# BRASS PIPE FITTINGS

| | |
|---|---|
| **CONSTRUCTION** | • CA360, CA345, CA3604, CA377 Brass |
| **APPLICATIONS** | • Use with brass, copper or iron pipe |
| **RANGES** | •Temperature Range: 65° to +250° F.<br>• Pressure Range: Up to 1000 PSI |

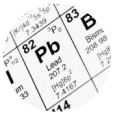
**Pipe Thread Assembly:**
**Straight Fittings:**
1. Hand Tighten
2. 1/8" to 1/2": Wrench Tight 2 Full 360° Turns
   1/2" & Above: 1 1/2" Full Turns

**Shaped Fittings:**
1. Hand Tighten
2. Wrench Tight 1" to 1 1⁄2" Full 360° Turns

**For NPTF Pipe Threads with Pre-Applied Sealant*

## ORDERING INFORMATION

- Parts that include "F" in the part number, for example, 101AF-A, are supplied forgings.
- Parts that include "PBF" or "LF" are supplied as low lead compliant fittings.
- Part number without the "PBF" distinction are NOT lead free compliant.
- Nomenclature Example:



Type of Fitting: 90° Female Pipe Elbow
Pipe Thread: 1/4"
Pipe Thread: 1/8"

**100A-BA**

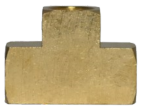
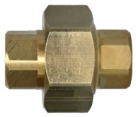
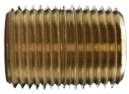
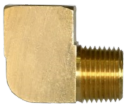
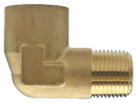
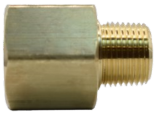
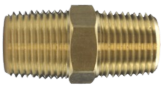
**Quality Matters!**
Our Pipe Threads are made with the proper wall thickness and are made to dry-seal specifications.

## NOTES

- Non-stock items and special parts are available on a quotation basis.
- Configurations and dimensions are subject to change without notice.

⚠ **WARNING:** Products offered by Robo-Fit can expose you to chemicals such as lead, a chemical which is known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov

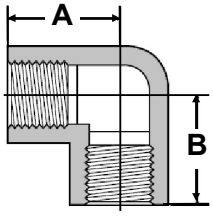
# BRASS PIPE FITTINGS

| | | | | | |
|---|---|---|---|---|---|
| **100A**<br>90° Female Elbow<br> | **100-45A**<br>45° Female Elbow<br> | **101A**<br>Female Pipe Tee<br>  | **102A**<br>Female Cross Tee<br> | **103A**<br>Female Coupling<br> | **104A**<br>Ground Joint<br>  |
| **108A**<br>Pipe Cap<br> | **109A (Cored)**<br>Square Head Plug<br> | **109AS (Solid)**<br>Square Head Plug<br> | **109CS**<br>Counter Sunk Plug<br> | **110FB**<br>Face Bushing<br> | **110A**<br>Hex Bushing<br> |
| **111A**<br>Lock Nut<br> | **112A**<br>Close Nipple<br>  | **113A**<br>Yellow Brass Nipple<br> | **113RB**<br>Red Brass Nipple<br> | **116A**<br>90° Street Elbow<br>  | **116AL**<br>90° Long Street Elbow<br>  |
| **116AM**<br>90° Male Elbow<br> | **117A**<br>Slotted Plug<br> | **119A**<br>Reducer<br> | **120A**<br>Adapter<br>  | **121A (Cored)**<br>Hex Head Plug<br> | **121AS (Solid)**<br>Hex Head Plug<br> |
| **122A**<br>Hex Nipple<br>  | **123A**<br>Hex Reducing Nipple<br> | **124A**<br>45° Street Elbow<br> | **127A**<br>Street Tee<br> | **127S**<br>Street Tee (FXMXM)<br> | **T9**<br>Branch Tee<br> |
| **T12**<br>Male Tee<br> | **129A**<br>Bulkhead<br> | | | | |

