

SAE 45° FLARE

**MADE
IN THE USA**



Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1-1/16-14

•Typical Application

LP and natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

•Working Pressure Ranges

Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73°F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035

•Vibration

Good resistance - use long nut when greater vibration resistance is required.

•Temperature Range

-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures.

•Used With

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

• Tolerance

+/- .03 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

•Conformance

Meets specifications and standards of ASA, ASME, SAE and MS (Military standards).

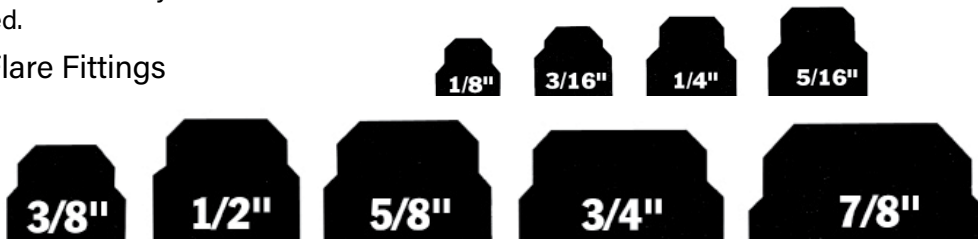
Assembly Instructions

- 1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
- 2- Slide nut on tube. Threaded end "A" of nut must face out.
- 3- Flare end of tube with a 45° flaring tool.
 - a- Measure flare diameter.
 - b- Examine flare for excessive thin out.
- 4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
- 5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.

Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.

PRICING FILE AVAILABLE ONLINE

Actual O.D. of Flare Fittings



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

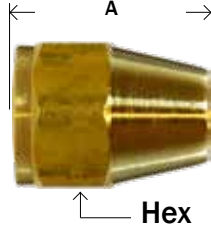
SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

SHORT ROD NUT

SAE# 010110

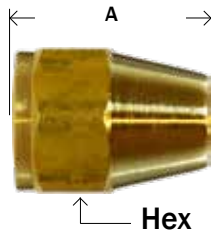


41S
411S
04014

MAF #	REF #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.	LIST
21110X2	10013	1/8"	5/16-24	0.50	0.37	0.01	2.56
41S-2		1/8"					2.56
21110X3	10014	3/16"	3/8-24	0.62	0.43	0.02	1.74
41S-3		3/16"					1.74
21110X4	10015	1/4"	7/16-20	0.75	0.56	0.03	1.66
41S-4	10015L	1/4"	7/16-20	0.75	0.50	0.03	1.57
21010X4		1/4"					1.48
21110X5	10016	5/16"	1/2-20	0.88	0.62	0.04	2.57
41S-5		5/16"					2.57
41S-6	10017L	3/8"	5/8-18	0.77	0.75	0.05	2.09
21010X6		3/8"					1.58
21110X6	10017	3/8"	5/8-18	1.00	0.75	0.04	2.58
21110X7	10018	7/16"	11/16-16	1.06	0.81	0.06	9.89
41S-7		7/16"					9.89
41S-8	10019L	1/2"	3/4-16	0.93	0.87	0.06	3.37
21110X8	10019	1/2"	3/4-16	1.12	0.87	0.09	4.94
41S-10	10020L	5/8"	7/8-14	1.08	1.00	0.10	4.67
21110X10	10020	5/8"	7/8-14	1.31	1.06	0.15	9.44
41S-12	10021	3/4"	1-1/16-14	1.50	1.25	0.24	8.78
21110X12		3/4"					9.31
41S-14	10022	7/8"	1-1/4-12	1.62	1.50	0.36	17.55
21110X14		7/8"					21.63
41S-16	10026	1"	1-3/8-12	1.81	1.62	0.44	39.10

20910 41FS 1110 N1 41FX 441S 'L'

REDUCING SHORT ROD NUT



MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
41SR-64	10023	3/8" x 1/4"	0.74	0.81	0.06	12.57
41SR-86	10024	1/2" x 3/8"	0.86	0.94	0.10	13.66
41SR-108	10025	5/8" x 1/2"	0.99	1.06	0.12	17.59

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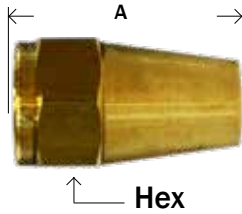
SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

LONG ROD NUT

SAE# 010111



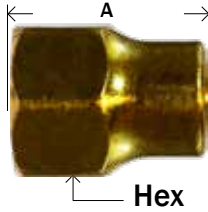
41L
04041

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
41L-2	10001	1/8"	0.75	0.37	0.01	7.20
41L-3	10002	3/16"	0.81	0.43	0.02	2.77
41L-4	10003	1/4"	0.94	0.56	0.03	2.52
41L-5	10004	5/16"	1.12	0.62	0.04	4.81
41L-6	10005	3/8"	1.31	0.75	0.06	4.36
41L-8	10006	1/2"	1.62	0.87	0.12	7.67
41L-10	10007	5/8"	1.88	1.06	0.20	11.42
41L-12	10008	3/4"	2.19	1.25	0.34	55.05

41FL N2 241 441 41

LONG FORGED NUT

SAE# 010167



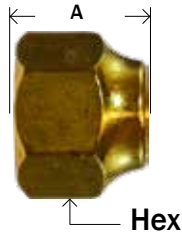
640L
641L
04016

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
641L-4	10028	1/4"	0.94	0.62	0.05	4.73
641L-5		5/16"				11.38
641L-6	10030	3/8"	1.06	0.81	0.08	7.17
641L-8	10031	1/2"	1.19	0.94	0.12	7.62
641L-10	10032	5/8"	1.44	1.06	0.26	13.43
641L-12	10033	3/4"	1.75	1.31	0.35	17.82

41FF 39 N4 14FL 641

SHORT FORGED NUT

SAE# 010166



641S
6401S
04018

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
641S-3	10038	3/16"	0.56	0.50	0.02	5.97
641S-4	10039	1/4"	0.60	0.62	0.04	2.19
641S-5	10040	5/16"	0.66	0.69	0.04	3.64
641S-6	10041	3/8"	0.70	0.81	0.06	2.92
641S-8	10042	1/2"	0.82	0.94	0.08	3.82
641S-10	10043	5/8"	0.95	1.06	0.12	5.77
641S-12	10044	3/4"	1.16	1.31	0.22	12.10
641S-14	10045	7/8"	1.18	1.38	0.30	21.08

14FS 41FFS 40 641-S 1116 NS4

FROST PROOF

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
641SFP-4		1/4"				10.11
641SFP-6		3/8"				12.35
641SFP-8		1/2"				14.60
641SFP-10		5/8"				13.48

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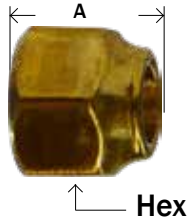


SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

EXTRA HEAVY SHORT FORGED NUT



641SH
6401SXH
04019

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
641SH-4	10046	1/4"	0.63	0.75	0.04	3.71
641SH-5		5/16"				7.23
641SH-6	10047	3/8"	0.72	0.88	0.06	4.11
641SH-8	10048	1/2"	0.88	1.00	0.08	5.01
641SH-10	10049	5/8"	0.98	1.12	0.12	7.65
641SH-12		3/4"				15.82
641SH-14		7/8"				21.97

NSA

FORGED REDUCING NUT

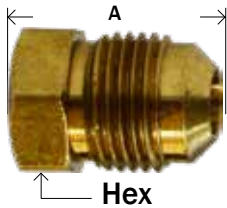


660
662S
04020

MAF #	REF #	FEMALE FLARE X OD	A	HEX	APPROX. WT. LBS.	LIST
662S-54	10051	5/16" x 1/4"	0.66	0.75	0.06	13.94
662S-64	10052	3/8" x 1/4"	0.72	0.81	0.06	5.63
662S-65	10053	3/8" x 5/16"	0.72	0.81	0.08	5.31
662S-86	10054	1/2" x 3/8"	0.81	0.94	0.08	4.74
662S-106	10055	5/8" x 3/8"	0.96	1.12	0.15	13.74
662S-108	10056	5/8" x 1/2"	0.97	1.06	0.12	8.14
662S-128		3/4" x 1/2"				22.25
662S-1210	10058	3/4" x 5/8"	1.17	1.31	0.30	18.83

