	1 1/4-11 1/2	2.30	58.42	0.620	15.75	1 11/16	1.6875	42.86	•			
FF816-16-24S	1	1 7/16-12	1 1/2-11 1/2	2.15	54.61	0.445	11.30	2	2.000	50.80	•			
FF816-20-16S	1 1/4	1 11/16-12	1-11 1/2	2.300	58.42	.645	16.38	1 3/4	1.750	44.45	•			
FF816-20-20S	1 1/4	1 11/16-12	1 1/4-11 1/2	2.300	58.42	0.410	10.41	1 7/8	1.875	47.62	•			
FF816-24-24S	1 1/2	2-12	1 1/2-11 1/2	2.400	60.96	0.410	10.41	2 1/8	2.125	53.97	•			

**Hydraulic Adapters**

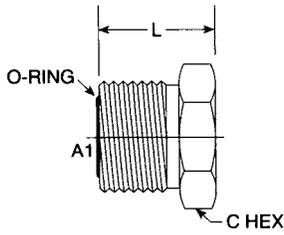
**FFS - MFS Tube End Reducer  
FF502 Series**



PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
									S	FG	SS	B
FF502-06-04S	3/8 1/4	11/16-16	9/16-18	0.770	19.56	13/16	0.812	20.62	•			
FF502-08-04S	1/2 1/4	13/16-16	9/16-18	0.860	21.84	15/16	0.937	23.80	•			
FF502-08-06S	1/2 3/8	13/16-16	9/16-18	0.880	22.35	15/16	0.937	23.80	•			
FF502-10-04S	5/8 1/4	1-14	9/16-18	0.900	22.86	1 1/8	1.125	28.57	•			
FF502-10-06S	5/8 3/8	1-14	11/16-16	0.950	24.13	1 1/8	1.125	28.57	•			
FF502-10-08S	5/8 1/2	1-14	13/16-16	1.020	25.91	1 1/8	1.125	28.57	•			
FF502-12-04S	3/4 1/4	1 3/16-12	9/16-18	0.980	24.89	1 3/8	1.375	34.92	•			
FF502-12-06S									•			
FF502-12-08S	3/4 1/2	1 3/16-12	13/16-16	1.090	27.69	1 3/8	1.375	34.92	•			
FF502-12-10S	3/4 5/8	1 3/16-12	1-14	1.160	29.46	1 3/8	1.375	34.92	•			
FF502-12-16S									•			
FF502-16-08S	1 1/2	1 7/16-12	13/16-16	1.150	29.21	1 5/8	1.625	41.27	•			
FF502-16-10S	1 5/8	1 7/16-12	1-14	1.260	32.00	1 5/8	1.625	41.27	•			
FF502-16-12S	1 3/4	1 7/16-12	1 3/16-12	1.300	33.02	1 5/8	1.625	41.27	•			
FF502-16-20S									•			
FF502-20-12S	1 1/4 3/4	1 11/16-12	1 3/16-12	1.320	33.53	1 7/8	1.875	47.62	•			
FF502-20-16S	1 1/4 1	1 11/16-12	1 7/16-12	1.510	38.35	1 7/8	1.875	47.62	•			
FF502-20-24S	1 1/4 1 1/2	1 11/16-12	2-12	1.300	33.02	2 1/4	2.250	57.15	•			
FF502-24-16S	1 1/2 1	1 7/16-12	2-12	1.230	31.24	2 1/4	2.250	57.15	•			
FF502-24-20S	1 1/2 1 1/4	1 11/16-12	2-12	1.350	34.29	2 1/4	2.250	57.15	•			

\*Note: Two-Piece Assembly



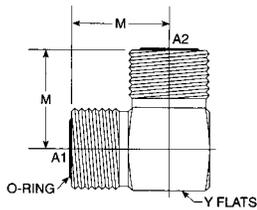


# MFS Plug

## FF806 Series

SAE # 520109

PART NO. SIZE	A1 THREAD	L LGTH M.M.	C HEX	C HEX	M.M.	Standard Material From Stock				
						S	FG	SS	B	
FF806-04S	9/16-18	0.660	16.76	5/8	0.625	15.87	•			
FF806-06S	11/16-16	0.750	19.05	3/4	0.750	19.05	•			
FF806-08S	13/16-16	0.850	21.59	7/8	0.875	22.22	•			
FF806-10S	1-14	1.020	25.91	1 1/16	1.062	26.97	•			
FF806-12S	1 3/16-12	1.080	27.43	1 1/4	1.250	31.75	•			
FF806-16S	1 7/16-12	1.090	27.69	1 1/2	1.500	38.10	•			
FF806-20S	1 11/16-12	1.090	27.69	1 3/4	1.750	44.45	•			
FF806-24S	2-12	1.090	27.69	2 1/8	2.125	53.97	•			



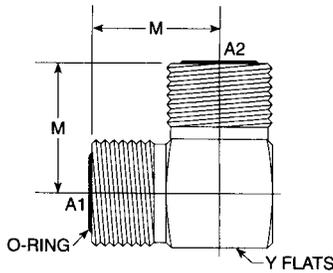
# MFS - MFS 90°

## FF821 Series

SAE # 520201

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock				
								S	FG	SS	B	
FF821-04-04S	1/4	9/16-18	9/16-18	0.850	21.59	9/16	0.562	14.27	•	•		
FF821-06-06S	3/8	11/16-16	11/16-16	0.980	24.89	3/4	0.750	19.05	•	•		
FF821-08-08S	1/2	13/16-16	13/16-16	1.100	27.94	3/4	0.750	19.05	•	•		
FF821-10-10S	5/8	1-14	1-14	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF821-12-12S	3/4	1 3/16-12	1 3/16-12	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF821-16-16S	1	1 7/16-12	1 7/16-12	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF821-20-20S	1 1/4	1 11/16-12	1 11/16-12	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF821-24-24S	1 1/2	2-12	2-12	1.920	48.77	1 7/8	1.875	47.62	•	•		