## **100A** 90° ELBOW FPT TO FPT

| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 100A-A | 1/8” | .59 | .59 |
| 100AF-A | 1/8” | .58 | .58 |
| 100A-B | 1/4” | .78 | .78 |
| 100AF-B | 1/4” | .72 | .72 |
| 100A-BA | 1/4” x 1/8” | .72 | .72 |
| 100A-C | 3/8” | .84 | .84 |
| 100A-CB | 3/8” x 1/4” | .84 | .84 |
| 100AF-CB | 3/8” x 1/4” | .81 | .81 |
| 100A-D | 1/2” | .84 | .84 |
| 100AF-D | 1/2” | 1.00 | 1.00 |
| 100A-DC | 1/2” x 3/8” | 1.00 | 1.00 |
| 100AF-DC | 1/2” x 3/8” | 1.00 | 1.00 |
| 100A-E | 3/4” | 1.18 | 1.18 |
| 100AF-E | 3/4” | 1.10 | 1.10 |

**REF SAE 130238**



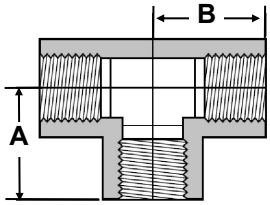
**Forged Style**

**Barstock Style**

## **101A** TEE FPT ALL ENDS

| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 101A-A | 1/8” | .56 | .56 |
| 101AF-A | 1/8” | .56 | .56 |
| 101A-B | 1/4” | .75 | .75 |
| 101AF-B | 1/4” | .72 | .72 |
| 101A-BBA | 1/4” x 1/4” x 1/8” | .69 | .69 |
| 101A-C | 3/8” | .84 | .84 |
| 101AF-C | 3/8” | .84 | .84 |
| 101A-CCB | 3/8” x 3/8” x 1/4” | .80 | .85 |
| 101A-D | 1/2” | 1.09 | 1.09 |
| 101AF-D | 1/2” | .98 | .98 |
| 100A-DDC | 1/2” x 1/2” x 3/8” | 1.00 | 1.00 |
| 101A-E | 3/4” | 1.18 | 1.18 |
| 101AF-E | 3/4” | 1.13 | 1.13 |

**REF SAE 130438**

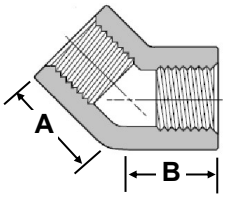


**Forged Style**

**Barstock Style**

## **100-45A** ELBOW 45° FPT TO FPT

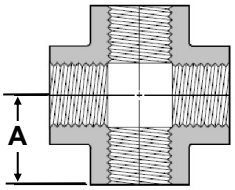
| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 100-45A-A | 1/8” | .46 | .46 |
| 100-45A-B | 1/4” | .64 | .64 |
| 100-45A-C | 3/8” | .61 | .61 |
| 100-45A-D | 1/2” | .91 | .91 |
| 100-45A-E | 3/4” | 1.00 | 1.00 |



**Barstock Style**

## **102A** CROSS FPT ALL ENDS

| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 102A-A | 1/8” | .65 |
| 102AF-A | 1/8” | .52 |
| 102A-B | 1/4” | .78 |
| 102AF-B | 1/4” | .66 |
| 102A-C | 3/8” | .98 |
| 102AF-C | 3/8” | .82 |
| 102AF-D | 1/2” | 1.08 |
| 102A-D | 1/2” | 1.07 |
| 102AF-E | 3/4” | 1.18 |

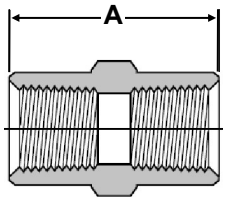


**Forged Style**

**Barstock Style**

## **103A** COUPLING FPT TO FPT

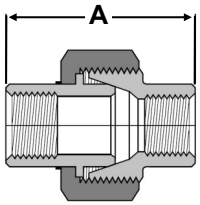
| PART NUMBER | PIPE THREAD | A | HEX |
|---|---|---|---|
| 103AH-A | 1/8” | .75 | 9/16” |
| 103AH-B | 1/4” | 1.12 | 3/4” |
| 103AH-C | 3/8” | 1.12 | 7/8” |
| 103AH-D | 1/2” | 1.50 | 1-1/16” |
| 103AH-E | 3/4” | 1.53 | 1-3/8” |

