

**IMPERIAL EASTMAN**  
tubing & fittings

***Pneumatic Fittings  
& Tubing  
inches***



# General Information

## Fitting Descriptions

Brass Pipe

3,000 PSI

1,000 PSI



- Shapes: Brass, Forged SAE CA377 or equal
- Straights: Brass, SAE CA377 or equal
- Dryseal Threads
- Meets all SAE Brass Pipe Fittings standards

- Air Compressor Piping
- Water System Piping
- Coolant Transmission Lines

- Brass Pipe
- Iron Pipe

|                     |       |                                |                                |
|---------------------|-------|--------------------------------|--------------------------------|
| Brass Pipe Fittings | Brass | 3,000 PSI MAXIMUM <sup>2</sup> | 2,000 PSI MAXIMUM <sup>3</sup> |
|---------------------|-------|--------------------------------|--------------------------------|

### PIPE END THREADS

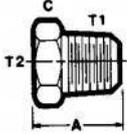
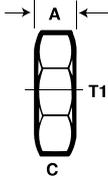
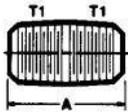
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|---------------|--------|--------|--|--------|--|--------|--|--------|--|----------|
| Pipe Fittings | 1/8-27 | 1/4-18 |  | 3/8-18 |  | 1/2-14 |  | 3/4-14 |  | 1-11 1/2 |
|---------------|--------|--------|--|--------|--|--------|--|--------|--|----------|





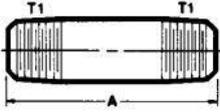
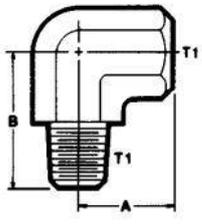
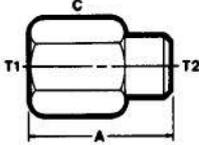
# Pipe Fittings

Material: Brass

| Style  | Part No.  | T1  | T2  | Min. Orifice Size | A     | B | Wrench Pad/Hex C |
|--|-----------|-----|-----|-------------------|-------|---|------------------|
| <b>STYLE 110B</b><br><b>Bushing</b><br>   | 110B04X02 | 1/4 | 1/8 | 0.312             | 0.750 |   | 0.562            |
|  | 110B06X02 | 3/8 | 1/8 | 0.328             | 0.750 |   | 0.688            |
|  | 110B06X04 | 3/8 | 1/4 | 0.422             | 0.750 |   | 0.750            |
|  | 110B08X02 | 1/2 | 1/8 | 0.328             | 1.000 |   | 0.875            |
|  | 110B08X04 | 1/2 | 1/4 | 0.422             | 1.000 |   | 0.875            |
|  | 110B08X06 | 1/2 | 3/8 | 0.562             | 1.000 |   | 0.875            |
|  | 110B12X06 | 3/4 | 3/8 | 0.562             | 1.000 |   | 1.125            |
|  | 110B12X08 | 3/4 | 1/2 | 0.687             | 1.000 |   | 1.125            |
| <b>STYLE 111B</b><br><b>Lock Nut</b><br>   | 111B02    | 1/8 |     |                   | 0.187 |   | 0.625            |
|  | 111B04    | 1/4 |     |                   | 0.250 |   | 0.687            |
|  | 111B06    | 3/8 |     |                   | 0.250 |   | 0.937            |
|  | 111B08    | 1/2 |     |                   | 0.250 |   | 1.125            |
| <b>STYLE 112B</b><br><b>Short Nipple</b><br><br><br>*Longer than AST or standard length | 112B02    | 1/8 |     | 0.265             | 0.750 |   |                  |
|  | *112B04   | 1/4 |     | 0.358             | 1.125 |   |                  |
|  | *112B06   | 3/8 |     | 0.422             | 1.125 |   |                  |
|  | *112B08   | 1/2 |     | 0.531             | 1.500 |   |                  |

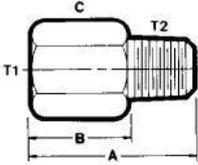
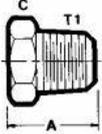
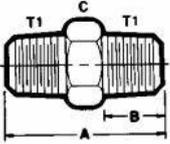
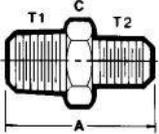
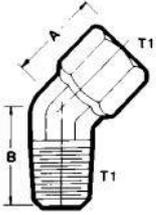
# Pipe Fittings

