

INVERTED FLARE FITTINGS



Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread O.D. threads per inch	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1-1/16-16	1-3/16-16	1-5/16-16

•Typical Application

Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas.

•Working Pressure Ranges

Temperature and type of tubing used are important factors. However, the following table is a

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

good guide for proper selection. Temperature 73°F with copper tubing:

•Vibration

Excellent resistance.

•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.

•Advantages

Very low cost and reusable. Seats and threads are internal and protected. Compact, excellent vibration life. Short nut affords very close tube bends. Steel or brass

tube nut.

•Tolerance

+/- .03 on all dimensions.

•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 the 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.
 - c- On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.
- 4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.

STANDARD METRIC THREADS

Description Tube Size	Thread O.D.	Crest (Pitch)	Thread Description
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8"	16mm	1.5mm	M16 x 1.5

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

Actual O.D. of male inverted flare threads

5/16"-28 2800 PSI	3/8"-24 1900 PSI	7/16"-24 1400 PSI	1/2"-20 1200 PSI	5/8"-18 1000 PSI
----------------------	---------------------	----------------------	---------------------	---------------------

3/4"-18
750 PSI

7/8"-18
650 PSI

1-1/16"-16
550 PSI

1/8"

3/16"

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

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

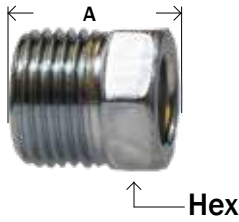
INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

ZINC CHROMATE STEEL NUT

SAE# 040110

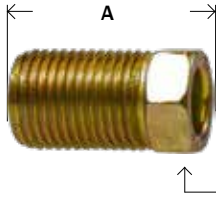


41IFS
41INS
04340

MAF #	REF #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST
41IFS-2	12001	1/8"	5/16-28	0.52	0.31	0.01	3.01
41IFS-3	12002	3/16"	3/8-24	0.56	0.37	0.02	0.42
MA105X3X4	12018	3/16"	7/16-24	0.56	0.43	0.02	2.18
41IFS-4	12003	1/4"	7/16-24	0.56	0.43	0.02	0.49
41IFS-5	12004	5/16"	1/2-20	0.62	0.50	0.02	0.57
41IFS-6	12005	3/8"	5/8-18	0.66	0.62	0.03	0.95
41IFS-7	12000	7/16"	11/16-18	0.68	0.68	0.04	5.76
MA105X6X7	12011	3/8"	11/16-18	0.66	0.68	0.05	6.85
41IFS-8	12006	1/2"	3/4-18	0.74	0.75	0.08	3.23
41IFS-10	12007	5/8"	7/8-18	0.80	0.87	0.10	3.60
41IFS-12	12008	3/4"	1-1/16-16	0.88	1.06	0.10	6.38
41IFS-14	12083	7/8"	1-3/16-16	1.07	1.19	0.14	26.20
41IFS-16	12084	1"	1-5/16-16	1.18	1.375	0.21	27.65

121XXX 2105 41IFS 105 41W

LONG STEEL NUT



411NL
04330

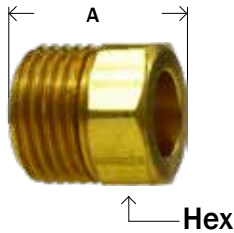
FOR DOMESTIC LINES

MAF #	REF #	SIZE	A	HEX	APPROX. WT. LBS.	LIST
41IFS-3L	12009	3/16"	0.84	0.37	0.02	1.68
41IFS-4L	12010	1/4"	0.81	0.43	0.02	1.90

7896

INVERTED FLARE BRASS NUT

SAE# 040110



411FB
411NB
04341

MAF #	REF #	SIZE	A	HEX	APPROX. WT. LBS.	LIST
411FB-2	12012	1/8"	0.52	0.31	0.01	3.10
411FB-3	12013	3/16"	0.56	0.37	0.01	1.99
411FB-4	12014	1/4"	0.56	0.43	0.02	1.25
411FB-5	12015	5/16"	0.62	0.50	0.03	1.40
411FB-6	12016	3/8"	0.66	0.62	0.04	2.75
411FB-8	12017	1/2"	0.74	0.75	0.05	4.85
411FB-10		5/8"				8.24
411FB-12		3/4"				18.76
411FB-16		1"				29.20

2100 41IF 100 41IB

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

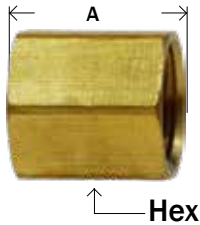
INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