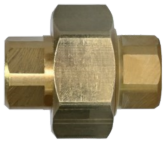


**REF SAE 130138**

## **104A** GROUND JOINT UNION FPT TO FPT

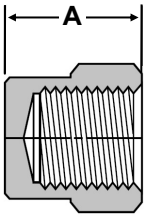
| PART NUMBER | PIPE THREAD | A | HEX |
|---|---|---|---|
| 104A-A | 1/8” | 1.19 | 9/16” |
| 104A-B | 1/4” | 1.22 | 11/16” |
| 104A-C | 3/8” | 1.72 | 11/16” |
| 104A-D | 1/2” | 1.78 | 15/16” |
| 104A-E | 3/4” | 1.88 | 1-1/4” |



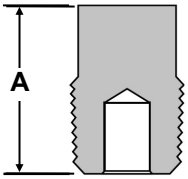
## **108A** PIPE CAP

| PART NUMBER | PIPE THREAD | A | HEX |
|---|---|---|---|
| 108A-A | 1/8” | .47 | 9/16” |
| 108A-B | 1/4” | .59 | 11/16” |
| 108A-C | 3/8” | .69 | 13/16” |
| 108A-D | 1/2” | .78 | 15/16” |
| 108A-E | 3/4” | .94 | 1-1/4” |



## **109A** SQUARE HEAD PLUG CORED

| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 109A-A | 1/8” | .58 |
| 109A-B | 1/4” | .70 |
| 109A-C | 3/8” | .73 |
| 109A-D | 1/2” | .93 |
| 109A-E | 3/4” | 1.00 |
| 109A-F | 1” | 1.20 |

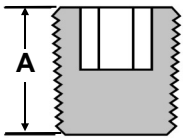


## **109AS** SQUARE HEAD PLUG

| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 109AS-D | 1/2” | .93 |
| 109AS-E | 3/4” | 1.00 |
| 109AS-F | 1” | 1.20 |

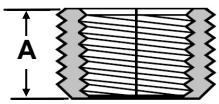
## **109CS** COUNTER-SUNK PLUG

| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 109CS-A | 1/8” | .30 |
| 109CS-B | 1/4” | .45 |
| 109CS-C | 3/8” | .45 |
| 109CS-D | 1/2” | .60 |
| 109CS-E | 3/4” | .55 |



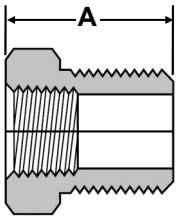
## **110FB** FACE BUSHING

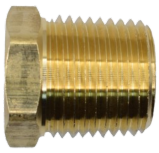
| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 110FB-CB | 3/8” x 1/4” | .50 |
| 110FB-DB | 1/2” x 1/4” | .53 |
| 110FB-DC | 1/2” x 3/8” | .53 |
| 110FB-ED | 3/4” x 1/2” | .55 |



## **110A** HEX BUSHING

| PART NUMBER | PIPE THREAD | A | HEX |
|---|---|---|---|
| 110A-BA | 1/4” x 1/8” | .62 | 9/16” |
| 110AH-BA | 1/4” x 1/8” | .75 | 9/16” |
| 110A-CA | 3/8” x 1/8” | .69 | 11/16” |
| 110AH-CA | 3/8” x 1/8” | .75 | 11/16” |
| 110A-CB | 3/8” x 1/4” | .69 | 11/16” |
| 110AH-CB | 3/8” x 1/4” | .75 | 3/4” |
| 110A-DA | 1/2” x 1/8” | .81 | 13/16” |
| 110AH-DA | 1/2” x 1/8” | 1.00 | 7/8” |
| 110A-DB | 1/2” x 1/4” | .81 | 13/16” |
| 110AH-DB | 1/2” x 1/4” | 1.00 | 7/8” |
| 110A-DC | 1/2” x 3/8” | .81 | 13/16” |
| 110AH-DC | 1/2” x 3/8” | 1.00 | 7/8” |
| 110A-EA | 3/4” x 1/8” | .94 | 1-1/16” |
| 110AH-EA | 3/4” x 1/8” | 1.00 | 1-1/8” |
| 110A-EB | 3/4” x 1/4” | .94 | 1-1/16” |
| 110AH-EB | 3/4” x 1/4” | 1.00 | 1-1/8” |
| 110A-EC | 3/4” x 3/8” | .94 | 1-1/16” |
| 110AH-EC | 3/4” x 3/8” | 1.00 | 1-1/8” |
| 110A-ED | 3/4” x 1/2” | .94 | 1-1/16” |
| 110AH-ED | 3/4” x 1/2” | 1.00 | 1-1/8” |
| 110A-FB | 1” x 1/4” | 1.12 | 1-3/8” |
| 110A-FC | 1” x 3/8” | 1.12 | 1-3/8” |
| 110A-FD | 1” x 1/2” | 1.12 | 1-3/8” |
| 110A-FE | 1” x 3/4” | 1.12 | 1-3/8” |