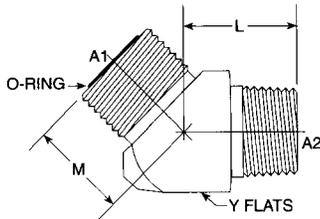
**Hydraulic Adapters**



**MFS - MP 90°  
FF822 Series**

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF822-04-02S	1/4	9/16-18	1/8-27	0.800	20.32	0.850	21.59	9/16	0.562	14.27	•	•		
FF822-04-04S	1/4	9/16-18	1/4-18	1.120	28.45	0.850	21.59	9/16	0.562	14.27	•	•		
FF822-04-06S	1/4	9/16-18	3/8-18	1.220	30.99	0.970	24.64	3/4	0.750	19.05	•	•		
FF822-06-04S	3/8	11/16-16	1/4-18	1.090	27.69	0.980	24.89	3/4	0.750	19.05	•	•		
FF822-06-06S	3/8	11/16-16	3/8-18	1.220	30.99	0.980	24.89	3/4	0.750	19.05	•	•		
FF822-06-08S	3/8	11/16-16	3/8-18	1.470	37.34	1.150	29.21	7/8	0.875	22.22	•	•		
FF822-08-04S	1/2	13/16-16	1/4-18	1.220	30.99	1.100	27.94	3/4	0.750	19.05	•	•		
FF822-08-06S	1/2	13/16-16	3/8-18	1.220	30.99	1.100	27.94	3/4	0.750	19.05	•	•		
FF822-08-08S	1/2	13/16-16	1/2-14	1.470	37.34	1.100	27.94	1 7/8	1.875	47.62	•	•		
FF822-08-12S	1/2	13/16-16	3/4-14	1.470	37.34	1.320	33.53	1 1/16	1.062	26.97	•	•		
FF822-10-08S	5/8	1-14	1/2-14	1.470	37.34	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF822-10-12S	5/8	1-14	3/4-14	1.590	40.39	1.410	35.81	1 3/16	1.188	30.17	•	•		
FF822-12-08S	3/4	1 3/16-12	1/2-14	1.590	40.39	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF822-12-12S	3/4	1 3/16-12	3/4-14	1.590	40.39	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF822-12-16S	3/4	1 3/16-12	1-11 1/2	1.970	50.04	1.620	41.15	1 5/16	1.312	33.32	•	•		
FF822-16-12S	1	1 7/16-12	3/4-14	1.780	45.21	1.64	41.66	1 7/16	1.438	36.53	•	•		
FF822-16-16S	1	1 7/16-12	1-11 1/2	1.970	50.04	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF822-16-20S	1	1 7/16-12	1 1/4-11 1/2	2.380	60.45	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF822-20-16S	1 1/4	1 11/16-12	1-11 1/2	2.350	59.69	1.76	44.70	1 5/8	1.625	41.28	•	•		
FF822-20-20S	1 1/4	1 11/16-12	1 1/4-11 1/2	2.380	60.45	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF822-24-24S	1 1/2	2-12	1 1/2-11 1/2	2.640	67.06	1.920	48.77	1 7/8	1.875	47.62	•	•		

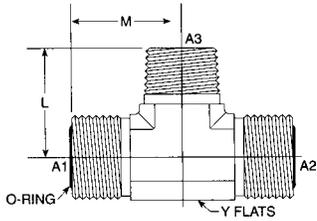
**Hydraulic  
Adapters**



**MFS - MP 45°  
FF823 Series**

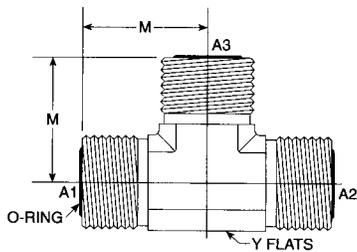
PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF823-04-04S	1/4	9/16-18	1/4-18	1.020	25.91	0.630	16.00	9/16	0.562	14.27	•	•		
FF823-06-04S	3/8	11/16-16	1/4-18	0.870	22.10	0.740	18.80	3/4	0.750	19.05	•	•		
FF823-06-06S	3/8	11/16-16	3/8-18	0.930	23.62	0.850	21.59	3/4	0.750	19.05	•	•		
FF823-08-06S	1/2	13/16-16	3/8-18	0.930	23.62	0.910	23.11	3/4	0.750	19.05	•	•		
FF823-08-08S	1/2	13/16-16	1/2-14	1.170	29.72	0.890	22.61	3/4	0.750	19.05	•	•		
FF823-10-08S	5/8	1-14	1/2-14	1.175	29.84	0.920	23.37	1 1/16	1.062	26.97	•	•		
FF823-12-08S	3/4	1 3/16-12	1/2-14	1.300	33.02	1.020	25.91	1 3/16	1.188	30.17	•	•		
FF823-12-12S	3/4	1 3/16-12	3/4-14	1.200	30.48	1.110	28.19	1 3/16	1.188	30.17	•	•		
FF823-16-16S	1	1 7/16-12	1-11 1/2	1.560	39.62	1.180	29.97	1 7/16	1.438	36.52	•	•		
FF823-20-20S	1 1/4	1 11/16-12	1 1/4-11 1/2	1.670	42.42	1.260	32.00	1 5/8	1.625	41.28	•	•		





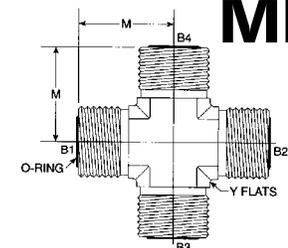
**MFS - MFS - MP Tee**  
*FF825 Series*

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	L LGTH	M M.M.	M LGTH	Y M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
FF825-06-06S	3/8	11/16-16	11/16-16	1/4-18	1.090	27.64	0.980	24.89	3/4	0.750	19.05	•			
FF825-06-06S	3/8	9/16-18	9/16-18	3/8-18	1.195	30.35	1.013	25.73	3/4	0.750	19.05	•			
FF825-08-08S	1/2	13/16-16	13/16-16	1/2-14	1.470	37.34	1.100	27.94	7/8	0.875	22.22	•			
FF825-12-12S	3/4	1 3/16-12	1 3/16-12	3/4-14	1.59	40.39	1.47	37.34	1 3/16	1.188	30.18	•	•		



**MFS - MFS - MFS Tee**  
*FF824 Series*  
SAE # 520401

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
										S	FG	SS	B
FF824-04-04S	1/4	9/16-18	9/16-18	9/16-18	0.850	21.59	9/16	0.562	14.27	•	•		
FF824-06-06S	3/8	11/16-16	11/16-16	11/16-16	0.980	24.89	3/4	0.750	19.05	•	•		
FF824-08-08S	1/2	13/16-16	13/16-16	13/16-16	1.100	27.94	3/4	0.750	19.05	•	•		
FF824-10-10S	5/8	1-14	1-14	1-14	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF824-12-12S	3/4	1 3/16-12	1 3/16-12	1 3/16-12	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF824-16-16S	1	1 7/16-12	1 7/16-12	1 7/16-12	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF824-20-20S	1 1/4	1 11/16-12	1 11/16-12	1 11/16-12	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF824-24-24S	1 1/2	2-14	2-14	2-14	1.920	48.77	1 7/8	1.875	47.62	•	•		



**MFS - MFS - MFS - MFS CROSS**  
*FF827 Series*  
SAE # 520501

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	A4 THREAD	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF827-04S	1/4	9/16-12	9/16-12	9/16-12	9/16-12	0.850	21.59	9/16	0.562	14.27	•	•		
FF827-06S	3/8	11/16-16	11/16-16	11/16-16	11/16-16	0.980	24.89	3/4	0.750	19.05	•	•		
FF827-08S	1/2	13/16-16	13/16-16	13/16-16	13/16-16	1.100	27.94	3/4	0.750	19.05	•	•		
FF827-10S	5/8	1-14	1-14	1-14	1-14	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF827-12S	3/4	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF827-16S	1	1 7/16-12	1 7/16-12	1 7/16-12	1 7/16-12	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF827-20S	1 1/4	1 11/16-12	1 11/16-12	1 11/16-12	1 11/16-12	1.760	44.71	1 5/8	1.625	41.27	•	•		
FF827-24S	1 1/2	2-12	2-12	2-12	2-12	1.920	48.77	1 7/8	1.875	47.62	•	•		

