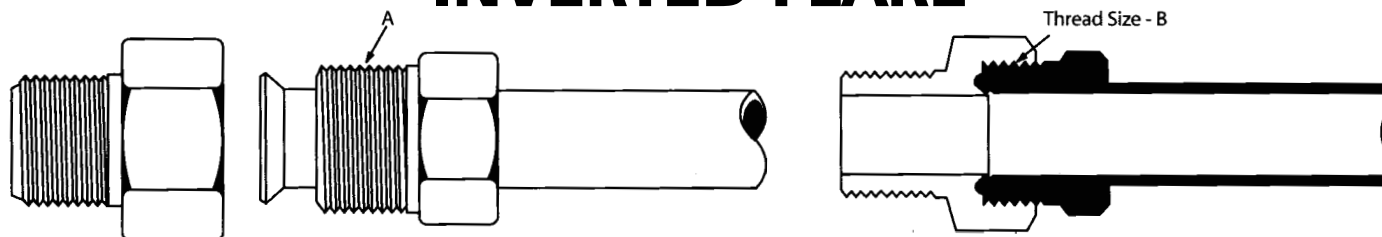


INVERTED FLARE



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.

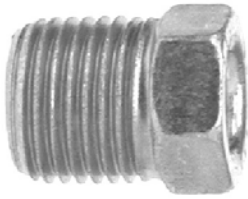
Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.

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
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1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
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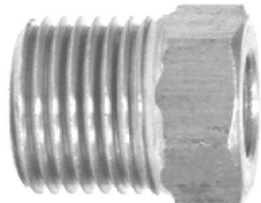
LONG STEEL NUTSAE #
040110210S
411FS
105
41W

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

BRASS NUT

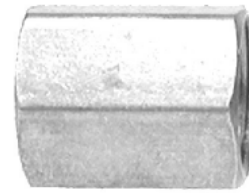
7896

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

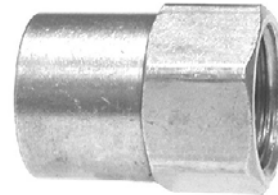
SPECIAL FORD NUTSAE #
0401102100
411F
100
411B

Part #	Size
12-020	1/4

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

UNION INTERNALSAE #
0401012300
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 ADAPTERSAE #
040103461FHD
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

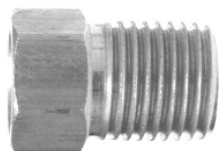


Inverted Flare

Brass Fittings

Inverted Flare

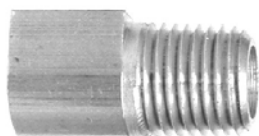
MALE ADAPTER

SAE #
0401022200
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

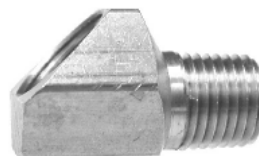
ELBOW

SAE #
040202400
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 #
040302154
2352
259IFHD
532
94W

INVERTED FLARE X MALE PIPE

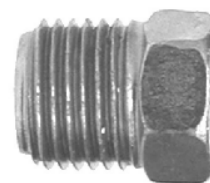
Part #	Size
915IF-02-02B	1/8x1/8
915IF-03-02B	3/16x1/8
915IF-04-02B	1/4x1/8
915IF-05-02B	5/16x1/8
915IF-05-04B	5/16x1/4
915IF-06-02B	3/8x1/8
915IF-06-04B	3/8x1/4
915IF-08-06B	1/2x3/8
915IF-10-08B	5/8x1/2

UNION TEE

SAE #
040401244IFHD
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

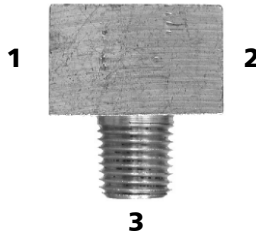
SAE #
040109•CORED
106
411P
131
2131

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 #
040427145
245IFHD
602
2600
600IN 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