NSR4 14FS 41FRS 40R 662-S

FLARED PLUG



39
439
04039

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
39-2	10062	1/8"	0.53	0.34	0.01	6.54
39-3	10063	3/16"	0.59	0.50	0.02	5.50
39-4	10064	1/4"	0.69	0.43	0.02	1.84
39-5	10065	5/16"	0.78	0.50	0.04	5.00
39-6	10066	3/8"	0.88	0.62	0.06	2.89
39-8	10067	1/2"	1.06	0.75	0.10	4.27
39-10	10068	5/8"	1.19	0.87	0.14	4.72
39-12	10069	3/4"	1.32	1.06	0.22	18.34
39-14		7/8"				27.09

58 639F PF 57 P2 2229 439

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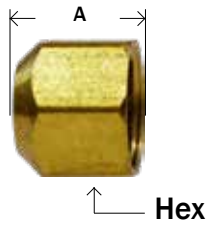


SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

FLARED CAP



40
440
04040

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
40-2	10073	1/8"	0.46	0.37	0.02	4.06
40-3	10074	3/16"	0.47	0.50	0.02	3.76
40-4	10075 *	1/4"	0.48	0.50	0.02	1.03
2139X4	10075EH	1/4"	0.54	0.57	0.02	3.02
40-5	10076	5/16"	0.62	0.62	0.04	3.06
40-6	10077 *	3/8"	0.58	0.75	0.03	2.29
40-8	10078	1/2"	0.69	0.81	0.14	2.65
40-10	10079	5/8"	0.81	0.94	0.20	3.73
40-12	10080	3/4"	1.17	1.37	0.30	15.70
40-14		7/8"				20.29

640F 41FC 56 N5 2129 54 440

FINGER TIGHTENING CAP

NFTS
FTC5
04099



- Neoprene
- O-Ring Included

MAF #	REF #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST
FTC5-4	10081	1/4"	0.62	0.02	1.63
FTC5-6	10082	3/8"	0.70	0.03	6.67

NFTS

COPPER GASKET

463
04063



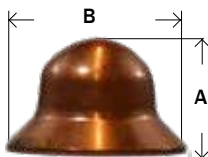
SAE# 010113

MAF #	REF #	SIZE	A	B	APPROX. WT. LBS.	LIST
463-3	10084	3/16"	0.31	0.12	0.01	0.83
463-4	10085	1/4"	0.36	0.19	0.01	0.43
463-5	10086	5/16"	0.42	0.22	0.01	1.23
463-6	10087	3/8"	0.55	0.28	0.01	0.84
463-8	10088	1/2"	0.66	0.41	0.01	1.16
463-10	10089	5/8"	0.77	0.50	0.01	1.56
463-12	10090	3/4"	0.95	0.62	0.01	2.04

B2 2GF 6251 FG 157 59 46

COPPER BONNET

464
04064



SAE# 010114

MAF #	REF #	SIZE	A	B	APPROX. WT. LBS.	LIST
464-3	10094	3/16"	0.16	0.31	0.01	1.41
464-4	10095	1/4"	0.22	0.36	0.01	1.12
464-5		5/16"				3.73
464-6	10097	3/8"	0.34	0.55	0.01	1.21
464-8	10098	1/2"	0.41	0.66	0.01	1.36
464-10	10099	5/8"	0.44	0.77	0.01	2.23
464-12	10100	3/4"	0.56	0.95	0.01	3.65

B1 3GF 64C 57 156 FB 695 464

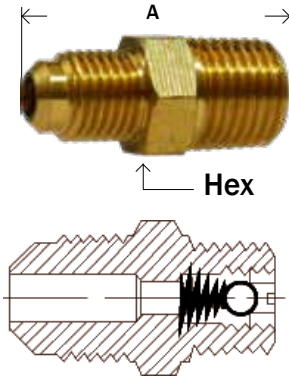


SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

MALE BALL CHECK CONNECTOR



MAF #	REF #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
43-42	10131*	1/4" x 1/8"	1.06	0.43		34.76
43-44	10256WC	1/4" x 1/4"	1.24	0.6	0.04	29.20
43-52	10132	5/16" x 1/8"	1.14	0.50	0.04	34.99
43-64	10133*	3/8" x 1/4"	1.31	0.62	0.08	30.71

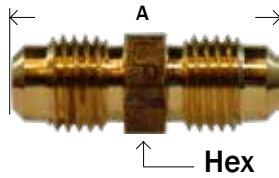
43A

43
403
04043

* Note: Ball & Spring position may be reversed to change flow/check position. Min working pressure 3 PSI.

UNION

SAE# 010101



42 - LIGHT
242 - SAE
04042

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
242X2	10104	1/8"	0.91	0.31	0.02	8.09
42-2		1/8"				8.09
242X3	10105	3/16"	1.06	0.37	0.02	4.93
42-3		3/16"				4.93
42-4	10106L	1/4"	1.19	0.43	0.03	2.87
242X4	10106 *	1/4"	1.19	0.43	0.03	2.87
R42XH-4	10106EH	1/4"	1.55	0.56	0.05	14.88
242X5	10107	5/16"	1.34	0.50	0.05	4.43
42-5		5/16"				4.43
42-6	10108L	3/8"	1.50	0.62	0.09	4.72
242X6	10108 *	3/8"	1.50	0.62	0.09	4.72
242X7		7/16"				21.74
42-8	10109L	1/2"	1.67	0.75	0.12	7.12
242X8	10109	1/2"	1.81	0.75	0.14	7.12
42-10	10110L	5/8"	2.00	0.87	0.20	10.96
242X10	10110	5/8"	2.12	0.87	0.20	10.96
42-12		3/4"				17.58
242X12	10111	3/4"	2.44	1.06	0.35	17.58
42-14	10112	7/8"	2.72	1.25	0.52	51.40

42F U2

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SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

REDUCING UNION



42R
506
04056

MAF #	REF #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST
42R-42	10115	1/4" x 1/8"	1.11	0.44	0.03	11.29
42R-43	10116	1/4" x 3/16"	1.12	0.44	0.03	12.55
42R-54	10117	5/16" x 1/4"	1.28	0.50	0.04	6.44
42R-64	10118	3/8" x 1/4"	1.38	0.62	0.06	5.07
242RX6X4		3/8" x 1/4"				5.07
42R-65	10119	3/8" x 5/16"	1.44	0.62	0.08	9.00
42R-84	10120	1/2" x 1/4"	1.53	0.75	0.10	7.74
242RX8X4		1/2" x 1/4"				7.74
42R-86	10121	1/2" x 3/8"	1.69	0.75	0.10	7.64
242RX8X6		1/2" x 3/8"				7.64
42R-106	10122	5/8" x 3/8"	1.88	0.87	0.17	12.80
242RX10X6		5/8" x 3/8"				12.80
42R-108	10123	5/8" x 1/2"	1.87	0.87	0.14	8.31
242RX10X8		5/8" x 1/2"				8.31
42R-128	10126	3/4" x 1/2"	2.18	1.06	0.26	21.74
42R-1210	10127	3/4" x 5/8"	2.20	1.06	0.27	22.34

656F UR2 42-R

BULKHEAD UNION

MAF #	REF #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST
42BH-4		1/4"				19.60
42BH-6		3/8"				25.09
42BH-8		1/2"				...
42BH-10		5/8"				54.49
42BH-12		3/4"				72.30
42RBH-68		3/8" x 1/2"				39.40
42RBH-86		1/2" x 3/8"				39.10

LOCKNUT ONLY

41LN-4		1/4"				5.14
41LN-6		3/8"				5.29
41LN-8		1/2"				6.76

244F T2 144F

UNION TEE



44F - FORGED
404
244 - BARSTOCK
04044

SAE# 010401

MAF #	REF #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST
44F-2	10157	1/8"	0.67	0.36	0.04	8.66
44F-3	10158	3/16"	0.75	0.36	0.06	6.08
44F-4	10159	1/4"	0.78	0.36	0.06	5.12
244X4		1/4"				15.94
44F-5	10160	5/16"	0.91	0.44	0.10	7.41
244X5		5/16"				26.00
44F-6	10161	3/8"	1.00	0.44	0.12	7.51
244X6		3/8"				15.07
44F-8	10162	1/2"	1.16	0.59	0.19	7.73
244X8		1/2"				23.92
44F-10	10163	5/8"	1.41	0.69	0.30	15.94
244X10		5/8"				29.20
44F-12	10164	3/4"	1.64	0.88	0.53	35.20
44F-14	10165	7/8"	1.75	1.25	0.93	61.31

