



# MID-AMERICA FITTINGS, LLC.



A MIDLAND INDUSTRIES COMPANY

## PROUDLY MADE IN THE USA



**ENGINEER, DESIGN, MANUFACTURE**  
**We are the Leader of Made in the USA**  
**Brass Fittings**

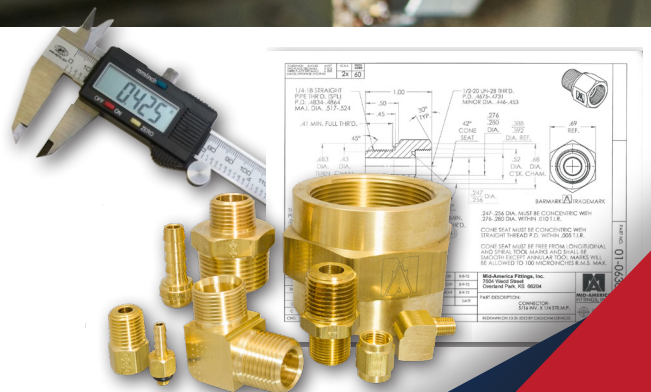
**FOR MORE INFORMATION**

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PHONE: 1-800-633-6771

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7604 WEDD ST., OVERLAND PARK, KS 66204



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BRASS FITTINGS

MADE IN THE USA

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**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](http://www.P65Warnings.ca.gov)



**PIPE FITTINGS**



Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1
Thread Size	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 <sup>1/2</sup>
Working Pressure	1200	1200	1200	1200	1200	1000	1000
Thread OD	1/4	3/8	1/2	5/8	3/4	1	1-1/4

**Typical Application:** Grease, fuels, LP and Natural gas (available on special order), refrigeration, instrumentation and hydraulic systems.

**Tolerance :** +/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

**Pressure:** Operating pressure up to 1200 PSI.

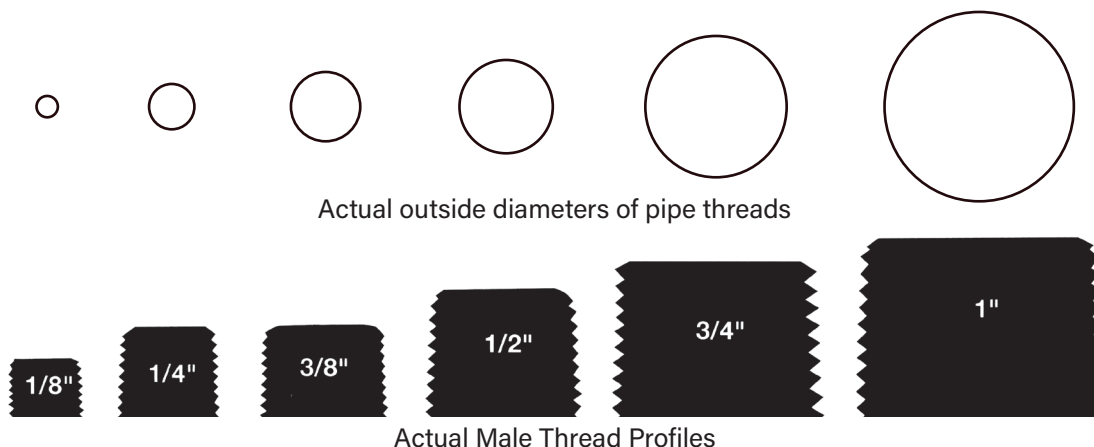
**Vibration:** Fair resistance.

**Temperature Range:**

-65°F to +250°F (-53°C to +121°C).

**Approvals:** Meets specifications and standards SAE J530, J531

**Used With:** Brass, bronze, copper, steel, aluminum and iron pipe.





**PIPE**

BRASS FITTINGS

MADE IN THE USA

**90° FEMALE ELBOW**

SAE# 130238

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23500X2	1/8"
23500X4	1/4"
23500X6	3/8"
23500X8	1/2"
23500X12	3/4"

**TEE**

SAE# 130438

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23700X2	1/8"
23700X4	1/4"
23700X6	3/8"
23700X8	1/2"
23700X12	3/4"

**CROSS**

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23950X2	1/8"
23950X4	1/4"
23950X6	3/8"
23950X8	1/2"

**COUPLING**

SAE# 130138

MAF #	THREAD SIZE NPTF
103-2	1/8"
103-4	1/4"

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23300X1	1/16"
23300X2	1/8"
23300X4	1/4"
23300X6	3/8"
23300X8	1/2"
23300X12	3/4"

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## PIPE

### BRASS FITTINGS

MADE IN THE USA

#### REDUCING COUPLING



SAE# 130138

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23304X2	1/4" x 1/8"
23306X2	3/8" x 1/8"
23306X4	3/8" x 1/4"
23308X4	1/2" x 1/4"
23308X6	1/2" x 3/8"
23312X8	3/4" x 1/2"

#### UNION



MAF #	THREAD SIZE NPTF
104-2	1/8"
104-4	1/4"
104-6	3/8"
104-8	1/2"

#### CAP



MAF #	THREAD SIZE NPTF
108-2	1/8"
108-4	1/4"
108-6	3/8"
108-8	1/2"
108-12	3/4"

#### 90° STREET ELBOW



Regular Pattern



Short Pattern

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23400X2	1/8"
23401X2	1/8" short
23400X4	1/4"
23401X4	1/4" short
23400X6	3/8"
23401X6	3/8" short
23400X8	1/2"
23400X12	3/4"

SAE# 130239

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CALL WHEN DIMENSIONS ARE CRITICAL.

**PIPE**

BRASS FITTINGS

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**HEX BUSHING**

MAF #	THREAD SIZE NPTF MXF
110-42	1/4" x 1/8"
110-62	3/8" x 1/8"
110-64	3/8" x 1/4"
110-82	1/2" x 1/8"
110-84	1/2" x 1/4"
110-86	1/2" x 3/8"
110-122	3/4" x 1/8"
110-124	3/4" x 1/4"
110-126	3/4" x 3/8"
110-128	3/4" x 1/2"
110-164	1" x 1/4"
110-166	1" x 3/8"
110-168	1" x 1/2"
110-1612	1" x 3/4"



SAE# 130140

SAE PATTERN	
MAF #	THREAD SIZE NPTF MXF
23224X2	1/4" x 1/8"
23226X2	3/8" x 1/8"
23226X4	3/8" x 1/4"
23228X2	1/2" x 1/8"
23228X4	1/2" x 1/4"
23228X6	1/2" x 3/8"
23232X2	3/4" x 1/8"
23232X4	3/4" x 1/4"
23232X6	3/4" x 3/8"
23232X8	3/4" x 1/2"

**SQUARE HEAD CORED PLUG**

MAF #	THREAD SIZE NPTF
109-4	1/4"
109-6	3/8"
109-8	1/2"

**SQUARE HEAD SOLID PLUG**

MAF #	THREAD SIZE NPTF
109SD-2	1/8"
109SD-4	1/4"
109SD-6	3/8"
109SD-8	1/2"

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## PIPE

BRASS FITTINGS

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### COUNTERSUNK HEX PLUG

3/4" taper thread



MAF #	THREAD SIZE NPTF
109AL-1	1/16"
109AL-2	1/8"
109AL-4	1/4"
109AL-6	3/8"
109AL-8	1/2"
109AL-12	3/4"

