

ARMAFLEX TUBING INSULATION

Armaflex Insulation

Armaflex Insulation is a flexible elastomeric thermal insulation, black in color, supplied as unslit tubing, in nominal wall thicknesses of 3/8 inch, 1/2 inch, 3/4 inch, and 1 inch (10, 13, 19 and 25 mm) in popular sizes up to 2-1/8 inch IPS. The expanded closed-cell structure of Armaflex Insulation makes it an efficient insulation. Armaflex Insulation in 3/8 inch, 1/2 inch, 3/4 inch, and 1 inch (10, 13, 19 and 25 mm) thicknesses has a flame-spread rating of 25 or less and a smoke-developed rating of 50 or less as tested by ASTM E 84- 91A and CAN/ULC S102, "Methods of Test for Surface Burning Characteristic of Building Materials." Numerical flammability rating alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limit specified.

Resistance to Moisture Vapor Flow

The closed-cell structure of Armaflex Insulation effectively retard the flow of moisture vapor, and Armaflex is considered a low transmittance vapor retarder. Additional vapor-retarder protection may be necessary when installed on very-low-temperature piping or where exposed to continually high humidity conditions.

Uses

Armaflex Insulation is used to retard heat gain and control condensation drip from cold-water plumbing, chilled-water, and refrigeration lines. It also efficiently reduces heat flow for hot-water plumbing and liquid-heating and dual-temperature piping. The recommended temperature usage range for Armaflex Insulation is -70° F to +220° F (-57° C to 105° C). For use on cold pipes, Armaflex Insulation thicknesses have been calculated to control condensation on the insulation outer surfaces, as shown in the table of thickness recommendations. The insulation is designed for installation above ground. Indoors, no protective finish is required but may be desirable. Outdoors, a weather-resistant protective finish is to be applied.

NOTES:

- 1) On the heating cycle, ArmaFlex Pipe Insulation will withstand temperatures as high as 220° F (104° C). 520 Adhesive may be used with pipe insulation applications up to 220° F (104° C).
- 2) At -20° F (-29° C), flexible ArmaFlex Insulation becomes hard and, as temperatures drop below -20° F (-29° C), Will be increasingly brittle; however, this hardening characteristic does not affect thermal efficiency or water vapor permeability.

Application

Armaflex Pipe Insulation in unslit tubular form can be slipped onto piping before it is connected, or it can be slit lengthwise and snapped over piping already connected. Fitting covers are fabricated from miter-cut tubular form. In all cases, butt joints and seams are to be sealed with 520 Adhesive. When applied to existing lines, Armaflex's tubing insulation may be easily slit with a knife, razor blade or shears lengthwise and sealed at the cut edges and butt joints. Because of insulation flexibility, it can, in many applications, be bent around pipe elbows, eliminating the need for separate fitting application.

Additional Specifications

- ASTM C 534 Type I — Tubular
- ASTM D 105, 2B1
- MIL-C-3133C (MIL STD 670B), Grade SBE 3
- MIL-P-15280J, FORM T
- CAN/ULC S102
- CGSB CAN 2-51.40-M80
- UL 94 5VØ
- MEA 96-85-M

| Physical Properties | | Test Method |
|---|--|-----------------------|
| Thermal conductivity, Btu•in./h•ft ² •° F(W/m•K) 75° F mean temp (24° C) 90° F mean temp (32° C) | 0.27 (0.039) 0.276 (0.044) | ASTM C 177 or C 518 |
| Water vapor permeability perm-in. [Kg/s•m•Pa] | 0.08 (1.16 x 10 ⁻¹³) | ASTM E 96 Procedure A |
| Water absorption, % by weight | 0.02 | ASTM C 209 |
| Ozone resistance | Good | — |
| Upper use limit, ° F (See note 1) | 220° F (105° C) | — |
| Lower use limit, ° F (See note 2) | -70° F (-57° C) | — |
| Sizes | | |
| Wall thickness, (nominal) Inside diameter, tubular form Length of selections, feet, tubular form | 3/8 inch, 1/2 inch, 3/4 inch, 1 inch (10, 13, 19, 25 mm) 3/8 inch ID to 2-1/8 inch IPS 6 | — — — |

ARMAFLEX TUBING INSULATION

ArmaFlex® Pipe Insulation Nominal 3/8" Wall

| PART NO | Pipe Covering Size (6' Length) (in) | Tubing & Pipe Size | | | Wall Thickness – Nominal 3/8" | | |
|----------|--|------------------------------------|--|----------------|-------------------------------|----------------|--------------------|
| | | Copper Tubing-Nominal Size (in) | Copper Tubing-Outside Diameter (in) | Iron Pipe (in) | Qty 6' Tubes per Carton | Lin Ft per Ctn | Sleeving Size (in) |
| APT03838 | 3/8 ID | 1/4 | 3/8 | — | 100 | 600 | 1-1/8 ID |
| APT01238 | 1/2 ID | 3/8 | 1/2 | 1/4 | 80 | 480 | 1-3/8 ID |
| APT05838 | 5/8 ID | 1/2 | 5/8 | 3/8 | 65 | 390 | 1-3/8 ID |
| APT03438 | 3/4 ID | 5/8 | 3/4 | — | 55 | 330 | 1-5/8 ID |
| APT07838 | 7/8 ID | 3/4 | 7/8 | 1/2 | 45 | 270 | 1-5/8 ID |
| APT11838 | 1-1/8 ID | 1 | 1-1/8 | 3/4 | 35 | 210 | 1-1/2 IPS |
| APT13838 | 1-3/8 ID | 1-1/4 | 1-3/8 | 1 | 30 | 180 | 2-1/8 ID |
| APT15838 | 1-5/8 ID | 1-1/2 | 1-5/8 | 1-1/4 | 20 | 120 | 2 IPS |
| APT11038 | 1-1/2 IPS | — | — | 1-1/2 | 16 | 96 | 2-5/8 ID |
| APT21838 | 2-1/8 ID | 2 | 2-1/8 | — | 16 | 96 | 2-1/2 IPS |
| APT20038 | 2 IPS | — | — | 2 | 14 | 84 | 3-5/8 ID* |
| APT25838 | 2-5/8 ID | 2-1/2 | 2-5/8 | — | 12 | 72 | 3-5/8 ID* |
| APT21038 | 2-1/2 IPS | — | — | 2-1/2 | 10 | 60 | 4-7/8 ID*† |
| APT31838 | 3-1/8 ID | 3 | 3-1/8 | — | 9 | 54 | 4 IPS*† |
| APT30038 | 3 IPS | — | — | 3 | 7 | 42 | 5 IPS*† |

ArmaFlex® Pipe Insulation Nominal 1/2" Wall

| PART NO | Pipe Covering Size (6' Length) (in) | Tubing & Pipe Size | | | Wall Thickness – Nominal 1/2" | | |
|----------|--|------------------------------------|--|----------------|-------------------------------|----------------|--------------------|
| | | Copper Tubing-Nominal Size (in) | Copper Tubing-Outside Diameter (in) | Iron Pipe (in) | Qty 6' Tubes per Carton | Lin Ft per Ctn | Sleeving Size (in) |
| APT03812 | 3/8 ID | 1/4 | 3/8 | — | 75 | 450 | 1-3/8 ID |
| APT01212 | 1/2 ID | 3/8 | 1/2 | 1/4 | 66 | 396 | 1-3/8 ID |
| APT05812 | 5/8 ID | 1/2 | 5/8 | 3/8 | 50 | 300 | 1-5/8 ID |
| APT03412 | 3/4 ID | 5/8 | 3/4 | — | 40 | 240 | 1-1/2 IPS |
| APT07812 | 7/8 ID | 3/4 | 7/8 | 1/2 | 35 | 210 | 1-1/2 IPS |
| APT11812 | 1-1/8 ID | 1 | 1-1/8 | 3/4 | 25 | 150 | 2-1/8 ID |
| APT13812 | 1-3/8 ID | 1-1/4 | 1-3/8 | 1 | 20 | 120 | 2 IPS |
| APT15812 | 1-5/8 ID | 1-1/2 | 1-5/8 | 1-1/4 | 15 | 90 | 2-1/2 IPS |
| APT11012 | 1-1/2 IPS | — | — | 1-1/2 | 15 | 90 | 3-1/8 ID |
| APT21812 | 2-1/8 ID | 2 | 2-1/8 | — | 10 | 60 | 3-5/8 ID† |
| APT20012 | 2 IPS | — | — | 2 | 10 | 60 | 3-5/8 ID |
| APT25812 | 2-5/8 ID | 2-1/2 | 2-5/8 | — | 10 | 60 | 4-1/8 ID† |
| APT21012 | 2-1/2 IPS | — | — | 2-1/2 | 8 | 48 | 4-1/8 ID |
| APT31812 | 3-1/8 ID | 3 | 3-1/8 | — | 7 | 42 | 4 IPS† |
| APT30012 | 3 IPS | — | — | 3 | 6 | 36 | 5 IPS† |
| APT35812 | 3-5/8 ID | 3-1/2 | 3-5/8 | 3 | 6 | 36 | 5 IPS† |
| APT41812 | 4-1/8 ID | 4 | 4-1/8 | 3-1/2 | 4 | 24 | 5 IPS† |
| APT40012 | 4 IPS | — | — | 4 | 4 | 24 | Sheet |
| APT50012 | 5 ID | — | — | 5 | 2 | 12 | Sheet |
| APT60012 | 6 IPS | — | — | 6 | 2 | 12 | Sheet |

ARMAFLEX TUBING INSULATION

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ArmaFlex® Pipe Insulation Nominal 3/4" Wall

| PART NO | Pipe Covering Size (6' Length) (in) | Tubing & Pipe Size | | | Wall Thickness – Nominal 3/4" | | |
|----------|--|------------------------------------|--|----------------|-------------------------------|----------------|--------------------|
| | | Copper Tubing-Nominal Size (in) | Copper Tubing-Outside Diameter (in) | Iron Pipe (in) | Qty 6' Tubes per Carton | Lin Ft per Ctn | Sleeving Size (in) |
| APT03834 | 3/8 ID | 1/4 | 3/8 | — | 40 | 240 | 1-5/8 ID |
| APT01234 | 1/2 ID | 3/8 | 1/2 | 1/4 | 35 | 210 | 1-1/2 IPS |
| APT05834 | 5/8 ID | 1/2 | 5/8 | 3/8 | 24 | 144 | 2-1/8 ID |
| APT03434 | 3/4 ID | 5/8 | 3/4 | — | 23 | 138 | 2 IPS |
| APT07834 | 7/8 ID | 3/4 | 7/8 | 1/2 | 20 | 120 | 2 IPS |
| APT11834 | 1-1/8 ID | 1 | 1-1/8 | 3/4 | 15 | 90 | 2-1/2 IPS |
| APT13834 | 1-3/8 ID | 1-1/4 | 1-3/8 | 1 | 12 | 72 | 3-1/8 ID |
| APT15834 | 1-5/8 ID | 1-1/2 | 1-5/8 | 1-1/4 | 10 | 60 | 2-5/8 ID |
| APT11034 | 1-1/2 IPS | — | — | 1-1/2 | 10 | 60 | 3-5/8 ID |
| APT21834 | 2-1/8 ID | 2 | 2-1/8 | — | 9 | 54 | 4-1/8 ID† |
| APT20034 | 2 IPS | — | — | 2 | 8 | 48 | 4-1/8 ID |
| APT25834 | 2-5/8 ID | 2-1/2 | 2-5/8 | — | 8 | 48 | 4 IPS† |
| APT21034 | 2-1/2 IPS | — | — | 2-1/2 | 7 | 42 | 4 IPS |
| APT31834 | 3-1/8 ID | 3 | 3-1/8 | — | 6 | 36 | 5 IPS† |
| APT30034 | 3 IPS | — | — | 3 | 5 | 30 | 5 IPS† |
| APT35834 | 3-5/8 ID | 3-1/2 | 3-5/8 | 3 | 5 | 30 | 5 IPS† |
| APT41834 | 4-1/8 ID | 4 | 4-1/8 | 3-1/2 | 4 | 24 | Sheet |
| APT40034 | 4 IPS | — | — | 4 | 4 | 24 | Sheet |
| APT50034 | 5 ID | — | — | 5 | 2 | 12 | Sheet |
| APT60034 | 6 IPS | — | — | 6 | 2 | 12 | Sheet |