244F T2 144F

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MID-AMERICA FITTINGS

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

REDUCING TEE 1 X 2 X 3



44FR
509
04059

MAF #	REF #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.	LIST
44FR-446	10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10	8.16
44FR-554	10171	5/16" x 5/16" x 1/4"	0.94	0.94	0.44	0.12	12.22
44FR-644	10172	3/8" x 1/4" x 1/4"	0.91	1.00	0.44	0.10	9.76
44FR-646	10173	3/8" x 1/4" x 3/8"	1.00	0.91	0.44	0.12	12.17
44FR-664	10174	3/8" x 3/8" x 1/4"	1.00	0.88	0.44	0.11	8.77
44FR-668	10175	3/8" x 3/8" x 1/2"	1.00	1.19	0.59	0.14	12.21
44FR-6610	10176	3/8" x 3/8" x 5/8"	1.16	1.44	0.69	0.16	23.58
44FR-848		1/2" x 1/4" x 1/2"					17.30
44FR-866	10178	1/2" x 3/8" x 3/8"	1.16	1.12	0.59	0.18	9.27
44FR-868	10179	1/2" x 3/8" x 1/2"	1.16	1.09	0.59	0.18	11.32
44FR-884	10180	1/2" x 1/2" x 1/4"	1.16	0.97	0.59	0.18	15.66
44FR-886	10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19	10.25
44FR-8810	10182	1/2" x 1/2" x 5/8"	1.28	1.41	0.69	0.28	14.93
44FR-1066		5/8" x 3/8" x 3/8"					18.04
44FR-10810	10187	5/8" x 1/2" x 5/8"	1.44	1.33	0.69	0.27	23.13
44FR-10104	10188	5/8" x 5/8" x 1/4"	1.38	1.16	0.69	0.30	22.00
44FR-10106	10189	5/8" x 5/8" x 3/8"	1.38	1.28	0.69	0.28	20.15
44FR-10108	10-197	5/8" x 5/8" x 1/2"	1.66	1.50	0.88	0.36	28.88
44FR-121012		3/4" x 5/8" x 3/4"					48.90
44FR-121210		3/4" x 3/4" x 5/8"					50.25

144F TR2 659F 684F 44R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

FEMALE ADAPTER

SAE# 010103



46 - LIGHT
246 - SAE
406
04046

MAF #	REF #	MALE FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
46-22		1/8" x 1/8"				6.53
246X3	10227	3/16" x 1/8"	0.97	0.56	0.03	4.91
46-32		3/16" x 1/8"				4.91
46-42	10228L	1/4" x 1/8"	1.03	0.56	0.03	1.66
246X4	10228	1/4" x 1/8"	1.03	0.56	0.04	3.44
46-44	10229L	1/4" x 1/4"	1.06	0.68	0.06	4.11
246X4X4	10229	1/4" x 1/4"	1.23	0.68	0.07	4.72
46-46	10230	1/4" x 3/8"	1.18	0.81	0.08	6.34
246X4X6		1/4" x 3/8"				7.99
46-48	10231	1/4" x 1/2"	1.31	0.94	0.06	9.59
246X5	10232	5/16" x 1/8"	1.06	0.56	0.05	18.46
46-52		5/16" x 1/8"				9.77
246X5X4		5/16" x 1/4"				6.59
46-54	10233	5/16" x 1/4"	1.28	0.68	0.08	6.52
246X6X2		3/8" x 1/8"				5.23
46-62	10234	3/8" x 1/8"	1.09	0.62	0.08	4.46
46-64	10235L	3/8" x 1/4"	1.25	0.68	0.08	3.51
246X6	10235	3/8" x 1/4"	1.31	0.81	0.08	5.35
46-66	10236L	3/8" x 3/8"	1.25	0.81	0.08	4.43
246X6X6	10236	3/8" x 3/8"	1.25	0.81	0.10	10.99
46-68	10237L	3/8" x 1/2"	1.31	0.94	0.08	5.08
246X6X8	10237	3/8" x 1/2"	1.60	1.00	0.16	11.19
46-612	10238	3/8" x 3/4"	1.41	1.18	0.11	10.12
46-84	10239	1/2" x 1/4"	1.37	0.75	0.10	5.07
46-86	10240L	1/2" x 3/8"	1.38	0.81	0.12	4.65
246x8	10240	1/2" x 3/8"	1.50	0.81	0.14	9.44
46-88	10241L	1/2" x 1/2"	1.42	0.94	0.10	6.87
246x8x8	10241	1/2" x 1/2"	1.75	1.00	0.12	12.22
46-812	10242L	1/2" x 3/4"	1.40	1.10	0.16	7.67
246X8X12	10242	1/2" x 3/4"	1.60	1.12	0.16	17.48
46-106	10243	5/8" x 3/8"	1.24	0.87	0.12	10.22
46-108	10244L	5/8" x 1/2"	1.51	0.86	0.15	6.52
246X10	10244	5/8" x 1/2"	1.62	0.94	0.12	14.85
46-1012	10245	5/8" x 3/4"	1.65	1.12	0.17	9.39
46-128	10246	3/4" x 1/2"	1.74	1.18	0.32	26.42
46-1212	10247	3/4" x 3/4"	1.75	1.18	0.22	21.78
46-148		7/8" x 1/2"				26.42
46-1412	10248	7/8" x 3/4"	1.94	1.31	0.26	22.70

46 U3

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MID-AMERICA FITTINGS

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

MALE ADAPTER

SAE# 010102



48
248 - LIGHT
408 - SAE
04048

MAF #	REF #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
248X2	10253	1/8" x 1/8"	0.92	0.43	0.02	4.45
48-22		1/8" x 1/8"				4.45
248X3	10254	3/16" x 1/8"	1.00	0.43	0.03	2.28
48-32		3/16" x 1/8"				2.28
48-34		3/16" x 1/4"				8.92
48-42	10255L	1/4" x 1/8"	1.06	0.43	0.03	1.55
248X4	10255	1/4" x 1/8"	1.06	0.43	0.04	1.48
R48XH-42	10255EH	1/4" x 1/8"	1.06	0.44	0.03	14.35
AV48-44		1/4" x 1/4"				8.57
48-44	10256L	1/4" x 1/4"	1.15	0.56	0.03	1.85
248X4X4	10256	1/4" x 1/4"	1.25	0.56	0.04	1.93
48-46	10257	1/4" x 3/8"	1.31	0.68	0.06	2.92
248X4X6		1/4" x 3/8"				4.18
48-48	10258	1/4" x 1/2"	1.44	0.87	0.11	6.55
248X4X8		1/4" x 1/2"				7.76
48-52	10259L	5/16" x 1/8"	1.15	0.50	0.04	3.16
248X5	10259	5/16" x 1/8"	1.16	0.50	0.04	3.00
48-54	10260L	5/16" x 1/4"	1.31	0.56	0.06	3.63
248X5X4	10260	5/16" x 1/4"	1.34	0.56	0.06	4.25
48-56	10261	5/16" x 3/8"	1.38	0.68	0.08	6.33
48-58		5/16" x 1/2"				13.62
248X6X2	10262	3/8" x 1/8"	1.25	0.62	0.07	3.03
48-62		3/8" x 1/8"				3.03
48-64	10263L	3/8" x 1/4"	1.31	0.62	0.06	2.65
248X6	10263	3/8" x 1/4"	1.44	0.62	0.08	3.19
48-66	10264L	3/8" x 3/8"	1.37	0.68	0.09	3.19
248X6X6	10264	3/8" x 3/8"	1.42	0.68	0.09	3.55
48-68	10265L	3/8" x 1/2"	1.44	0.89	0.12	5.08
248X6X8	10265	3/8" x 1/2"	1.69	0.87	0.14	6.76
248X6X12	10266	3/8" x 3/4"	1.81	1.06	0.18	11.29
248X7		7/16" x 1/4"				13.67
248X8X2		1/2" x 1/8"				10.43
48-84	10267	1/2" x 1/4"	1.60	0.75	0.11	4.18
248X8X4		1/2" x 1/4"				4.96
48-86	10268L	1/2" x 3/8"	1.46	0.75	0.10	3.73
248X8	10268	1/2" x 3/8"	1.62	0.75	0.12	4.27
48-88	10269L	1/2" x 1/2"	1.62	0.87	0.13	4.31
248X8X8	10269	1/2" x 1/2"	1.79	0.87	0.15	6.16
248X8X12	10270	1/2" x 3/4"	1.75	1.06	0.22	12.20
48-812		1/2" x 3/4"				7.98
48-104	10271	5/8" x 1/4"	1.81	0.87	0.14	11.37
248X10X4		5/8" x 1/4"				11.92