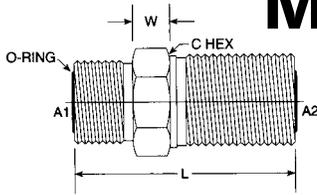
**Hydraulic Adapters**



**MFS - MFS Bulkhead Union**

**FF832 Series**

SAE # 520601



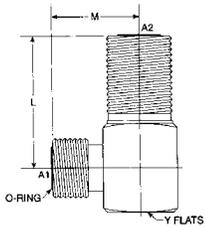
PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	PLATE MAX	Standard Material From Stock			
												S	FG	SS	B
FF832-04-04S	1/4	9/16-18	9/16-18	1.090	27.69	0.270	6.86	13/16	0.812	20.63	1/2	•			
FF832-06-06S	3/8	11/16-16	11/16-16	2.090	53.09	0.310	7.87	1	1.000	25.40	35/64	•			
FF832-08-08S	1/2	13/16-16	13/16-16	2.300	58.42	0.350	8.89	1 1/4	1.250	31.75	35/64	•			
FF832-10-10S	5/8	1-14	1-14	2.620	66.55	0.410	10.41	1 5/16	1.312	33.32	35/64	•			
FF832-12-12S	3/4	1 3/16-12	1 3/16-12	2.720	69.09	0.410	10.41	1 1/2	1.500	38.10	35/64	•			
FF832-16-16S	1	1 7/16-12	1 7/16-12	2.760	70.10	0.410	10.41	1 3/4	1.750	44.45	35/64	•			
FF832-20-20S	1 1/4	1 11/16-12	1 11/16-12	2.760	70.10	0.410	10.41	2	2.000	50.80	35/64	•			
FF832-24-24S	1 1/2	2-14	2-14	2.760	70.10	0.410	10.41	2 3/8	2.375	60.32	35/64	•			

**Hydraulic Adapters**

**MFS - MFS Bulkhead 90°**

**FF833 Series**

SAE # 520701

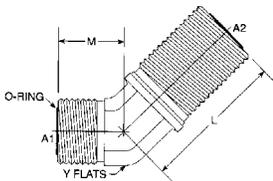


PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	PLATE MAX	Standard Material From Stock			
												S	FG	SS	B
FF833-04-04S	1/4	9/16-12	9/16-12	1.850	46.99	0.890	22.61	9/16	0.562	14.27	1/2	•	•		
FF833-06-06S	3/8	11/16-16	11/16-16	2.050	52.07	1.020	25.91	3/4	0.750	19.05	35/64	•	•		
FF833-06-08S	3/8	11/16-12	13/16-12	2.180	55.37	1.08	27.43	3/4	0.750	19.05	35/64	•	•		
FF833-08-08S	1/2	13/16-16	13/16-16	2.180	55.37	1.140	28.96	3/4	0.750	19.05	35/64	•	•		
<b>NEW</b> FF833-08-10S													•	•	
FF833-10-10S	5/8	1-14	1-14	2.480	62.99	1.360	34.54	1 1/16	1.062	26.97	35/64	•	•		
FF833-12-12S	3/4	1 3/16-12	1 3/16-12	2.650	67.31	1.520	38.61	1 3/16	1.188	30.17	35/64	•	•		
FF833-16-16S	1	1 7/16-12	1 7/16-12	2.800	71.12	1.670	42.42	1 7/16	1.438	36.52	35/64	•	•		
FF833-20-20S	1 1/4	1 11/16-12	1 11/16-12	2.970	75.44	1.790	45.47	1 5/8	1.625	41.27	35/64	•	•		
FF833-24-24S	1 1/2	2-12	2-12	3.130	79.50	1.950	49.53	1 7/8	1.875	47.62	35/64	•	•		

**MFS - MFS Bulkhead 45°**

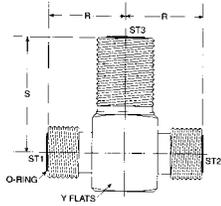
**FF837 Series**

SAE # 520801



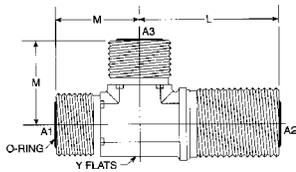
PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	PLATE MAX	Standard Material From Stock			
												S	FG	SS	B
FF837-04-04S	1/4	9/16-18	9/16-18	1.730	43.94	0.630	16.00	9/16	0.562	14.27	1/2	•	•		
FF837-06-06S	3/8	11/16-16	11/16-16	1.910	48.51	0.740	18.80	3/4	0.750	19.05	35/64	•	•		
FF837-08-08S	1/2	13/16-16	13/16-16	2.010	51.05	0.800	20.32	3/4	0.750	19.05	35/64	•	•		
<b>NEW</b> FF837-10-08S													•	•	
FF837-10-10S	5/8	1-14	1-14	2.230	56.64	0.920	23.37	1 1/16	1.062	26.97	35/64	•	•		
FF837-12-12S	3/4	1 3/16-12	1 3/16-12	2.390	60.71	1.020	25.91	1 3/16	1.188	30.17	35/64	•	•		
FF837-16-16S	1	1 7/16-12	1 7/16-12	2.570	65.28	1.180	29.97	1 7/16	1.438	36.52	35/64	•	•		
FF837-20-20S	1 1/4	1 11/16-12	1 11/16-12	2.640	67.06	1.260	32.00	1 5/8	1.625	41.27	35/64	•	•		
FF837-24-24S	1 1/2	2-14	2-14	2.640	67.06	1.450	36.83	1 7/8	1.875	47.62	35/64	•	•		





**MFS - MFS Bulkhead Tee**  
*FF845 Series*

PART NO. SIZE	TUBE O.D.	ST1 THREAD	ST2 THREAD	ST3 THREAD	S LGTH M.M.	R LGTH M.M.	Y FLATS	Y FLATS	Y FLATS M.M.	PLATE MAX	Standard Material From Stock				
											S	FG	SS	B	
FF845-04-04S	1/4	9/16-18	9/16-18	9/16-18	1.850	46.99	0.89	22.61	9/16	0.562	14.27	•			
FF845-06-06S	3/8	11/16-16	11/16-16	11/16-16	2.050	52.07	1.02	25.91	3/4	0.750	19.05	•			
FF845-08-08S	1/2	13/16-12	13/16-12	13/16-12	2.180	55.37	1.14	28.96	3/4	0.750	19.05	•			
FF845-12-12S	3/4	1 3/16-12	1 3/16-12	1 3/16-12	2.650	67.31	1.52	38.61	1 3/16	1.188	30.18	•			

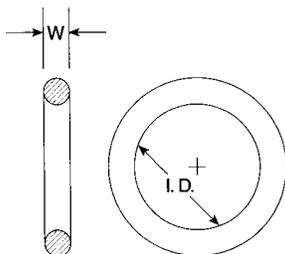


**MFS - MFS - MFS Tee**  
*FF846 Series*

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	L LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	Y FLATS M.M.	PLATE MAX	Standard Material From Stock					
											S	FG	SS	B		
FF846-04-04S	1/4	9/16-12	9/16-12	9/16-12	1.850	46.99	0.890	22.61	9/16	0.562	14.27	1/2	•	•		
FF846-06-06S	3/8	11/16-16	11/16-16	11/16-16	2.050	52.07	1.020	25.91	3/4	0.750	19.05	35/64	•	•		
FF846-08-08S	1/2	13/16-16	13/16-16	13/16-16	2.180	55.37	1.140	28.96	3/4	0.750	19.05	35/64	•	•		
FF846-10-10S	5/8	1-14	1-14	1-14	2.480	62.99	1.360	34.55	1 1/16	1.062	26.97	35/64	•	•		
FF846-12-12S	3/4	1 3/16-12	1 3/16-12	1 3/16-12	2.650	67.31	1.520	38.61	1 3/16	1.188	30.17	35/64	•	•		
FF846-16-16S	1	1 7/16-12	1 7/16-12	1 7/16-12	2.800	71.12	1.670	42.42	1 7/16	1.438	36.52	35/64	•	•		
FF846-20-20S	1 1/4	1 11/16-12	1 11/16-12	1 11/16-12	2.970	75.44	1.790	45.47	1 5/8	1.625	41.27	35/64	•			