ArmaFlex® Pipe Insulation Nominal 1" Wall

| PART NO | Pipe Covering Size (6' Length) (in) | Tubing & Pipe Size- | | | Wall Thickness – Nominal 1" | | |
|----------|--|------------------------------------|--|----------------|-----------------------------|----------------|--------------------|
| | | Copper Tubing-Nominal Size (in) | Copper Tubing-Outside Diameter (in) | Iron Pipe (in) | Qty 6' Tubes per Carton | Lin Ft per Ctn | Sleeving Size (in) |
| APT05810 | 5/8 ID | 1/2 | 5/8 | 3/8 | 20 | 120 | 2-5/8 ID |
| APT03410 | 3/4 ID | 5/8 | 3/4 | — | 15 | 90 | 2-1/2 IPS† |
| APT07810 | 7/8 ID | 3/4 | 7/8 | 1/2 | 15 | 90 | 2-1/2 IPS |
| APT11810 | 1-1/8 ID | 1 | 1-1/8 | 3/4 | 12 | 72 | 3-5/8 ID |
| APT13810 | 1-3/8 ID | 1-1/4 | 1-3/8 | 1 | 10 | 60 | 4-1/8 ID† |
| APT15810 | 1-5/8 ID | 1-1/2 | 1-5/8 | 1-1/4 | 8 | 48 | 4-1/8 ID |
| APT11010 | 1-1/2 IPS | — | — | 1-1/2 | 7 | 42 | 4 IPS† |
| APT21810 | 2-1/8 ID | 2 | 2-1/8 | — | 6 | 36 | 4 IPS† |
| APT20010 | 2 IPS | — | — | 2 | 6 | 36 | 5 IPS† |
| APT25810 | 2-5/8 ID | 2 1/2 | 2-5/8 | — | 6 | 36 | 5 IPS† |
| APT21010 | 22-1/2 IPS | — | — | 2-1/2 | 5 | 30 | 5 IPS |
| APT31810 | 3-1/8 ID | 3 | 3-1/8 | — | 5 | 30 | 5 IPS† |
| APT30010 | 3 IPS | — | — | 3 | 4 | 24 | Sheet |
| APT35810 | 3-5/8 ID | 3-1/2 | 3-5/8 | 3 | 4 | 24 | Sheet |
| APT41810 | 4-1/8 ID | 4 | 4-1/8 | 3-1/2 | 3 | 18 | Sheet |
| APT40010 | 4 IPS | — | — | 4 | 3 | 18 | Sheet |
| APT50010 | 5 ID | — | — | 5 | 2 | 12 | Sheet |
| APT60010 | 6 IPS | — | — | 6 | 2 | 12 | Sheet |

ARMAFLEX TUBING INSULATION

ArmaFlex Sheet Insulation

| PART NO | Sheet Size and Thickness (in) | Packaging | |
|----------|-------------------------------|-------------------------------|--------------------------|
| | | Data-Qty per Ctn No Sheets | Data-Sq Ft per Carton |
| APS18043 | 36 x 48 x 1/8 Skin One Side | 8 | 576 |
| APS14043 | 36 x 48 x 1/4 Skin One Side | 24 | 288 |
| APS38043 | 36 x 48 x 3/8 Skin One Side | 16 | 192 |
| APS12043 | 36 x 48 x 1/2 Skin One Side | 2 | 144 |
| APS34043 | 36 x 48 x 3/4 Skin One Side | 8 | 96 |
| APS10043 | 36 x 48 x 1* | 6 | 72 |
| APS11243 | 36 x 48 x 1-1/2* | 4 | 48 |
| APS20043 | 36 x 48 x 2* | 3 | 36 |

ArmaFlex Insulation Tape

| PART NO | SIZE (in) |
|------------|------------------------------|
| TAP9584000 | 1/8 x 2 x 30"; 24 rolls/case |

ARMAFLEX INSULATION TAPE WITH DISPENSER

| PART NO | SIZE (in) |
|----------|------------------------------|
| TAP18230 | 1/8 x 2 x 30"; 24 rolls/case |

ArmaFlex Roll Goods (Skin Finish One Side)

APR14040

| PART NO | Packaging Data-Sq Ft per Carton | SIZE (in) |
|----------|------------------------------------|-------------------|
| APR14040 | 560 | 48 x 140' x 1/4 |
| APS38040 | 400 | 48 x 100' x 3/8 |
| APS12040 | 280 | 48 x 70' x 1/2 |
| APS34040 | 200 | 48 x 50' x 3/4 |
| APS10040 | 140 | 48 x 35' x 1* |
| APS11240 | 100 | 48 x 25" x 1-1/2* |

520 Adhesive@

| PART NO | SIZE (in) |
|-----------|--------------------|
| AAD520002 | 1/2 Pint Brush-Top |
| AAD520003 | 1 Pint |
| AAD520004 | 1 Pint Brush-Top |
| AAD520005 | 1 Quart |
| AAD520006 | 1 Gallon |

Armaflex Finish

| PART NO | SIZE (in) |
|------------|-----------|
| WBF8530005 | 1 Quart |
| WBF8530006 | 1 Gallon |

| PART NO | Ft/Ctn | Ctn | DESCRIPTION | SIZE (in) |
|----------|--------|-----|-------------|------------------|
| APC05838 | 125 | 1 | AP Coil | 5/8 x 3/8 x 125 |
| APC03438 | 110 | 1 | AP Coil | 3/4 x 3/8 x 110 |
| APC07838 | 95 | 1 | AP Coil | 7/8 x 3/8 x 95 |
| APC11838 | 75 | 1 | AP Coil | 1-1/8 x 3/8 x 75 |
| APC05812 | 95 | 1 | AP Coil | 5/8 x 1/2 x 95 |
| APC03412 | 85 | 1 | AP Coil | 3/4 x 1/2 x 85 |
| APC07812 | 75 | 1 | AP Coil | 7/8 x 1/5 x 75 |
| APC11812 | 55 | 1 | AP Coil | 1-1/8 x 1/2 x 55 |

ArmaFlex Tubing Insulation

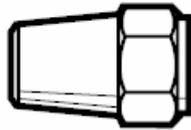
• White Tube

| PART NO | Qty/Ctn/Lft | Ctn/Qty/PCS | DESCRIPTION | SIZE (in) |
|----------|-------------|-------------|---------------|------------------|
| WTT03812 | 450 | 75 | AP ARMAFLEX W | 3/8 x 1/2 x 6' |
| WTT01212 | 300 | 66 | AP ARMAFLEX W | 1/2 x 1/2 x 6' |
| WTT05812 | 240 | 50 | AP ARMAFLEX W | 5/8 x 1/2 x 6' |
| WTT03412 | 210 | 40 | AP ARMAFLEX W | 3/4 x 1/2 x 6' |
| WTT07812 | 150 | 35 | AP ARMAFLEX W | 7/8 x 1/2 x 6' |
| WTT11812 | 120 | 25 | AP ARMAFLEX W | 1-1/8 x 1/2 x 6' |
| WTT13812 | 90 | 20 | AP ARMAFLEX W | 1-3/8 x 1/2 x 6' |
| WTT15812 | 90 | 15 | AP ARMAFLEX W | 1-5/8 x 1/2 x 6' |
| WTT11012 | 60 | 15 | AP ARMAFLEX W | 1-1/2 x 1/2 x 6' |
| WTT21812 | 54 | 9 | AP ARMAFLEX W | 2-1/8 x 1/2 x 6' |
| WTT25812 | 48 | 8 | AP ARMAFLEX W | 2-5/8 x 1/2 x 6' |
| WTT03834 | 240 | 40 | AP ARMAFLEX W | 3/8 x 3/4 x 6' |
| WTT01234 | 210 | 35 | AP ARMAFLEX W | 1/2 x 3/4 x 6' |
| WTT05834 | 144 | 24 | AP ARMAFLEX W | 5/8 x 3/4 x 6' |
| WTT03434 | 138 | 23 | AP ARMAFLEX W | 3/4 x 3/4 x 6' |
| WTT07834 | 120 | 20 | AP ARMAFLEX W | 7/8 x 3/4 x 6' |
| WTT11834 | 90 | 15 | AP ARMAFLEX W | 1-1/8 x 3/4 x 6' |
| WTT13834 | 72 | 12 | AP ARMAFLEX W | 1-3/8 x 3/4 x 6' |
| WTT15834 | 60 | 10 | AP ARMAFLEX W | 1-5/8 x 3/4 x 6' |
| WTT11034 | 60 | 10 | AP ARMAFLEX W | 1-1/2 x 3/4 x 6' |
| WTT21834 | 54 | 9 | AP ARMAFLEX W | 2-1/8 x 3/4 x 6' |
| WTT25834 | 48 | 8 | AP ARMAFLEX W | 2-5/8 x 3/4 x 6' |
| WTT05810 | 120 | 20 | AP ARMAFLEX W | 5/8 x 1 x 6' |
| WTT03410 | 90 | 15 | AP ARMAFLEX W | 3/4 x 1 x 6' |
| WTT07810 | 90 | 15 | AP ARMAFLEX W | 7/8 x 1 x 6' |
| WTT11810 | 72 | 12 | AP ARMAFLEX W | 1-1/8 x 1 x 6' |
| WTT13810 | 60 | 10 | AP ARMAFLEX W | 1-3/8 x 1 x 6' |
| WTT15810 | 48 | 8 | AP ARMAFLEX W | 1-5/8 x 1 x 6' |
| WTT11010 | 42 | 7 | AP ARMAFLEX W | 1-1/2 x 1 x 6' |
| WTT21810 | 36 | 6 | AP ARMAFLEX W | 2-1/8 x 1 x 6' |

ARMAFLEX TUBING INSULATION

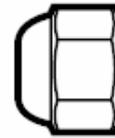
TOTALINE® BRASS FITTINGS

LONG NUT



LONG NUT

CAP NUT

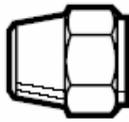


CAP NUT

| PART NO | TUBE SIZE (in) | WT100 (lbs) | PER QTY | BULK QTY |
|------------|----------------|-------------|---------|----------|
| P806-N2-2 | 1/8 | 1.20 | 4000 | 25 |
| P806-N2-3 | 3/16 | 1.70 | 2500 | 25 |
| P806-N2-4 | 1/4 | 3.44 | 1400 | 50 |
| P806-N2-5 | 5/16 | 4.60 | 900 | 25 |
| P806-N2-6 | 3/8 | 7.90 | 550 | 50 |
| P806-N2-8 | 1/2 | 11.00 | 300 | 25 |
| P806-N2-10 | 5/8 | 21.00 | 180 | 10 |
| P806-N2-12 | 3/4 | 33.60 | 100 | 10 |

| PART NO | TUBE SIZE (in) | WT100 (lbs) | PER QTY | BULK QTY |
|------------|----------------|-------------|---------|----------|
| P806-N5-3 | 3/16 | 1.60 | 3500 | 25 |
| P806-N5-4 | 1/4 | 2.37 | 2200 | 50 |
| P806-N5-5 | 5/16 | 3.41 | 1600 | 25 |
| P806-N5-6 | 3/8 | 3.79 | 1200 | 25 |
| P806-N5-8 | 1/2 | 6.33 | 600 | 25 |
| P806-N5-10 | 5/8 | 11.05 | 350 | 10 |