Material: Brass

| Style  | Part No.  | T1  | T2    | Min. Orifice Size | A     | B     | Wrench Pad/Hex C |
|--|-----------|-----|-------|-------------------|-------|-------|------------------|
| <b>STYLE 113B</b><br><b>Long Nipple</b><br>                                   | 113B02X24 | 1/8 |       | 0.265             | 1.500 |       |                  |
|  | 113B04X24 | 1/4 |       | 0.358             | 1.500 |       |                  |
|  | 113B06X24 | 3/8 |       | 0.500             | 1.500 |       |                  |
|  | 113B08X24 | 1/2 |       | 0.625             | 1.500 |       |                  |
|  | 113B02X32 | 1/8 |       | 0.265             | 2.000 |       |                  |
|  | 113B04X32 | 1/4 |       | 0.375             | 2.000 |       |                  |
|  | 113B06X32 | 3/8 |       | 0.500             | 2.000 |       |                  |
|  | 113B08X32 | 1/2 |       | 0.625             | 2.000 |       |                  |
|  | 113B02X40 | 1/8 |       | 0.281             | 2.500 |       |                  |
|  | 113B04X40 | 1/4 |       | 0.375             | 2.500 |       |                  |
|  | 113B06X40 | 3/8 |       | 0.500             | 2.500 |       |                  |
|  | 113B08X40 | 1/2 |       | 0.625             | 2.500 |       |                  |
|  | 113B02X48 | 1/8 |       | 0.281             | 3.000 |       |                  |
|  | 113B04X48 | 1/4 |       | 0.375             | 3.000 |       |                  |
|  | 113B06X48 | 3/8 |       | 0.500             | 3.000 |       |                  |
|  | 113B08X48 | 1/2 |       | 0.625             | 3.000 |       |                  |
|  | 113B02X56 | 1/8 |       | 0.281             | 3.500 |       |                  |
|  | 113B04X56 | 1/4 |       | 0.375             | 3.500 |       |                  |
| 113B06X56  | 3/8       |     | 0.500 | 3.500             |       |       |                  |
| 113B08X56  | 1/2       |     | 0.625 | 3.500             |       |       |                  |
| <b>STYLE 116B</b><br><b>Street Elbow</b><br>                                | 116B02    | 1/8 |       | 0.187             | 0.546 | 0.812 |                  |
|  | 116B04    | 1/4 |       | 0.312             | 0.718 | 1.031 |                  |
|  | 116B06    | 3/8 |       | 0.437             | 0.781 | 1.187 |                  |
|  | 116B08    | 1/2 |       | 0.562             | 1.171 | 1.437 |                  |
| <b>STYLE 117B</b><br><b>Plug (Slotted Heads)</b><br>                        | 117B02    | 1/8 |       |                   | 0.312 |       |                  |
|  | 117B04    | 1/4 |       |                   | 0.469 |       |                  |
|  | 117B06    | 3/8 |       |                   | 0.469 |       |                  |
| <b>STYLE 119B</b><br><b>Reducing Bushing</b><br><b>Female to Female</b><br> | 119B04X02 | 1/4 | 1/8   |                   | 0.970 |       | 0.750            |
|  | 119B06X04 | 3/8 | 1/4   |                   | 1.160 |       | 0.875            |
|  | 119B08X06 | 1/2 | 3/8   |                   | 1.375 |       | 1.062            |

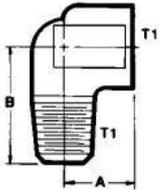
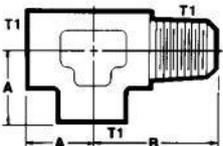
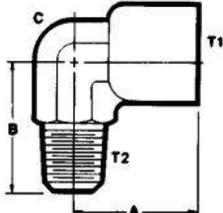
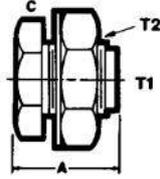
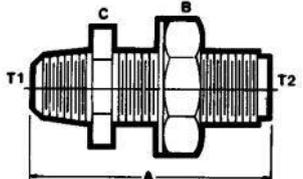
# Pipe Fittings