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

U1 48

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

MALE ADAPTER - CONTINUED

MAF #	REF #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
48-106	10272L	5/8" x 3/8"	1.67	0.87	0.14	5.87
248X10X6	10272	5/8" x 3/8"	1.81	0.87	0.18	9.22
48-108	10273L	5/8" x 1/2"	1.80	0.87	0.11	5.44
248X10	10273	5/8" x 1/2"	2.00	0.87	0.20	9.11
248X10X12	10274	5/8" x 3/4"	1.85	1.06	0.21	12.54
48-1012		5/8" x 3/4"				9.31
248X12	10275	3/4" x 1/2"	2.19	1.06	0.28	15.07
48-128		3/4" x 1/2"				13.90
248X12X12	10276	3/4" x 3/4"	2.08	1.06	0.28	14.84
48-1212		3/4" x 3/4"				10.57
48-148	10277	7/8" x 1/2"	2.22	1.25	0.52	38.10
48-1412	10278	7/8" x 3/4"	2.35	1.25	0.41	24.14
48-168		1" x 1/2"				33.43
48-1612	10279	1" x 3/4"	2.44	1.43	0.53	37.25
48-1616	10280	1" x 1"	2.44	1.43	0.53	35.29

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MID-AMERICA FITTINGS



SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

90° MALE ELBOW

SAE# 010202



Forged Elbow



Barstock Elbow

249

49
249
409
04049

MAF #	REF #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
49F-22	10283	1/8" x 1/8"	0.63	0.73	0.37	0.04	11.28
249X2	10283B*	1/8" x 1/8"	0.62	0.69	0.43	0.04	39.30
49F-32	10284	3/16" x 1/8"	0.75	0.75	0.38	0.04	8.52
249X3	10284B*	3/16" x 1/8"	0.75	0.75	0.43	0.06	5.63
49F-34	10285	3/16" x 1/4"	0.81	0.88	0.44	0.08	6.83
49F-42	10286	1/4" x 1/8"	0.84	0.78	0.38	0.04	3.78
249X4	10286B*	1/4" x 1/8"	0.81	0.78	0.47	0.05	2.91
49F-44	10287 **	1/4" x 1/4"	0.81	0.88	0.44	0.05	3.91
249X4X4	10287B*	1/4" x 1/4"	0.91	0.93	0.59	0.08	4.36
49F-46	10288 **	1/4" x 3/8"	0.91	0.91	0.47	0.08	6.25
249X4X6		1/4" x 3/8"					12.91
49F-48	10289	1/4" x 1/2"	1.03	1.09	0.59	0.10	7.46
49F-52	10290	5/16" x 1/8"	0.91	0.88	0.44	0.06	5.46
249X5	10290B*	5/16" x 1/8"	0.91	0.78	0.52	0.06	8.07
49F-54	10291	5/16" x 1/4"	0.98	0.96	0.44	0.08	5.53
249X5X4	10291B*	5/16" x 1/4"	0.95	0.92	0.62	0.08	9.15
49F-56	10292	5/16" x 3/8"	1.06	1.09	0.59	0.08	6.80
49F-62	10293	3/8" x 1/8"	1.00	0.91	0.53	0.08	6.86
249X6X2	10293B*	3/8" x 1/8"	1.03	0.91	0.65	0.08	8.86
49F-64	10294	3/8" x 1/4"	1.01	0.89	0.48	0.08	4.18
249X6	10294B*	3/8" x 1/4"	0.97	1.04	0.68	0.11	6.61
49F-66	10295 **	3/8" x 3/8"	1.00	0.88	0.47	0.10	4.36
R49F-66	10295B*	3/8" x 3/8"	1.06	1.09	0.69	0.12	7.38
249X6X6	10295BL	3/8" x 3/8"	0.95	0.89	0.46	0.11	7.89
249X6X8	10296 **	3/8" x 1/2"	1.10	1.09	0.59	0.12	16.42
49F-68		3/8" x 1/2"					6.78
249X6X12	10297	3/8" x 3/4"	1.25	1.31	0.81	0.12	29.45
49F-612		3/8" x 3/4"					15.42
249X7		7/16" x 1/4"					18.99
49F-84	10298	1/2" x 1/4"	1.19	1.00	0.59	0.12	5.87
249X8X4	10298B*	1/2" x 1/4"	1.22	1.19	0.81	0.12	16.16
49F-86	10299	1/2" x 3/8"	1.10	1.00	0.59	0.13	5.94
249X8	10299B*	1/2" x 3/8"	1.22	1.12	0.77	0.18	10.64
49F-88	10300	1/2" x 1/2"	1.16	1.13	0.59	0.14	8.58
249X8X8	10300B*	1/2" x 1/2"	1.26	1.26	0.94	0.26	14.26
R49F-88		1/2" x 1/2"					9.87
R49F-88L		1/2" x 1/2"					13.27
49F-812	10301	1/2" x 3/4"	1.42	1.25	0.81	0.24	13.07
249X8X12		1/2" x 3/4"					29.20
49F-104	10311	5/8" x 1/4"	1.34	1.13	0.72	0.28	12.42
49F-106	10302	5/8" x 3/8"	1.35	1.22	0.72	0.20	10.76
249X10X6	10302B*	5/8" x 3/8"	1.41	1.25	0.94	0.20	26.42
249X10	10303	5/8" x 1/2"	1.35	1.22	0.72	0.20	----

CONTINUED ON NEXT PAGE!

Dimension data can change without notice. Please call when dimensions are critical.

249F 49 E1 149F



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

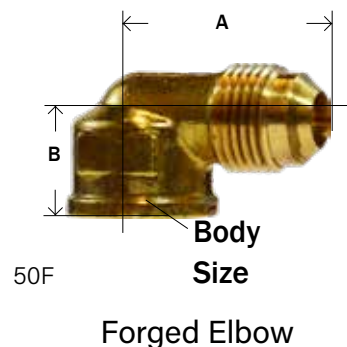
MADE IN THE USA

90° MALE ELBOW - CONTINUED

MAF #	REF #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
249X10	10303B*	5/8" x 1/2"	1.41	1.38	0.94	0.20	19.11
49F-1012	10304	5/8" x 3/4"	1.44	1.31	0.81	0.25	14.89
249X10X12		5/8" x 3/4"					29.92
49F-126		3/4" x 3/8"					24.61
49F-128	10305	3/4" x 1/2"	1.67	1.50	0.88	0.34	18.40
249X12		3/4" x 1/2"					50.44
49F-1212	10306	3/4" x 3/4"	1.67	1.63	0.88	0.30	16.67
249X12X12	10306B*	3/4" x 3/4"	1.60	1.62	0.91	0.32	36.12
49F-1412	10307	7/8" x 3/4"	1.75	1.68	1.00	0.44	48.87
49F-1612	10308	1" x 3/4"	1.94	1.69	1.31	0.75	50.85
49F-1616	10309	1" x 1"	1.94	1.75	1.25	0.78	50.30