### SLOTTED-HEAD PLUG



MAF #	THREAD SIZE NPTF
117-2	1/8"
117-4	1/4"
117-6	3/8"
117-8	1/2"

### CORED HEX PLUG



MAF #	THREAD SIZE NPTF
121-4	1/4"
121-6	3/8"
121-8	1/2"
121-12	3/4"
121-16	1"

### SOLID HEX HEAD PLUG



MAF #	THREAD SIZE NPTF
121S-2	1/8"
121S-4	1/4"
121S-6	3/8"
121S-8	1/2"
121S-12	3/4"

### LOCKNUT

- Jam Nuts
- Straight pipe thread



MAF #	THREAD SIZE NPSL
111-2	1/8"
111-4	1/4"
111-6	3/8"
111-8	1/2"
111-12	3/4"

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MID-AMERICA FITTINGS



**PIPE**

BRASS FITTINGS

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**CLOSE NIPPLE**

MAF #	THREAD SIZE NPTF	LENGTH (in.)
112-2	1/8"	0.75
112-4	1/4"	0.88
112-6	3/8"	1.00
112-8	1/2"	1.12
112-12	3/4"	1.31

**LONG NIPPLE**

MAF #	THREAD SIZE NPTF	LENGTH (in.)
113-224	1/8"	1.50
113-232	1/8"	2.00
113-240	1/8"	2.50
113-248	1/8"	3.00
113-424	1/4"	1.50
113-432	1/4"	2.00
113-440	1/4"	2.50
113-448	1/4"	3.00
113-624	3/8"	1.50
113-632	3/8"	2.00
113-640	3/8"	2.50
113-648	3/8"	3.00
113-824	1/2"	1.50
113-832	1/2"	2.00
113-840	1/2"	2.50
113-848	1/2"	3.00
113-1224	3/4"	1.50
113-1232	3/4"	2.00
113-1240	3/4"	2.50
113-1248	3/4"	3.00

**HEX NIPPLE**

SAE# 130137

SAE PATTERN			
MAF #	THREAD SIZE NPTF	LENGTH (in.)	HEX
23325X2	1/8"	0.97	0.43
23325X4	1/4"	1.38	0.56
23325X6	3/8"	1.41	0.68
23325X8	1/2"	1.81	0.87
23325X12	3/4"	1.96	1.13

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# PIPE

BRASS FITTINGS

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## REDUCING HEX NIPPLE



SAE# 130137

SAE PATTERN			
MAF #	THREAD SIZE NPTF	LENGTH (in.)	HEX
23325X2X1	1/8" x 1/16"	0.98	0.43
23325X4X2	1/4" x 1/8"	1.19	0.56
23325X6X2	3/8" x 1/8"	1.12	0.68
23325X6X4	3/8" x 1/4"	1.41	0.68
23325X8X4	1/2" x 1/4"	1.62	0.87
23325X8X6	1/2" x 3/8"	1.62	0.87
23325X12X8	3/4" x 1/2"	1.79	1.06
23325X16X12	1" x 3/4"	1.7	1.37

## 45° STREET ELBOW



SAE# 130339

SAE PATTERN	
MAF #	1 X 2 THREAD SIZE NPTF
23350X2	1/8"
23350X4	1/4"
23350X6	3/8"
23350X8	1/2"
23350X12	3/4"

## STREET TEE



SAE# 130424

MAF #	1 X 2 X 3 THREAD SIZE NPTF
127-4	1/4"
127-6	3/8"
127-8	1/2"

SAE PATTERN	
MAF #	1 X 2 X 3 THREAD SIZE NPTF
23750X2	1/8"
23750X4	1/4"
23750X6	3/8"
23750X8	1/2"
23750X12	3/4"

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MID-AMERICA FITTINGS

**PIPE**

BRASS FITTINGS

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**EXTENDER ADAPTER**

MAF #	THREAD SIZE NPTF FXM
120-84	1/2" x 1/4"
120-88	1/2" x 1/2"
120-1612	1" x 3/4"



SAE# 130139

SAE PATTERN	
MAF #	THREAD SIZE NPTF FXM
23200X2	1/8" x 1/8"
23404X2	1/4" x 1/8"
23200X4	1/4" x 1/4"
23206X4	3/8" x 1/4"
23200X6	3/8" x 3/8"
23208X6	1/2" x 3/8"
23200X8	1/2" x 1/2"
23212X6	3/4" x 3/8"
23212X8	3/4" x 1/2"

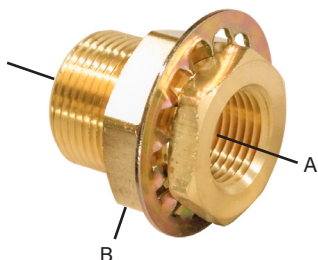
**MALE BRANCH TEE**

SAE# 130425

SAE PATTERN	
MAF #	THREAD SIZE NPTF
23600X2	1/8"
23600X4	1/4"
23600X6	3/8"
23600X8	1/2"
23600X12	3/4"

**BULKHEAD**

FEMALE PIPE X FEMALE PIPE



MAF #	A	B	HOLE SIZE	LENGTH (in.)
207ACBH-2	1/8-27 NPTF	5/8-18 UNS	5/8"	1.50
207ACBH-4	1/4-18 NPTF	3/4-16 UNS	3/4"	1.50
207ACBH-6	3/8-18 NPTF	1-14 UNS	1"	1.32
207ACBH-8	1/2-14 NPTF	1-1/8-14 UNS	1-1/8"	1.50

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# HOSE BARB

BRASS FITTINGS

MADE IN THE USA

## HOSE BARB FITTINGS



MADE IN THE USA



MID-AMERICA  
FITTINGS, LLC.



A MIDLAND INDUSTRIES COMPANY



### • Temperature and Working Pressure Ranges

From -40°F to + 160°F at 150 PSI maximum.

### • Tolerance

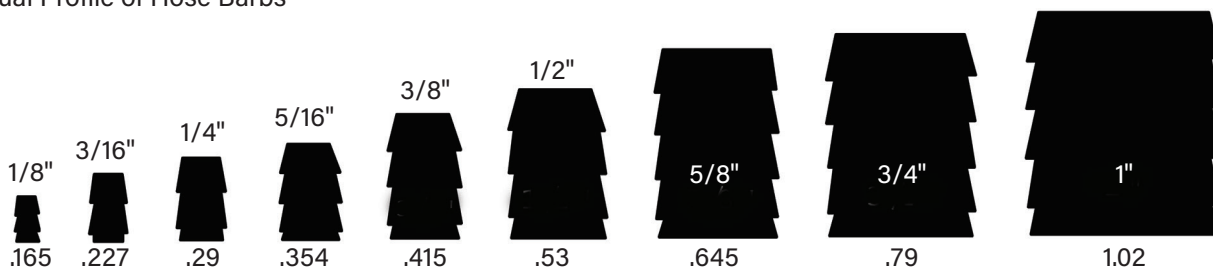
+/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

**Note:** These fittings are intended for use with hose clamp, similar type clamp or a crimped ferrule.

### • Assembly Instructions

- 1- Cut hose cleanly and squarely to length.
- 2- Slide clamp on hose.
- 3- Lubricate hose. Push hose on fitting until hose bottoms against stop ring or hex.
- 4- Position hose clamp as shown below and secure with a screwdriver or wrench. Maintain "A" dimension noted below for proper clamp positioning.