**Hydraulic Adapters**

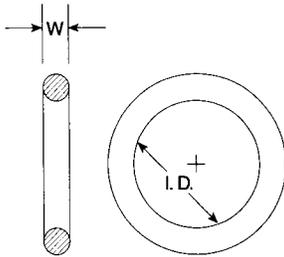
**Buna O-Ring**  
*FF-B Series*  
SAE # J515 Type CH



PART NO. SIZE	TUBE O.D.	W WIDTH	I.D.	M.M.
FF-04-ORING-B	1/4	0.070	0.301	7.64
FF-06-ORING-B	3/8	0.070	0.364	9.25
FF-08-ORING-B	1/2	0.070	0.489	12.42
FF-10-ORING-B	5/8	0.070	0.614	15.60
FF-12-ORING-B	3/4	0.070	0.739	18.77
FF-16-ORING-B	1	0.070	0.926	23.52
FF-20-ORING-B	1 1/4	0.070	1.176	29.87
FF-24-ORING-B	1 1/2	0.070	1.489	37.82



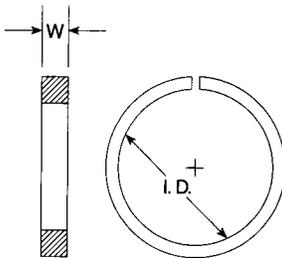
## Viton O-Ring FF-V Series



PART NO. SIZE	TUBE O.D.	W WIDTH	I.D.	M.M.
FF-04-ORING-V				
FF-06-ORING-V				
FF-08-ORING-V				
FF-10-ORING-V				
FF-12-ORING-V				
FF-16-ORING-V				
FF-20-ORING-V				
FF-24-ORING-V				

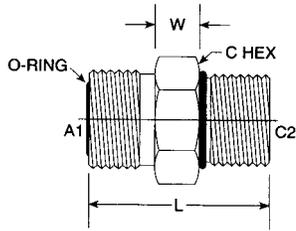
Hydraulic Adapters

## Silver Braze Ring FF813 Series



PART NO. SIZE	TUBE O.D.	W WIDTH	I.D.	M.M.
FF813-04	1/4	0.047	0.260	6.60
FF813-06	3/8	0.071	0.389	9.88
FF813-08	1/2	0.071	0.515	13.08
FF813-10	5/8	0.071	0.642	16.31
FF813-12	3/4	0.079	0.764	19.41
FF813-16	1	0.079	1.020	25.91
FF813-20	1-1/4	0.079	1.264	32.11





**MFS - MORB Straight**

**FF516 Series**

SAE # 520120

PART NO.	SIZE	TUBE O.D.	A1 THREAD	C2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
												S	FG	SS	B
	FF516-04-04S	1/4	9/16-18	7/16-20	1.130	28.70	0.310	7.87	5/8	0.625	15.87	•			
	FF516-04-05S	1/4	9/16-18	1/2-20	1.133	28.78	0.310	7.87	5/8	0.625	15.88	•			
	FF516-04-06S	1/4	9/16-18	9/16-18	1.200	30.48	0.340	8.64	3/4	0.750	19.05	•			
	FF516-04-08S	1/4	9/16-18	3/4-16	1.321	33.55	0.390	9.91	7/8	0.875	22.23	•			
<b>NEW</b>	FF516-04-10S											•			
	FF516-04-12S	1/4	9/16-18	1 1/16-12	1.638	41.61	0.520	13.21	1 1/4	1.250	31.75	•			
<b>NEW</b>	FF516-06-04S	3/8	11/16-16	7/16-20	1.370	34.80	0.340	8.64	3/4	0.750	19.05	•			
<b>NEW</b>	FF516-06-05S											•			
	FF516-06-06S	3/8	11/16-16	9/16-18	1.260	32.00	0.340	8.64	3/4	0.750	19.05	•			
	FF516-06-08S	3/8	11/16-18	3/4-16	1.380	35.05	0.390	9.91	7/8	0.875	22.22	•			
<b>NEW</b>	FF516-06-10S											•			
<b>NEW</b>	FF516-06-16S											•			
<b>NEW</b>	FF516-08-06S											•			
	FF516-08-08S	1/2	13/16-16	3/4-16	1.440	36.58	0.390	9.91	7/8	0.875	22.22	•			
	FF516-08-10S	1/2	13/16-16	7/8-14	1.590	40.39	0.460	11.68	1	1.000	25.40	•			
	FF516-08-12S	1/2	13/16-16	1 1/16-12	1.750	44.45	0.520	13.21	1 1/4	1.250	31.75	•			
<b>NEW</b>	FF516-08-16S											•			
	FF516-10-08S	5/8	1-14	3/4-16	1.780	45.21	0.460	11.68	1 1/16	1.062	26.97	•			
	FF516-10-10S	5/8	1-14	7/8-14	1.700	43.18	0.460	11.68	1 1/16	1.062	26.97	•			
	FF516-10-12S	5/8	1-14	1 1/16-12	1.120	28.45	0.520	13.21	1 1/4	1.250	31.75	•			
	FF516-12-08S	3/4	1 3/16-12	3/4-16	1.910	48.51	0.520	13.21	1 1/4	1.250	31.75	•			
	FF516-12-10S	3/4	1 3/16-12	7/8-14	1.990	50.55	0.520	13.21	1 1/4	1.250	31.75	•			
	FF516-12-12S	3/4	1 3/16-12	1 1/16-12	1.910	48.51	0.520	13.21	1 1/4	1.250	31.75	•			
	FF516-12-16S	3/4	1 3/16-12	1 5/16-12	1.960	49.78	0.520	13.21	1 1/2	1.125	28.57	•			
<b>NEW</b>	FF516-16-10S											•			
	FF516-16-12S	1	1 7/16-12	1 1/16-12	2.200	55.88	0.560	14.22	1 1/2	1.125	28.57	•			
	FF516-16-16S	1	1 7/16-12	1 5/16-12	1.980	50.29	0.560	14.22	1 1/2	1.125	28.57	•			
	FF516-16-20S	1	1 7/16-12	1 5/8-12	2.060	52.32	0.640	16.26	1 7/8	1.875	47.62	•			
	FF516-20-16S	1 1/4	1 11/16-16	1 5/16-12	2.280	57.91	0.640	16.26	1 7/8	1.875	47.62	•			
	FF516-20-20S	1 1/4	1 11/16-16	1 5/8-12	2.060	52.32	0.640	16.26	1 7/8	1.875	47.62	•			
	FF516-20-24S	1 1/4	1 11/16-12	1 7/8-12	2.128	54.05	0.710	18.03	2 1/8	2.125	53.98	•			
<b>NEW</b>	FF516-24-20S											•			
	FF516-24-24S	1 1/2	2-12	1 7/8-12	2.130	54.10	0.710	18.03	2 1/8	2.125	53.97	•			