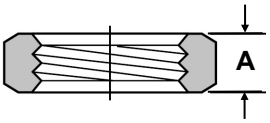


**REF SAE 130140 (AH Style)**

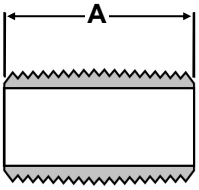
## **111A** LOCK NUT

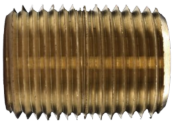
| PART NUMBER | PIPE THREAD | A | HEX |
|---|---|---|---|
| 111A-A | 1/8” | .19 | 11/16” |
| 111A-B | 1/4” | .25 | 7/8” |
| 111A-C | 3/8” | .31 | 1” |
| 111A-D | 1/2” | .25 | 1-1/8” |
| 111A-E | 3/4” | .33 | 1-1/2” |



## **112A** CLOSE NIPPLE

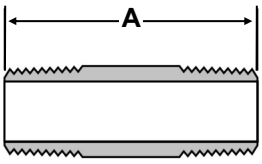
| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 112A-A | 1/8” | .75 |
| 112A-B | 1/4” | .88 |
| 112A-C | 3/8” | 1.00 |
| 112A-D | 1/2” | 1.12 |
| 112A-E | 3/4” | 1.31 |
| 112A-F | 1” | 1.31 |



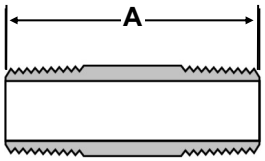
## **113A** LONG NIPPLE (YELLOW BRASS)

| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 113A-A15 | 1/8” | 1-1/2” |
| 113A-B15 | 1/4” | 1-1/2” |
| 113A-C15 | 3/8” | 1-1/2” |
| 113A-D15 | 1/2” | 1-1/2” |
| 113A-E15 | 3/4” | 1-1/2” |
| 113A-A2 | 1/8” | 2” |
| 113A-B2 | 1/4” | 2” |
| 113A-C2 | 3/8” | 2” |
| 113A-D2 | 1/2” | 2” |
| 113A-A25 | 1/8” | 2.5” |
| 113A-B25 | 1/4” | 2.5” |
| 113A-C25 | 3/8” | 2.5” |
| 113A-D25 | 1/2” | 2.5” |
| 113A-E25 | 3/4” | 2.5” |
| 113A-E3 | 3/4” | 3” |



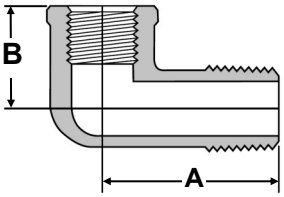
## **113RB** LONG NIPPLE (RED BRASS)