Actual Profile of Hose Barbs



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**HOSE BARB**

BRASS FITTINGS

MADE IN THE USA

**RIGID MALE PIPE ADAPTER**

MAF #	HOSE I.D. X MALE NPTF
29-22	1/8" x 1/8"
29-32	3/16" x 1/8"
29-34	3/16" x 1/4"
29-42	1/4" x 1/8"
29-44	1/4" x 1/4"
29-46	1/4" x 3/8"
29-52	5/16" x 1/8"
29-54	5/16" x 1/4"
29-62	3/8" x 1/8"
29-64	3/8" x 1/4"
29-66	3/8" x 3/8"
29-68	3/8" x 1/2"
29-84	1/2" x 1/4"
29-86	1/2" x 3/8"
29-88	1/2" x 1/2"
29-812	1/2" x 3/4"
29-106	5/8" x 3/8"
29-108	5/8" x 1/2"
29-1012	5/8" x 3/4"
29-126	3/4" x 3/8"
29-128	3/4" x 1/2"
29-1212	3/4" x 3/4"

**MENDER/ SPLICER**

MAF #	HOSE I.D. X HOSE I.D.
29S-4	1/4"
29S-5	5/16"
29S-6	3/8"
29S-8	1/2"
29S-10	5/8"
29S-12	3/4"

**RIGID FEMALE PIPE ADAPTER**

MAF #	HOSE I.D. X FEMALE NPTF
29F-22	1/8" x 1/8"
29F-32	3/16" x 1/8"
29F-42	1/4" x 1/8"
29F-44	1/4" x 1/4"
29F-52	5/16" x 1/8"
29F-54	5/16" x 1/4"
29F-62	3/8" x 1/8"
29F-64	3/8" x 1/4"
29F-66	3/8" x 3/8"
29F-84	1/2" x 1/4"
29F-86	1/2" x 3/8"
29F-88	1/2" x 1/2"

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## HOSE BARB

BRASS FITTINGS

MADE IN THE USA

### BALL END SWIVEL

NPSM - Ball seat type



MAF #	HOSE I.D. X NPSM
29FS-22	1/8" x 1/8"
29FS-32	3/16" x 1/8"
29FS-34	3/16" x 1/4"
29FS-42	1/4" x 1/8"
29FS-44	1/4" x 1/4"
29FS-46	1/4" x 3/8"
29FS-54	5/16" x 1/4"
29FS-64	3/8" x 1/4"
29FS-66	3/8" x 3/8"
29FS-68	3/8" x 1/2"
29FS-88	1/2" x 1/2"

### BRASS FUEL HOSE BARBS

**Typical Application:** Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines. Use with fuel hose SAE 30R7 & SAE 30R9.

**Advantages:** Easy to assemble, just push the fitting into the hose & clamp. Good selection of configurations at reasonable cost.

### MALE CONNECTOR

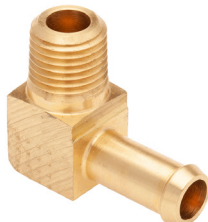
HOSE BARB X MALE PIPE



MAF #	HOSE ID X NPTF
29SB-32	3/16" x 1/8"
29SB-42	1/4" x 1/8"
29SB-44	1/4" x 1/4"
29SB-52	5/16" x 1/8"
29SB-54	5/16" x 1/4"
29SB-62	3/8" x 1/8"
29SB-64	3/8" x 1/4"
29SB-66	3/8" x 3/8"
29SB-106	5/8" x 3/8"
29SB-108	5/8" x 1/2"
29SB-128	3/4" x 1/2"

### 90° MALE ELBOW

HOSE BARB X MALE PIPE



MAF #	HOSE ID X NPTF
29ESB-42	1/4" x 1/8"
29ESB-52	5/16" x 1/8"
29ESB-54	5/16" x 1/4"
29ESB-62	3/8" x 1/8"
29ESB-64	3/8" x 1/4"

### BUBBLE BARB 90° MALE ELBOW



MAF #	HOSE ID X NPTF
29ESB-66	3/8" x 3/8"
29ESB-106	5/8" x 3/8"
29ESB-108	5/8" x 1/2"
29ESB-1612	1" x 3/4"



**PUSH ON HOSE BARB**

BRASS FITTINGS

MADE IN THE USA

**PUSH ON BARB FITTINGS****MADE IN THE USA****MID-AMERICA  
FITTINGS, LLC.**

A MIDLAND INDUSTRIES COMPANY



**Typical Application:** Low Pressure Air, Fuel, Lube, and Oil Lines

- Pressure determined by tube material and hardness.

**Advantages:** Easy assembly. No clamps needed!!

• **Assembly Instructions**

- 1- Lubricate insert.
- 2- Hold hose at angle as shown & push on and up over first barb.
- 3- Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand.

• **Disassembling Instructions**

- 1- Split hose. Do not cut completely through hose. Sealing edge of barb could be damaged.
- 2- Bend hose and remove with a quick pull.

Actual Profile of Push On Barbs



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# PUSH-ON FITTINGS

BRASS FITTINGS

MADE IN THE USA

## MALE ADAPTER



MAF #	HOSE I.D. X MALE NPTF
29PO1-42	1/4" x 1/8"
29PO1-44	1/4" x 1/4"
29PO1-52	5/16" x 1/8"
29PO1-54	5/16" x 1/4"
29PO1-62	3/8" x 1/8"
29PO1-64	3/8" x 1/4"
29PO1-66	3/8" x 3/8"
29PO1-68	3/8" x 1/2"
29PO1-86	1/2" x 3/8"
29PO1-88	1/2" x 1/2"
29PO1-108	5/8" x 1/2"
29PO1-1212	3/4" x 3/4"

## HOSE SPLICER



MAF #	HOSE I.D.
29PO8-4	1/4"
29PO8-5	5/16"
29PO8-6	3/8"
29PO8-8	1/2"
29PO8-10	5/8"
29PO8-12	3/4"

## SAE/JIC DUAL 45°/37° FEMALE SWIVEL



MAF #	HOSE I.D. X DUAL SEAT
29PO5-44	1/4" x 1/4"
29PO5-45	1/4" x 5/16"
29PO5-55	5/16" x 5/16"
29PO5-88	1/2" x 1/2"
29PO5-1010	5/8" x 5/8"

## 45° SAE FLARE FEMALE SWIVEL



MAF #	HOSE I.D. X 45° FEMALE FLARE
29PO6-66	3/8" x 3/8"
29PO6-1212	3/4" x 3/4"

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CALL WHEN DIMENSIONS ARE CRITICAL.

# GARDEN HOSE

BRASS FITTINGS

MADE IN THE USA

## GARDEN HOSE FITTINGS



A MIDLAND INDUSTRIES COMPANY



### • Temperature and Working Pressure Ranges

From +35°F to +100°F at 75 PSI maximum or the recommended working pressure of the garden hose. (Not to exceed 150 PSI.)