UNION INTERNAL

SAE# 040101



421F
421N
04342

MAF #	REF #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.	LIST
2302X2	12022	1/8"	0.59	0.40	0.02	4.94
42IF-2		1/8"				4.94
2302X3	12023	3/16"	0.62	0.43	0.02	2.58
42IF-3		3/16"				2.58
2302X4	12024	1/4"	0.62	0.50	0.03	3.12
42IF-4		1/4"				2.75
2302X5	12025	5/16"	0.70	0.56	0.04	4.42
42IF-5		5/16"				4.42
2302X6	12026	3/8"	0.80	0.75	0.08	4.87
42IF-6		3/8"				4.87
2302X8	12027	1/2"	0.91	0.90	0.10	8.73
42IF-8		1/2"				8.73
2302X10	12028	5/8"	1.31	1.06	0.22	19.00
42IFR-32		3/16" X 1/8"				9.05
42IFR-43		1/4" X 3/16"				8.32
42IFR-53		5/16" X 3/16"				9.22
42IFR-54		5/16" X 1/4"				9.49
42IFR-64		3/8" X 1/4"				10.39
42IFR-65		3/8" X 5/16"				10.39

302 2300 42IFHD

FEMALE ADAPTER

SAE# 040103



461N
461N
04346

MAF #	REF #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
461F-22	12029	1/8" x 1/8"	0.716	0.50	0.03	10.51
461F-32	12032	3/16" x 1/8"	0.75	0.50	0.02	3.73
461F-42	12033	1/4" x 1/8"	0.75	0.53	0.02	3.64
461F-44	12030	1/4" x 1/4"	1.01	0.751	0.11	7.00
461F-52	12034	5/16" x 1/8"	0.78	0.59	0.04	8.41
461F-64	12035	3/8" x 1/4"	1.03	0.75	0.08	9.70
461F-66		3/8" x 3/8"				18.93
461F-74	12031	7/16" x 1/4"	1.06	0.81	0.11	21.75
461F-84	12037	1/2" x 1/4"	1.09	0.90	0.12	14.88
461F-86	12036	1/2" x 3/8"	1.10	0.90	0.12	13.91
461F-108	12039	5/8" x 1/2"	1.32	1.065	0.19	22.94
461F-1212	12099	3/4" x 3/4"	1.50	1.25	0.36	37.13

461FHD 252 46W

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

INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

MID-AMERICA FITTINGS

MALE ADAPTER

SAE# 040102



481N
481F
04348

MAF #	REF #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST
48IF-22	12041	1/8" x 1/8"	0.63	0.40	0.02	4.56
48IF-32	12042	3/16" x 1/8"	0.70	0.43	0.02	2.30
48IF-34	12053	3/16" x 1/4"	0.72	0.56	0.04	5.52
2202X4	12043	1/4" x 1/8"	0.74	0.50	0.03	2.87
48IF-42		1/4" x 1/8"				2.31
2234X4	12044	1/4" x 1/4"	0.89	0.56	0.04	3.19
48IF-44		1/4" x 1/4"				2.46
48IF-46		1/4" x 3/8"				4.94
2200X5	12045	5/16" x 1/8"	0.79	0.56	0.03	2.98
2202X5		5/16" x 1/8"				4.71
48IF-52		5/16" x 1/8"				3.03
48IF-54	12046	5/16" x 1/4"	0.98	0.56	0.05	3.19
48IF-56	12055	5/16" x 3/8"	1.01	0.75	0.07	6.47
48IF-62	12047	3/8" x 1/8"	0.88	0.72	0.05	4.09
2202X6	12048	3/8" x 1/4"	1.02	0.75	0.06	3.95
48IF-64		3/8" x 1/4"				3.95
2236X6	12049	3/8" x 3/8"	1.02	0.75	0.08	4.92
48IF-66		3/8" x 3/8"				5.13
48IF-74	12104	7/16" x 1/4"	1.05	0.81	0.06	13.60
48IF-84	12038	1/2" x 1/4"	0.97	0.87	0.10	9.25
2202X8	12050	1/2" x 3/8"	1.06	0.87	0.08	7.00
48IF-86		1/2" x 3/8"				7.00
2202X8X8		1/2" x 1/2"				11.00
48IF-88	12051	1/2" x 1/2"	1.06	0.87	0.11	9.90
48IF-108	12052	5/8" x 1/2"	1.32	1.06	0.15	5.85
48IF-1012		5/8" x 3/4"				24.76
48IF-128	12105	3/4" x 1/2"	1.38	1.25	0.18	22.72
48IF-1212	12040	3/4" x 3/4"	1.39	1.25	0.24	29.00
48IF-1412	12107	7/8" x 3/4"	1.375	1.375	0.21	37.62
48IF-1612	12108	1" x 3/4"	1.62	1.50	0.37	53.50
48IF-1616		1" x 1"				52.37