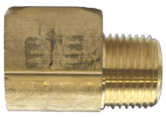
| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 113RB-A25 | 1/8” | 2-1/2” |
| 113RB-B25 | 1/4” | 2-1/2” |
| 113RB-C25 | 3/8” | 2-1/2” |
| 113RB-D25 | 1/2” | 2-1/2” |
| 113RB-E25 | 3/4” | 2-1/2” |
| 113RB-A3 | 1/8” | 3” |
| 113RB-B3 | 1/4” | 3” |
| 113RB-C3 | 3/8” | 3” |
| 113RB-D3 | 1/2” | 3” |
| 113RB-E3 | 3/4” | 3” |
| 113RB-A35 | 1/8” | 3-1/2” |
| 113RB-B35 | 1/4” | 3-1/2” |
| 113RB-C35 | 3/8” | 3-1/2” |
| 113RB-D35 | 1/2” | 3-1/2” |
| 113RB-E35 | 3/4” | 3-1/2” |
| 113RB-A4 | 1/8” | 4” |
| 113RB-B4 | 1/4” | 4” |
| 113RB-C4 | 3/8” | 4” |
| 113RB-D4 | 1/2” | 4” |
| 113RB-E4 | 3/4” | 4” |
| 113RB-A45 | 1/8” | 4-1/2” |
| 113RB-B45 | 1/4” | 4-1/2” |
| 113RB-C45 | 3/8” | 4-1/2” |
| 113RB-D45 | 1/2” | 4-1/2” |
| 113RB-E45 | 3/4” | 4-1/2” |
| 113RB-A5 | 1/8” | 5” |
| 113RB-B5 | 1/4” | 5” |
| 113RB-C5 | 3/8” | 5” |
| 113RB-D5 | 1/2” | 5” |
| 113RB-E5 | 3/4” | 5” |
| 113RB-A55 | 1/8” | 5-1/2” |
| 113RB-B55 | 1/4” | 5-1/2” |
| 113RB-C55 | 3/8” | 5-1/2” |
| 113RB-D55 | 1/2” | 5-1/2” |
| 113RB-E55 | 3/4” | 5-1/2” |
| 113RB-A6 | 1/8” | 6” |
| 113RB-B6 | 1/4” | 6” |
| 113RB-C6 | 3/8” | 6” |
| 113RB-D6 | 1/2” | 6” |
| 113RB-E6 | 3/4” | 6” |



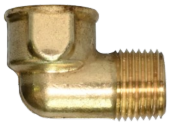
## **116A** 90° STREET ELBOW

| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 116A-A | 1/8” | .62 | .35 |
| 116AF-A | 1/8” | .81 | .56 |
| 116A-A-BK | 1/8” | .62 | .48 |
| 116A-B | 1/4” | .78 | .43 |
| 116AF-B | 1/4” | .86 | .44 |
| 116A-B-BK | 1/4” | .91 | .72 |
| 116A-C | 3/8” | 1.00 | .89 |
| 116AF-C | 3/8” | .98 | .68 |
| 116A-C-BK | 3/8” | .97 | .78 |
| 116A-D | 1/2” | 1.25 | 1.03 |
| 116AF-D | 1/2” | 1.43 | .94 |
| 116A-D-BK | 1/2” | 1.25 | 1.03 |
| 116A-E | 3/4” | 1.40 | 1.08 |
| 116AF-E | 3/4” | 1.50 | .91 |
| 116A-E-BK | 3/4” | 1.39 | 1.10 |

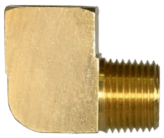


**Mailbox Style**



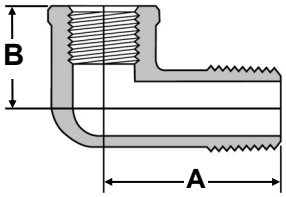
**Forged Style**

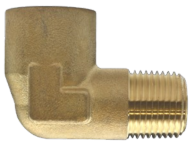


**Block Style**

## **116AL** STREET ELBOW LONG PATTERN

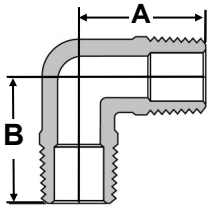
| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 116AL-A | 1/8” | .80 | .46 |
| 116AL-B | 1/4” | 1.10 | .68 |
| 116AL-C | 3/8” | 1.29 | .95 |