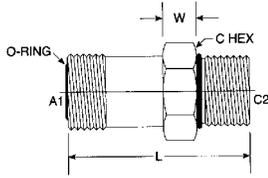
Hydraulic Adapters



**MFS - MORB Straight Long**

**FF516L Series**

SAE # 520122

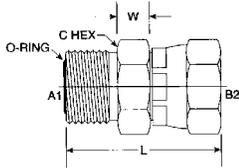


PART NO. SIZE	TUBE O.D.	A1 THREAD	C2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF516-L-04-04S	1/4	9/16-18	7/16-20	2.060	52.32	0.310	7.87	5/8	0.625	15.87	•			
FF516-L-06-06S	3/8	11/16-16	9/16-18	2.270	57.66	0.340	8.64	3/4	0.750	19.05	•			
FF516-L-08-08S	1/2	13/16-16	3/4-16	2.680	68.07	0.390	9.91	7/8	0.875	22.22	•			
FF516-L-10-10S	5/8	1-14	7/8-14	3.130	79.50	0.460	11.69	1 1/16	1.062	26.97	•			
FF516-L-12-12S	3/4	1 3/16-12	1 1/16-12	3.760	95.50	0.520	13.21	1 1/4	1.250	31.75	•			
FF516-L-16-16S	1	1 7/8-12	1 5/16-12	4.140	105.16	0.560	14.23	1 1/2	1.125	28.57	•			
FF516-L-20-20S	1 1/4	1 11/16-16	1 5/8-12	4.760	120.90	0.640	16.26	1 7/8	1.875	47.62	•			
FF516-L-24-24S	1 1/2	2-12	1 7/8-12	5.260	133.60	0.710	18.03	2 1/8	2.125	53.97	•			

**Hydraulic Adapters**

**MFS - FJS Straight**

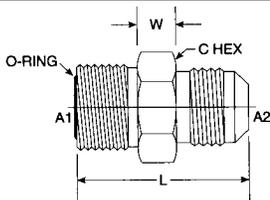
**FF501 Series**



PART NO. SIZE	TUBE O.D.	A1 THREAD	B2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF501-04-04S	1/4	9/16-18	7/16-20	1.350	34.29	0.310	7.87	5/8	0.625	15.87	•			
FF501-06-06S	3/8	11/16-16	9/16-18	1.540	39.12	0.340	8.64	3/4	0.750	19.05	•			
FF501-08-08S	1/2	13/16-16	3/4-16	1.720	43.69	0.390	9.91	7/8	0.875	22.22	•			
FF501-10-10S	5/8	1-14	7/8-14	2.000	50.80	0.460	11.68	1 1/16	1.062	26.97	•			
FF501-12-12S	3/4	1 3/16-12	1 1/16-12	2.250	57.15	0.520	13.21	1 1/4	1.250	31.75	•			
FF501-16-16S	1	1 7/8-12	1 5/16-12	2.375	60.33	0.550	13.97	1 1/2	1.500	38.10	•			
<b>NEW</b> FF501-20-20S											•			

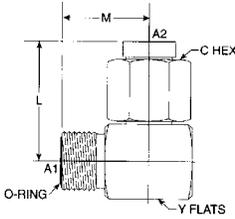
**MFS - MJ Straight**

**FF814 Series**



PART NO. SIZE	TUBE O.D.	A1 THREAD	B2 THREAD	L LGTH	M.M.	W WIDTH	M.M.	C HEX	C HEX	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF814-04-04S	1/4	9/16-18	7/16-20	1.250	31.75	0.310	7.87	5/8	0.625	15.87	•			
FF814-06-06S	3/8	11/16-16	9/16-18	1.300	33.02	0.310	7.87	3/4	0.750	19.05	•			
FF814-08-08S	1/2	13/16-16	3/4-16	1.550	39.37	0.390	9.90	7/8	0.875	22.22	•			
FF814-10-10S	5/8	1-14	7/8-14	1.750	44.45	0.390	9.90	1 1/16	1.062	26.97	•			
FF814-12-12S	3/4	1 3/16-12	1 1/16-12	1.950	49.53	0.390	9.90	1 1/4	1.250	31.75	•			
<b>NEW</b> FF814-16-16S											•			



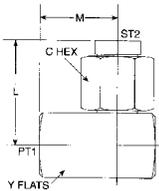


**MFS - FFSS 90°**

**FF601 Series**

SAE # 520121

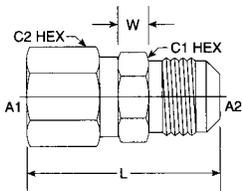
PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M M.M.	M LGTH	C HEX	C HEX	C M.M.	Y FLATS	Y FLATS	Y M.M.	Standard Material From Stock				
													S	FG	SS	B	
FF601-04-04S	1/4	9/16-18	9/16-18	1.040	26.42	0.850	21.59	11/16	0.688	17.47	9/16	0.562	14.27	•	•		
FF601-06-06S	3/8	11/16-16	11/16-16	1.150	29.21	0.980	24.89	13/16	0.812	20.62	3/4	0.750	19.05	•	•		
FF601-08-08S	1/2	13/16-16	13/16-16	1.490	37.85	0.850	21.59	15/16	0.938	23.82	3/4	0.750	19.05	•	•		
FF601-10-10S	5/8	1-14	1-14	1.620	41.15	0.980	24.89	1 1/8	1.125	28.57	1 1/16	1.062	26.97	•	•		
FF601-12-12S	3/4	1 3/16-12	1 3/16-12	2.290	58.17	0.850	21.59	1 3/8	1.375	34.92	1 3/16	1.188	30.17	•	•		
FF601-16-16S	1	1 7/16-12	1 7/16-12	2.410	61.21	0.980	24.89	1 5/8	1.625	41.27	1 7/16	1.438	36.52	•	•		
FF601-20-20S	1 1/4	1 11/16-12	1 11/16-12	2.290	58.17	0.850	21.59	1 7/8	1.875	47.62	1 5/8	1.625	41.27	•	•		
FF601-24-24S	1 1/2	2-12	2-12	2.410	61.21	0.980	24.89	2 1/2	2.250	57.15	1 7/8	1.875	47.62	•	•		



**FP - FFSS 90°**

**FF602 Series**

PART NO. SIZE	TUBE O.D.	PT1 THREAD	ST2 THREAD	L LGTH	W M.M.	W WIDTH	C M.M.	C HEX	C HEX	C M.M.	Y FLATS	Y FLATS	Y M.M.	Standard Material From Stock				
														S	FG	SS	B	
NEW FF602-04-04S																		
NEW FF602-06-06S																		