SHORT NUT & SHORTER NUT



SHORT NUT & SHORTER NUT

REDUCING NUTS

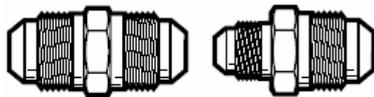
| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|---------------|----------------|---|-----------|-------------|----------|---------|
| P806-NRS4-64 | 3/8 | x | 1/4 | 6.82 | 750 | 25 |
| P806-NRS4-86 | 1/2 | x | 3/8 | 8.84 | 500 | 25 |
| P806-NRS4-108 | 5/8 | x | 1/2 | 13.16 | 300 | 10 |

UNION REDUCERS

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|--------------|----------------|---|-----------|-------------|----------|---------|
| P806-UR2-64 | 3/8 | x | 1/4 | 6.66 | 850 | 50 |
| P806-UR2-65 | 3/8 | x | 5/16 | 7.29 | 750 | 25 |
| P806-UR2-84 | 1/2 | x | 1/4 | 9.67 | 500 | 10 |
| P806-UR2-86 | 1/2 | x | 3/8 | 11.78 | 450 | 25 |
| P806-UR2-106 | 5/8 | x | 3/8 | 4.70 | 300 | 10 |
| P806-UR2-108 | 5/8 | x | 1/2 | 18.10 | 250 | 10 |

| PART NO | TUBE SIZE (in) | WT100 (lbs) | PER QTY | BULK QTY |
|------------|----------------|-------------|---------|----------|
| P806-N1-2 | 1/8 | 1.10 | 6500 | 25 |
| P806-N1-3 | 3/16 | 1.30 | 3500 | 50 |
| P806-N1-4 | 1/4 | 2.70 | 1800 | 100 |
| P806-N1-5 | 5/16 | 4.00 | 1200 | 50 |
| P806-N1-6 | 3/8 | 5.90 | 700 | 50 |
| P806-N1-7 | 7/16 | 7.50 | 550 | 10 |
| P806-N1-8 | 1/2 | 8.60 | 450 | 50 |
| P806-N1-10 | 5/8 | 15.80 | 250 | 25 |
| P806-N1-12 | 3/4 | 22.10 | 150 | 10 |
| P806-N1-14 | 7/8 | 44.54 | 100 | 10 |

TUBE TO TUBE



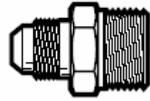
TUBE TO TUBE

| PART NO | TUBE SIZE (in) | WT100 (lbs) | PER QTY | BULK QTY |
|------------|----------------|-------------|---------|----------|
| P806-U2-2 | 1/8 | 1.80 | 5000 | 25 |
| P806-U2-3 | 3/16 | 2.40 | 2800 | 25 |
| P806-U2-4 | 1/4 | 3.40 | 1700 | 25 |
| P806-U2-5 | 5/16 | 5.00 | 1200 | 25 |
| P806-U2-6 | 3/8 | 8.40 | 650 | 50 |
| P806-U2-8 | 1/2 | 13.00 | 350 | 25 |
| P806-U2-10 | 5/8 | 19.10 | 220 | 25 |
| P806-U2-12 | 3/4 | 36.51 | 100 | 10 |
| P806-U2-14 | 7/8 | 52.47 | 70 | 5 |

TOTALINE® BRASS FITTINGS

TOTALINE® BRASS FITTINGS

MALE CONNECTOR - Tube to Male Connector



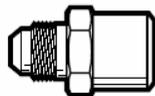
MALE CONNECTOR

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-U1-3A | 3/16 | x | 1/8 | 2.04 | 2400 | 25 |
| P806-U1-4A | 1/4 | x | 1/8 | 2.74 | 1900 | 50 |
| P806-U1-4B | 1/4 | x | 1/4 | 4.32 | 1100 | 50 |
| P806-U1-4C | 1/4 | x | 3/8 | 6.91 | 750 | 25 |
| P806-U1-4D | 1/4 | x | 1/2 | 10.59 | 350 | 10 |
| P806-U1-5A | 5/16 | x | 1/8 | 3.85 | 1400 | 25 |
| P806-U1-5B | 5/16 | x | 1/4 | 5.01 | 1000 | 25 |
| P806-U1-5C | 5/16 | x | 3/8 | 7.18 | 700 | 10 |
| P806-U1-6A | 3/8 | x | 1/8 | 6.22 | 900 | 25 |
| P806-U1-6B | 3/8 | x | 1/4 | 7.20 | 650 | 50 |
| P806-U1-6C | 3/8 | x | 3/8 | 8.57 | 550 | 50 |
| P806-U1-6D | 3/8 | x | 1/2 | 13.07 | 330 | 25 |
| P806-U1-6E | 3/8 | x | 3/4 | 18.98 | 200 | 25 |
| P806-U1-8B | 1/2 | x | 1/4 | 10.16 | 450 | 25 |
| P806-U1-8C | 1/2 | x | 3/8 | 11.08 | 400 | 50 |
| P806-U1-8D | 1/2 | x | 1/2 | 14.09 | 300 | 25 |
| P806-U1-8E | 1/2 | x | 3/4 | 20.47 | 180 | 10 |
| P806-U1-10B | 5/8 | x | 1/4 | 14.64 | 300 | 10 |
| P806-U1-10C | 5/8 | x | 3/8 | 15.61 | 280 | 25 |
| P806-U1-10D | 5/8 | x | 1/2 | 17.46 | 240 | 25 |
| P806-U1-10E | 5/8 | x | 3/4 | 22.49 | 160 | 10 |
| P806-U1-12D | 3/4 | x | 1/2 | 27.39 | 130 | 10 |
| P806-U1-12E | 3/4 | x | 3/4 | 28.62 | 100 | 10 |
| P806-U1-14E | 7/8 | x | 3/4 | 40.05 | 80 | 5 |

COMBINATION SIZES

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-TR2-64 | 3/8 | x | 1/4 | 11.96 | 400 | 25 |
| P806-TR2-86 | 1/2 | x | 3/8 | 19.58 | 200 | 25 |

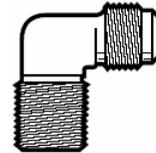
FEMALE CONNECTOR - Tube to Female Pipe



FEMALE CONNECTOR

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-U3-2A | 1/8 | x | 1/8 | 4.30 | 1500 | 10 |
| P806-U3-3A | 3/16 | x | 1/8 | 3.50 | 1500 | 10 |
| P806-U3-4A | 1/4 | x | 1/8 | 3.86 | 1400 | 25 |
| P806-U3-4B | 1/4 | x | 1/4 | 6.42 | 750 | 25 |
| P806-U3-4C | 1/4 | x | 3/8 | 7.67 | 550 | 10 |
| P806-U3-5A | 5/16 | x | 1/8 | 4.27 | 1300 | 25 |
| P806-U3-5B | 5/16 | x | 1/4 | 12.64 | 750 | 25 |
| P806-U3-5A | 3/8 | x | 1/8 | 6.46 | 900 | 25 |
| P806-U3-6A | 3/8 | x | 1/4 | 7.97 | 650 | 25 |
| P806-U3-6C | 3/8 | x | 3/8 | 19.52 | 450 | 50 |
| P806-U3-6D | 3/8 | x | 1/2 | 16.23 | 250 | 25 |
| P806-U3-8B | 1/2 | x | 1/4 | 10.51 | 400 | 25 |
| P806-U3-8C | 1/2 | x | 3/8 | 10.96 | 400 | 25 |
| P806-U3-8D | 1/2 | x | 1/2 | 17.08 | 220 | 25 |
| P806-U3-8E | 1/2 | x | 3/4 | 16.36 | 220 | 25 |
| P806-U3-10C | 5/8 | x | 3/8 | 14.00 | 300 | 25 |
| P806-U3-10D | 5/8 | x | 1/2 | 18.82 | 200 | 25 |
| P806-U3-10E | 5/8 | x | 3/4 | 18.86 | 200 | 10 |

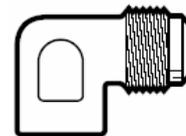
MALE ELBOW - Pipe



MALE ELBOW

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-E1-2A | 1/8 | x | 1/8 | 3.10 | 1700 | 25 |
| P806-E1-3A | 3/16 | x | 1/8 | 3.17 | 1500 | 25 |
| P806-E1-4A | 1/4 | x | 1/8 | 3.88 | 1300 | 50 |
| P806-E1-4B | 1/4 | x | 1/4 | 5.74 | 800 | 50 |
| P806-E1-4C | 1/4 | x | 3/8 | 9.23 | 500 | 25 |
| P806-E1-5A | 5/16 | x | 1/8 | 5.08 | 1000 | 50 |
| P806-E1-5B | 5/16 | x | 1/4 | 6.44 | 750 | 25 |
| P806-E1-5B | 5/16 | x | 3/8 | 9.32 | 500 | 10 |
| P806-E1-6A | 3/8 | x | 1/8 | 8.14 | 650 | 25 |
| P806-E1-6B | 3/8 | x | 1/4 | 8.96 | 550 | 50 |
| P806-E1-6C | 3/8 | x | 3/8 | 10.90 | 400 | 50 |
| P806-E1-6D | 3/8 | x | 1/2 | 15.22 | 270 | 25 |
| P806-E1-6E | 3/8 | x | 3/4 | 20.36 | 200 | 25 |
| P806-E1-8B | 1/2 | x | 1/4 | 14.52 | 300 | 25 |
| P806-E1-8C | 1/2 | x | 3/8 | 13.12 | 300 | 25 |
| P806-E1-8D | 1/2 | x | 1/2 | 17.11 | 210 | 25 |
| P806-E1-8E | 1/2 | x | 3/4 | 20.38 | 170 | 10 |
| P806-E1-10C | 5/8 | x | 3/8 | 19.81 | 200 | 10 |
| P806-E1-10D | 5/8 | x | 1/2 | 21.66 | 170 | 10 |
| P806-E1-10E | 5/8 | x | 3/4 | 23.71 | 100 | 10 |
| P806-E1-12D | 3/4 | x | 1/2 | 29.80 | 100 | 10 |
| P806-E1-12E | 3/4 | x | 3/4 | 37.05 | 80 | 5 |

FEMALE ELBOW - Tube to Female Pipe



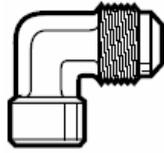
FEMALE ELBOW

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-E3-4A | 1/4 | x | 1/8 | 4.63 | 1100 | 50 |
| P806-E3-4B | 1/4 | x | 1/4 | 8.00 | 600 | 25 |
| P806-E3-5B | 5/8 | x | 1/4 | 8.64 | 600 | 10 |
| P806-E3-6A | 3/8 | x | 1/8 | 10.49 | 500 | 10 |
| P806-E3-6B | 3/8 | x | 1/4 | 7.55 | 500 | 25 |
| P806-E3-6C | 3/8 | x | 3/8 | 9.88 | 400 | 50 |
| P806-E3-6D | 3/8 | x | 1/2 | 16.58 | 250 | 25 |
| P806-E3-8C | 1/2 | x | 3/8 | 12.34 | 320 | 10 |
| P806-E3-8D | 1/2 | x | 1/2 | 19.04 | 200 | 25 |
| P806-E3-8E | 1/2 | x | 3/4 | 23.65 | 160 | 10 |
| P806-E3-10D | 5/8 | x | 1/2 | 22.16 | 180 | 10 |
| P806-E3-10E | 5/8 | x | 3/4 | 27.44 | 130 | 10 |