## **116AM** MALE ELBOW

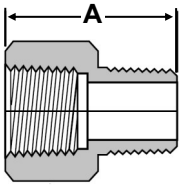
| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 116AM-A | 1/8” | .69 | 69 |
| 116AMF-A | 1/8” | .71 | .71 |
| 116AM-B | 1/4” | .88 | .88 |
| 116AMF-B | 1/4” | 1.09 | 1.09 |
| 116AMF-BA | 1/4” x 1/8” | .77 | .95 |
| 116AM-C | 3/8” | 1.06 | 1.06 |
| 116AM-CB | 3/8” x 1/4” | .92 | .92 |
| 116AM-D | 1/2” | 1.40 | 1.40 |
| 116AMF-D | 1/2” | 1.41 | 1.41 |
| 116AM-DC | 1/2” x 3/8” | 1.02 | 1.12 |

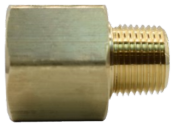


**Forged Style Shown: 116AMF-A**

## **120A** ADAPTER FPT TO MPT

| PART NUMBER | PIPE THREAD | A | Hex |
|---|---|---|---|
| 120AH-AA | 1/8” x 1/8” | .87 | 9/16” |
| 120AH-BA | 1/4” x 1/8” | 1.06 | 3/4” |
| 120AH-BB | 1/4” x 1/4” | 1.06 | 3/4” |
| 120A-CA | 3/8” x 1/8” | 1.00 | 3/4” |
| 120AH-CB | 3/8” x 1/4” | 1.25 | 7/8” |
| 120AH-CC | 3/8” x 3/8” | 1.25 | 1.06 |
| 120AH-DB | 1/2” x 1/4” | 1.46 | 1-1/16” |
| 120AH-DC | 1/2” x 3/8” | 1.46 | 1-1/16” |
| 120AH-DD | 1/2” x 1/2” | 1.65 | 1-1/16” |
| 120A-ED | 3/4” x 1/2” | 1.22 | 1-1/4” |

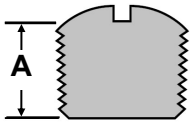


**REF SAE 130139 (AH Style)**

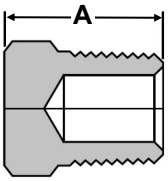
## **117A** SLOTTED PLUG

| PART NUMBER | PIPE THREAD | A |
|---|---|---|
| 117A-A | 1/8” | .30 |
| 117A-B | 1/4” | .45 |
| 117A-C | 3/8” | .45 |



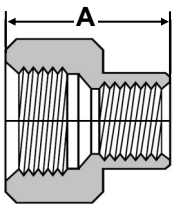
## **121A** HEX HEAD PLUG CORED

| PART NUMBER | PIPE THREAD | A | Hex |
|---|---|---|---|
| 121A-A | 1/8” | .56 | 7/16” |
| 121A-B | 1/4” | .62 | 9/16” |
| 121A-C | 3/8” | .72 | 11/16” |
| 121A-D | 1/2” | .81 | 7/8” |
| 121A-E | 3/4” | .84 | 1-1/16” |
| 121A-F | 1” | 1.12 | 1-3/16” |



## **119A** REDUCER FPT TO FPT

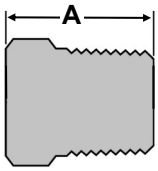
| PART NUMBER | PIPE THREAD | A | Hex |
|---|---|---|---|
| 119AH-BA | 1/4” x 1/8” | .96 | 3/4” |
| 119A-CA | 3/8” x 1/8” | 1.00 | 3/4” |
| 119AH-CB | 3/8” x 1/4” | 1.16 | 7/8” |
| 119A-DA | 1/2” x 1/8” | 1.19 | 15/16” |
| 119AH-DB | 1/2” x 1/4” | 1.38 | 1-1/16” |
| 119AH-DC | 1/2” x 3/8” | 1.38 | 1-1/16” |
| 119A-ED | 3/4” x 1/2” | 1.19 | 1-1/4” |
| 119AH-ED | 3/4” x 1/2” | 1.50 | 1-3/8” |