90° FEMALE ELBOW

SAE# 010203



50F

50F
250
500
04050



MAF #	REF #	MALE FLARE X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
50F-32	10312	3/16" x 1/8"	0.81	0.44	0.56	0.05	7.69
50F-42	10313	1/4" x 1/8"	0.90	0.46	0.56	0.06	4.67
250X4	10313B*	1/4" x 1/8"	0.95	0.46	0.56	0.06	5.83
50F-44	10314	1/4" x 1/4"	0.97	0.59	0.75	0.08	6.20
250X4X4	10314B*	1/4" x 1/4"	0.95	0.66	0.75	0.08	10.18
50F-46	10315	1/4" x 3/8"	1.03	0.57	0.81	0.09	9.17
50F-48	10333	1/4" x 1/2"	1.08	0.66	1.00	0.12	11.75
50F-52	10316	5/16" x 1/8"	0.94	0.88	0.45	0.08	8.10
250X5	10316B*	5/16" x 1/8"	0.94	0.87	0.56	0.07	10.39
50F-54	10317	5/16" x 1/4"	1.03	0.58	0.75	0.06	13.17
50F-62	10318	3/8" x 1/8"	1.00	0.88	0.47	0.10	8.55
50F-64	10319	3/8" x 1/4"	1.06	0.59	0.75	0.09	4.01
250X6	10319B*	3/8" x 1/4"	1.15	0.73	0.68	0.14	28.28
50F-66	10320	3/8" x 3/8"	1.06	0.57	0.81	0.10	5.69
250X6X6	10320B*	3/8" x 3/8"	1.10	0.75	0.82	0.16	18.65
50F-68	10321	3/8" x 1/2"	1.16	0.66	1.00	0.14	7.55
250X6X8		3/8" x 1/2"					19.03
50F-68	10321L	3/8" x 1/2"	1.21	0.42	0.96	0.13	7.55
50F-612	10322	3/8" x 3/4"	1.28	0.72	1.25	0.12	13.09
50F-84	10323	1/2" x 1/4"	1.25	0.70	0.88	0.13	11.43
50F-86	10324	1/2" x 3/8"	1.25	0.70	0.88	0.12	8.50
250X8	10324B*	1/2" x 3/8"	1.26	0.75	0.88	0.16	23.85
50F-88	10325	1/2" x 1/2"	1.29	0.72	1.00	0.18	8.94
50DE-88	10325L	1/2" x 1/2"	1.24	0.71	0.98	0.17	16.74
50F-812	10326	1/2" x 3/4"					12.19
50F-106	10327	1/2" x 3/4"	1.41	0.72	1.25	0.20	15.22
50F-108	10328	5/8" x 3/8"	1.35	1.22	0.72	0.22	13.84
250X10		5/8" x 1/2"	1.38	0.75	1.00	0.20	25.67
50DE-108		Drop Ear 5/8" x 1/2"					21.85
50F-1012	10329	5/8" x 3/4"	1.50	0.76	1.25	0.28	14.08
50F-128	10-330	3/4" x 1/2"	1.63	1.06	1.06	0.42	25.46
50F-1212	10-331	3/4" x 3/4"	1.88	1.06	1.31	0.40	37.66
50F-1412		7/8" x 3/4"					47.61

* Barstock

E3 50 150F

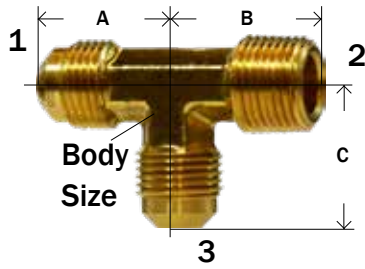
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

FORGED MALE RUN TEE

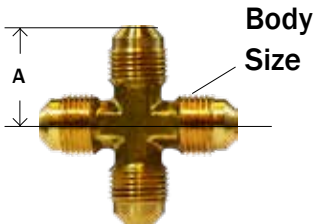


51F
501
04051

MAF #	REF #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST
51F-32	10343	3/16" x 1/8"	0.75	0.75	0.75	0.37	0.05	7.59
51F-42	10344	1/4" x 1/8"	0.78	0.75	0.78	0.37	0.06	6.54
251X4	10344B	1/4" x 1/8"	0.90	0.76	0.86	0.37	0.07	9.74
51F-44	10345	1/4" x 1/4"	0.88	0.88	0.88	0.44	0.08	8.03
51F-46		1/4" x 3/8"						11.17
51F-52	10347	5/16" x 1/8"	0.88	0.80	0.88	0.44	0.08	8.22
51F-54	10348	5/16" x 1/4"	0.94	0.94	0.94	0.44	0.08	10.25
51F-62		3/8" x 1/8"						12.31
51F-64	10350	3/8" x 1/4"	1.00	0.94	1.00	0.44	0.12	10.25
51F-66	10351	3/8" x 3/8"	1.00	1.00	1.00	0.47	0.10	14.21
51F-668	10340	3/8" x 1/2" x 3/8"	1.09	1.09	1.16	0.59	0.18	12.54
51F-68	10352	3/8" x 1/2"	1.12	1.22	1.12	0.69	0.12	19.96
51F-886	10353	1/2" x 3/8" x 1/2"	1.22	1.22	1.15	0.69	0.22	14.87
51F-84		1/2" x 1/4"						...
51F-86	10354	1/2" x 3/8"	1.16	1.09	1.16	0.59	0.18	17.27
51F-88	10355	1/2" x 1/2"	1.22	1.22	1.22	0.69	0.22	15.22
51F-106		5/8" x 3/8"						20.70
51F-108	10357	5/8" x 1/2"	1.41	1.31	1.41	0.69	0.28	21.41
51F-128	10359	3/4" x 1/2"	1.63	1.59	1.63	0.88	0.48	42.15
51F-1212	10360	3/4" x 3/4"	1.62	1.44	1.62	0.88	0.48	37.24

FORGED FLARE CROSS

SAE# 010501



52
502
04052

MAF #	REF #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST
52F-4	10373	1/4"	0.88	0.44	0.10	15.43
52F-5	10374	5/16"	0.92	0.44	0.10	15.11
52F-6	10375	3/8"	1.00	0.44	0.16	14.41
52F-8	10376	1/2"	1.16	0.59	0.24	16.98
52F-10		5/8"				43.97

455 C1 147F 52

FEMALE RUN TEE

04091

MAF #	REF #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST
51FP-44		1/4" x 1/4"				12.73
51FP-66		3/8" x 3/8"				15.81
51FP-68		3/8" x 1/2"				16.69

Dimension data can change without notice. Please call when dimensions are critical.

T3 151F 51

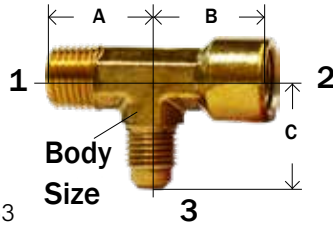
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

FORGED ADAPTER TEE / SERVICE TEE



04053
53
503

MAF #	REF #	SIZE 1 X 2 X 3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST
253X3		1/8"x1/8"x3/16"						25.51
53F-42	10382	1/8"x1/8"x1/4"	0.72	0.53	0.80	0.47	0.08	7.94
53F-44		1/4"x1/4"x1/4"						10.04
53F-64		3/8"x3/8"x1/4"						15.60

T17 53

MAF #	REF #	MIP X MIP ON RUN X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
53FM-224		1/8" x 1/4"					8.05
53FM-444		1/4" x 1/4"					9.31
53FM-666		3/8" x 3/8"					13.94

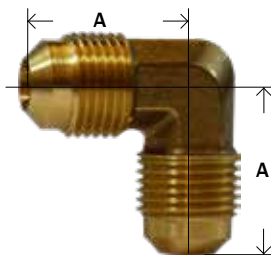
FL X FL X FIP FEMALE TEE

MAF #	REF #	FLARE X FLARE X FIP	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
58FP-42		1/4" x 1/8"					14.10
58FP-44		1/4" x 1/4"					11.08
58FP-64		3/8" x 1/4"					10.33
58FP-66		3/8" x 3/8"					15.99
53FP-6668*		3/8" x 1/2"					20.38
58FP-86		1/2" x 3/8"					23.95
58FP-88		1/2" x 1/2"					25.17
T6-444**		1/4" x 1/4"					9.00

040

* Flare x flare x flare x FIP cross ** fe. flare on branch

UNION ELBOW



55F Forged
505
255 Barstock

MAF #	REF #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST
55F-2	10404	1/8"	0.64	0.04	25.45
55F-3	10405	3/16"	0.75	0.06	11.64
55F-4	10406	1/4"	0.81	0.08	3.82
255X4*	10406B*	1/4"	0.89	0.04	18.95
55F-5	10407	5/16"	0.91	0.10	6.75
255X5*		5/16"			20.47
55F-6	10408	3/8"	1.00	0.10	5.70
255X6*		3/8"			20.92
55F-8	10409	1/2"	1.16	0.14	8.56
255X8*	10409B*	1/2"	1.23	0.22	23.29
55F-10	10410	5/8"	1.41	0.22	13.90
255X10*		5/8"			30.58
55F-12	10411	3/4"	1.66	0.68	27.89
55F-14	10412	7/8"	1.81	0.82	51.07