TOTALINE® BRASS FITTINGS

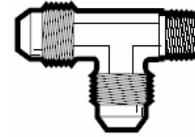
TOTALINE® BRASS FITTINGS

UNION ELBOW - Tube to Tube



UNION ELBOW

MALE RUN TEE - Tube to Tube to Male Pipe



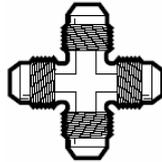
MALE RUN TEE

TOTALINE® BRASS FITTINGS

| PART NO | TUBE SIZE (in) | WT100 (lbs) | BULK QTY | BOX QTY |
|------------|----------------|-------------|----------|---------|
| P806-E2-2 | 1/8 | 2.96 | 2000 | 25 |
| P806-E2-3 | 3/16 | 3.67 | 1900 | 25 |
| P806-E2-4 | 1/4 | 5.42 | 1000 | 10 |
| P806-E2-5 | 5/16 | 6.00 | 900 | 10 |
| P806-E2-6 | 3/8 | 10.08 | 500 | 25 |
| P806-E2-8 | 1/2 | 14.66 | 300 | 25 |
| P806-E2-10 | 5/8 | 22.97 | 180 | 10 |
| P806-E2-12 | 3/4 | 40.25 | 70 | 5 |

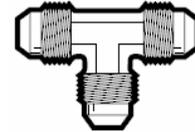
| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-T3-4A | 1/4 | x | 1/8 | 5.06 | 900 | 25 |
| P806-T3-4B | 1/4 | x | 1/4 | 21.72 | 600 | 25 |
| P806-T3-5B | 5/16 | x | 1/4 | 9.82 | 500 | 5 |
| P806-T3-6B | 3/8 | x | 1/4 | 12.43 | 350 | 10 |
| P806-T3-6C | 3/8 | x | 3/8 | 13.34 | 300 | 10 |
| P806-T3-6D | 3/8 | x | 1/2 | 24.69 | 170 | 10 |
| P806-T3-8C | 1/2 | x | 3/8 | 18.99 | 200 | 10 |
| P806-T3-8D | 1/2 | x | 1/2 | 26.09 | 140 | 10 |
| P806-T3-10D | 5/8 | x | 1/2 | 32.27 | 100 | 10 |

CROSS - Tube (All)



CROSS

UNION TEE - Tube to Tube To Tube

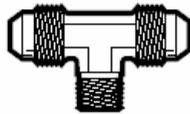


UNION TEE

| PART NO | TUBE SIZE (in) | WT100 (lbs) | BULK QTY | BOX QTY |
|-----------|----------------|-------------|----------|---------|
| P806-C1-6 | 3/8 | 17.70 | 250 | 10 |

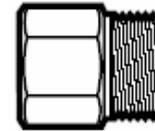
| PART NO | TUBE SIZE (in) | WT100 (lbs) | BULK QTY | BOX QTY |
|------------|----------------|-------------|----------|---------|
| P806-T2-3 | 3/16 | 4.88 | 100 | 10 |
| P806-T2-4 | 1/4 | 5.52 | 800 | 25 |
| P806-T2-5 | 5/16 | 9.65 | 500 | 10 |
| P806-T2-6 | 3/8 | 13.76 | 300 | 25 |
| P806-T2-8 | 1/2 | 20.88 | 180 | 10 |
| P806-T2-10 | 5/8 | 33.18 | 110 | 10 |

MALE BRANCH TEE - Tube to Tube to Male Pipe



MALE BRANCH TEE

REDUCER - Male Flare to Female Flare

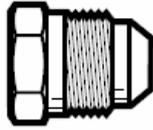


REDUCER

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|-------------|----------------|---|-----------|-------------|----------|---------|
| P806-T1-2A | 1/8 | x | 1/8 | 4.00 | 1300 | 10 |
| P806-T1-4A | 1/4 | x | 1/8 | 5.11 | 850 | 25 |
| P806-T1-4B | 1/4 | x | 1/4 | 7.27 | 600 | 25 |
| P806-T1-5B | 5/16 | x | 1/4 | 10.09 | 400 | 10 |
| P806-T1-6B | 3/8 | x | 1/4 | 6.56 | 350 | 25 |
| P806-T1-6C | 3/8 | x | 3/8 | 13.29 | 300 | 25 |
| P806-T1-5D | 3/8 | x | 1/2 | 38.64 | 170 | 10 |
| P806-T1-5C | 1/2 | x | 3/8 | 18.97 | 200 | 10 |
| P806-T1-6D | 1/2 | x | 1/2 | 32.04 | 140 | 10 |
| P806-T1-10D | 5/8 | x | 1/2 | 32.20 | 110 | 10 |

| PART NO | TUBE SIZE (in) | x | Pipe Size | WT100 (lbs) | BULK QTY | BOX QTY |
|--------------|----------------|---|-----------|-------------|----------|---------|
| P806-UR3-64 | 1/4 | x | 3/8 | 9.00 | 450 | 25 |
| P806-UR3-84 | 1/4 | x | 1/2 | 13.40 | 300 | 10 |
| P806-UR3-46 | 3/8 | x | 1/4 | 6.66 | 500 | 25 |
| P806-UR3-86 | 3/8 | x | 1/2 | 13.66 | 250 | 25 |
| P806-UR3-68 | 1/2 | x | 3/8 | 12.09 | 330 | 10 |
| P806-UR3-108 | 1/8 | x | 5/8 | 19.00 | 180 | 10 |
| P806-UR3-810 | 5/8 | x | 1/2 | 16.29 | 200 | 10 |

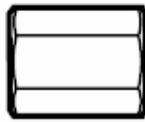
FLARED SEAL PLUG



FLARED
SEAL PLUG

| PART NO | TUBE SIZE (in) | WT100 (lbs) | BULK QTY | BOX QTY |
|------------|----------------|-------------|----------|---------|
| P806-P2-4 | 1/4 | 2.16 | 3000 | 25 |
| P806-P2-5 | 5/16 | 3.27 | 2000 | 25 |
| P806-P2-6 | 3/8 | 5.73 | 1100 | 25 |
| P806-P2-8 | 1/2 | 8.95 | 600 | 25 |
| P806-P2-10 | 5/8 | 12.90 | 400 | 10 |

VALVE CONNECTOR - Female Flare to Female Flare

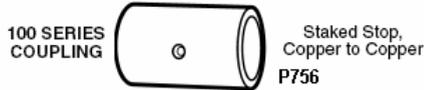


VALVE
CONNECTOR

| PART NO | TUBE SIZE (in) | WT100 (lbs) | BULK QTY | BOX QTY |
|-----------|----------------|-------------|----------|---------|
| P806-U4-4 | 1/4 | 2.64 | 800 | 10 |
| P806-U4-6 | 3/8 | 12.37 | 400 | 10 |
| P806-U4-8 | 1/2 | 21.50 | 240 | 10 |

TOTALINE® COPPER FITTINGS

100 SERIES - COUPLING, Staked Stop



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|--------------|---------|-------------|---------------|
| W10142FTG | 5/16 | 50 | 1000 | .0059 |
| W10143FTG | 3/8 | 50 | 1000 | .008 |
| W10144FTG | 1/2 | 50 | 1000 | .014 |
| W10145FTG | 5/8 | 100 | 1000 | .026 |
| W10157FTG | 3/4 | 25 | 500 | .040 |
| W10146FTG | 7/8 | 50 | 500 | .061 |
| W10147FTG | 1-1/8 | 25 | 250 | .104 |
| W10148FTG | 1-3/8 | 20 | 200 | .150 |
| W10149FTG | 1-5/8 | 10 | 100 | .217 |
| W10150FTG | 2-1/8 | 5 | 50 | .401 |
| W10151FTG | 2-5/8 | 5 | 50 | .642 |
| W10152FTG | 3-1/8 | 5 | 40 | .970 |
| W10153FTG | 3-5/8 | 1 | 16 | 1.390 |
| W10154FTG | 4-1/8 | 2 | 16 | 2.040 |

100RS SERIES - COUPLING, Rolled Stop



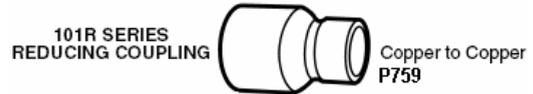
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|--------------|---------|-------------|---------------|
| W1001FTG | 3/16 | 50 | 1000 | .0025 |
| W1003FTG | 1/4 | 50 | 1000 | .0041 |
| W1009FTG | 3/8 | 50 | 1000 | .008 |
| W1017FTG | 1/2 | 50 | 1000 | .014 |
| W1022FTG | 5/8 | 100 | 1000 | .026 |
| W1028FTG | 3/4 | 25 | 500 | .040 |
| W1034FTG | 7/8 | 50 | 500 | .061 |
| W1040FTG | 1 | 10 | 200 | .085 |
| W1047FTG | 1-1/8 | 25 | 250 | .104 |
| W1055FTG | 1-3/8 | 20 | 200 | .150 |
| W1063FTG | 1-5/8 | 10 | 100 | .217 |
| W1072FTG | 2-1/8 | 5 | 50 | .401 |
| W1082FTG | 2-5/8 | 5 | 50 | .642 |
| W1092FTG | 3-1/8 | 5 | 40 | .970 |
| W10100FTG | 3-5/8 | 1 | 16 | 1.390 |
| W10107FTG | 4-1/8 | 2 | 16 | 2.040 |

101 SERIES - COUPLING, No Stop



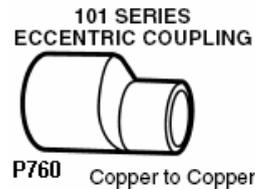
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| W1901FTG | 3/8 | 50 | 1000 | .0080 |
| W1902FTG | 1/2 | 50 | 1000 | .0140 |
| W1903FTG | 5/8 | 100 | 1000 | .0280 |
| W1904FTG | 3/4 | 25 | 500 | .0400 |
| W1905FTG | 7/8 | 50 | 500 | .0600 |
| W1906FTG | 1-1/8 | 25 | 250 | .104 |
| W1907FTG | 1-3/8 | 20 | 200 | .150 |
| W1908FTG | 1-5/8 | 10 | 100 | .217 |
| W1909FTG | 2-1/8 | 5 | 50 | .401 |
| W1910FTG | 2-5/8 | 5 | 50 | .624 |
| W1911FTG | 3-1/8 | 5 | 40 | .970 |
| W1913FTG | 4-1/8 | 2 | 16 | 1.990 |