FEMALE ELBOW

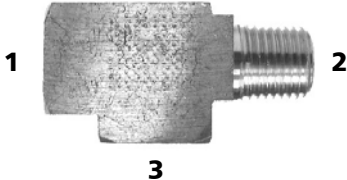
SAE #
040203

450

INVERTED FLARE X FEMALE PIPE

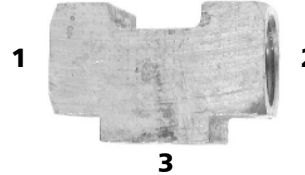
Part #	Size
916IF-03-02B	3/16x1/8
916IF-04-02B	1/4x1/8
916IF-05-02B	5/16x1/8
916IF-06-04B	3/8x1/4
916IF-08-06B	1/2x3/8

MALE RUN TEE

SAE #
040424251IFHD
752
550
151IN 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

FEMALE BRANCH TEE

SAE #
040427252IFHD
652
136INVERTED 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

90° UNION ELBOW

SAE #
040201255IFHD
652
136

INVERTED FLARE X INVERTED FLARE

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

Send DF Burnham & Company
all your high volume quotes!

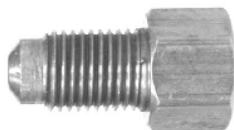
Inverted Flare

Brass Fittings

Inverted Flare

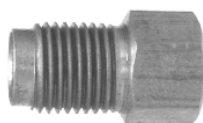
INVERTED FLARE AUTO FITTINGS

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

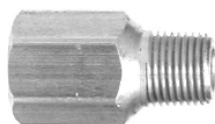
MALE INVERTED FLARE X
FEMALE INVERTED FLARE
(INVERTED FLARE THREADS)*

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

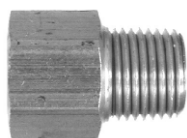
CARBURETOR TO FUEL LINE
ADAPTER - FORD

1513



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

RESTRICTION PIPE ADAPTER



1510

(.625 ORIFICE)

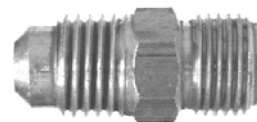
Part #	Size
12-310	1/8

CARBURETOR TO FUEL LINE
ADAPTER - PLYMOUTH

1514

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

SAE FLARE X INVERTED FLARE

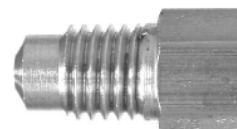


4205

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

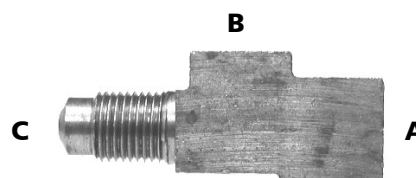
INVERTED FLARE AUTO FITTINGS

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

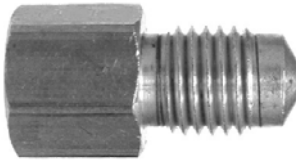


Part #	A	B	C
12-330	3/16	3/16	3/16
	(M10x1.0)	(3/8-24)	(M10x1.0)
12-331	3/16	3/16	3/16
	(M10x1.0)ISO	(3/8-24)	(M10x1.0)ISO
12-332	3/16	3/16	3/16
	(M11x1.5)	(3/8-24)	(M11x1.5)
12-333	3/16	3/16	3/16
	(M12x1.0)	(3/8-24)	(M12x1.0)
12-334*	3/16	1/4	3/16
	(M13x1.5)	(3/8-24)	(M13x1.5)

*Bubble flare type

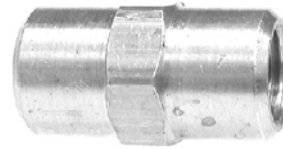


**ADAPTER STANDARD TO
METRIC BUBBLE**



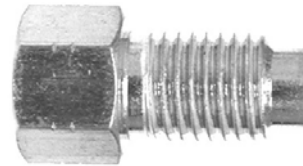
Part #	Size	Size
12-337	3/16 (3/8-24)	4.762 (3/16) (10x1.25)
12-338	3/16 (3/8-24)	1/4 (3/16x20)
12-339	3/16 (3/8-24)	13x1.5
12-340	3/16 (3/8-24)	11x1.5
12-341	3/16 (3/8-24)	12x1.0

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)

