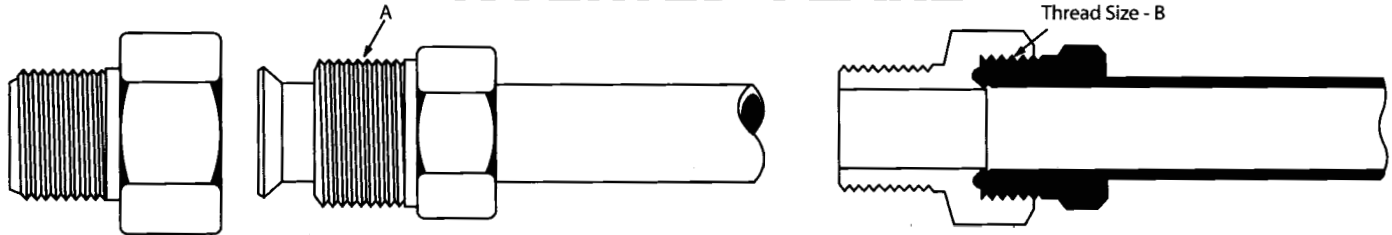


Brass

INVERTED FLARE



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

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 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

•Vibration

Excellent resistance.

•Temperature Range

-650F to +2500F (-530C to +1210C) range at maximum operating pressures.

•Material

CA360 Brass.

Actual O.D. of male inverted flare threads

•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.

•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.
 - 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.
- 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.

Actual O.D. of Male Inverted Flare Fittings

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"



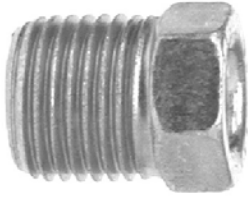
Brass Fittings

Inverted Flare

Inverted Flare

LONG STEEL NUT

SAE #
040110



210S
411FS
105
41W

Part #	Size
12-009	3/16
12-010	1/4

BRASS NUT

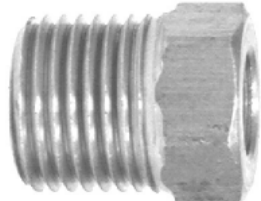


7896

Part #	Size
818IF-02B	1/8
818IF-03B	3/16
818IF-04B	1/4
818IF-05B	5/16
818IF-06B	3/8
818IF-08B	1/2

SPECIAL FORD NUT

SAE #
040110



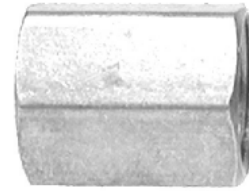
2100
411F
100
411B

Part #	Size
12-020	1/4

“Character is what you do on the third and fourth tries.”
- James A. Michener

UNION INTERNAL

SAE #
040101



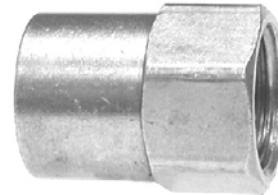
2300
42IFHD

INVERTED FLARE X INVERTED FLARE

Part #	Size
910IF-02-02B	1/8
910IF-03-03B	3/16
910IF-04-04B	1/4
910IF-05-05B	5/16
910IF-06-06B	3/8
910IF-08-08B	1/2
910IF-10-10B	5/8

FEMALE ADAPTER

SAE #
040103



461FHD
252
46W

INVERTED FLARE X FEMALE PIPE

Part #	Size
12-032	3/16x1/8
12-033	1/4x1/8
12-034	5/16x1/8
12-035	3/8x1/4
12-036	1/2x3/8
12-030	5/8x1/2
12-031	3/4x3/4

“Maybe, just once, someone will call me ‘sir’ without adding, ‘you’re making a scene’.
- Homer Simpson

Brass



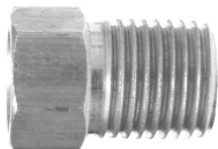
Brass Fittings

Inverted Flare

Inverted Flare

MALE ADAPTER

SAE #
040102



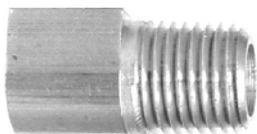
2200
48IFHD
202
48W

INVERTED FLARE X NPTF

Part #	Size
909IF-02-02B	1/8x1/8
909IF-03-02B	3/16x1/8
909IF-04-02B	1/4x1/8
909IF-04-04B	1/4x1/4
909IF-05-02B	5/16x1/8
909IF-05-04B	5/16x1/4
909IF-06-02B	3/8x1/8
909IF-06-04B	3/8x1/4
909IF-06-06B	3/8x3/8
909IF-08-04B	1/2x1/4
909IF-08-06B	1/2x3/8
909IF-08-08B	1/2x1/2
909IF-10-08B	5/8x1/2
909IF-12-08B	3/4x1/2
909IF-12-12B	3/4x3/4
909IF-16-16B	1x1