101R SERIES - REDUCING COUPLING



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|---------------|---------|-------------|---------------|
| W1004FTG | 1/4 x 3/16 | 50 | 1000 | .005 |
| W1010FTG | 3/8 x 5/16 | 50 | 1000 | .008 |
| W1011FTG | 3/8 x 1/4 | 50 | 1000 | .008 |
| W1019FTG | 1/2 x 3/8 | 50 | 1000 | .017 |
| W1021FTG | 1/2 x 1/4 | 50 | 1000 | .017 |
| W1023FTG | 5/8 x 1/2 | 50 | 1000 | .028 |
| W1025FTG | 5/8 x 3/8 | 50 | 1000 | .020 |
| W1027FTG | 5/8 x 1/4 | 50 | 1000 | .026 |
| W1029FTG | 3/4 x 5/8 | 25 | 500 | .035 |
| W1030FTG | 3/4 x 1/2 | 25 | 500 | .037 |
| W1031FTG | 3/4 x 3/8 | 25 | 500 | .033 |
| W1035FTG | 7/8 x 3/4 | 50 | 500 | .064 |
| W1036FTG | 7/8 x 5/8 | 50 | 500 | .059 |
| W1037FTG | 7/8 x 1/2 | 50 | 500 | .050 |
| W1038FTG | 7/8 x 3/8 | 50 | 500 | .053 |
| W1049FTG | 1-1/8 x 7/8 | 25 | 250 | .103 |
| W1050FTG | 1-1/8 x 3/4 | 25 | 250 | .100 |
| W1051FTG | 1-1/8 x 5/8 | 25 | 250 | .105 |
| W1052FTG | 1-1/8 x 1/2 | 25 | 250 | .094 |
| W1056FTG | 1-3/8 x 1-1/8 | 10 | 100 | .144 |
| W1058FTG | 1-3/8 x 7/8 | 10 | 100 | .130 |
| W1060FTG | 1-3/8 x 5/8 | 10 | 100 | .177 |
| W1064FTG | 1-5/8 x 1-3/8 | 10 | 100 | .210 |
| W1065FTG | 1-5/8 x 1-1/8 | 10 | 100 | .220 |
| W1067FTG | 1-5/8 x 7/8 | 10 | 100 | .218 |
| W1069FTG | 1-5/8 x 5/8 | 10 | 100 | .209 |
| W1073FTG | 2-1/8 x 1-5/8 | 10 | 100 | .386 |
| W1074FTG | 2-1/8 x 1-3/8 | 10 | 100 | .369 |
| W1075FTG | 2-1/8 x 1-1/8 | 10 | 100 | .382 |
| W1077FTG | 2-1/8 x 7/8 | 10 | 100 | .397 |
| W1079FTG | 2-1/8 x 5/8 | 10 | 100 | .402 |
| W1083FTG | 2-5/8 x 2-1/8 | 5 | 50 | .612 |
| W1084FTG | 2-5/8 x 1-5/8 | 5 | 50 | .660 |
| W1085FTG | 2-5/8 x 1-3/8 | 5 | 50 | .648 |
| W1086FTG | 2-5/8 x 1-1/8 | 5 | 50 | .640 |
| W1093FTG | 3-1/8 x 2-5/8 | 2 | 20 | .902 |
| W1094FTG | 3-1/8 x 2-1/8 | 2 | 20 | .950 |
| W1095FTG | 3-1/8 x 1-5/8 | 2 | 20 | 1.040 |
| W10101FTG | 3-5/8 x 3-1/8 | 1 | 16 | 1.360 |
| W10108FTG | 4-1/8 x 3-5/8 | 2 | 32 | 1.960 |
| W10109FTG | 4-1/8 x 3-1/8 | 2 | 32 | 1.950 |
| W10110FTG | 4-1/8 x 2-5/8 | 2 | 32 | 2.020 |

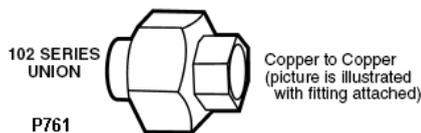
110 SERIES - ECCENTRIC COUPLING



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1849FTG | 1-1/8 x 7/8 | 10 | 100 | .110 |
| W1856FTG | 1-3/8 x 1-1/8 | 10 | 100 | .160 |
| W1857FTG | 1-3/8 x 7/8 | 10 | 100 | .200 |

TOTALINE® COPPER FITTINGS

102 SERIES - UNION



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|--------------|---------|-------------|---------------|
| W8001FTG | 3/8 | 25 | 500 | .120 |
| W8002FTG | 1/2 | 25 | 250 | .170 |
| W8003FTG | 5/8 | 25 | 250 | .120 |
| W8004FTG | 7/8 | 20 | 200 | .310 |
| W8005FTG | 1-1/8 | 10 | 100 | .380 |
| A11205FTG | 1-3/8 | 5 | 50 | .76 |
| A11206FTG | 1-5/8 | 5 | 50 | 1.07 |
| A11207FTG | 2-1/8 | 1 | 25 | 1.77 |

TOTALINE COPPER COUPLINGS & UNIONS

103 SERIES - FEMALE ADAPTER



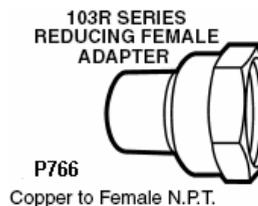
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1207FTG | 1/4 x 1/8 | 50 | 1000 | .024 |
| W1215FTG | 3/8 x 1/4 | 50 | 1000 | .030 |
| W1225FTG | 1/2 x 3/8 | 50 | 500 | .060 |
| W1231FTG | 5/8 x 1/2 | 50 | 500 | .090 |
| W1246FTG | 7/8 x 3/4 | 25 | 250 | .140 |
| W1263FTG | 1-1/8 x 1 | 25 | 250 | .220 |
| W1271FTG | 1-3/8 x 1-1/4 | 10 | 100 | .290 |
| W1279FTG | 1-5/8 x 1-1/2 | 10 | 100 | .420 |
| W1287FTG | 2-1/8 x 2 | 5 | 50 | .650 |
| W1296FTG | 2-5/8 x 2-1/2 | 2 | 20 | 1.200 |

1032 SERIES - FEMALE STREET ADAPTER



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1531FTG | 5/8 x 1/2 | 50 | 500 | .096 |
| W1546FTG | 7/8 x 3/4 | 25 | 250 | .138 |
| W1563FTG | 1-1/8 x 1 | 25 | 250 | .199 |
| W1564FTG | 1-1/8 x 3/4 | — | — | — |
| W1571FTG | 1-3/8 x 1-1/4 | 10 | 100 | .322 |
| W1579FTG | 1-5/8 x 1-1/2 | 10 | 100 | .500 |
| W1587FTG | 2-1/8 x 2 | 5 | 50 | .658 |

103R SERIES - REDUCING FEMALE ADAPTER



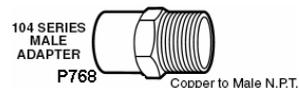
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1205FTG | 1/4 x 3/8 | 50 | 1000 | .050 |
| W1206FTG | 1/4 x 1/4 | 50 | 1000 | .030 |
| W1214FTG | 3/8 x 3/8 | 50 | 1000 | .050 |
| W1216FTG | 3/8 x 1/8 | 50 | 1000 | .020 |
| W1224FTG | 1/2 x 1/2 | 50 | 500 | .080 |
| W1230FTG | 5/8 x 3/4 | 25 | 250 | .120 |
| W1232FTG | 5/8 x 3/8 | 50 | 500 | .050 |
| W1233FTG | 5/8 x 1/4 | 50 | 500 | .060 |
| W1238FTG | 3/4 x 3/4 | 25 | 250 | .13 |
| W1239FTG | 3/4 x 1/2 | 25 | 250 | .090 |
| W1245FTG | 7/8 x 1 | 25 | 250 | .231 |
| W1247FTG | 7/8 x 1/2 | 50 | 500 | .111 |
| W1264FTG | 1-1/8 x 3/4 | 25 | 250 | .171 |
| W1265FTG | 1-1/8 x 1/2 | 25 | 250 | .230 |
| W1270FTG | 1-3/8 x 1-1/2 | 10 | 100 | .414 |
| W1272FTG | 1-3/8 x 1 | 10 | 100 | .241 |
| W1278FTG | 1-5/8 x 2 | 5 | 50 | .658 |
| W1280FTG | 1-5/8 x 1-1/4 | 10 | 100 | .336 |

1032R SERIES -REDUCING FEMALE STREET ADAPTER



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| W1532FTG | 5/8 x 3/8 | 50 | 500 | .070 |

104 SERIES - MALE ADAPTER



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1115FTG | 3/8 x 1/4 | 50 | 1000 | .027 |
| W1125FTG | 1/2 x 3/8 | 50 | 500 | .049 |
| W1131FTG | 5/8 x 1/2 | 50 | 500 | .066 |
| W1146FTG | 7/8 x 3/4 | 25 | 250 | .116 |
| W1163FTG | 1-1/8 x 1 | 20 | 200 | .192 |
| W1171FTG | 1-3/8 x 1-1/4 | 10 | 100 | .372 |
| W1179FTG | 1-5/8 x 1-1/2 | 10 | 100 | .429 |
| W1187FTG | 2-1/8 x 2 | 5 | 50 | .794 |
| W1196FTG | 2-5/8 x 2-1/2 | 4 | 40 | 1.270 |
| W1199FTG | 3-1/8 x 3 | 2 | 20 | 2.270 |
| W1150FTG | 4-1/8 x 4 | 1 | 16 | 3.34 |

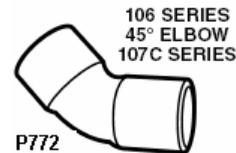
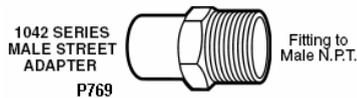
TOTALINE® COPPER FITTINGS

TOTALINE® COPPER FITTINGS

TOTALINE COPPER ADAPTERS & ELBOWS

106 SERIES - 45° ELBOW

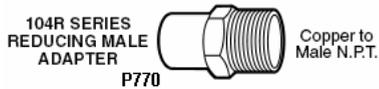
1042 SERIES - MALE STREET ADAPTER



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1425FTG | 1/2 x 3/8 | 50 | 1000 | .049 |
| W1431FTG | 5/8 x 1/2 | 50 | 500 | .074 |
| W1446FTG | 7/8 x 3/4 | 25 | 250 | .130 |
| W1463FTG | 1-1/8 x 1 | 20 | 200 | .230 |
| W1471FTG | 1-3/8 x 1-1/4 | 10 | 100 | .410 |
| W1479FTG | 1-5/8 x 1-1/2 | 10 | 100 | .500 |
| W1487FTG | 2-1/8 x 2 | 5 | 50 | .740 |

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| W3005FTG | 1/4 | 50 | 1000 | .005 |
| W3012FTG | 3/8 | 50 | 1000 | .011 |
| P805-W3012T | 3/8 | 50 | -- | -- |
| W3021FTG | 1/2 | 50 | 1000 | .020 |
| W3026FTG | 5/8 | 100 | 1000 | .030 |
| P805-W3026T | 5/8 | 100 | -- | -- |
| W3030FTG | 3/4 | 25 | 250 | .060 |
| P805-W3030T | 3/4 | 25 | -- | -- |
| W3034FTG | 7/8 | 50 | 500 | .080 |
| P805-W3034T | 7/8 | 50 | -- | -- |
| W3044FTG | 1-1/8 | 25 | 250 | .150 |
| P805-W3044T | 1-1/8 | 25 | -- | -- |
| W3050FTG | 1-3/8 | 25 | 200 | .230 |
| W3055FTG | 1-5/8 | 20 | 160 | .340 |
| W3059FTG | 2-1/8 | 10 | 80 | .620 |
| W3063FTG | 2-5/8 | 5 | 40 | .970 |
| W3067FTG | 3-1/8 | 3 | 24 | 1.440 |
| W3070FTG | 3-5/8 | 1 | 16 | 2.140 |
| W3073FTG | 4-1/8 | 1 | 8 | 3.100 |