2200 48IFHD 202 48W 200

MALE INVERTED FLARE UNIONS



MAF #	REF #	SIZE	A	HEX	APPROX. WT. LBS.	LIST
22IFS-43		1/4" x 3/16"				9.58
22IFS-53		5/16" x 3/16"				9.76
22IFS-54		5/16" x 1/4"				9.76
22IFS-64		3/8" x 1/4"				10.11
22IFS-65		3/8" x 5/16"				10.11

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

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

INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

ELBOW

SAE# 040202



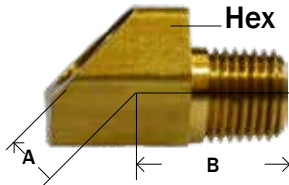
491N
491F
04349

MAF #	REF #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.	LIST
491F-22	12057	1/8" x 1/8"	0.26	0.59	0.03	11.29
491F-32	12058	3/16" x 1/8"	0.26	0.61	0.03	3.15
2402X4	12059	1/4" x 1/8"	0.33	0.65	0.04	3.55
491F-42		1/4" x 1/8"				2.85
491FRH-42	12054*	1/4" x 1/8"	0.33	0.65	0.04	31.96
491F-44	12060	1/4" x 1/4"	0.28	0.82	0.06	4.18
491F-52	12061	5/16" x 1/8"	0.47	0.68	0.05	3.57
491F-54	12062	5/16" x 1/4"	0.45	0.85	0.08	8.45
491F-56	12082	5/16" x 3/8"	0.47	0.86	0.12	20.26
491F-62	12063	3/8" x 1/8"	0.54	0.76	0.14	8.62
2402X6	12064	3/8" x 1/4"	0.53	0.92	0.14	8.62
491F-64		3/8" x 1/4"				7.65
491F-66	12065	3/8" x 3/8"	0.50	0.94	0.12	13.43
491F-84	12114	1/2" x 1/4"	0.72	1.08	0.14	17.78
491F-86	12066	1/2" x 3/8"	0.59	1.03	0.16	13.78
491F-88	12067	1/2" x 1/2"	0.66	1.22	0.25	15.50
491F-106	12056	5/8" x 3/8"	0.67	1.09	0.20	34.76
491F-108	12068	5/8" x 1/2"	0.67	1.29	0.18	16.45
491F-128	12069	3/4" x 1/2"	0.80	1.39	0.42	61.29
491F-1212		3/4" x 3/4"				59.84
491F-1412	12080	7/8" x 3/4"	0.94	1.43	0.48	96.79
491F-1616	12081	1" x 1"	1.02	1.69	0.60	113.55

400 2400 2491FHD 402 2491F 49W

45° ELBOW

SAE# 040302



591F
941N
04394

MAF #	REF #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST
591F-22	12070	1/8" x 1/8"	0.22	0.48	0.50	0.03	13.83
591F-32	12072	3/16" x 1/8"	0.25	0.55	0.53	0.02	18.55
591F-42	12073	1/4" x 1/8"	0.27	0.58	0.56	0.04	5.35
591F-52	12074	5/16" x 1/8"	0.36	0.56	0.62	0.06	9.22
591F-54	12075	5/16" x 1/4"	0.23	0.83	0.62	0.06	30.79
591F-62	12115	3/8" x 1/8"	0.34	0.87	0.87	0.09	18.38
591F-64	12076	3/8" x 1/4"	0.51	0.84	0.78	0.09	14.19
591F-86	12077	1/2" x 3/8"	0.38	0.91	0.84	0.11	14.02
591F-108	12079	5/8" x 1/2"	0.44	1.00	1.06	0.21	60.95