ELBOW

SAE #
040202



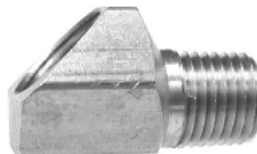
400
2400
249IFHD
402
249IF
49W

INVERTED FLARE X NPTF

Part #	Size
914IF-02-02B	1/8x1/8
914IF-03-02B	3/16x1/8
914IF-04-02B	1/4x1/8
914IF-04-04B	1/4x1/4
914IF-05-02B	5/16x1/8
914IF-05-04B	5/16x1/4
914IF-06-02B	3/8x1/8
914IF-06-04B	3/8x1/4
914IF-06-06B	3/8x3/8
914IF-08-06B	1/2x3/8
914IF-08-08B	1/2x1/2
914IF-10-06B	5/8x3/8
914IF-10-08B	5/8x1/2
914IF-12-08B	3/4x1/2
914IF-14-12B	7/8x3/4
914IF-16-16B	1x1

45° ELBOW

SAE #
040302



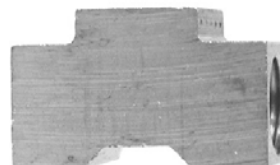
154
2352
259IFHD
532
94W

INVERTED FLARE X MALE PIPE

Part #	Size
915IF-02-02B	1/8x1/8
915IF-03-02B	3/16x1/8
915IF-04-02B	1/4x1/8
915IF-05-02B	5/16x1/8
915IF-05-04B	5/16x1/4
915IF-06-02B	3/8x1/8
915IF-06-04B	3/8x1/4
915IF-08-06B	1/2x3/8
915IF-10-08B	5/8x1/2

UNION TEE

SAE #
040401

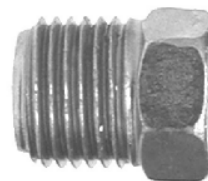


244IFHD
702
441

Part #	Size
917IF-02B	1/8
917IF-03B	3/16
917IF-04B	1/4
917IF-05B	5/16
917IF-06B	3/8
917IF-08B	1/2

STEEL PLUG

SAE #
040109



•CORED
106
411P
131
2131

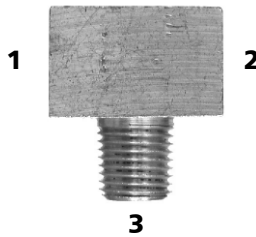
Part #	Size
932IF-03B	3/16
932IF-04B	1/4
932IF-05B	5/16
932IF-06B	3/8

*Send DF Burnham & Company
all your high volume quotes!*



MALE BRANCH TEE

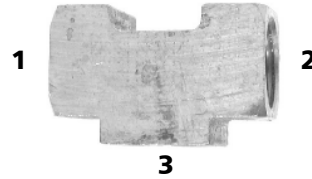
SAE #
040427



145
245IFHD
602
2600
600

FEMALE BRANCH TEE

SAE #
040427



252IFHD
652
136

**IN FL X IN FL X MALE PIPE
(1 & 2) X 3**

Part #	Size
922IF-03-02B	3/16x1/8
922IF-04-02B	1/4x1/8
922IF-05-02B	5/16x1/8
922IF-06-04B	3/8x1/4

**INVERTED FLARE X INVERTED FLARE X
FEMALE PIPE
(1 & 2) X 3**

Part #	Size
917IF-03-02B	3/16x1/8
917IF-04-02B	1/4x1/8
917IF-05-02B	5/16x1/8
917IF-06-04B	3/8x1/4
917IF-08-06B	1/2x3/8

FEMALE ELBOW

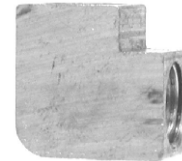
SAE #
040203



450

90° UNION ELBOW

SAE #
040201



255IFHD
652
136

INVERTED FLARE X FEMALE PIPE

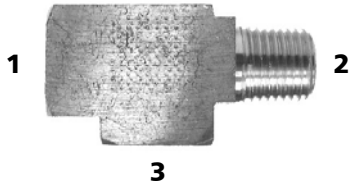
Part #	Size
916IF-03-02B	3/16x1/8
916IF-04-02B	1/4x1/8
916IF-05-02B	5/16x1/8
916IF-06-04B	3/8x1/4
916IF-08-06B	1/2x3/8

INVERTED FLARE X INVERTED FLARE

Part #	Size
916IF-04-04B	1/4
916IF-05-05B	5/16
916IF-06-06B	3/8

MALE RUN TEE

SAE #
040424



251IFHD
752
550
151

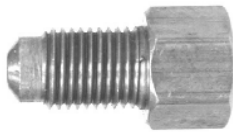
**IN FL X MIP X IN FL
(1 & 3) X 2**

Part #	Size
921IF-03-02B	3/16x1/8
921IF-04-02B	1/4x1/8
921IF-05-02B	5/16x1/8
921IF-06-03	3/8x1/4
921IF-08-06B	1/2x3/8