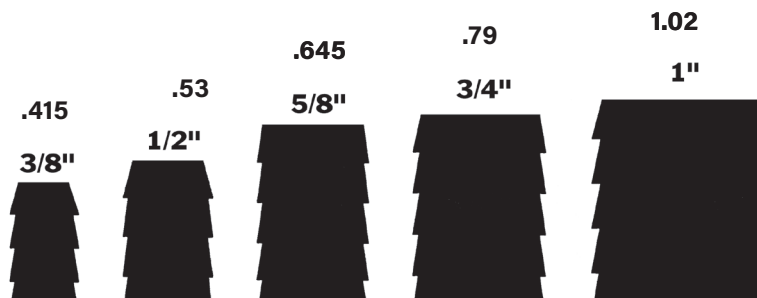
**Note:** All female connector ends should have a rubber washer inserted prior to usage.

**FGH** = Female Garden Hose threads

**MGH** = Male Garden Hose threads

Male garden hose threads are all 3/4" with an outside diameter of 1.0625 and 11-1/2" threads per inch.

Actual Profile of Garden Hose Barbs



Male Garden Hose Profile

**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](http://www.P65Warnings.ca.gov)



# GARDEN HOSE FITTINGS

BRASS FITTINGS

MADE IN THE USA

## SWIVEL - FGH X FGH

**\*WASHER INCLUDED**



MAF #	FGH X FGH
S3	3/4" x 3/4"
S3W*	3/4" x 3/4"

## SWIVEL - FGH X FEMALE PIPE

**\*WASHER INCLUDED**



MAF #	FGH X FEMALE NPTF
S1	3/4" x 1/2"
S1W*	3/4" x 1/2"
S2	3/4" x 3/4"
S2W*	3/4" x 3/4"

## RIGID - FGH X FEMALE PIPE



MAF #	FGH X FEMALE NPTF
73GH	3/4" x 1/8"

## SWIVEL - FGH X MALE PIPE

**\*WASHER INCLUDED**



MAF #	FGH X MALE NPTF
102GH*	3/4" x 1/4"
102GH-LNG*	3/4" x 1/4"
103GH*	3/4" x 3/8"
103GH-LNG*	3/4" x 3/8"
104GH*	3/4" x 1/2"
105GH*	3/4" x 3/4"
105GHXD*	3/4" x 3/4"

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**GARDEN HOSE**

BRASS FITTINGS

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**RIGID - MGH X FEMALE PIPE**

MAF #	MGH X FEMALE NPTF
80GH	3/4" x 1/2"
81GH	3/4" x 3/4"

**RIGID - MGH X MALE PIPE**

78GHS



79GHT

MAF #	MGH X MALE NPTF
76GH	3/4" x 1/4"
77GH	3/4" x 3/8"
78GH	3/4" x 1/2"
78GHS	3/4" x 1/2" SWT
79GHT	3/4" x 3/4" x 1/2"
79GH	3/4" x 3/4" Short

**GARDEN HOSE NUT**

GHNK



GHNH

MAF #	SIZE
GHNK	Knurled
GHNH	Hex Nut

**GARDEN HOSE WASHERS**

MAF #	COLOR
GHW	Black
GHW-12R	Red

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# GARDEN HOSE

BRASS FITTINGS

MADE IN THE USA

## BARSTOCK BRASS GARDEN HOSE COUPLINGS

### FEMALE SWIVEL ONLY

**\*WASHER INCLUDED**



MAF #	HOSE BARB X FGH	SHANK LENGTH (in.)	OVERALL LENGTH (in.)
29FGH-612H*	3/8" x 3/4"	0.87	1.40
29FGH-812H*	1/2" x 3/4"	0.87	1.40
29FGH-1012H*	5/8" x 3/4"	0.87	1.40
29FGH-1212H*	3/4" x 3/4"	0.87	1.40

### MALE END ONLY



MAF #	HOSE BARB X MGH	SHANK LENGTH (in.)	OVERALL LENGTH (in.)
29MGH-412	1/4" x 3/4"	0.87	1.57
29MGH-612	3/8" x 3/4"	0.87	1.57
29MGH-812	1/2" x 3/4"	0.87	1.57
29MGH-1012	5/8" x 3/4"	0.87	1.57
29MGH-1212	3/4" x 3/4"	0.87	1.57

### FEMALE SWIVEL ONLY - SHORT SHANK KNURLED NUT

**\*WASHER INCLUDED**



MAF #	HOSE BARB X FGH	SHANK LENGTH (in.)	OVERALL LENGTH (in.)
29FGH-612 *	3/8" x 3/4"	0.87	1.36
29FGH-812*	1/2" x 3/4"	0.87	1.36
29FGH-1012*	5/8" x 3/4"	0.87	1.36
29FGH-1212*	3/4" x 3/4"	0.87	1.36

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CALL WHEN DIMENSIONS ARE CRITICAL.

# SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

## SAE 45° FLARE



MADE IN THE USA



**MID-AMERICA**  
FITTINGS, LLC.



A MIDLAND INDUSTRIES COMPANY



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	1 1/16-16	3/4-16	7/8-14	1 1/2-14

### •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

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

### •Approvals

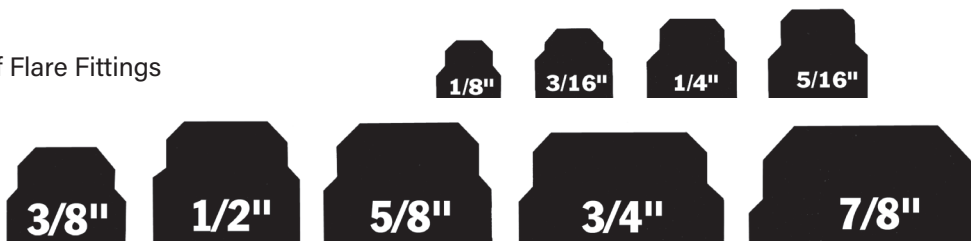
Meets all requirements of SAE J530, J531

### 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.

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](http://www.P65Warnings.ca.gov)

## SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

### SHORT ROD NUT



SAE# 010110

SAE PATTERN				
MAF #	THREAD SIZE UNF	THREAD	LENGTH (in.)	HEX
21110X2	1/8"	5/16-24	0.50	0.37
21110X3	3/16"	3/8-24	0.62	0.43
21110X4	1/4"	7/16-20	0.75	0.56
21110X5	5/16"	1/2-20	0.88	0.62
21110X6	3/8"	5/8-18	1.00	0.75
21110X8	1/2"	3/4-16	1.12	0.87
21110X10	5/8"	7/8-14	1.31	1.06

### LONG ROD NUT



SAE# 010111

MAF #	THREAD SIZE UNF
41L-3	3/16"
41L-4	1/4"
41L-5	5/16"
41L-6	3/8"
41L-8	1/2"
41L-10	5/8"

### FLARED PLUG



MAF #	THREAD SIZE UNF
39-2	1/8"
39-3	3/16"
39-4	1/4"
39-5	5/16"
39-6	3/8"
39-8	1/2"
39-10	5/8"

### FLARED CAP



MAF #	THREAD SIZE UNF
40-3	3/16"
40-4	1/4"
40-5	5/16"
40-6	3/8"
40-8	1/2"
40-10	5/8"
40-12	3/4"