**MP - FFSS Straight**

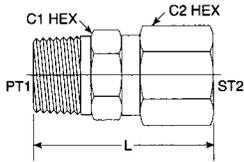
**FF811 Series**

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	W M.M.	W WIDTH	C1 M.M.	C1 HEX	C1 HEX	C1 M.M.	C2 HEX	C2 HEX	C2 M.M.	Standard Material From Stock			
														S	FG	SS	B
FF811-04-04S	1/4	9/16-18	7/16-20	1.500	38.10	0.270	6.86	1/2	0.500	12.70	11/16	0.688	17.47	•			
FF811-06-06S	3/8	11/16-16	9/16-18	1.760	44.70	0.270	6.86	5/8	0.625	15.87	13/16	0.812	20.62	•			
FF811-08-04S	1/2	13/16-16	7/16-20	2.524	64.11	0.350	8.89	3/4	0.750	19.05	15/16	0.937	23.81	•			
FF811-08-08S	1/2	13/16-16	3/4-16	1.900	48.26	0.350	8.89	13/16	0.812	20.62	15/16	0.937	23.80	•			
FF811-10-04S	5/8	1-14	7/16-20	2.670	67.82	0.370	9.40	7/8	0.880	22.22	1 1/8	1.125	28.58	•			
FF811-10-10S	5/8	1-14	7/8-14	2.300	58.42	0.350	8.89	15/16	0.937	23.80	1 1/4	1.125	28.57	•			
FF811-12-04S	3/4	1 3/16-12	7/16-20	2.916	74.07	0.406	10.31	1 1/8	1.130	28.575	1 3/8	1.375	34.93	•			
NEW FF811-12-12S														•			
FF811-16-04S	1	1 3/16-12	7/16-20	3.115	79.12	0.400	10.21	1 3/8	1.375	34.93	1 5/8	1.625	41.28	•			
FF811-16-16S	3/4	1 7/16-12	1 5/16-12	2.700	68.58	0.410	10.41	1 3/8	1.375	34.92	1 5/8	1.625	41.27	•			
FF811-20-20S	1 1/4	1 11/16-12	1 11/16-12	3.350	85.09	0.410	10.41	1 11/16	1.688	42.87	1 7/8	1.875	47.62	•			



## MP - FFSS Straight

### FF618 Series

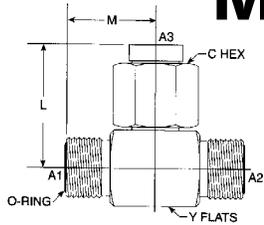


PART NO. SIZE	TUBE O.D.	PT1 THREAD	ST2 THREAD	L LGTH M.M.	W M.M. WIDTH M.M.	C1 HEX M.M.	C1 HEX M.M.	C2 HEX M.M.	C2 HEX M.M.	Standard Material From Stock					
										S	FG	SS	B		
NEW FF618-04-06S															

## MFS - MFS - FFSS Branch Tee

### FF625 Series

SAE # 520433

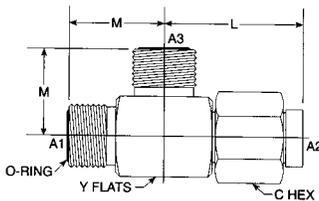


PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	L LGTH M.M.	M LGTH M.M.	C HEX M.M.	C HEX M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock							
											S	FG	SS	B				
FF625-04-04S	1/4	9/16-18	9/16-18	9/16-18	1.040	26.42	0.850	21.59	11/16	0.688	17.47	9/16	0.562	14.27	•	•		
FF625-06-06S	3/8	11/16-16	11/16-16	11/16-16	1.150	29.21	0.980	24.89	13/16	0.812	20.62	3/4	0.750	19.05	•	•		
FF625-08-08S	1/2	13/16-16	13/16-16	13/16-16	1.490	37.85	0.850	21.59	15/16	0.937	23.80	3/4	0.750	19.05	•	•		
FF625-10-10S	5/8	1-14	1-14	1-14	1.620	41.15	0.850	21.59	1 1/8	1.125	28.57	1 1/16	1.062	26.97	•	•		
FF625-12-12S	3/4	1 3/16-12	1 3/16-12	1 3/16-12	2.290	58.17	0.850	21.59	1 3/8	1.375	34.92	1 3/16	1.188	30.17	•	•		
FF625-16-16S	1	1 7/16-12	1 7/16-12	1 7/16-12	2.410	61.21	0.980	24.89	1 5/8	1.625	41.27	1 7/16	1.438	36.52	•	•		
FF625-20-20S	1 1/4	1 11/16-12	1 11/16-12	1 11/16-12	2.290	58.17	0.850	21.59	1 7/8	1.875	47.62	1 5/8	1.625	41.27	•	•		
FF625-24-24S	1 1/2	2-12	2-12	2-12	2.410	61.21	0.980	24.89	2 1/4	2.250	57.15	1 7/8	1.875	47.62	•	•		

## MFS - FFSS - MFS Tee

### FF626 Series

SAE # 520433



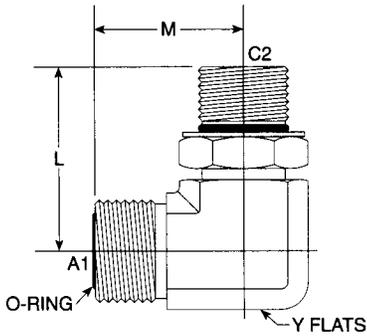
PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	A3 THREAD	L LGTH M.M.	M LGTH M.M.	C HEX M.M.	C HEX M.M.	Y FLATS M.M.	Y FLATS M.M.	Standard Material From Stock							
											S	FG	SS	B				
FF626-04-04S	1/4	9/16-18	9/16-18	9/16-18	1.040	26.42	0.850	21.59	11/16	0.688	17.47	9/16	0.562	14.27	•	•		
FF626-06-06S	3/8	11/16-16	11/16-16	11/16-16	1.150	29.21	0.980	24.89	13/16	0.812	20.62	3/4	0.750	19.05	•	•		
FF626-08-08S	1/2	13/16-16	13/16-16	13/16-16	1.490	37.85	1.100	27.94	15/16	0.937	23.80	3/4	0.750	19.05	•	•		
FF626-10-10S	5/8	1-14	1-14	1-14	1.620	41.15	1.310	33.27	1 1/4	1.250	31.75	1 1/16	1.062	26.97	•	•		
FF626-12-12S	3/4	1 3/16-12	1 3/16-12	1 3/16-12	1.820	46.23	1.470	37.34	1 3/8	1.375	34.92	1 3/16	1.188	30.17	•	•		
FF626-16-16S	1	1 7/16-12	1 7/16-12	1 7/16-12	2.100	53.34	1.640	41.66	1 5/8	1.625	41.27	1 7/16	1.438	36.52	•	•		
FF626-20-20S	1 1/4	1 11/16-12	1 11/16-12	1 11/16-12	2.290	58.17	1.760	44.70	1 7/8	1.875	47.62	1 5/8	1.625	41.27	•	•		
FF626-24-24S	1 1/2	2-12	2-12	2-12	2.410	61.21	1.920	48.77	2 1/4	2.250	57.15	1 7/8	1.875	47.62	•	•		