154 2352 2591FHD 352 94W



INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

UNION TEE

SAE# 040401



441F
441N
04344

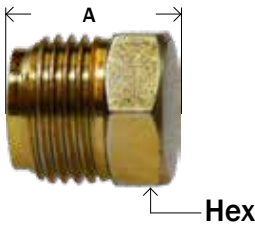
MAF #	REF #	SIZE	A	B	APPROX. WT. LBS.	LIST
441F-2	12085	1/8"	0.33	0.47	0.04	17.26
441F-3	12086	3/16"	0.39	0.55	0.04	5.99
441F-4	12087	1/4"	0.42	0.56	0.08	10.98
441F-5	12088	5/16"	0.45	0.63	0.09	11.74
441F-6	12089	3/8"	0.56	0.74	0.17	18.27
441F-8	12090	1/2"	0.67	0.88	0.24	33.47
441F-14		7/8"				73.14

2441FHD 702 441

STEEL PLUG

SAE# 040109

• cored



391N
391F
04399

Hex

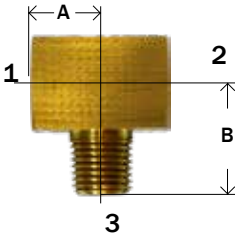


MAF #	REF #	SIZE	A	HEX	APPROX. WT. LBS.	LIST
391F-3	12091	3/16"	0.53	0.37	0.01	0.84
391F-4	12092	1/4"	0.54	0.43	0.02	1.11
391F-5	12093	5/16"	0.59	0.50	0.03	1.27
391F-6	12094	3/8"	0.66	0.62	0.04	3.24
Brass						
391FB-6	12095	3/8"	0.66	0.63	0.04	4.54
391FB-8	12096	1/2"	0.82	0.75	0.07	8.41
391FB-10	12097	5/8"	0.90	0.87	0.10	14.85
391FB-12	12098	3/4"	0.95	1.07	0.17	26.45

106 41IP 131 2131

MALE BRANCH TEE

SAE# 040425



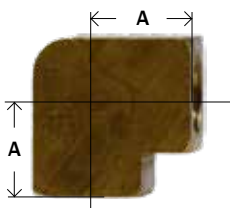
451F
451N
04345

MAF #	REF #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST
451F-32	12100	3/16" x 1/8"	0.41	0.60	0.04	8.28
451F-42	12101	1/4" x 1/8"	0.42	0.64	0.06	7.35
451F-52	12102	5/16" x 1/8"	0.47	0.68	0.07	12.10
451F-64	12103	3/8" x 1/4"	0.58	0.93	0.15	36.45

145 2451FHD 602 2600 600

FEMALE ELBOW

SAE# 040203



501F
501N
04350

MAF #	REF #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.	LIST
501F-32		3/16" x 1/8"			13.94
501F-42	12110	1/4" x 1/8"	0.55	0.07	20.50
501F-52	12111	5/16" x 1/8"	0.51	0.08	25.11
501F-64	12112	3/8" x 1/4"	0.68	0.10	12.93
501F-86		1/2" x 3/8"			30.91

450

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

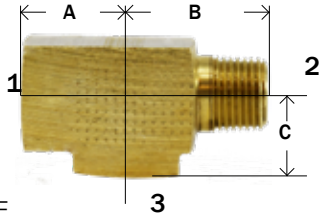
INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

MALE RUN TEE

SAE# 040424



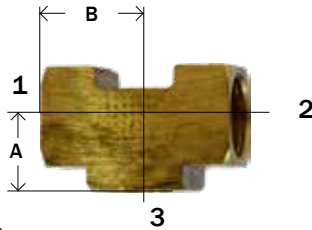
511F
511N
04351

MAF #	REF #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.	LIST
511F-32	12118	3/16" x 1/8"	0.53	0.72	0.39	0.06	42.26
511F-42	12119	1/4" x 1/8"	0.56	0.75	0.42	0.08	42.01
511F-52	12120	5/16" x 1/8"	0.62	0.85	0.45	0.10	20.92
511F-64	12121	3/8" x 1/4"	0.75	1.08	0.56	0.14	32.27
511F-86		1/2" x 3/8"					47.20

2511FHD 752 550 151

FEMALE BRANCH TEE

SAE# 040427



521F
521N
04352

MAF #	REF #	INV. FLARE X FEMALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST
521F-32	12127	3/16" x 1/8"	0.39	0.55	0.06	21.58
521F-42		1/4" x 1/8"				23.87
521F-52	12129	5/16" x 1/8"	0.45	0.63	0.12	36.96
521F-64	12130	3/8" x 1/4"	0.56	0.74	0.17	32.27
521F-86		1/2" x 3/8"				47.20
521F-88		1/2" x 1/2"				49.40