Material: Brass

| Style   | Part No.  | T1  | T2  | Min. Orifice Size | A     | B     | Wrench Pad/Hex C |
|---|-----------|-----|-----|-------------------|-------|-------|------------------|
| <b>STYLE 120B Adapter</b><br>            | 120B02X02 | 1/8 | 1/8 | 0.191             | 0.906 | 0.531 | 0.500            |
|   | 120B04X02 | 1/4 | 1/8 | 0.219             | 1.063 | 0.688 | 0.750            |
|   | 120B04X04 | 1/4 | 1/4 | 0.312             | 1.250 | 0.688 | 0.750            |
|   | 120B06X04 | 3/8 | 1/4 | 0.312             | 1.250 | 0.688 | 0.875            |
|   | 120B08X06 | 1/2 | 3/8 | 0.406             | 1.469 | 0.906 | 1.062            |
| <b>STYLE 121B Plug</b><br>              | 121B02    | 1/8 |     |                   | 0.531 |       | 0.437            |
|   | 121B04    | 1/4 |     |                   | 0.750 |       | 0.562            |
|   | 121B06    | 3/8 |     |                   | 0.781 |       | 0.562            |
|   | 121B08    | 1/2 |     |                   | 0.969 |       | 0.750            |
|   | 121B12    | 3/4 |     |                   | 1.062 |       | 0.750            |
| <b>STYLE 122B Hex Nipple</b><br>       | 122B02    | 1/8 |     | 0.187             | 0.906 | 0.375 | 0.437            |
|   | 122B04    | 1/4 |     | 0.312             | 1.375 | 0.562 | 0.562            |
|   | 122B06    | 3/8 |     | 0.437             | 1.406 | 0.562 | 0.687            |
|   | 122B08    | 1/2 |     | 0.562             | 1.812 | 0.750 | 0.875            |
| <b>STYLE 123B Reducing Nipple</b><br>  | 123B04X02 | 1/4 | 1/8 | 0.218             | 1.190 |       | 0.562            |
|   | 123B06X04 | 3/8 | 1/4 | 0.313             | 1.406 |       | 0.687            |
| <b>STYLE 124B 45° Street Elbow</b><br> | 124B02    | 1/8 |     | 0.218             | 0.750 | 0.687 |                  |
|   | 124B04    | 1/4 |     | 0.312             | 0.875 | 0.781 |                  |
|   | 124B06    | 3/8 |     | 0.406             | 1.000 | 0.875 |                  |
|   | 124B08    | 1/2 |     | 0.500             | 1.125 | 1.218 |                  |

# Pipe Fittings

Material: Brass

| Style   | Part No.  | T1                              | T2   | Min. Orifice Size                          | A   | B                       | Wrench Pad/Hex C                          |
|---|---|---------------------------------|--|--|---|-------------------------|---|
| <b>STYLE 126B</b><br>Elbow<br>   | 126B02  | 1/8                             |  | 0.125                                      | 0.484                                     | 0.781                   |   |
| <b>STYLE 127B</b><br>Male Run Tee<br>  | 127B02<br>127B04<br>127B06                                    | 1/8<br>1/4<br>3/8               |  | 0.187<br>0.312<br>0.406                    | 0.750<br>0.781<br>0.875                   | 0.750<br>1.156<br>1.188 |   |
| <b>STYLE 128B</b><br>Reducing Street Elbow<br>                                   | 128B04X02   | 1/4                             | 1/8  | 0.218                                      | 0.875                                     | 0.843                   | 0.500                                     |
| <b>STYLE 129B</b><br>Bulkhead Adapter<br>  | 129B02X24<br>129B04X15<br>129B04X24<br>129B06X21<br>129B08X24 | 1/8<br>1/4<br>1/4<br>3/8<br>1/2 | <b>Bulkhead Thread</b><br>5/8-18<br>3/4-16<br>3/4-16<br>1-14<br>1 1/8-14 | 0.328<br>0.421<br>0.421<br>0.562<br>0.687  | 1.500<br>0.938<br>1.250<br>1.313<br>1.500 |                         | 0.875<br>1.000<br>1.000<br>1.125<br>1.250 |
| <b>STYLE 130B</b><br>Clamping Stud<br>Male NPTF to Male NPTF and Female NPTF<br> | 130B08X04X35<br>130B08X04X41                                  | 1/2<br>1/2                      | 1/4<br>1/4   | <b>Bulkhead Thread</b><br>3/4-16<br>3/4-16 | 2.156<br>2.531                            | 1.125<br>1.125          | 1.250<br>1.250                            |