* Barstock

E2 155F

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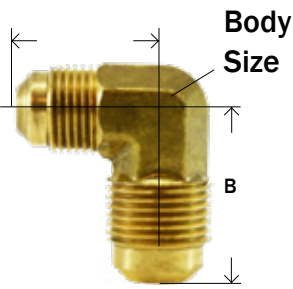
MID-AMERICA FITTINGS

SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

FORGED REDUCING ELBOW



55R
507
04057

MAF #	REF #	MALE FLARE X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
55FR-64	10416	3/8" x 1/4"	1.00	0.88	0.47	0.08	6.86
55FR-84		1/2" x 1/4"					14.01
55FR-86	10419	1/2" x 3/8"	1.19	1.02	0.59	0.14	8.72
55FR-106		5/8" x 3/8"					16.46
55FR-108	10421	5/8" x 1/2"	1.34	1.23	0.72	0.21	13.65
55FR-128		3/4" x 1/2"					32.77
55FR-1210		3/4" x 5/8"					35.58

ER2 657F 55R

45° ELBOW

SAE# 010302



4945F
254

54
4945
40945
04095

MAF #	REF #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST
4945F-32		3/16" x 1/2"					9.30
4945F-42	10448	1/4" x 1/8"	0.67	0.64	0.41	0.04	3.79
254X4*	10448B*	1/4" x 1/8"	0.67	0.64	0.44	0.04	12.52
4945F-44	10449	1/4" x 1/4"	0.75	0.86	0.53	0.07	6.45
254X4X4		1/4" x 1/4"					10.66
4945F-52	10450	5/16" x 1/8"	0.78	0.64	0.53	0.06	6.45
254X5*		5/16" x 1/8"					21.33
4945F-54	10451	5/16" x 1/4"	0.81	0.86	0.53	0.07	7.65
4945F-64	10452	3/8" x 1/4"	0.91	0.86	0.53	0.09	6.79
254X6*	10452B*	3/8" x 1/4"	0.89	0.86	0.64	0.12	12.01
4945F-66	10453	3/8" x 3/8"	0.93	0.94	0.59	0.11	7.51
254X6X6*		3/8" x 3/8"					9.67
4945F-68	10454	3/8" x 1/2"	0.99	1.17	0.75	0.19	10.11
4945F-84		1/2" x 1/4"					25.67
4945F-86	10455	1/2" x 3/8"	1.07	0.88	0.59	0.12	8.72
254X8*	10455B*	1/2" x 3/8"	1.06	0.94	0.76	0.18	26.57
4945F-88	10456	1/2" x 1/2"	1.12	1.18	0.75	0.20	11.52
254X8X8*		1/2" x 1/2"					67.67
4945F-106	10460	5/8" x 3/8"	1.13	0.95	0.81	0.22	16.68
254X10X6*		5/8" x 3/8"					22.65
4945F-108	10457	5/8" x 1/2"	1.12	1.17	0.78	0.18	12.56
254X10*		5/8" x 1/2"					27.48
4945F-128	10458	3/4" x 1/2"	1.28	1.16	0.88	0.26	20.04
4945F-1212	10459	3/4" x 3/4"	1.41	1.20	0.88	0.31	20.56

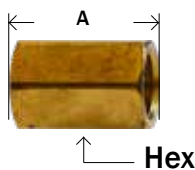
* Barstock

E145 54 159F 654F 59FF 254 47 4945

FEMALE 45° FLARE FITTINGS

UNION

SAE# 010107 • Use with Copper Gasket



600
600F
04060

MAF #	REF #	FEMALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST
600F-4	10135	1/4"	1.00	0.62	0.06	12.29
600F-6	10136	3/8"	1.25	0.81	0.14	21.79
600F-8	10137	1/2"	1.43	0.94	0.18	27.82
600F-10	10138	5/8"	1.69	1.07	0.24	38.92
600F-12	10139	3/4"	2.00	1.31	0.42	65.79

2310 U4 660HD 32

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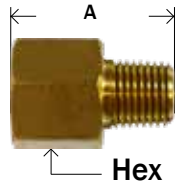
SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

FEMALE FLARE ADAPTER SAE# 010106

664
04066



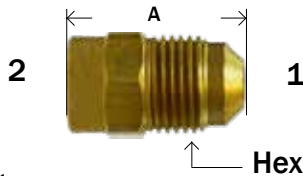
MAF #	REF #	FEMALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
664-42	10440	1/4" x 1/8"	0.91	0.62	0.05	6.67
664-44	10441	1/4" x 1/4"	1.01	0.62	0.06	7.00
664-64	10442	3/8" x 1/4"	1.28	0.81	0.10	10.55
664S-64*		3/8" x 1/4"				21.17
664-68	10438	3/8" x 1/2"				15.21
664-86	10443	1/2" x 3/8"	1.36	0.94	0.14	27.66
664-88	10444	1/2" x 1/2"	1.46	0.94	0.14	13.82
664-108	10439	5/8" x 1/2"				21.91

* Swivel

U5 664FHD 33 48-FF

FLARE REDUCER

601
04061



WG=WITH GASKET

MAF #	REF #	FEMALE FLARE X MALE FLARE	A	HEX	APPROX. WT. LBS.	LIST
601-34		3/16" x 1/4"				17.99
601-43		1/4" x 3/16"				17.99
601-45		1/4" x 5/16"				19.71
601WG-46		1/4" x 3/8"				8.14
601-46	10463	1/4" x 3/8"	1.12	0.62	0.06	8.09
601-48		1/4" x 1/2"				16.69
601-412		1/4" x 3/4"				28.45
601WG-54		5/16" x 1/4"				19.82
601-54		5/16" x 1/4"				17.81
601-56		5/16" x 3/8"				26.10
601-64	10462	3/8" x 1/4"	1.22	0.81	0.10	6.89
601WG-64		3/8" x 1/4"				8.44
601-68	10467	3/8" x 1/2"	1.41	0.81	0.13	8.41
601WG-68		3/8" x 1/2"				10.84
601-610		3/8" x 5/8"				19.82
601-612		3/8" x 3/4"				30.02
601-84	10461	1/2" x 1/4"	1.36	0.94	0.14	22.53
601-86	10464	1/2" x 3/8"	1.44	0.94	0.14	8.54
601WG-86		1/2" x 3/8"				11.29
601WG-810		1/2" x 5/8"				22.52
601-810	10469	1/2" x 5/8"	1.63	1.00	0.17	22.52
601-812		1/2" x 3/4"				29.86
601-104		5/8" x 1/4"				25.10
601-106	10473	5/8" x 3/8"	1.63	1.12	0.16	19.17
601WG-108		5/8" x 1/2"				39.11
601-108	10468	5/8" x 1/2"	1.68	1.06	0.20	37.43
601-1012		5/8" x 3/4"				25.11
601WG-1012		5/8" x 3/4"				27.67
601RG-1015		5/8" x 15/16"				22.72
601-126		3/4" x 3/8"				27.38
601-128	10471	3/4" x 1/2"	1.75	1.18	0.32	25.54
601-1210	10470	3/4" x 5/8"	1.97	1.31	0.31	21.70

UR3 661FHD 227 46-FF

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MID-AMERICA FITTINGS

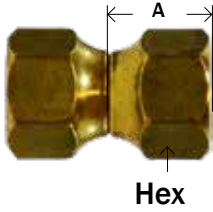
SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

BRASS FLARE SWIVEL FITTINGS

FORGED SWIVEL SAE# 010108

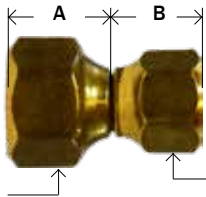


700
04070

MAF #	REF #	FEMALE FLARE UNF	A	HEX	APPROX. WT. LBS.	LIST
700-4	10481	1/4"	0.59	0.62	0.04	7.33
700-5	10482	5/16"	0.62	0.68	0.06	9.95
700-6	10483	3/8"	0.69	0.81	0.10	6.98
700SH-6	10483L	3/8"	0.63	0.80		13.46
700-8	10484	1/2"	0.81	0.94	0.16	10.16
700SH-8	10484L	1/2"	0.82	0.92		15.04
700-10	10485	5/8"	0.94	1.06	0.24	14.36
700SH-10		5/8"				16.67
700-12	10486	3/4"	1.12	1.31	0.34	40.16