104R SERIES - REDUCING MALE ADAPTER



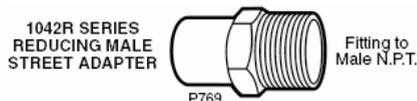
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1106FTG | 1/4 x 1/4 | 50 | 1000 | .033 |
| W1113FTG | 3/8 x 1/2 | 50 | 500 | .075 |
| W1114FTG | 3/8 x 3/8 | 50 | 1000 | .049 |
| W1116FTG | 3/8 x 1/8 | 50 | 1000 | .014 |
| W1123FTG | 1/2 x 3/4 | 25 | 250 | .140 |
| W1124FTG | 1/2 x 1/2 | 50 | 500 | .070 |
| W1126FTG | 1/2 x 1/4 | 50 | 1000 | .040 |
| W1129FTG | 5/8 x 1 | 20 | 200 | .240 |
| W1130FTG | 5/8 x 3/4 | 25 | 250 | .140 |
| W1132FTG | 5/8 x 3/8 | 50 | 500 | .060 |
| W1133FTG | 5/8 x 1/4 | 50 | 500 | .070 |
| W1138FTG | 3/4 x 3/4 | 25 | 250 | .130 |
| W1139FTG | 3/4 x 1/2 | 25 | 500 | .080 |
| W1145FTG | 7/8 x 1 | 20 | 200 | .250 |
| W1147FTG | 7/8 x 1/2 | 25 | 250 | .110 |
| W1161FTG | 1-1/8 x 1-1/2 | 10 | 100 | .540 |
| W1162FTG | 1-1/8 x 1-1/4 | 10 | 100 | .390 |
| W1164FTG | 1-1/8 x 3/4 | 25 | 250 | .200 |
| W1165FTG | 1-1/8 x 1/2 | 25 | 250 | .180 |
| W1170FTG | 1-3/8 x 1-1/2 | 10 | 100 | .520 |
| W1172FTG | 1-3/8 x 1 | 10 | 100 | .300 |
| W1178FTG | 1-5/8 x 2 | 5 | 50 | .780 |
| W1180FTG | 1-5/8 x 1-1/4 | 10 | 100 | .430 |
| W1181FTG | 1-5/8 x 1 | 10 | 100 | .560 |
| W1188FTG | 2-1/8 x 1-1/2 | 5 | 50 | .740 |
| W1189FTG | 2-1/8 x 1-1/4 | 5 | 50 | .670 |
| W1197FTG | 2-5/8 x 2 | 5 | 50 | .890 |

107C SERIES - 90° ELBOW SHORT RADIUS



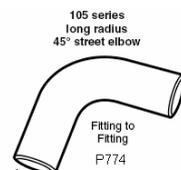
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| W2003FTG | 1/4 | 50 | 1000 | .006 |
| W2009FTG | 3/8 | 50 | 1000 | .012 |
| P805-W2009T | 3/8 | 50 | -- | -- |
| W2017FTG | 1/2 | 50 | 1000 | .024 |
| W2022FTG | 5/8 | 100 | 1000 | .040 |
| P805-W2022T | 5/8 | 100 | -- | -- |
| W2028FTG | 3/4 | 25 | 250 | .060 |
| W2034FTG | 7/8 | 50 | 500 | .100 |
| W2047FTG | 1-1/8 | 20 | 200 | .180 |
| W2084FTG | 1-3/8 | 25 | 200 | .280 |
| W2085FTG | 1-5/8 | 20 | 120 | .400 |
| W2086FTG | 2-1/8 | 10 | 80 | .750 |
| W2087FTG | 2-5/8 | 5 | 40 | 1.180 |
| W2088FTG | 3-1/8 | 3 | 24 | 1.880 |
| W2090FTG | 4-1/8 | 1 | 8 | 4.220 |

1042R SERIES - REDUCING MALE STREET ADAPTER



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| W1447FTG | 7/8 x 1/2 | 25 | 250 | .100 |

105 SERIES — 45° STREET ELBOW, Long Radius

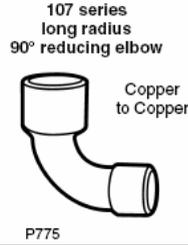


| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| W2659FTG | 2-1/8 | 5 | 40 | 1,010 |

TOTALINE® COPPER FITTINGS

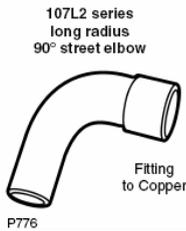
TOTALINE® COPPER ELBOWS

107R SERIES —90° REDUCING ELBOW, Long Radius



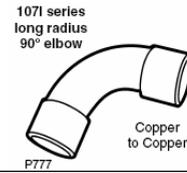
| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W2719FTG | 1/2 x 3/8 | 50 | 1000 | .026 |
| W2723FTG | 5/8 x 1/2 | 50 | 500 | .040 |
| W2735FTG | 7/8 x 3/4 | 25 | 250 | .120 |
| W2736FTG | 7/8 x 5/8 | 50 | 500 | .090 |
| W2737FTG | 7/8 x 1/2 | 50 | 500 | .070 |
| W2749FTG | 1-1/8 x 7/8 | 25 | 250 | .170 |
| W2756FTG | 1-3/8 x 1-1/8 | 10 | 100 | .310 |
| W2064FTG | 1-5/8 x 1-3/8 | 5 | 50 | .470 |
| W2065FTG | 1-5/8 x 1-1/8 | 5 | 50 | .350 |
| W2073FTG | 2-1/8 x 1-5/8 | 5 | 40 | .770 |
| W2083FTG | 2-5/8 x 2-1/8 | 5 | 50 | .350 |

107L2 SERIES —90° STREET ELBOW, Long Radius



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| W2809FTG | 3/8 | 50 | 1000 | .016 |
| P805-W2809T | 3/8 | 50 | -- | -- |
| P805-W2817T | 1/2 | 50 | 500 | .030 |
| P805-W2822T | 5/8 | 50 | 1000 | .050 |
| P805-W2828T | 3/4 | 25 | 250 | .080 |
| W2834FTG | 7/8 | 25 | 250 | .120 |
| W2847FTG | 1-1/8 | 10 | 100 | .210 |
| W2350FTG | 1-3/8 | 10 | 80 | .390 |
| W2355FTG | 1-5/8 | 10 | 80 | .580 |
| W2359FTG | 2-1/8 | 5 | 40 | 1.010 |
| W2363FTG | 2-5/8 | 1 | 10 | 1.670 |
| W2368FTG | 3-1/8 | 1 | 8 | 2.510 |
| W2393FTG | 3-5/8 | 1 | 8 | 3.700 |
| W2395FTG | 4-1/8 | 1 | 1 | 5.760 |

107L SERIES — 90° ELBOW, Long Radius



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| W2715FTG | 1/4 | 50 | 1000 | .008 |
| W2710FTG | 5/16 | 50 | 1000 | .013 |
| W2716FTG | 3/8 | 50 | 1000 | .016 |
| P805-W2716T | 3/8 | 50 | -- | -- |
| W2717FTG | 1/2 | 50 | 500 | .030 |
| W2722FTG | 5/8 | 100 | 1000 | .060 |
| W2728FTG | 3/4 | 25 | 250 | .080 |
| W2734FTG | 7/8 | 25 | 250 | .120 |
| W2747FTG | 1-1/8 | 10 | 100 | .210 |
| P805-W2055T | 1-3/8 | 50 | 80 | .390 |
| W2063FTG | 1-5/8 | 10 | 80 | .580 |
| W2072FTG | 2-1/8 | 5 | 40 | 1.020 |
| W2082FTG | 2-5/8 | 1 | 10 | 1.660 |
| W2092FTG | 3-1/8 | 1 | 8 | 2.520 |
| W2093FTG | 3-5/8 | 1 | 8 | 3.700 |
| W2095FTG | 4-1/8 | 1 | 1 | 5.700 |

1062WROT SERIES —45° STREET ELBOW, Long Radius

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| W3312FTG | 3/8 | 50 | 1000 | .011 |
| W3321FTG | 1/2 | 50 | 1000 | .020 |
| W3326FTG | 5/8 | 100 | 1000 | .030 |
| P805-W3330T | 3/4 | 50 | 250 | .060 |
| P805-W3334T | 7/8 | 50 | 500 | .080 |
| W3344FTG | 1-1/8 | 50 | 250 | .150 |
| W3350FTG | 1-3/8 | 25 | 200 | .240 |
| W3355FTG | 1-5/8 | 20 | 160 | .340 |
| W3359FTG | 2-1/8 | 10 | 80 | .630 |
| W3363FTG | 2-5/8 | 5 | 40 | .980 |
| W3373FTG | 4-1/8 | 1 | 8 | 3.200 |

NOTE: Order Totaline® Copper Fittings by Part Number and Model Series Number.

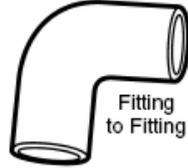
* Part Numbers Ending in 'T' are Totaline's China sourced Fittings.

TOTALINE® COPPER ELBOWS

TOTALINE® COPPER ELBOWS

105C SERIES —90° STREET ELBOW, Short Radius

105c series
short radius
90° elbow

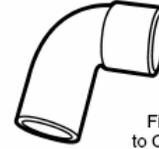


P780

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROXNET WT |
|----------|--------------|---------|-------------|--------------|
| W2612FTG | 3/8 | 25 | 500 | .012 |
| W2626FTG | 5/8 | 25 | 500 | .050 |
| W2634FTG | 7/8 | 25 | 250 | .100 |
| W2644FTG | 1-1/8 | 10 | 100 | .180 |
| W2684FTG | 1-3/8 | 5 | 50 | .280 |

107C2 SERIES —90° STREET ELBOW, Short Radius

107c2 series
short radius 90°
reducing elbow



P782

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROXNET WT |
|----------|--------------|---------|-------------|--------------|
| W2305FTG | 1/4 | 50 | 1000 | .006 |
| W2312FTG | 3/8 | 50 | 1000 | .012 |
| W2321FTG | 1/2 | 50 | 1000 | .024 |
| W2326FTG | 5/8 | 100 | 1000 | .050 |
| W2330FTG | 3/4 | 25 | 250 | .060 |
| W2334FTG | 7/8 | 50 | 500 | .100 |
| W2344FTG | 1-1/8 | 25 | 250 | .180 |
| W2384FTG | 1-3/8 | 25 | 200 | .280 |
| W2385FTG | 1-5/8 | 20 | 120 | .390 |
| W2386FTG | 2-1/8 | 10 | 80 | .760 |
| W2387FTG | 2-5/8 | 5 | 40 | 1.180 |
| W2388FTG | 3-1/8 | 3 | 25 | 1.860 |
| W2389FTG | 3-5/8 | 1 | 8 | 2.620 |
| W2390FTG | 4-1/8 | 1 | 8 | 4.200 |

107CR SERIES —90° REDUCING ELBOW, Short Radius

107cr series
short radius 90°
reducing elbow



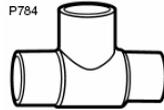
P781

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W2019FTG | 1/2 x 3/8 | 50 | 1000 | .026 |
| W2023FTG | 5/8 x 1/2 | 50 | 500 | .040 |
| W2025FTG | 5/8 x 3/8 | 50 | 500 | .030 |
| W2029FTG | 3/4 x 5/8 | 25 | 250 | .080 |
| W2035FTG | 7/8 x 3/4 | 25 | 500 | .026 |
| W2036FTG | 7/8 x 5/8 | 50 | 500 | .080 |
| W2051FTG | 1-1/8 x 5/8 | 25 | 250 | .120 |
| W2049FTG | 1-1/8 x 7/8 | 25 | 250 | .150 |
| W2056FTG | 1-3/8 x 1-1/8 | 10 | 100 | .230 |
| W2077FTG | 1-5/8 x 1-3/8 | 10 | 100 | .340 |
| W2078FTG | 2-1/8 x 1-5/8 | 5 | 40 | .600 |

TOTALINE® COPPER ELBOWS & REDUCING TEES

1112 SERIES — STREET TEE

1112 SERIES
STREET TEE

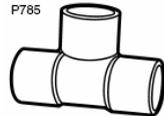


Copper to Fitting to Copper

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------------|--------------|---------|-------------|---------------|
| P805-W1112-5/8 | 5/8 | 50 | 500 | .068 |
| P805-W1112-7/8 | 7/8 | 25 | 250 | .174 |