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MID-AMERICA FITTINGS



**SAE 45° FLARE**

BRASS FITTINGS

MADE IN THE USA

**UNION**

SAE# 010101

SAE PATTERN			
MAF #	THREAD SIZE UNF	LENGTH (in.)	HEX
242X3	3/16"	1.06	0.37
242X4	1/4"	1.19	0.43
242X5	5/16"	1.34	0.50
242X6	3/8"	1.50	0.62
242X8	1/2"	1.81	0.75
242X10	5/8"	2.12	0.87
242X12	3/4"	2.44	1.06

**REDUCING UNION**

MAF #	THREAD SIZE UNF
42R-64	3/8" x 1/4"
42R-84	1/2" x 1/4"
42R-86	1/2" x 3/8"

**BULKHEAD UNION**

MAF #	THREAD SIZE UNF
42BH-6	3/8"

**LOCKNUT ONLY**

MAF #	THREAD SIZE UNF
41LN-6	3/8"

**UNION TEE**

SAE# 010401

SAE PATTERN	
MAF #	THREAD SIZE UNF
244X4	1/4"
244X6	3/8"
244X8	1/2"
244X10	5/8"

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# SAE 45° FLARE

BRASS FITTINGS

MADE IN THE USA

## FEMALE ADAPTER



MAF #	MALE FLARE X FEMALE NPTF
46-44	1/4" x 1/4"
46-54	5/16" x 1/4"
46-64	3/8" x 1/4"
46-66	3/8" x 3/8"
46-86	1/2" x 3/8"
46-88	1/2" x 1/2"
46-108	5/8" x 1/2"

## MALE ADAPTER



MAF #	MALE FLARE X MALE NPTF
48-44	1/4" x 1/4"
48-46	1/4" x 3/8"
48-54	5/16" x 1/4"
48-56	5/16" x 3/8"
48-64	3/8" x 1/4"
48-66	3/8" x 3/8"
48-68	3/8" x 1/2"
48-84	1/2" x 1/4"
48-86	1/2" x 3/8"
48-88	1/2" x 1/2"
48-812	1/2" x 3/4"
48-1012	5/8" x 3/4"
48-128	3/4" x 1/2"
48-1212	3/4" x 3/4"



SAE# 010102

SAE PATTERN			
MAF #	MALE FLARE X MALE NPTF	LENGTH (in.)	HEX
248X2	1/8" x 1/8"	0.92	0.43
248X3	3/16" x 1/8"	1.00	0.43
248X4	1/4" x 1/8"	1.06	0.43
248X5	5/16" x 1/8"	1.16	0.50
248X6X2	3/8" x 1/8"	1.25	0.62
248X6X8	3/8" x 1/2"	1.69	0.87
248X8X8	1/2" x 1/2"	1.79	0.87
248X8X12	1/2" x 3/4"	1.75	1.06
248X10	5/8" x 1/2"	2.00	0.87

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**SAE 45° FLARE**

BRASS FITTINGS

MADE IN THE USA

**90° MALE ELBOW**

Barstock Elbow



SAE# 010202

SAE PATTERN	
MAF #	MALE FLARE X MALE NPTF
249X2	1/8" x 1/8"
249X3	3/16" x 1/8"
249X4	1/4" x 1/8"
249X4X4	1/4" x 1/4"
249X4X6	1/4" x 3/8"
249X5	5/16" x 1/8"
249X5X4	5/16" x 1/4"
249X6X2	3/8" x 1/8"
249X6	3/8" x 1/4"
249X6X6	3/8" x 3/8"
249X6X8	3/8" x 1/2"
249X8X4	1/2" x 1/4"
249X8	1/2" x 3/8"
249X8X8	1/2" x 1/2"
249X10	5/8" x 1/2"

**45° ELBOW**

SAE# 010302

SAE PATTERN	
MAF #	MALE FLARE X MALE NPTF
254X4	1/4" x 1/8"
254X4X4	1/4" x 1/4"
254X6	3/8" x 1/4"
254X6X6	3/8" x 3/8"
254X8	1/2" x 3/8"
254X8X8	1/2" x 1/2"
254X10	5/8" x 1/2"

**UNION ELBOW**

SAE PATTERN	
MAF #	THREAD SIZE UNF
255X4	1/4"
255X5	5/16"
255X6	3/8"
255X8	1/2"

**FLARE REDUCER**

MAF #	FEMALE FLARE X MALE FLARE
601-68	3/8" x 1/2"
601-86	1/2" x 3/8"
601-108	5/8" x 1/2"

**FLARE REDUCER - WITH GASKET**

MAF #	FEMALE FLARE X MALE FLARE
601WG-68	3/8" x 1/2"
601WG-86	1/2" x 3/8"
601WG-108	5/8" x 1/2"

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# INVERTED FLARE

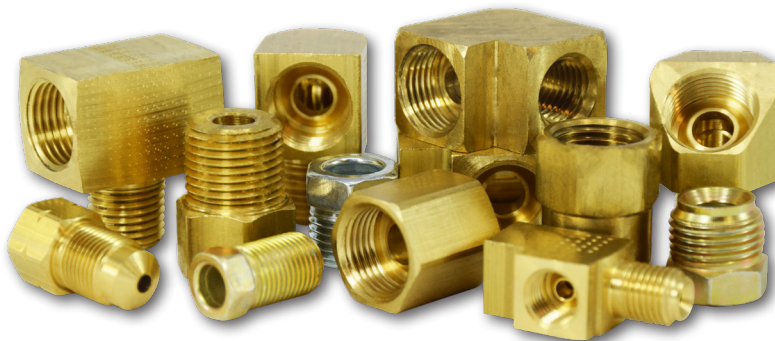
BRASS FITTINGS

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## INVERTED FLARE FITTINGS



A MIDLAND INDUSTRIES COMPANY



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

+/- .02 on all dimensions.

### •Approvals

Meets all requirements of SAE J530, J531.

### •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.

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.

### 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"



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MID-AMERICA FITTINGS

**INVERTED FLARE**

BRASS FITTINGS

MADE IN THE USA

**BRASS NUT**

SAE# 040110

SAE PATTERN	
MAF #	SIZE
41IFB-3	3/16"
41IFB-4	1/4"
41IFB-5	5/16"
41IFB-6	3/8"
41IFB-8	1/2"
41IFB-10	5/8"

**UNION INTERNAL**

SAE# 040101

SAE PATTERN			
MAF #	INV. FLARE X INV. FLARE	LENGTH (in.)	HEX
2302X3	3/16"	0.62	0.43
2302X4	1/4"	0.62	0.50
2302X5	5/16"	0.70	0.56
2302X6	3/8"	0.80	0.75
2302X8	1/2"	0.91	0.90

**MALE ADAPTER**

SAE# 040102

MAF #	INV. FLARE X MALE NPTF
48IF-62	3/8" x 1/8"
48IF-66	3/8" x 3/8"
48IF-86	1/2" x 3/8"

SAE PATTERN			
MAF #	INV. FLARE X MALE NPTF	LENGTH (in.)	HEX
2202X3	3/16" x 1/8"	0.69	0.50
2202X4	1/4" x 1/8"	0.74	0.50
2234X4	1/4" x 1/4"	0.89	0.56
2202X5	5/16" x 1/8"	0.79	0.59
2202X6	3/8" x 1/4"	1.02	0.75

**ELBOW**

MAF #	INV. FLARE X MALE NPTF
49IF-44	1/4" x 1/4"
49IF-54	5/16" x 1/4"
49IF-62	3/8" x 1/8"
49IF-64	3/8" x 1/4"
49IF-66	3/8" x 3/8"
49IF-86	1/2" x 3/8"

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# COMPRESSION

BRASS FITTINGS

MADE IN THE USA

## COMPRESSION FITTINGS



MADE IN THE USA



MID-AMERICA  
FITTINGS, LLC.