1350 US4 14FSV 34

REDUCING SWIVELS



Hex 1

Hex 2

700R
04075

MAF #	REF #	FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST
700R-64	10487	3/8" x 1/4"	0.72	0.60	0.81	0.62	0.08	15.12
700R-86	10488	1/2" x 3/8"	0.84	0.70	0.94	0.81	0.12	18.47
700R-108	10489	5/8" x 1/2"	0.98	0.82	1.03	0.94	0.22	22.58

FORGED SWIVEL ELBOWS



701
04071

MAF #	REF #	MALE FLARE X FEMALE FLARE	A	B	HEX	APPROX. WT. LBS.	LIST
ES4-44	10493	1/4"	0.93	0.86	.563	0.12	15.85
ES4-66	10494	3/8"	1.13	1.1	.75	0.20	25.00
ES4-68		3/8" x 1/2"					47.20
ES4-88	10495	1/2"	1.29	1.20	.88	0.25	35.56
ES4-1010	10496	5/8"	1.50	1.30	1.00	0.37	45.92
ES4-1212	10497	3/4"	1.83	1.60	1.25	0.54	82.31

ES4

DRUM ADAPTERS

SAE# 010165



K1
04030

• Straight Thread

MAF #	REF #	MALE FLARE X FIP	LIST
K1-48	50011	1/4" x 1/2"	32.40
K1-412	50001	1/4" x 3/4"	15.52
K1-612		3/8" x 3/4"	24.76
K1-812		1/2" x 3/4"	22.94
KG-8	gasket	1/2"	1.48
KG-12	gasket	3/4"	1.57

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FLARE SWEAT FITTINGS



04082

MAF #	REF #	FLARE X SWEAT	LIST
48S-44	10600	1/4" x 1/4"	5.17
48S-46	10602	1/4" x 3/8"	5.95
48S-64	10620	3/8" x 1/4"	9.96
48S-66	10612	3/8" x 3/8"	10.75
48S-68	10613	3/8" x 1/2"	14.53
48S-88	10621	1/2" x 1/2"	15.52
48S-810	10611	1/2" x 5/8"	17.58
48S-1010	10614	5/8" x 5/8"	17.81
48S-1014	10622	5/8" x 7/8"	24.43
48S-1212	10615	3/4" x 3/4"	20.56
48S-1214	10616	3/4" x 7/8"	24.76
48S-1414	10617	7/8" x 7/8"	35.58
48S-1618	10618	1" x 1-1/8"	47.20
48S-1818	10619	1-1/8" x 1-1/8"	61.60

FL X SWT ELBOW



04089

MAF #	REF #	FLARE X SOLDER OD FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST
49S-44		1/4" x 1/4"						7.06
49S-66		3/8" x 3/8"						7.73
49S-88		1/2" x 1/2"						16.69

SPACE HEATER FITTINGS

9/16-24 FINE THREAD FLARE NUT

#M-82SH
04800
04840



41FT
800

MAF #	REF #	SIZE	LIST
41FT-6	14001	3/8	3.74
40FT-6	Cap	3/8	3.13

FEMALE ADAPTER

#M-80SH
04806



46FT
805

MAF #	REF #	SIZE	LIST
46FT-66	14018	3/8 x 3/8	7.00
46FT-68	14025	3/8 x 1/2	6.76
46FT-612		3/8 x 3/4	15.39



SPACE HEATER/ GAS RANGE FITTINGS

BRASS FITTINGS

MADE IN THE USA

SPACE HEATER UNION

04802



MAF #	REF #	SIZE	LIST
42FT-6	14011	3/8	9.31
44FT-6	TEE	3/8	16.72

SPACE HEATER MALE ADAPTER/ ELBOWS

#M-83SH



MAF #	REF #	SIZE	LIST
48FT-66	14016	3/8 x 3/8	6.86
48FT-68	14017	3/8 x 1/2	7.42
49FT-68	male elbow	3/8 x 1/2	8.48
50FT-68	female elbow	3/8 x 1/2	13.66

BRASS GAS RANGE FITTINGS

BRASS MALE ADAPTERS

15/16-16 FLARE THREAD



45RG
408RC
04748

MAF #	REF #	MALE FLARE X MALE NPTF	LIST
48WT-662	35130	3/8" x 3/8"(1/8 TAP)	...
48WT-664	35133	3/8" x 3/8"(1/4 TAP)	7.22
48WT-66-820	35131	3/8" x 1/2"(3/8 TAP)	12.46
48WT-686	35132	1/2" x 1/2" (3/8" FIP TAP)	...
48WT-886	35134	15/16" x 1/2"	7.67
48RGT-158	35135	15/16" x 1/2" (3/8" FIP TAP)	6.76
48RGT-1512		15/16" x 3/4" (1/2" FIP TAP)	10.94

CAP

04741



MAF #	REF #	SIZE	LIST
40RG-15	35186	15/16"	28.34
41SRG	nut	15/16-16"	22.39

BRASS FEMALE ADAPTERS



MAF #	REF #	SIZE	LIST
46RG-158	35136	15/16" x 1/2"	9.94
46RG-1512	35142	15/16" x 3/4"	12.00

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POL FITTINGS

BRASS FITTINGS

MADE IN THE USA

TEE CONNECTION

2000
05200



MAF #	REF #	PIPE SIZE	LIST
2000	34001	1/4" Inverted flare x 1/4" MPT	36.54
2001		2000 + 200IAB	65.20

41-1-390-0014 2000

TAILPIECE WITH FLATS

2001A
05220

1/4 NPT



MAF #	REF #	PIPE SIZE	LIST
2001A	34011	2.34 w/ wrench Flats	21.41
2001AHN	34012	2.13 w/ Hex	9.85

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex

2001B
05221



MAF #	REF #	PIPE SIZE	LIST
2001B	34016	.880-14 LH	4.85
2001BLH		Large hex	11.64

2001B

TAILPIECE & NUT ASSEMBLY

2002AB
05225



MANIFOLD
BLOCK TEE
ASSEMBLY

MAF #	REF #	PIPE SIZE	LIST
2001AB	34022	1/4	22.97
2001AHB			19.62
200IS			...

2002AB

POL CAP

2004
05204



MAF #	REF #	PIPE SIZE	LIST
2004	34031	.880-14LH	13.72

ME1699 POL2004 1004A M-2004

POL PLUG WITH CHAIN

2014
2014



MAF #	REF #	DESCRIPTION	LIST
2014	34141	POL PLUG WITH CHAIN	17.08

ME1691-1

SINGLE PIECE POL ADAPTER

2008
05208



MAF #	REF #	DESCRIPTION	LIST
2008	34130	MALE POL X 1/4 FPT	17.48
2009	34131	MALE POL X 1/2 FPT	

ME351 ME357

ADAPTERS

35792
35810
05205



MAF #	REF #	PIPE SIZE	LIST
2005	34041	3/8 Flare x .880-14LH	18.77
2006	34046	1/2 Flare x .880-14LH	18.65
2007	34051	5/8 Flare x .880-14LH	25.19

ME3510 2906E 2007

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MID-AMERICA FITTINGS

POL FITTINGS

BRASS FITTINGS

MADE IN THE USA

TAILPIECE ASSEMBLY W/HEX HEAD NUT & STEM



MAF #	REF #	LENGTH	LIST
2001ABHN	34080	1/4 NPT X POL 2 LONG HARD NOSE 2 OAL	17.58

2906D ME352



MAF #	REF #	LENGTH	LIST
2001AHBWN	34084	MPOL X 1/4 HOSE BARB 7/8 HEX	24.60

ME5930 970JR

SOFT NOSE TAILPIECE ASSEMBLY



MAF #	REF #	LENGTH	LIST
2001ABHNSN	34061	1/4 MPT X POL SOFT NOSE 2-1/2	19.49
2001ABHNLSN	34064	1/4 NPT X POL SOFT NOSE 2 3/8 LONG	33.70

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

JIC 37° FLARE FITTINGS

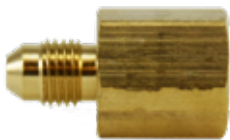
STRAIGHT TUBE UNION



MAF #	REF #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST
J42-4	28966	1/4	7/16-20	1.35	0.49	3250 psi	8.93
J42-6	28969	3/8	9/16-18	1.41	0.63	3250 psi	11.30
J42-8	28970	1/2	3/4-16	1.62	0.81	3250 psi	13.71
J42-12	28971	3/4	1-1/16-12	2.14	1.13	3250 psi	67.26
J42-16	28972	1"	1-5/16-12	2.25	1.38	2600 psi	40.98