111 SERIES — TEE

111 SERIES
TEE

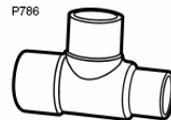


Copper to Copper to Copper

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| W40302FTG | 3/16 | 50 | 1000 | .009 |
| W40306FTG | 1/4 | 50 | 1000 | .015 |
| W40313FTG | 5/16 | 50 | 1000 | .020 |
| W4000FTG | 3/8 | 50 | 1000 | .028 |
| W4001FTG | 1/2 | 50 | 500 | .047 |
| W4006FTG | 5/8 | 50 | 500 | .050 |
| W4017FTG | 3/4 | 25 | 250 | .100 |
| P805-W4031T | 7/8 | 25 | 250 | .160 |
| W4048FTG | 1-1/8 | 10 | 100 | .330 |
| W4068FTG | 1-3/8 | 5 | 50 | .460 |
| W4084FTG | 1-5/8 | 5 | 50 | .710 |
| W40102FTG | 2-1/8 | 5 | 40 | 1.290 |
| W40123FTG | 2-5/8 | 1 | 10 | 1.900 |
| W40152FTG | 3-1/8 | 1 | 10 | 2.750 |
| W40190FTG | 3-5/8 | 1 | 8 | 4.170 |
| W40200FTG | 4-1/8 | 1 | 8 | 6.620 |

111 R, RR or BH SERIES* — REDUCING TEE

111R, RR or BH SERIES
REDUCING TEE



Copper to Copper to Copper

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|------------------|---------|-------------|---------------|
| W40308FTG | 1/4 x 1/4 x 3/16 | 50 | 1000 | .015 |
| W40368FTG | 1/4 x 1/4 x 3/8 | 50 | 1000 | .028 |
| W40332FTG | 3/8 x 1/4 x 1/4 | 50 | 1000 | .028 |
| W40330FTG | 3/8 x 1/4 x 3/8 | 50 | 1000 | .028 |
| W4005FTG | 3/8 x 3/8 x 1/2 | 50 | 500 | .047 |
| W40324FTG | 3/8 x 3/8 x 1/4 | 50 | 1000 | .028 |
| W4016FTG | 3/8 x 3/8 x 5/8 | 50 | 500 | .063 |
| W40350FTG | 1/2 x 1/2 x 1/4 | 50 | 500 | .047 |
| W4002FTG | 1/2 x 1/2 x 3/8 | 50 | 500 | .047 |
| W4015FTG | 1/2 x 1/2 x 5/8 | 50 | 500 | .063 |
| W40363FTG | 1/2 x 1/4 x 1/2 | 50 | 500 | .047 |
| W4003FTG | 1/2 x 3/8 x 1/2 | 50 | 500 | .047 |

111 R, RR or BH SERIES* — REDUCING TEE

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|-----------------------|---------|-------------|---------------|
| W40358FTG | 1/2 x 3/8 x 1/4 | 50 | 500 | .047 |
| W4004FTG | 1/2 x 3/8 x 3/8 | 50 | 500 | .047 |
| W40355FTG | 1/2 x 3/8 x 5/8 | 50 | 500 | .063 |
| W4067FTG | 5/8 x 5/8 x 1-1/8 | 10 | 100 | .320 |
| W4047FTG | 5/8 x 5/8 x 7/8 | 25 | 250 | .110 |
| W4029FTG | 5/8 x 5/8 x 3/4 | 50 | 500 | .100 |
| W4007FTG | 5/8 x 5/8 x 1/2 | 50 | 500 | .060 |
| W4008FTG | 5/8 x 5/8 x 3/8 | 50 | 500 | .060 |
| W4014FTG | 5/8 x 5/8 x 1/4 | 50 | 500 | .060 |
| W4009FTG | 5/8 x 1/2 x 5/8 | 50 | 500 | .060 |
| W4010FTG | 5/8 x 1/2 x 1/2 | 50 | 500 | .060 |
| W4011FTG | 5/8 x 1/2 x 1-3/8 | 50 | 500 | .060 |
| W4012FTG | 5/8 x 3/8 x 5/8 | 50 | 500 | .060 |
| W4013FTG | 5/8 x 3/8 x 3/8 | 50 | 500 | .060 |
| W4027FTG | 3/4 x 1/2 x 1/2 | 25 | 250 | .100 |
| W4025FTG | 3/4 x 1/2 x 3/4 | 25 | 250 | .100 |
| W4026FTG | 3/4 x 1/2 x 5/8 | 25 | 250 | .100 |
| W4020FTG | 3/4 x 3/4 x 3/8 | 25 | 250 | .100 |
| W4018FTG | 3/4 x 3/4 x 5/8 | 25 | 250 | .100 |
| W4046FTG | 3/4 x 3/4 x 7/8 | 50 | 500 | .150 |
| W4023FTG | 3/4 x 5/8 x 1/2 | 25 | 250 | .100 |
| W4065FTG | 7/8 x 7/8 x 1-1/8 | 10 | 100 | .330 |
| W4032FTG | 7/8 x 7/8 x 3/4 | 25 | 250 | .150 |
| W4033FTG | 7/8 x 7/8 x 5/8 | 25 | 250 | .140 |
| W4034FTG | 7/8 x 7/8 x 1/2 | 25 | 250 | .140 |
| W4035FTG | 7/8 x 7/8 x 3/8 | 25 | 250 | .100 |
| W4041FTG | 7/8 x 5/8 x 7/8 | 25 | 250 | .150 |
| W4043FTG | 7/8 x 5/8 x 5/8 | 25 | 250 | .130 |
| W4045FTG | 7/8 x 5/8 x 3/8 | 25 | 250 | .140 |
| W40231FTG | 7/8 x 1/2 x 5/8 | 25 | 250 | .140 |
| W4042FTG | 7/8 x 5/8 x 3/4 | 25 | 150 | .171 |
| W4082FTG | 1-1/8 x 1-1/8 x 1-3/8 | 5 | 50 | .460 |
| W40101FTG | 1-1/8 x 1-1/8 x 1-5/8 | 5 | 50 | .660 |
| W4052FTG | 1-1/8 x 1-1/8 x 1/2 | 10 | 100 | .270 |
| W4051FTG | 1-1/8 x 1-1/8 x 5/8 | 10 | 100 | .270 |
| W4049FTG | 1-1/8 x 1-1/8 x 7/8 | 10 | 100 | .310 |
| W4061FTG | 1-1/8 x 5/8 x 1-1/8 | 10 | 100 | .330 |
| W4063FTG | 1-1/8 x 5/8 x 5/8 | 10 | 100 | .270 |
| W4062FTG | 1-1/8 x 5/8 x 7/8 | 10 | 100 | .310 |
| W4055FTG | 1-1/8 x 7/8 x 1-1/8 | 10 | 100 | .330 |
| W4057FTG | 1-1/8 x 7/8 x 3/4 | 10 | 100 | .310 |
| W4058FTG | 1-1/8 x 7/8 x 5/8 | 10 | 100 | .270 |
| W4056FTG | 1-1/8 x 7/8 x 7/8 | 10 | 100 | .310 |
| W40100FTG | 1-3/8 x 1-3/8 x 1-5/8 | 5 | 50 | .690 |
| W40122FTG | 1-3/8 x 1-3/8 x 2-1/8 | 5 | 40 | 1.290 |
| W4069FTG | 1-3/8 x 1-3/8 x 1-1/8 | 5 | 50 | .450 |
| W4070FTG | 1-3/8 x 1-3/8 x 7/8 | 5 | 50 | .370 |
| W4071FTG | 1-3/8 x 1-3/8 x 5/8 | 5 | 50 | .320 |
| W4072FTG | 1-3/8 x 1-3/8 x 1/2 | 5 | 50 | .320 |
| W4073FTG | 1-3/8 x 1-1/8 x 1-3/8 | 5 | 50 | .460 |
| W4074FTG | 1-3/8 x 1-1/8 x 1-1/8 | 5 | 50 | .450 |
| W4075FTG | 1-3/8 x 1-1/8 x 7/8 | 5 | 50 | .370 |
| W4076FTG | 1-3/8 x 1-1/8 x 5/8 | 5 | 50 | .330 |
| W4078FTG | 1-3/8 x 7/8 x 1-3/8 | 5 | 50 | .470 |
| W4079FTG | 1-3/8 x 7/8 x 1-1/8 | 5 | 50 | .470 |
| W4080FTG | 1-3/8 x 7/8 x 7/8 | 5 | 50 | .370 |
| W4081FTG | 1-3/8 x 7/8 x 5/8 | 5 | 50 | .320 |
| W4083FTG | 1-3/8 x 5/8 x 1-3/8 | 5 | 50 | .450 |

*111R — Reducing on Outlet. 111RR — Reducing on Run.

111BH — Large Diameter Outlet.

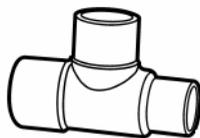
NOTE: Order Totaline® Copper Fittings by Part Number and Model Series Number.

* Part Numbers Ending in 'T' are Totaline's China sourced Fittings.