A MIDLAND INDUSTRIES COMPANY



Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18
Working Pressure	400	400	300	300	200	200	200	150	100	75

### • Typical Application

Use with copper, aluminum and thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media.

### • Pressure

See table above for working pressures at 73°F.

### • Vibration

Fair resistance - use long nut when greater vibration resistance is needed.

### • Temperature Range

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

### • Used With

Aluminum, copper, brass and plastic tubing. Plastic tubing requires insert. Not recommended for steel tubing.

### • Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

### • Approvals

Meets all requirements of SAE J530, J531.

### • Assembly Instructions

- 1- Cut tubing to desired length.
- 2- Slide nut and then sleeve on tube. Threaded end "A" of nut must face toward fitting.
- 3- Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
- 4- Lubricate threads and assemble nut to fitting body.
- 5- Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated in the chart below.

Tube Size	Additional Turns from Hand Tight
1/8" thru 1/4"	1-1/4"
5/16"	1-3/4"
3/8" thru 1"	2-1/4"

### • "L" at the end of a Part# means Light Pattern

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

Actual Profile of Compression Threads

5/16"-24	3/8"-24	7/16"-24	1/2"-24	9/16"-24	11/16"-20	13/16"-18	1"-18	1-1/8"-18 75 PSI
1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"



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**COMPRESSION**

BRASS FITTINGS

MADE IN THE USA

**BRASS SLEEVE**

• FERRULES



SAE# 060115

SAE PATTERN	
PART #	SIZE
260X2	1/8"
260X3	3/16"
260X4	1/4"
260X5	5/16"
260X6	3/8"
260X7	7/16"
260X8	1/2"
260X10	5/8"
260X12	3/4"
260X16	1"

**BRASS NUT**

SAE# 060110

SAE PATTERN		
PART #	SIZE	THREAD
261X2	1/8"	5/16-24
261X3	3/16"	3/8-24
261X4	1/4"	7/16-24
261X5	5/16"	1/2-24
261X6	3/8"	9/16-24
261X7	7/16"	5/8-24
261X8	1/2"	11/16-20
261X10	5/8"	13/16-18
261X12	3/4"	1-18
261X16	1"	1-1/4-18

**UNION**

SAE# 060101BA

SAE PATTERN		
PART #	SIZE	HEX
262X2	1/8"	0.31
262X3	3/16"	0.37
262X4	1/4"	0.43
262X5	5/16"	0.50
262X6	3/8"	0.56
262X8	1/2"	0.68
262X10	5/8"	0.81
262X12	3/4"	1.00

**UNION TEE**

SAE# 060401

SAE PATTERN	
PART #	SIZE
264X2	1/8"
264X3	3/16"
264X4	1/4"
264X5	5/16"
264X6	3/8"
264X8	1/2"

**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](http://www.P65Warnings.ca.gov)

# COMPRESSION

BRASS FITTINGS

MADE IN THE USA

## MALE ADAPTER



MAF #	COMP. X MALE NPTF
68-21	1/8" x 1/16"
68-44	1/4" x 1/4"
68-54	5/16" x 1/4"
68-56	5/16" x 3/8"
68-64	3/8" x 1/4"
68-66	3/8" x 3/8"
68-68	3/8" x 1/2"
68-128	3/4" x 1/2"
68-1212	3/4" x 3/4"
68-1412	7/8" x 3/4"

SAE# 060102

SAE PATTERN	
PART #	SIZE
268X2	1/8" x 1/8"
268X3	3/16" x 1/8"
268X4	1/4" x 1/8"
268X5	5/16" x 1/8"
268X6X2	3/8" x 1/8"
268X8X4	1/2" x 1/4"
268X8X8	1/2" x 1/2"
268X10	5/8" x 1/2"

## MALE ELBOW



SAE# 060202

SAE PATTERN	
PART #	SIZE
269X2	1/8" x 1/8"
269X3	3/16" x 1/8"
269X3X4	3/16" x 1/4"
269X4	1/4" x 1/8"
269X4X4	1/4" x 1/4"
269X5	5/16" x 1/8"
269X5X4	5/16" x 1/4"
269X6X2	3/8" x 1/8"
269X6	3/8" x 1/4"
269X6X6	3/8" x 3/8"
269X6X8	3/8" x 1/2"
269X8X4	1/2" x 1/4"
269X8	1/2" x 3/8"
269X8X8	1/2" x 1/2"
269X10	5/8" x 1/2"

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**SPLIT SLEEVE FITTINGS**

BRASS FITTINGS

MADE IN THE USA

**BRASS SPLIT SLEEVE D.O.T. FITTINGS (5/32 O.D.)****TRANSMISSION BRASS FITTINGS OR PRECISION GRIP FITTINGS**

APPLICATIONS: Used with SAE J844 Type A nylon tube in pressure protected air transmission applications.

TECHNICAL DATA: Maximum working pressure up to 150 PSI. Fittings will withstand variations from -40°F to +220°F (-40°C to + 104°C)

Ideally suited for use in passive protected air transmission applications. A specially designed slotted sleeve helps eliminate notch stress related to over torque.

**COLLET**

MAF #	TUBE O.D.
280X50	5/32"
280X2	1/8"

**NUT**

MAF #	TUBE O.D.
281X50	5/32"
281X2	1/8"

**DOUBLE END UNION**

MAF #	TUBE O.D.
283X50S	5/32"
283X2	1/8"

**CONNECTOR WITH NUT AND SLEEVE**

MAF #	TUBE O.D.	PIPE THREAD
282X51S	5/32"	1/16"
282X52S	5/32"	1/8"
282X2X1	1/8"	1/16"
282X2	1/8"	1/8"

\*Add "N" to end of part # for white Vibraseal on pipe end.

**ELBOW**

MAF #	TUBE O.D.	PIPE THREAD
284X51S	5/32"	1/16"
284X52S	5/32"	1/8"
284X2X1	1/8"	1/16"
284X2	1/8"	1/8"

\*Add "N" to end of part # for white Vibraseal on pipe end.

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# D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MADE IN THE USA

## D.O.T. AIR BRAKE - NYLON TUBING



Tube O.D	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	17/32-24	11/16-20	13/16-18	1-18

### •Typical Application

Air brake systems except where temperatures exceed +200°F or where battery acid can drip on tubing.

### •Pressure

Maximum operating pressure of 150 PSI.

### •Vibration

Fair resistance.

### •Temperature Range

-40°F to +200°F (-40°C to +93°C).

### •Material

Brass C36000 1/2 Hard / C37700 1/2 Hard

### •Used With

NT Nylon Tubing - SAE J844 Type A and B.

### •Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

### •Advantages

Easy to assemble (no tube preparation or flaring required.) Built in tube support. Fittings utilize a ribbed sleeve for compression and positive grip. May be used with copper tubing by replacing nut, sleeve and

insert with long nut and spherical sleeve. Insert should be removed for copper tubing use.

### •Conformance

Meets specifications and standards of SAE and DOT FMVSS 571.106.