SBC 132403 HTXB

FEMALE STRAIGHT ADAPTER



MAF #	REF #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST
J46-42	28957	1/4	1/8-27	7/16-20	1.19	0.56	3250 psi	8.58
J46-44	28958	1/4	1/4-18	7/16-20	1.40	0.75	3250 psi	10.87
J46-64	28959	3/8	1/4-18	9/16-18	1.40	0.75	3250 psi	24.52
J46-66	28960	3/8	3/8-18	9/16-18	1.40	0.88	3250 psi	17.87
J46-86	28961	1/2	3/8-18	3/4-16	1.56	0.88	3250 psi	9.53
J46-88	28962	1/2	1/2-14	3/4-16	1.79	1.13	3250 psi	26.95
J46-108	28963	5/8	1/2-14	7/8-14	1.87	1.13	3250 psi	19.86
J46-1212	28964	3/4	3/4-1/4	1-1/16-12	2.06	1.38	2600 psi	47.16
J46BH-42		1/4	1/8-27	7/16-20				43.25

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JIC 37° FLARE STRAIGHTS

BRASS FITTINGS

MADE IN THE USA

STRAIGHT



MAF #	REF #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST
J48-42	28701	1/4	1/8-27	7/16-20	1.22	0.45	3250 psi	3.33
J48-44	28702	1/4	1/4-18	7/16-20	1.37	0.56	3250 psi	6.75
J48-46	28703	1/4	3/8-18	7/16-20	1.42	0.75	3250 psi	16.96
J48-52	28704	5/16	1/8-27	1/2-20	1.41	0.56	3250 psi	49.29
J48-54	28705	5/16	1/4-18	1/2-20	1.42	0.56	3250 psi	23.28
J48-62	28706	3/8	1/8-27	9/16-18	1.24	0.63	3250 psi	7.77
J48-64	28707	3/8	1/4-18	9/16-18	1.43	0.63	3250 psi	6.96
J48-66	28708	3/8	3/8-18	9/16-18	1.38	0.75	3250 psi	5.58
J48-68	28709	3/8	1/2-14	9/16-18	1.69	0.88	3250 psi	11.02
J48-84	28710	1/2	1/4-18	3/4-16	1.53	0.81	3250 psi	13.62
J48-86	28711	1/2	3/8-18	3/4-16	1.53	0.81	3250 psi	11.27
J48-88	28712	1/2	1/2-14	3/4-16	1.79	0.88	3250 psi	15.41
J48-812	28713	1/2	3/4-14	3/4-16	1.85	1.13	2600 psi	31.82
J48-106	28714	5/8	3/8	7/8-14	1.84	0.94	3250 psi	24.76
J48-108	28715	5/8	1/2-14	7/8-14	1.89	0.94	3250 psi	21.54
J48-1012	28716	5/8	3/4-14	7/8-14	1.95	1.13	2600 psi	25.77
J48-128	28748	3/4	1/2-14	1 1/16-12	2.06	1.13	2925 psi	30.56
J48-1212	28717	3/4	3/4-14	1 1/16-12	2.06	1.13	2600 psi	24.17
J48-1216	28749	3/4	1-11 1/2	1 1/16-12	2.25	1.38	1950 psi	48.90
J48-1612	28719	1	3/4-14	1 5/16-12	2.06	1.13	2275 psi	43.27
J48-1616	28718	1	1-11 1/2	1 5/16-12	2.3	1.38	1950 psi	43.27

B2404 SB FTXB

STRAIGHT SWIVEL ADAPTER



MAF #	REF #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST
J664S-44	28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi	14.64
J664S-64	28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi	16.09
J664S-66	28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi	21.79
J664S-88	28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi	22.74

B6505 SJS

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MID-AMERICA FITTINGS

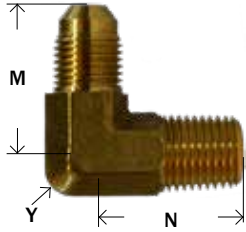


S/B JIC 37° SHAPES

BRASS FITTINGS

MADE IN THE USA

90° FORGED ELBOW

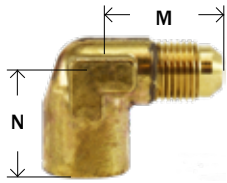


• Swivel available

MAF #	REF #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST
J49F-42	28760F	1/4	7/16-20	1/8-27	0.89	0.78	0.5	2160 psi	8.75
J49-44	28762F	1/4	7/16-20	1/4-18	1.05	1.03	0.53	1846 psi	7.85
J49-54	28766F	5/16	1/2-20	1/4-18	1.10	1.10	0.55	3905 psi	13.48
J49F-62	28768F	3/8	9/16-18	1/8-27	1.06	1.00	0.56	3128 psi	21.34
J49-64	28770F	3/8	9/16-18	1/4-18	1.06	1.09	0.54	1564 psi	7.95
J49F-66	28772F	3/8	9/16-18	3/8-18	1.15	1.22	0.74	1464 psi	14.57
J49F-68	28773F	3/8	9/16-18	1/2-14	1.22	1.47	0.90	1265 psi	24.64
J49F-86	28774F	1/2	3/4-16	3/8-18	1.25	1.22	0.81	1467 psi	21.25
J49F-88	28777F	1/2	3/4-16	1/2-14	1.31	1.47	0.90	1265 psi	18.15
J49F-812	28778F	1/2	3/4-16	3/4-14	1.4	1.59	0.89	2061 psi	45.57
J49F-108	28780F	5/8	7/8-14	1/2-14	1.45	1.47	0.88	1265 psi	30.03
J49F-128	28781F	3/4	1 1/16-12	1/2-14	1.66	1.56	1.08	1265 psi	61.22
J49F-1212	28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi	34.87
J49F-1612	28784F	1	1 5/16-12	3/4-14	1.88	1.77	1.32	1802 psi	56.67
J49F-1616	28786F	1	1 5/16-12	1-11 1/2	1.81	1.97	1.3	2361 psi	65.03

DL3B2 3F69CL GGL6A1 F23L2 EE48D3 EE46B2 FF45A2 F48C3 FF22C3 D49B1 D25B1 3F47C1

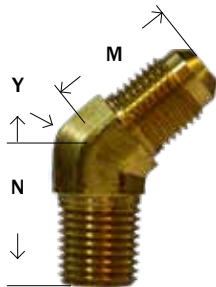
FEMALE ELBOW FORGED BODY



MAF #	REF #	TUBE OD	TUBE THREAD	A NPTF	M	N	WORKING PRESSURE	LIST
J50F-42	28973	1/4	7/16-20	1/8-27	1.08	0.66	2797 psi	15.29
J50F-44	28974	1/4	7/16-20	1/4-18	1.25	0.55	3066 psi	23.32
J50F-64	28975	3/8	9/16-18	1/4-18	1.23	0.88	2842 psi	22.22
J50F-88		1/2	3/4-16	1/2-14				26.00

B2502 EBF DTXB

45° FORGED ELBOW



• Swivel available

MAF #	REF #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST
J4945F-42	28722F	1/4	7/16-20	1/8-27	0.72	0.64	0.5	4367 psi	9.63
J4945F-44	28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi	12.89
J4945F-54	28728F	5/16	1/2-20	1/4-18	0.88	0.86	0.54		9.78
J4945F-62	28729F	3/8	9/16-18	1/8-27	0.83	0.65	0.63	3128 psi	30.53
J4945F-64	28731F	3/8	9/16-18	1/4-18	0.83	0.86	0.63	3128 psi	0.00
J4945F-66	28733F	3/8	9/16-18	3/8-18	0.91	0.95	0.81	3100 psi	0.00
J4945F-68	28734F	3/8	9/16-18	1/2-14	1.03	1.17	0.94	2826 psi	19.48
J4945F-86	28736F	1/2	3/4-16	3/8-18	0.98	0.95	0.75	2938 psi	13.52
J4945F-88	28738F	1/2	3/4-16	1/2-14	1.13	1.17	0.86	2826 psi	39.52
J4945F-108	28740F	5/8	7/8-14	1/2-14	1.13	1.08	0.88		19.92
J4945F-1212	28742F	3/4	1 1/16-12	3/4-14	1.28	1.2	1.13	2442 psi	68.83

B2503 FBC-F VTXB

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