**REF SAE 130138 (AH Style)**

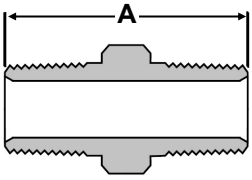
## **121AS** HEX HEAD PLUG SOLID

| PART NUMBER | PIPE THREAD | A | Hex |
|---|---|---|---|
| 121AS-A | 1/8” | .56 | 7/16” |
| 121AS-B | 1/4” | .62 | 9/16” |
| 121AS-C | 3/8” | .72 | 11/16” |
| 121AS-D | 1/2” | .81 | 7/8” |
| 121AS-E | 3/4” | .94 | 1-1/16” |

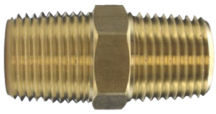


## **122A** HEX NIPPLE

| PART NUMBER | PIPE THREAD | A | Hex |
|---|---|---|---|
| 122AH-A | 1/8” | .97 | 7/16” |
| 122AH-B | 1/4” | 1.37 | 9/16” |
| 122AH-C | 3/8” | 1.40 | 11/16” |
| 122AH-D | 1/2” | 1.81 | 7/8” |
| 122AH-E | 3/4” | 1.96 | 1-1/8” |

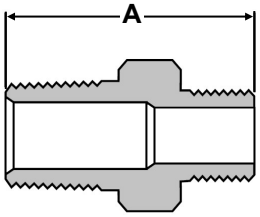



**REF SAE 130137**

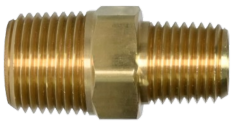


## **123A** HEX REDUCING NIPPLE

| PART NUMBER | PIPE THREAD | A | Hex |
|---|---|---|---|
| 123AH-BA | 1/4” x 1/8” | 1.18 | 9/16” |
| 123AH-CA | 3/8” x 1/8” | 1.21 | 11/16” |
| 123AH-CB | 3/8” x 1/4” | 1.40 | 11/16” |
| 123AH-DB | 1/2” x 1/4” | 1.62 | 7/8” |
| 123AH-DC | 1/2” x 3/8” | 1.62 | 7/8” |
| 123A-ED | 3/4” x 1/2” | 1.50 | 1-1/16” |

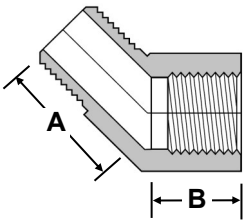



**REF SAE 130137 (AH Style)**



## **124A** STREET ELBOW 45°

| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 124A-A | 1/8” | .38 | .50 |
| 124A-B | 1/4” | .74 | .55 |
| 124A-C | 3/8” | .78 | .56 |
| 124A-D | 1/2” | .98 | .74 |
| 124A-E | 3/4” | 1.125 | .75 |

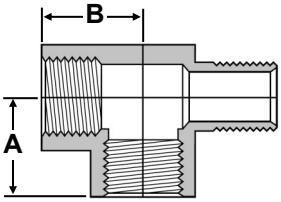



**REF SAE 130339**

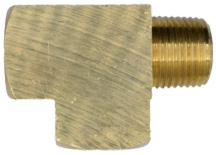
**Forged Style Shown: 124AF-A**

## **127A** STREET TEE FPT TO MPT TO FPT

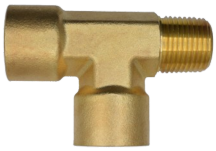
| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| 127A-A | 1/8” | .55 | .56 |
| 127A-B | 1/4” | .78 | .91 |
| 127A-C | 3/8” | .84 | 1.03 |
| 127A-D | 1/2” | 1.16 | 1.16 |




**REF SAE 130339**

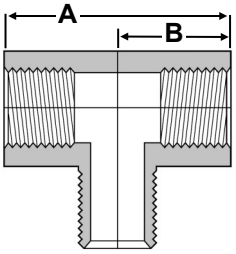


**Forged Style Shown: 127AF-D**



## **T9** BRANCH TEE FPT TO FPT TO MPT

| PART NUMBER | PIPE THREAD | A | B |
|---|---|---|---|
| T9-222 | 1/8” | .62 | .31 |
| T9-444 | 1/4” | 1.50 | .75 |
| T9-666 | 3/8” | 1.60 | .80 |
| T9-888 | 1/2” | 2.14 | 1.07 |