### •Assembly Instructions

- 1- Cut tubing to desired length.
- 2-Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
- 3-Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
- 4- Tighten nut to required torque as indicated on chart.

**Disassembling:** Remove nut and pull tubing out of fitting body. Insert will remain in tubing.

**Reassembly:** Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body and torque as in step 4.

Tube Size	Additional Number of Turns from Hand-Tight
1/4	3
3/8, 1/2	4
5/8, 3/4	3-1/2

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**D.O.T. AIR BRAKE - NYLON TUBING**

BRASS FITTINGS

MADE IN THE USA

**SLEEVE**

SAE# 100115

SAE PATTERN	
MAF #	TUBE O.D.
NT60-3	3/16"
NT60-4	1/4"
NT60-6	3/8"
NT60-8	1/2"
NT60-10	5/8"
NT60-12	3/4"

**NUT**

SAE# 100110

SAE PATTERN	
MAF #	TUBE O.D.
NT61-3	3/16"
NT61-4	1/4"
NT61-6	3/8"
NT61-8	1/2"
NT61-10	5/8"
NT61-12	3/4"

**UNION**

SAE# 100101BA

SAE PATTERN	
MAF #	TUBE O.D.
NT62-3	3/16"
NT62-4	1/4"
NT62-6	3/8"
NT62-8	1/2"
NT62-10	5/8"
NT62-12	3/4"

**BULKHEAD UNION**

MAF #	TUBE O.D.
NT62BH-4	1/4"
NT62BH-6	3/8"
NT62BH-8	1/2"

**STAINLESS STEEL INSERT**

- 300 series stainless
- For SAE# J844 TUBING

MAF #	TUBE O.D.
NT63SSI-3	3/16"
NT63SSI-4	1/4"
NT63SSI-6	3/8"
NT63SSI-8	1/2"
NT63SSI-10	5/8"
NT63SSI-12	3/4"

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# D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MADE IN THE USA

## BRASS INSERT



MAF #	TUBE O.D.
NT63B-4	1/4"
NT63B-6	3/8"
NT63B-8	1/2"
NT63B-10	5/8"
NT63B-12	3/4"

## TEE



SAE PATTERN	
MAF #	TUBE O.D.
NT264X4	1/4"
NT264X6	3/8"
NT64-8	1/2"
NT64-10	5/8"

SAE# 100401BA

## ELBOW



SAE PATTERN	
MAF #	TUBE O.D.
NT265X6	3/8"
NT65-4	1/4"
NT65-8	1/2"

SAE# 100201BA

## FEMALE ADAPTER



SAE PATTERN	
MAF #	TUBE O.D. X FEMALE NPTF
NT66-42	1/4" x 1/8"
NT66-44	1/4" x 1/4"
NT66-62	3/8" x 1/8"
NT66-64	3/8" x 1/4"
NT66-66	3/8" x 3/8"
NT66-86	1/2" x 3/8"
NT66-88	1/2" x 1/2"

SAE# 100103BA

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MID-AMERICA FITTINGS

**D.O.T. AIR BRAKE - NYLON TUBING**

BRASS FITTINGS

MADE IN THE USA

**MALE ADAPTER**

SAE# 100102BA

SAE PATTERN	
MAF #	TUBE O.D. X MALE NPTF
NT68-42VS	1/4" x 1/8"
NT68-44VS	1/4" x 1/4"
NT68-46VS	1/4" x 3/8"
NT68-62VS	3/8" x 1/8"
NT68-64VS	3/8" x 1/4"
NT68-66VS	3/8" x 3/8"
NT68-68VS	3/8" x 1/2"
NT68-84VS	1/2" x 1/4"
NT68-86VS	1/2" x 3/8"
NT68-88VS	1/2" x 1/2"
NT68-106VS	5/8" x 3/8"
NT68-108VS	5/8" x 1/2"
NT68-1012VS	5/8" x 3/4"
NT68-128VS	3/4" x 1/2"
NT68-1212VS	3/4" x 3/4"

**MALE ELBOW**

SAE# 100202BA

SAE PATTERN	
MAF #	TUBE O.D. X MALE NPTF
NT69-42VS	1/4" x 1/8"
NT69-44VS	1/4" x 1/4"
NT69-46VS	1/4" x 3/8"
NT69-62VS	3/8" x 1/8"
NT69-64VS	3/8" x 1/4"
NT69-66VS	3/8" x 3/8"
NT69-68VS	3/8" x 1/2"
NT69-84VS	1/2" x 1/4"
NT69-86VS	1/2" x 3/8"
NT69-88VS	1/2" x 1/2"
NT69-106VS	5/8" x 3/8"
NT69-108VS	5/8" x 1/2"
NT69-1012VS	5/8" x 3/4"
NT69-128VS	3/4" x 1/2"
NT69-1212VS	3/4" x 3/4"

**FEMALE ELBOW**

SAE# 100203BA

SAE PATTERN	
MAF #	TUBE O.D. X FEMALE NPTF
NT70-44	1/4" x 1/4"
NT70-86	1/2" x 3/8"
NT70-108	5/8" x 1/2"

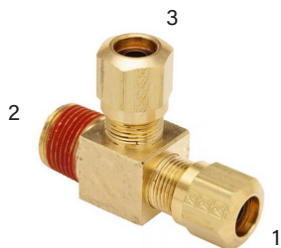
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# D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MADE IN THE USA

## MALE RUN TEE



SAE# 100424BA

SAE PATTERN	
MAF #	TUBE O.D. X MALE NPTF X TUBE O.D. 1 X 2 X 3
NT71-42VS	1/4" x 1/8" x 1/4"
NT71-44VS	1/4" x 1/4" x 1/4"
NT71-644VS	3/8" x 1/4" x 1/4"
NT271X6X6VS	3/8" x 3/8" x 3/8"
NT71-86VS	1/2" x 3/8" x 1/2"

## MALE BRANCH TEE



SAE# 100425BA

SAE PATTERN	
MAF #	TUBE O.D. X TUBE O.D. X MALE NPTF 1 X 2 X 3
NT72-42VS	1/4" x 1/4" x 1/8"
NT72-44VS	1/4" x 1/4" x 1/4"
NT272X6VS	3/8" x 3/8" x 1/4"
NT272X6X6VS	3/8" x 3/8" x 3/8"
NT272X8X4VS	1/2" x 1/2" x 1/4"
NT72-86VS	1/2" x 1/2" x 3/8"
NT72-88VS	1/2" x 1/2" x 1/2"

## 45° ELBOW



SAE# 100302BA

SAE PATTERN	
MAF #	TUBE O.D. X MALE NPTF
NT6945-42VS	1/4" x 1/8"
NT6945-44VS	1/4" x 1/4"
NT6945-62VS	3/8" x 1/8"
NT6945-64VS	3/8" x 1/4"
NT6945-66VS	3/8" x 3/8"
NT6945-68VS	3/8" x 1/2"
NT6945-84VS	1/2" x 1/4"
NT6945-86VS	1/2" x 3/8"
NT6945-88VS	1/2" x 1/2"
NT6945-106VS	5/8" x 3/8"
NT6945-108VS	5/8" x 1/2"

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# D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

MADE IN THE USA

## D.O.T. AIR BRAKE REUSABLE HOSE/ FITTINGS



A MIDLAND INDUSTRIES COMPANY



### •Typical Application

Air Brake hose connections.  
Meets SAE & DOT specifications  
(FMVCS 10 GAL)

### •Pressure

Determined by maximum working pressure for hose size. Up to 125 psi

Temperature: -40°F to + 120° F ( -40°C to +48°C )

### •Advantages

Can be used for nearly any brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

### • Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

### •Assembly Instructions

- 1- Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces toward fitting.
- 2- Push hose into fitting until it bottoms.
- 3- Screw nut until contact is made with body hex.