2521FHD 652 136

FIPXMIPXINV FL TEE

MAF #	REF #	FIP X MIP X INV FL. SIZE	APPROX. WT. LBS.	LIST
531F-32		1/8" x 1/8" x 3/16"		15.76
531F-42		1/8" x 1/8" x 1/4"		32.35

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

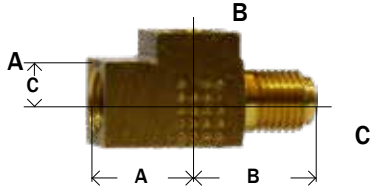


INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

TOWED TRAILER BRAKE TEE

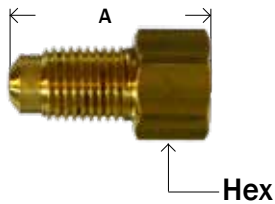


127BT

MAF #	REF #	A	B	C	REF #	APPROX. WT. LBS.	LIST
MA7900	12147	3/16" 0.57	3/16" 0.76	3/16" 0.42	7900	0.08	12.27
MA7906	12145	3/16" (1/2-20) 0.68	3/16" (3/8-24) 0.94	3/16" (1/2-20) 0.47	7906	0.17	41.03
MA7933	12148	3/16" (9/16-18)	3/16" (3/8-24)	3/16" (9/16/18)	7933	0.10	32.64
MA7905	12144	3/16" (9/16-20) 0.82	3/16" (3/8-24) 0.94	3/16" (9/16-20) 0.47	7905	0.18	59.66
MA7914	12146	3/16" (7/16-24) 0.54	3/16" (3/8-24) 0.78	1/4" (7/16-24) 0.42	7914	0.08	...
MA7901	12150	1/4" 0.56	3/16" 0.77	1/4" 0.43	7901	0.10	33.23
MA7904	12149	1/4" (9/16-18) 0.81	3/16" (3/8-24) 0.93	1/4" (9/16-18) 0.50	7904	0.10	52.82
MA7898	12151	1/4" 0.56	1/4" 0.77	1/4" 0.43	7898	0.12	...

INVERTED FLARE AUTO FITTINGS

DUAL MASTER CYLINDER ADAPTER



MAF #	REF #	MALE FLARE X FEMALE INV.	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA1441	12200	3/16" x 3/16"	1.00	0.50	1441	0.03	4.35
MA7897	12202	5/16" x 3/16"	0.96	0.68	7897	0.07	10.38

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

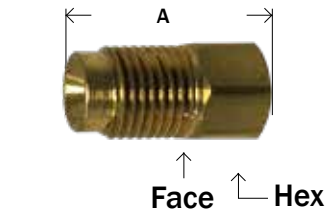


INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

DUAL MASTER CYLINDER ADAPTER



* Seals on hex face

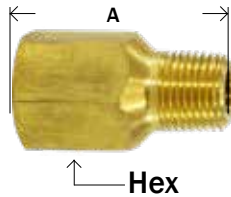


48STA
6641N
6011N

MAF #	REF #	MALE INVERTED THREAD	FEMALE INVERTED THREAD	REF#	LIST
MA7911	12206	3/16(9/16-18)	3/16	7911	8.07
MA7913	12209	3/16(9/16-18)	3/16(1/2-20)	7913	7.47
MA7910	12207	3/16(9/16-20)	3/16	7910	6.48
MA7828	12210	3/16	1/4	7828	4.64
MA7818	12212	1/4	3/16	7818	4.74
MA7732	12214*	7/16-20	1/4	7732	9.02
MA7908	12211	1/4(9/16-18)	1/4	7908	7.67
MA7917	12215	1/4	5/16	7917	17.99
MA7817	12213*	5/16	3/16	7817	19.85
MA7909	12216	5/16	3/16	7909	5.62
MA7912	12208	5/16	3/16(9/16-18)	7912	7.39
MA7727	12218*	5/16	1/4	7727	8.04
MA7829	12220	5/16	1/4	7829	6.22
MA1074	12222*	5/16	5/16	1074	...
MA7915	12221	5/16	3/8	7915	7.14
MA7771	12224	3/8" NPTF	5/16	7771	18.40
MA7916	12217	3/8	5/16	7916	13.59

47W

CARBURETOR TO FUEL LINE ADAPTER - FORD

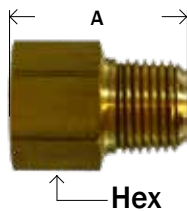


MAF #	REF #	FEMALE TUBE OD X MALE NPTF	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA1513	12230	1/4"(1/2-20) x 1/8"	1.06	0.56	1513	0.04	20.30