**MFS - MAORB 90°**

**FF522 Series**

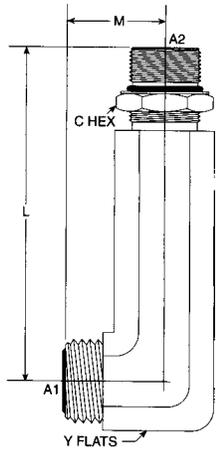
SAE # 520220



PART NO. SIZE	TUBE O.D.	A1 THREAD	C2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF522-04-04S	1/4	9/16-18	7/16-20	1.290	32.77	0.850	21.59	9/16	0.562	14.27	•	•		
FF522-04-06S	1/4	9/16-18	9/16-18	1.450	36.83	0.920	23.37	3/4	0.750	19.05	•	•		
FF522-04-08S	1/4	9/16-18	3/4-16	1.600	40.64	0.970	24.64	3/4	0.750	19.05	•	•		
NEW FF522-06-04S	3/8	11/16-16	7/16-20	1.370	34.80	0.980	24.89	3/4	0.750	19.05	•	•		
NEW FF522-06-05S											•	•		
FF522-06-06S	3/8	11/16-16	9/16-18	1.450	36.83	0.980	24.89	3/4	0.750	19.05	•	•		
FF522-06-08S	3/8	11/16-16	3/4-16	1.600	40.64	1.040	26.42	3/4	0.750	19.05	•	•		
FF522-06-10S	3/8	11/16-16	5/8-14	1.970	50.03	1.150	29.21	1 1/16	1.062	26.97	•	•	•	
FF522-06-12S	3/8	11/16-12	1 1/16-12	2.170	55.12	1.250	31.75	1 3/16	1.188	30.17	•	•		
FF522-08-06S	1/2	13/16-16	9/16-18	1.440	36.58	1.100	27.94	3/4	0.750	19.05	•	•		
FF522-08-08S	1/2	13/16-16	3/4-16	1.600	40.64	1.100	27.94	3/4	0.750	19.05	•	•		
FF522-08-10S	1/2	13/16-16	5/8-14	1.970	50.04	1.210	30.73	1 1/16	1.062	26.97	•	•		
NEW FF522-08-12S	1/2	13/16-16	1 1/16-12	2.170	55.12	1.320	33.53	1 3/16	1.188	30.17	•	•		
NEW FF522-10-08S											•	•		
FF522-10-10S	5/8	1-14	7/8-14	1.970	50.04	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF522-10-12S	5/8	1-14	1 1/16-12	2.170	55.12	1.410	35.81	1 3/16	1.188	30.17	•	•		
FF522-12-08S	3/4	1 3/16-12	3/4-16	1.840	46.74	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF522-12-10S	3/4	1 3/16-12	7/8-14	2.170	55.12	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF522-12-12S	3/4	1 3/16-12	1 1/16-12	2.170	55.12	1.470	37.34	1 3/16	1.188	30.17	•	•		
NEW FF522-12-16S	3/4	1 3/16-12	1 5/16-12	2.350	59.69	1.620	41.15	1 7/16	1.438	36.52	•	•		
NEW FF522-12-20S											•	•		
FF522-16-12S	1	1 7/16-12	1 1/16-12	2.320	58.93	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF522-16-16S	1	1 7/16-12	1 5/16-12	2.350	59.69	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF522-16-20S	1	1 7/16-12	1 5/8-12	2.450	62.23	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF522-20-16S	1 1/4	1 11/16-12	1 5/16-12	2.450	62.23	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF522-20-20S	1 1/4	1 11/16-12	1 5/8-12	2.450	62.23	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF522-20-24S	1 1/4	1 11/16-12	1 7/8-12	2.590	65.79	1.920	48.77	1 7/8	1.875	47.62	•	•		
FF522-24-20S	1 1/2	2-12	1 5/8-12	2.590	65.79	1.920	48.77	1 7/8	1.875	47.62	•	•		
FF522-24-24S	1 1/2	2-12	1 7/8-12	2.590	65.79	1.920	48.77	1 7/8	1.875	47.62	•	•		

**Hydraulic Adapters**



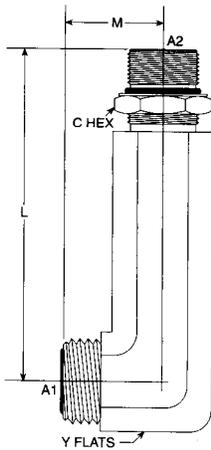


**MFS - MORB 90° Long**  
*FF522-L Series*

PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF522-L-04-04S	1/4	9/16-18	7/16-20	2.23	56.64	.85	21.59	9/16	.562	14.27		•		
FF522-L-06-06S	3/8	11/16-16	9/16-18	2.61	66.29	.98	24.89	3/4	.750	19.05		•		
FF522-L-08-08S	1/2	13/16-16	3/4-16	2.95	74.93	1.10	27.94	3/4	.750	19.05		•		
FF522-L-16-16S	1	1 7/16-12	1 5/16-12	4.51	114.55	1.64	41.66	1 7/16	1.438	36.53		•		

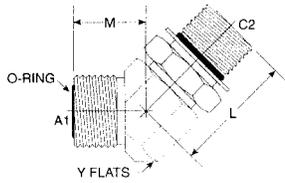
Hydraulic Adapters

**MF - MAORB X-Long**  
*FF522-LL Series*



PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF522-LL-08-08S	1/2	13/16-16	3/4-16	3.50	88.90	1.10	27.94	3/4	.750	19.05		•		
FF522-LL-16-16S	1	1 7/16-12	1 5/16-12	5.00	127.00	1.64	41.66	1 7/16	1.438	36.53		•		





**MFS - MAORB 45°**

**FF523 Series**

SAE # 520320

**NEW**

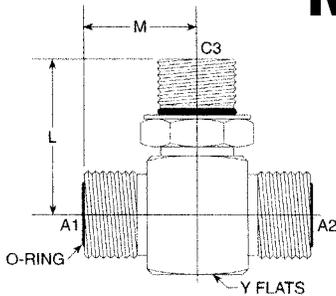
PART NO. SIZE	TUBE O.D.	A1 THREAD	C2 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
											S	FG	SS	B
FF523-04-04S	1/4	9/16-18	7/16-20	1.180	29.97	0.630	16.00	9/16	0.562	14.27	•	•		
FF523-04-06S	1/4	9/16-18	9/16-18	1.300	33.02	0.690	17.53	3/4	0.750	19.05	•	•		
FF523-06-04S	3/8	11/16-16	7/16-20	1.220	30.99	0.740	18.80	3/4	0.750	19.05	•	•		
FF523-06-06S	3/8	11/16-16	9/16-18	1.300	33.02	0.740	18.80	3/4	0.750	19.05	•	•		
FF523-06-08S	3/8	11/16-16	3/4-16	1.450	36.83	0.740	18.80	3/4	0.750	19.05	•	•		
FF523-06-10S											•	•		
FF523-08-06S	1/2	13/16-16	9/16-18	1.270	32.26	0.800	20.32	3/4	0.750	19.05	•	•		
FF523-08-08S	1/2	13/16-16	3/4-16	1.430	36.32	0.800	20.32	3/4	0.750	19.05	•	•		
FF523-08-10S	1/2	13/16-16	7/8-14	1.760	44.70	0.840	21.34	3/4	0.750	19.05	•	•		
FF523-10-08S	5/8	1-14	3/4-16	1.590	40.39	0.920	23.27	1 1/16	1.062	26.97	•	•		
FF523-10-10S	5/8	1-14	7/8-14	1.760	44.70	0.920	23.37	1 1/16	1.062	26.97	•	•		
FF523-10-12S	5/8	1-14	1 1/16-12	1.970	50.04	0.980	24.89	1 3/16	1.188	30.17	•	•		
FF523-12-10S	3/4	1 3/16-12	7/8-14	1.810	45.98	1.020	25.91	1 3/16	1.188	30.17	•	•		
FF523-12-12S	3/4	1 3/16-12	1 1/16-12	1.970	50.04	1.020	25.91	1 3/16	1.188	30.17	•	•		
FF523-12-16S	3/4	1 3/16-12	1 5/16-12	2.060	52.33	1.020	25.91	1 7/16	1.438	36.52	•	•		
FF523-16-12S	1	1 7/16-12	1 1/16-12	2.030	51.57	1.180	29.97	1 7/16	1.438	36.52	•	•		
FF523-16-16S	1	1 7/16-12	1 5/16-12	2.060	52.33	1.180	29.97	1 7/16	1.438	36.52	•	•		
FF523-16-20S	1	1 7/16-12	1 5/8-12	2.250	57.15	1.260	32.00	1 5/8	1.625	41.27	•	•		
FF523-20-20S	1 1/4	1 11/16-12	1 5/8-12	2.110	53.59	1.260	32.00	1 5/8	1.625	41.27	•	•		
FF523-24-24S	1 1/2	2-12	1 7/8-12	2.110	53.59	1.450	36.83	1 7/8	1.875	47.62	•	•		