NOTE: When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should never be reused.

### SLEEVE

FERRULE



MAF #	HOSE I.D. SIZE
HE60-6	3/8"
HE60-8	1/2"

### NUT



MAF #	HOSE I.D. SIZE
HE61-6	3/8"
HE61-8	1/2"

### NUT FOR USE WITH SPRING



MAF #	HOSE I.D. SIZE	THREAD
HE61N-6	3/8"	31/32-20
HE61N-8	1/2"	1-3/32-20



# D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

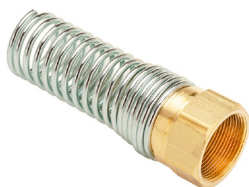
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## SPRING



MAF #	HOSE I.D.
HE61G-6	3/8"
HE61G-8	1/2"

## NUT AND SPRING ASSEMBLY



MAF #	HOSE I.D. SIZE
HE61NG-6	3/8"
HE61NG-8	1/2"

## UNION



MAF #	HOSE I.D.	THREAD
HE62-6	3/8"	31/32-20
HE62-8	1/2"	1-1/8-20



BODY ONLY

MAF #	HOSE I.D.	THREAD
HE62B-6	3/8"	31/32-20
HE62B-8	1/2"	1-1/8-20

## FEMALE CONNECTOR HOSE



MAF #	HOSE I.D. X FEMALE ABS
HE68SB-6	3/8" x 3/4-20
HE68SB-8	1/2" x 7/8-20

## MALE CONNECTOR



MAF #	HOSE I.D. X MALE PIPE
HE68S-64	3/8" x 1/4"
HE68S-66	3/8" x 3/8"
HE68S-68	3/8" x 1/2"
HE68S-86	1/2" x 3/8"
HE68S-88	1/2" x 1/2"

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MID-AMERICA FITTINGS

**D.O.T. AIR BRAKE - HOSE/ENDS**

BRASS FITTINGS

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**ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED ON**

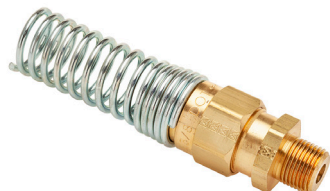
MAF #	MALE ABS X MALE PIPE	ABS THREAD
1390-64	3/8" x 1/4"	3/4-20
1390-66	3/8" x 3/8"	3/4-20
1390-68	3/8" x 1/2"	3/4-20
1390-86	1/2" x 3/8"	7/8-20
1390-88	1/2" x 1/2"	7/8-20

**MALE ADAPTER**

MAF #	HOSE I.D. X MALE PIPE
HE68-64	3/8" x 1/4"
HE68-66	3/8" x 3/8"
HE68-68	3/8" x 1/2"
HE68-86	1/2" x 3/8"
HE68-88	1/2" x 1/2"

**ADAPTER BODY**

MAF #	HOSE I.D. X MALE PIPE
HE68B-64	3/8" x 1/4"
HE68B-66	3/8" x 3/8"
HE68B-68	3/8" x 1/2"
HE68B-86	1/2" x 3/8"
HE68B-88	1/2" x 1/2"

**MALE ADAPTER WITH SPRING**

MAF #	HOSE I.D. X MALE PIPE
HE68G-64	3/8" x 1/4"
HE68G-66	3/8" x 3/8"
HE68G-68	3/8" x 1/2"
HE68G-86	1/2" x 3/8"
HE68G-88	1/2" x 1/2"

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**MID-AMERICA  
FITTINGS, LLC.**



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## LEAD FREE SOLUTIONS

**Mid-America Fittings also provides many Lead Free solutions, including:**

Lead Free Brass Pipe Fittings - AB1953/S3874 Compliant

Lead Free Brass Flare Fittings - AB1953/S3874 Compliant

Lead Free Brass Compression Fittings - AB1953/S3874 Compliant

Lead Free Hose Barb Fittings - AB1953/S3874 Compliant

Lead Free Garden Hose Fittings - AB1953/S3874 Compliant

Shop our Full Line of Lead Free Options at [www.midamerica fittings.com/lead-free-fittings](http://www.midamerica fittings.com/lead-free-fittings)

Or contact us and let us manufacture your Domestic Lead Free Fittings today!

### What is the new lead-free requirement?

In 2011, the Reduction of Lead in Drinking Water Act was signed into law. The Act has reduced the lead content allowed in drinking water system and plumbing materials by changing the definition of "lead-free" in Section 1417 of the Safe Drinking Water Act.

*The term "lead-free" has been updated from not more than 8% lead content to mean "not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures."*

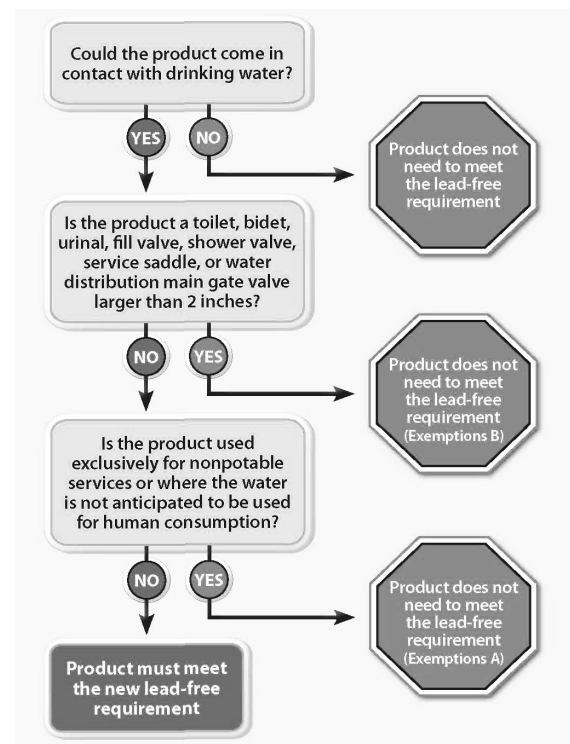
### How do I know which products must meet the new lead-free requirement?

The prohibitions on use and introduction into commerce apply to all pipe, pipe fittings, plumbing fittings, and fixtures (henceforth referred to as "products"), including stocked inventories that have not been installed. This includes coated or uncoated brass or bronze materials. By using the flowchart below as a guide, you can determine if a product must meet the new lead-free requirement:

#### Lead-Free Requirement Exemptions

(A) The new requirement does not apply to pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable service such as manufacturing, industrial processing, irrigation, outdoor watering or any other uses where the water is not anticipated to be used for human consumption.

(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.







 A MIDLAND INDUSTRIES COMPANY

Based in Overland Park, Kansas, a suburb of Kansas City, Mid-America Fittings, LLC (MAF) is a leading manufacturer of engineered, professional grade, brass fittings, valves and custom components used by OEM's, as well as industrial, marine, institutional and plumbing wholesale distributors.



## FOR MORE INFORMATION

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### VISIT US

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