1513

RESTRICTION PIPE ADAPTER

(.0625 ORIFICE)



MAF #	REF #	SIZE FIP X MIP	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA1512	12310	1/8"	0.75	0.50	1512	0.02	8.53

1510

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

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

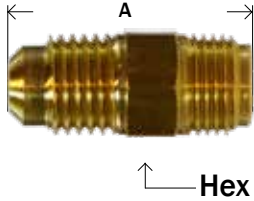
MID-AMERICA FITTINGS

INVERTED FLARE

BRASS FITTINGS

MADE IN THE USA

SAE FLARE X INVERTED FLARE

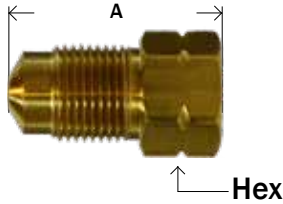


MAF #	REF #	SAE FLARE X INV. FLARE	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA1518	12250	1/4" x 3/16"	1.03	0.43	1518	0.02	----
MA1522	12252	1/4" x 1/4"	1.03	0.43	1522	0.03	----
MA1553	12254	3/8" x 5/16"	1.34	0.63	1553	0.08	----
MA1563	12256	3/8" x 3/8"	1.37	0.63	1563	0.09	----
MA1554	12257	3/8" x 7/16"	1.40	0.68	1554	0.10	----

4205

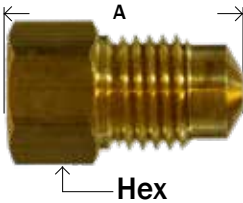
METRIC HYDRAULIC BRAKE FITTINGS

METRIC ADAPTER



MAF #	REF #	BUBBLE MALE THREAD	TUBE O.D./ FEMALE THREAD	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA1442	12335	M10x1.0	3/16"(3/8-24)	1.02	0.50	1442	0.02	5.44
MA7935	12326	M11x1.5	3/16"(M10x1.0)	1.06	0.50	7935	0.02	20.02
MA7936	12327	M12x1.0	3/16"(M10x1.0)	1.02	0.53	7936	0.04	19.32
MA7937	12328	M16x1.5	3/16"(M10x1.0)	1.02	0.56	7937	0.06	20.48

ADAPTER STANDARD TO METRIC BUBBLE



MAF #	REF #	FEMALE INV. FLARE SEAT	MALE METRIC BUBBLE FLARE	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA7973	12336	3/16" (3/8-24)	11x1.5			7973		11.97
MA7970	12337	3/16" (3/8-24)	(3/16") (10x1.25)	1.00	0.50	7970	0.02	22.47
MA7972	12339	3/16" (3/8-24)	13x1.5	1.03	0.56	7972	0.04	24.63
MA7974	12341	3/16" (3/8-24)	12x1.0	1.02	0.53	7974	0.04	20.24

FEMALE X MALE ADAPTERS



MAF #	REF #	FEMALE STANDARD FLARE SEAT	MALE BUBBLE FLARE	MATERIAL	LIST
MA1330	12330	3/8-24 (3/16)	7/16-20	Steel	6.60

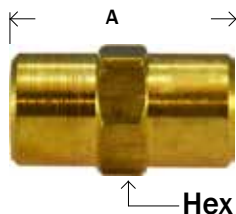


MAF #	REF #	TUBE OD/ FEMALE THREAD	INVERTED MALE THREAD	REF #	LIST
MA1443	12205	3/16 (3/8-24)	M10 x 1.0	1443	4.99



MAF #	REF #	FEMALE STANDARD FLARE	INVERTED MALE THREAD	MATERIAL	LIST
MA1329	12329	3/8-24 (3/16)	M9 x 1.0	Steel	9.80

METRIC UNION



MAF #	REF #	SIZE	A	HEX	REF #	APPROX. WT. LBS.	LIST
MA1594	12342	British Brake Lines 3/16 (3/8-24 Bubble)	0.87	0.50	1594	0.03	7.82
MA7975	12343	European Brake Lines 3/16"(10.0MM)	1.04	0.56	7975	0.04	19.00
MA7934A	12344	Japanese Brake Lines 3/16 (M10 x 1.0) Inverted	1.00	0.50	7934A	0.04	7.82
MA2345	12345	GM Brake Lines 6mm M12 x 1.0 Bubble	1.11	0.63		0.06	7.68

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