**Hydraulic Adapters**

**MFS - MFS - MAORB Tee**

**FF525 Series**

SAE # 520429

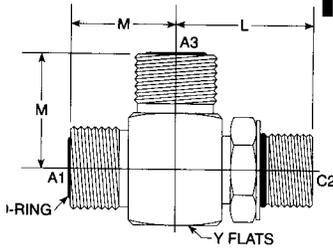


PART NO. SIZE	TUBE O.D.	A1 THREAD	A2 THREAD	C3 THREAD	L LGTH	M.M.	M LGTH	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock			
												S	FG	SS	B
FF525-04-04S	1/4	9/16-18	9/16-18	7/16-20	1.290	32.77	0.850	21.59	9/16	0.562	14.27	•	•		
FF525-06-06S	3/8	11/16-16	11/16-16	9/16-18	1.450	36.83	0.980	24.89	3/4	0.750	19.05	•	•		
FF525-08-08S	1/2	13/16-16	13/16-16	3/4-16	1.600	40.64	1.100	27.94	3/4	0.750	19.05	•	•		
FF525-10-10S	5/8	1-14	1-14	7/8-14	1.970	50.04	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF525-12-12S	3/4	1 3/16-12	1 3/16-12	1 1/16-12	2.170	55.12	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF525-16-16S	1	1 7/16-12	1 7/16-12	1 5/16-12	2.350	59.69	1.640	41.66	1 7/16	1.438	36.52	•	•		
FF525-20-20S	1 1/4	1 11/16-12	1 11/16-12	1 5/8-12	2.450	62.23	1.760	44.70	1 5/8	1.625	41.27	•	•		

**MFS - MAORB - MFS Tee**

*FF526 Series*

SAE # 520428



NEW

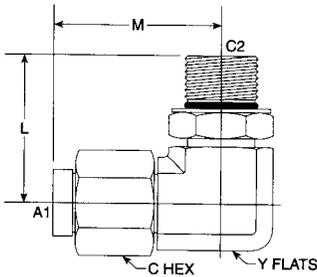
PART NO. SIZE	TUBE O.D.	A1 THREAD	C2 THREAD	A3 THREAD	L LGTH M.M.	M LGTH M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
										S	FG	SS	B		
FF526-04-04S	1/4	9/16-18	7/16-20	9/16-18	1.290	32.77	0.850	21.59	9/16	0.562	14.27	•	•		
FF526-04-06S	1/4	9/16-18	9/16-18	9/16-18	1.450	36.83	0.920	23.37	3/4	0.750	19.05	•	•		
FF526-06-04S	3/8	11/16-16	11/16-16	7/16-20	1.370	34.80	0.980	24.89	3/4	0.750	19.05	•	•		
FF526-06-06S	3/8	11/16-16	9/16-18	11/16-16	1.450	36.83	0.980	24.89	3/4	0.750	19.05	•	•		
FF526-08-06S	1/2	13/16-16	13/16-16	9/16-18	1.440	36.58	1.100	27.94	3/4	0.750	19.05	•	•		
FF526-08-08S	1/2	13/16-16	3/4-16	13/16-16	1.600	40.64	1.100	27.94	3/4	0.750	19.05	•	•		
FF526-08-12S	1/2	13/16-16	13/16-12	1 1/16-12	2.170	55.12	1.320	33.53	1 3/16	1.188	30.18	•	•		
FF526-10-10S	5/8	1-14	7/8-14	1-14	1.970	50.04	1.310	33.27	1 1/16	1.062	26.97	•	•		
FF526-10-12S	3/4	1 3/16-12	1 1/16-12	1 3/16-12	2.170	55.12	1.470	37.34	1 3/16	1.188	30.17	•	•		
FF526-12-12S	1	1 7/16-12	1 5/16-12	1 7/16-12	2.350	59.69	1.640	41.66	1 7/16	1.437	36.50	•	•		
FF523-16-16S	1 1/4	1 11/16-12	1 5/8-12	1 11/16-12	2.450	62.23	1.760	44.70	1 5/8	1.625	41.27	•	•		
FF523-20-20S	1 1/2	2-12	1 7/8-12	2-12	2.590	65.79	1.920	48.77	1 7/8	1.875	47.62	•	•		

Hydraulic Adapters

**FFSS - MAORB 90°**

*FF620 Series*

SAE # 520281



PART NO. SIZE	TUBE O.D.	A1 THREAD	C2 THREAD	L LGTH M.M.	M LGTH M.M.	C HEX	C HEX	M.M.	Y FLATS	Y FLATS	M.M.	Standard Material From Stock					
												S	FG	SS	B		
FF620-04-04S	1/4	9/16-18	7/16-20	1.290	32.77	1.040	26.42	11/16	0.688	17.47	9/16	0.562	14.27	•	•		
FF620-06-06S	3/8	11/16-16	9/16-18	1.450	36.83	1.150	29.21	13/16	0.812	20.62	3/4	0.750	19.05	•	•		
FF620-08-08S	1/2	13/16-16	3/4-16	1.600	40.64	1.490	37.85	15/16	0.937	23.80	3/4	0.750	19.05	•	•		
FF620-10-10S	5/8	1-14	7/8-14	1.970	50.04	1.620	41.25	1 1/8	1.125	28.57	1 1/16	1.062	26.97	•	•		
FF620-12-12S	3/4	1 3/16-12	1 1/16-12	2.170	55.12	1.820	46.23	1 3/8	1.387	34.23	1 3/16	1.188	30.17	•	•		
FF620-16-16S	1	1 3/16-12	1 5/16-12	2.350	59.69	2.100	53.34	1 5/8	1.625	41.27	1 7/16	1.437	36.50	•	•		