# Reference Data

## Decimal and Metric Equivalent of Fractions

|                 | Decimal | Metric |                 | Decimal | Metric |
|-----------------|---------|--------|-----------------|---------|--------|
| $\frac{1}{64}$  | .0156   | 0.397  | $\frac{33}{64}$ | .5156   | 13.097 |
| $\frac{1}{32}$  | .0313   | 0.794  | $\frac{17}{32}$ | .5313   | 13.494 |
| $\frac{3}{64}$  | .0469   | 1.191  | $\frac{35}{64}$ | .5469   | 13.891 |
| $\frac{1}{16}$  | .0625   | 1.588  | $\frac{9}{16}$  | .5625   | 14.288 |
| $\frac{5}{64}$  | .0781   | 1.984  | $\frac{37}{64}$ | .5781   | 14.684 |
| $\frac{3}{32}$  | .0938   | 2.381  | $\frac{19}{32}$ | .5938   | 15.081 |
| $\frac{7}{64}$  | .1094   | 2.778  | $\frac{39}{64}$ | .6094   | 15.478 |
| $\frac{1}{8}$   | .1250   | 3.175  | $\frac{5}{8}$   | .6250   | 15.875 |
| $\frac{9}{64}$  | .1406   | 3.572  | $\frac{41}{64}$ | .6406   | 16.272 |
| $\frac{5}{32}$  | .1562   | 3.969  | $\frac{21}{32}$ | .6562   | 16.669 |
| $\frac{11}{64}$ | .1719   | 4.366  | $\frac{43}{64}$ | .6719   | 17.066 |
| $\frac{3}{16}$  | .1875   | 4.762  | $\frac{11}{16}$ | .6875   | 17.462 |
| $\frac{13}{64}$ | .2031   | 5.159  | $\frac{45}{64}$ | .7031   | 17.859 |
| $\frac{7}{32}$  | .2188   | 5.556  | $\frac{23}{32}$ | .7188   | 18.256 |
| $\frac{15}{64}$ | .2344   | 5.953  | $\frac{47}{64}$ | .7344   | 18.653 |
| $\frac{1}{4}$   | .2500   | 6.350  | $\frac{3}{4}$   | .7500   | 19.050 |
| $\frac{17}{64}$ | .2656   | 6.747  | $\frac{49}{64}$ | .7656   | 19.447 |
| $\frac{9}{32}$  | .2812   | 7.144  | $\frac{25}{32}$ | .7812   | 19.844 |
| $\frac{19}{64}$ | .2969   | 7.541  | $\frac{51}{64}$ | .7969   | 20.241 |
| $\frac{5}{16}$  | .3125   | 7.938  | $\frac{13}{16}$ | .8125   | 20.638 |
| $\frac{21}{64}$ | .3281   | 8.334  | $\frac{53}{64}$ | .8281   | 21.034 |
| $\frac{11}{32}$ | .3438   | 8.731  | $\frac{27}{32}$ | .8438   | 21.431 |
| $\frac{23}{64}$ | .3594   | 9.128  | $\frac{55}{64}$ | .8594   | 21.828 |
| $\frac{3}{8}$   | .3750   | 9.525  | $\frac{7}{8}$   | .8750   | 22.225 |
| $\frac{25}{64}$ | .3906   | 9.922  | $\frac{57}{64}$ | .8906   | 22.822 |
| $\frac{13}{32}$ | .4062   | 10.319 | $\frac{29}{32}$ | .9062   | 23.019 |
| $\frac{27}{64}$ | .4219   | 10.716 | $\frac{59}{64}$ | .9219   | 23.416 |
| $\frac{7}{16}$  | .4375   | 11.112 | $\frac{15}{16}$ | .9375   | 23.812 |
| $\frac{29}{64}$ | .4531   | 11.509 | $\frac{61}{64}$ | .9531   | 24.209 |
| $\frac{15}{32}$ | .4688   | 11.906 | $\frac{31}{32}$ | .9688   | 24.606 |
| $\frac{31}{64}$ | .4844   | 12.303 | $\frac{63}{64}$ | .9844   | 25.003 |
| $\frac{1}{2}$   | .5000   | 12.700 | $1$             | 1.0000  | 25.400 |