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all your high volume quotes!*

INVERTED FLARE AUTO FITTINGS

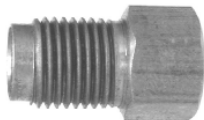
DUAL MASTER CYLINDER ADAPTER



**MALE FLARE X FEMALE
(INVERTED FLARE THREADS)**

Part #	Male	Female
12-200	3/16	3/16
12-202	5/16	3/16

DUAL MASTER CYLINDER ADAPTER



47W

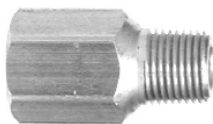
**MALE INVERTED FLARE X
FEMALE INVERTED FLARE
(INVERTED FLARE THREADS)***

Part #	Male	Female
12-210	3/16	1/4
12-212	1/4	3/16
12-214*	7/16-20	1/4
12-216	5/16	3/16
12-218*	5/16	1/8
12-220	5/16	1/4
12-222*	5/16	5/16
12-224	3/8 MPT	5/16

*Seals on hex face

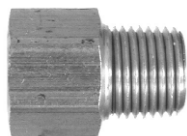
CARBURETOR TO FUEL LINE ADAPTER - FORD

1513



Part #	Size	Size
12-230	1/4(1/2-20 ..	1/8 MPT

RESTRICTION PIPE ADAPTER



1510

(.625 ORIFICE)

Part #	Size
12-310	1/8

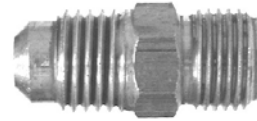
CARBURETOR TO FUEL LINE ADAPTER - PLYMOUTH

1514

Part #	Size
12-236	1/2-20x1/8 MPT

SAE FLARE X INVERTED FLARE

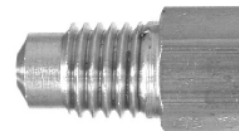
4205



Part #	Size	Size
12-250	1/4	3/16
12-252	1/4	1/4
12-254	3/8	5/16
12-256	3/8	3/8
12-257	3/8	7/16

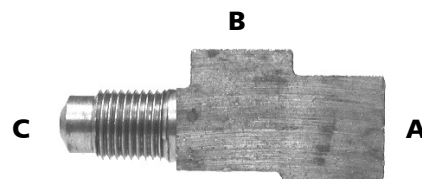
INVERTED FLARE AUTO FITTINGS

METRIC ADAPTER



Part #	Size	Size
12-335	M10x1.0	3/16"(3/8-24)
12-326	M11x1.5	3/16"(M10x1.0)
12-327	M12x1.0	3/16"(M10x1.0)
12-328	M13x1.5	3/16"(M10x1.0)

METRIC TOWED TRAILER BRAKE TEE

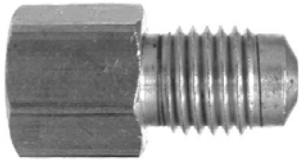


Part #	A	B	C
12-330	3/16	3/16	3/16
	(M10x1.0)	(3/8-24)	(M10x1.0)
12-331	3/16	3/16	3/16
	(M10x1.0)ISO	(3/8-24)	(M10x1.0)ISO
12-332	3/16	3/16	3/16
	(M11x1.5)	(3/8-24)	(M11x1.5)
12-333	3/16	3/16	3/16
	(M12x1.0)	(3/8-24)	(M12x1.0)
12-334*	3/16	1/4	3/16
	(M13x1.5)	(3/8-24)	(M13x1.5)

*Bubble flare type

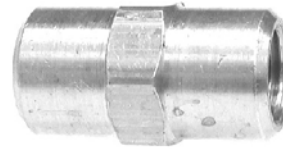


ADAPTER STANDARD TO METRIC BUBBLE



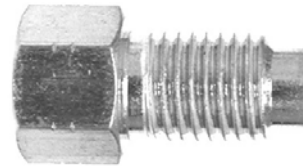
Part #	Size	Size
12-337	3/16 (3/8-24)	4.762 (3/16) (10x1.25)
12-338	3/16 (3/8-24)	1/4 (3/16x20)
12-339	3/16 (3/8-24)	13x1.5
12-340	3/16 (3/8-24)	11x1.5
12-341	3/16 (3/8-24)	12x1.0

METRIC UNION



Part #	Size
12-343	3/16 10.0MM

ADAPTER STANDARD TO METRIC STANDARD



Part #	Size
12-343	3/16 4.762 (3/16) (3/8-24) (10x1.25)

Brass