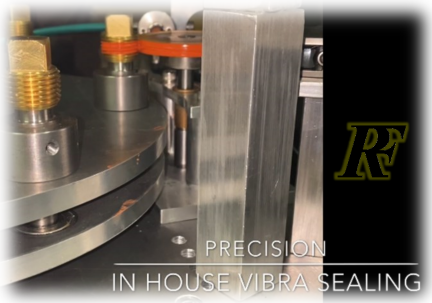


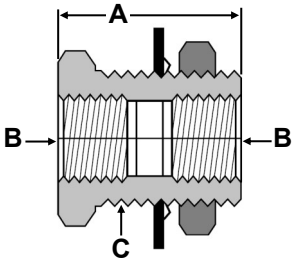
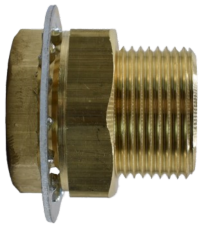
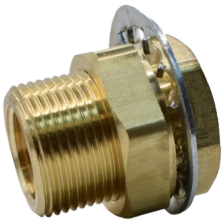
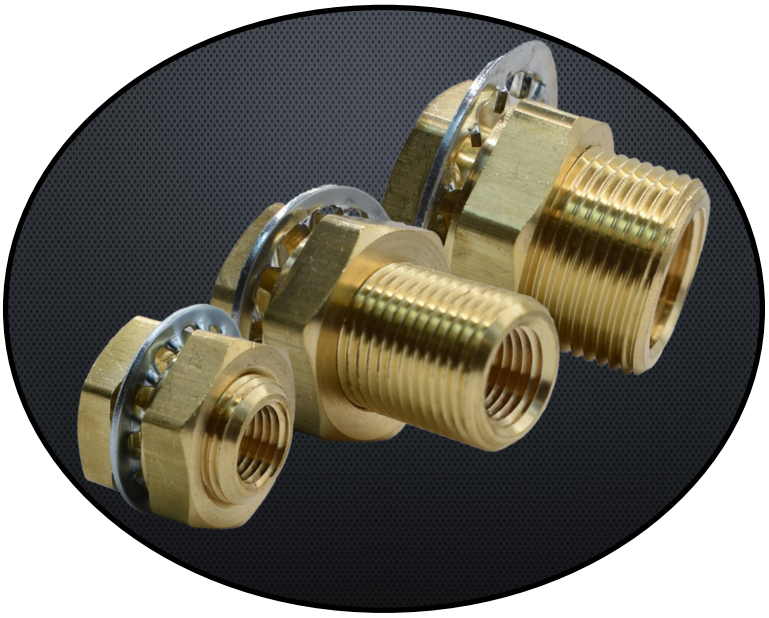

**REF SAE 130425**

**Pre-Applied Thread Sealant Available**

**Want thread sealant applied to your pipe ends?**

We apply our sealant in house with our custom made sealant applicator, capable of completing up to 1,000pcs per hour.



## **129A** BULKHEAD ADAPTER FPT TO FPT

| PART NUMBER | A | B | C | Body Hex | Nut Hex |
|---|---|---|---|---|---|
| 129AS-A | .96 | 1/8” FPT | 5/8”-18 | 7/8” | 15/16” |
| 129A-A | 1.50 | 1/8” FPT | 5/8”-18 | 7/8” | 15/16” |
| 129AS-B | .92 | 1/4” FPT | 3/4”-16 | 1” | 1 1/16” |
| 129A-B | 1.50 | 1/4” FPT | 3/4”-16 | 1” | 1 1/16” |
| 129A-C | 1.32 | 3/8” FPT | 1”-14 | 1 1/8” | 1 1/4” |
| 129A-D | 1.50 | 1/2” FPT | 1 1/8”-14 | 1 1/4” | 1 3/8” |
| 129A-E | 1.50 | 3/4” FPT | 1-5/16”-12 | 1 1/2” | 1 1/2” |