TOTALINE® COPPER ELBOWS & REDUCING TEES

TOTALINE® COPPER REDUCING TEES

111R, RR or BH SERIES



Fitting to Fitting P786

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|-----------------------|---------|-------------|---------------|
| W4097FTG | 1-5/8 x 1-1/8 x 1-1/8 | 5 | 50 | .610 |
| W4096FTG | 1-5/8 x 1-1/8 x 1-3/8 | 5 | 50 | .640 |
| W4095FTG | 1-5/8 x 1-1/8 x 1-5/8 | 5 | 50 | .690 |
| W40237FTG | 1-5/8 x 1-1/8 x 5/8 | 5 | 50 | .470 |
| W4098FTG | 1-5/8 x 1-1/8 x 7/8 | 5 | 50 | .560 |
| W4092FTG | 1-5/8 x 1-3/8 x 1-1/8 | 5 | 50 | .600 |
| W4091FTG | 1-5/8 x 1-3/8 x 1-3/8 | 5 | 50 | .640 |
| W4090FTG | 1-5/8 x 1-3/8 x 1-5/8 | 5 | 50 | .690 |
| W4094FTG | 1-5/8 x 1-3/8 x 5/8 | 5 | 50 | .470 |
| W4093FTG | 1-5/8 x 1-3/8 x 7/8 | 5 | 50 | .560 |
| W4086FTG | 1-5/8 x 1-5/8 x 1-1/8 | 5 | 50 | .610 |
| W4085FTG | 1-5/8 x 1-5/8 x 1-3/8 | 5 | 50 | .640 |
| W40121FTG | 1-5/8 x 1-5/8 x 2-1/8 | 5 | 40 | 1.290 |
| W4088FTG | 1-5/8 x 1-5/8 x 5/8 | 5 | 50 | .470 |
| W4087FTG | 1-5/8 x 1-5/8 x 7/8 | 5 | 50 | .570 |
| W40244FTG | 1-5/8 x 5/8 x 1-5/8 | 5 | 50 | .670 |
| W40240FTG | 1-5/8 x 7/8 x 1-1/8 | 5 | 50 | .600 |
| W40239FTG | 1-5/8 x 7/8 x 1-3/8 | 5 | 50 | .640 |
| W4099FTG | 1-5/8 x 7/8 x 1-5/8 | 5 | 50 | .680 |
| W40243FTG | 1-5/8 x 7/8 x 5/8 | 5 | 50 | .470 |
| W40238FTG | 1-5/8 x 7/8 x 7/8 | 5 | 50 | .550 |
| W40247FTG | 2-1/8 x 1-1/8 x 1-1/8 | 5 | 40 | .900 |
| W40245FTG | 2-1/8 x 1-1/8 x 2-1/8 | 5 | 40 | 1.290 |
| W40118FTG | 2-1/8 x 1-3/8 x 1-1/8 | 5 | 40 | 1.000 |
| W40117FTG | 2-1/8 x 1-3/8 x 1-3/8 | 5 | 40 | 1.030 |
| W40116FTG | 2-1/8 x 1-3/8 x 1-5/8 | 5 | 40 | 1.090 |
| W40115FTG | 2-1/8 x 1-3/8 x 2-1/8 | 5 | 40 | 1.300 |
| W40119FTG | 2-1/8 x 1-3/8 x 7/8 | 5 | 40 | .900 |
| W40112FTG | 2-1/8 x 1-5/8 x 1-1/8 | 5 | 40 | .950 |
| W40111FTG | 2-1/8 x 1-5/8 x 1-3/8 | 5 | 40 | 1.030 |
| W40110FTG | 2-1/8 x 1-5/8 x 1-5/8 | 5 | 40 | 1.080 |
| W40109FTG | 2-1/8 x 1-5/8 x 2-1/8 | 5 | 40 | 1.300 |
| W40113FTG | 2-1/8 x 1-5/8 x 7/8 | 5 | 40 | .900 |
| W40105FTG | 2-1/8 x 2-1/8 x 1-1/8 | 5 | 40 | .990 |
| W40104FTG | 2-1/8 x 2-1/8 x 1-3/8 | 5 | 40 | 1.030 |
| W40103FTG | 2-1/8 x 2-1/8 x 1-5/8 | 5 | 40 | 1.080 |
| W40144FTG | 2-1/8 x 2-1/8 x 2-5/8 | 1 | 10 | 1.900 |
| W40107FTG | 2-1/8 x 2-1/8 x 5/8 | 5 | 40 | .860 |
| W40106FTG | 2-1/8 x 2-1/8 x 7/8 | 5 | 40 | .920 |
| W40124FTG | 2-5/8 x 2-5/8 x 2-1/8 | 1 | 10 | 1.660 |
| W40125FTG | 2-5/8 x 2-5/8 x 1-5/8 | 1 | 10 | 1.410 |
| W40126FTG | 2-5/8 x 2-5/8 x 1-3/8 | 1 | 10 | 1.320 |
| W40127FTG | 2-5/8 x 2-5/8 x 1-1/8 | 1 | 10 | 1.340 |
| W40128FTG | 2-5/8 x 2-5/8 x 7/8 | 1 | 10 | 1.250 |
| W40129FTG | 2-5/8 x 2-5/8 x 5/8 | 1 | 10 | 1.060 |
| W40130FTG | 2-5/8 x 2-1/8 x 1-5/8 | 1 | 10 | 1.890 |
| W40131FTG | 2-5/8 x 2-1/8 x 2-1/8 | 1 | 10 | 1.630 |
| W40132FTG | 2-5/8 x 2-1/8 x 1-5/8 | 1 | 10 | 1.410 |
| W40138FTG | 2-5/8 x 1-5/8 x 2-1/8 | 1 | 10 | 1.630 |
| W40139FTG | 2-5/8 x 1-5/8 x 1-5/8 | 1 | 10 | 1.400 |
| W40220FTG | 2-5/8 x 1-3/8 x 2-5/8 | 1 | 10 | 1.890 |
| W40221FTG | 2-5/8 x 1-1/8 x 2-5/8 | 1 | 10 | 1.860 |
| W40222FTG | 2-5/8 x 7/8 x 2-5/8 | 1 | 10 | 1.870 |
| W40146FTG | 3-1/8 x 3-1/8 x 7/8 | 1 | 10 | 1.690 |
| W40147FTG | 3-1/8 x 3-1/8 x 1-1/8 | 1 | 10 | 1.900 |
| W40148FTG | 3-1/8 x 3-1/8 x 1-3/8 | 1 | 10 | 1.920 |
| W40149FTG | 3-1/8 x 3-1/8 x 1-5/8 | 1 | 10 | 2.050 |

TOTALINE® COPPER REDUCING TEES

111R, RR or BH SERIES

- High Quality Seamless Copper
 - Hard drawn
 - Refrigeration duty
 - Dehydrated and sealed
 - Close tolerance
- Dimensions:
OD ± .002", ID ± .0005"
- 50ft. Coiled Lengths

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|-----------------------|---------|-------------|---------------|
| W40150FTG | 3-1/8 x 3-1/8 x 2-1/8 | 1 | 10 | 2.270 |
| W40151FTG | 3-1/8 x 3-1/8 x 2-5/8 | 1 | 10 | 2.420 |
| W40156FTG | 3-1/8 x 2-5/8 x 1-5/8 | 1 | 10 | 2.000 |
| W40158FTG | 3-1/8 x 2-5/8 x 2-5/8 | 1 | 10 | 2.400 |
| W40164FTG | 3-1/8 x 2-1/8 x 2-1/8 | 1 | 10 | 2.270 |
| W40165FTG | 3-1/8 x 2-1/8 x 2-5/8 | 1 | 10 | 2.220 |
| W40192FTG | 4-1/8 x 4-1/8 x 7/8 | 1 | 16 | 4.150 |
| W40196FTG | 4-1/8 x 4-1/8 x 2-1/8 | 1 | 8 | 4.910 |
| W40197FTG | 4-1/8 x 4-1/8 x 2-5/8 | 1 | 8 | 5.260 |
| W40198FTG | 4-1/8 x 4-1/8 x 3-1/8 | 1 | 8 | 5.660 |
| W40204FTG | 4-1/8 x 3-1/8 x 2-1/8 | 1 | 8 | 4.710 |
| W40205FTG | 4-1/8 x 3-1/8 x 2-5/8 | 1 | 8 | 5.080 |

*111R — Reducing on Outlet.

111RR — Reducing on Run.

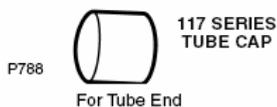
111BH — Large Diameter Outlet.

NOTE: Order Totaline® Fittings by Part Number and Model Series Number.

* Part Numbers Ending in 'T' are Totaline's China sourced Fittings.

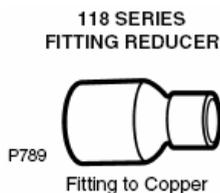
TOTALINE® COPPER PLUGS, TUBE CAPS & FITTINGS

117 SERIES — TUBE CAP



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| W7002FTG | 1/4 | 50 | 1000 | .003 |
| W7004FTG | 3/8 | 50 | 1000 | .005 |
| W7006FTG | 1/2 | 50 | 1000 | .009 |
| W7007FTG | 5/8 | 100 | 1000 | .016 |
| W7008FTG | 3/4 | 25 | 500 | .030 |
| W7009FTG | 7/8 | 50 | 500 | .040 |
| W7011FTG | 1-1/8 | 50 | 500 | .060 |
| W7012FTG | 1-3/8 | 25 | 250 | .100 |
| W7013FTG | 1-5/8 | 20 | 200 | .150 |
| W7014FTG | 2-1/8 | 10 | 100 | .260 |
| W7015FTG | 2-5/8 | 5 | 50 | .450 |
| W7016FTG | 3-1/8 | 5 | 50 | .690 |
| W7017FTG | 3-5/8 | 1 | 10 | .970 |
| W7018FTG | 4-1/8 | 1 | 10 | 1.340 |

118 SERIES — FITTING REDUCER



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|---------------|---------|-------------|---------------|
| W1302FTG | 1/4 x 1/8 | 50 | 1000 | .004 |
| W1306FTG | 3/8 x 1/4 | 50 | 1000 | .007 |
| P805-W1312T | 1/2 x 3/8 | 50 | 1000 | .014 |
| W1314FTG | 1/2 x 1/4 | 50 | 1000 | .016 |
| P805-W1315T | 5/8 x 1/2 | 50 | 1000 | .027 |
| W1317FTG | 5/8 x 3/8 | 50 | 1000 | .023 |
| P805-W1320T | 3/4 x 5/8 | 25 | 500 | .033 |
| W1321FTG | 3/4 x 1/2 | 25 | 500 | .035 |
| W1322FTG | 3/4 x 3/8 | 25 | 500 | .034 |
| P805-W1325T | 7/8 x 3/4 | 50 | 500 | .060 |
| P805-W1326T | 7/8 x 5/8 | 50 | 500 | .060 |
| W1327FTG | 7/8 x 1/2 | 50 | 500 | .040 |
| W1328FTG | 7/8 x 3/8 | 50 | 500 | .050 |
| W1337FTG | 1-1/8 x 7/8 | 25 | 250 | .100 |
| W1338FTG | 1-1/8 x 3/4 | 25 | 250 | .090 |
| W1339FTG | 1-1/8 x 5/8 | 25 | 250 | .100 |
| W1340FTG | 1-1/8 x 1/2 | 25 | 250 | .090 |
| W1343FTG | 1-3/8 x 1-1/8 | 10 | 100 | .150 |
| W1345FTG | 1-3/8 x 7/8 | 10 | 100 | .120 |
| W1347FTG | 1-3/8 x 5/8 | 10 | 100 | .150 |
| W1350FTG | 1-5/8 x 1-3/8 | 10 | 100 | .210 |
| W1351FTG | 1-5/8 x 1-1/8 | 10 | 100 | .200 |
| W1353FTG | 1-5/8 x 7/8 | 10 | 100 | .200 |
| W1355FTG | 1-5/8 x 5/8 | 10 | 100 | .190 |
| W1358FTG | 2-1/8 x 1-5/8 | 10 | 100 | .380 |
| W1359FTG | 2-1/8 x 1-3/8 | 10 | 100 | .340 |
| W1360FTG | 2-1/8 x 1-1/8 | 10 | 100 | .360 |
| W1362FTG | 2-1/8 x 7/8 | 10 | 100 | .380 |
| W1364FTG | 2-1/8 x 5/8 | 10 | 100 | .390 |
| W1367FTG | 2-5/8 x 2-1/8 | 5 | 50 | .620 |
| W1368FTG | 2-5/8 x 1-5/8 | 5 | 50 | .640 |
| W1369FTG | 2-5/8 x 1-3/8 | 5 | 50 | .610 |
| W1370FTG | 2-5/8 x 1-1/8 | 5 | 50 | .600 |
| W1376FTG | 3-1/8 x 2-5/8 | 2 | 20 | .870 |
| W1377FTG | 3-1/8 x 2-1/8 | 2 | 20 | .950 |

| | | | | |
|----------|---------------|---|----|-------|
| W1378FTG | 3-1/8 x 1-5/8 | 2 | 20 | .960 |
| W1379FTG | 3-1/8 x 1-3/8 | 2 | 20 | 1.020 |
| W1383FTG | 3-5/8 x 2-1/8 | 1 | 10 | 1.380 |
| W1386FTG | 4-1/8 x 3-5/8 | 2 | 32 | 1.850 |
| W1387FTG | 4-1/8 x 3-1/8 | 2 | 32 | 1.870 |
| W1388FTG | 4-1/8 x 2-5/8 | 2 | 32 | 1.970 |
| W1389FTG | 4-1/8 x 2-1/8 | 2 | 32 | 2.060 |

NOTE: Order Totaline® Copper Fittings by Part Number and Model Series Number.

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TOTALINE® COPPER FITTINGS

TOTALINE® COPPER FITTINGS

TOTALINE® COPPER BUSHINGS, FITTING REDUCERS P-TRAPS & BENDS

1193 SERIES — FLUSH TYPE BUSHING

1193 SERIES
FLUSH TYPE
BUSHING



P790

Fitting to
Female N.P.T.

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| A7812FTG | 5/8 x 1/8 | 50 | 1000 | .036 |

119 SERIES — FLUSH TYPE FITTING REDUCER

119 SERIES
FLUSH TYPE
FITTING REDUCER



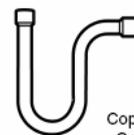
P791

Fitting to
Copper

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|---------------|---------|-------------|---------------|
| W1706FTG | 3/8 x 1/4 | 50 | 1000 | .008 |
| W1712FTG | 1/2 x 3/8 | 50 | 1000 | .012 |
| W1714FTG | 1/2 x 1/4 | 50 | 1000 | .021 |
| W1715FTG | 5/8 x 1/2 | 50 | 1000 | .022 |
| W1717FTG | 5/8 x 3/8 | 50 | 1000 | .037 |
| W1720FTG | 3/4 x 5/8 | 25 | 500 | .030 |
| W1722FTG | 3/4 x 3/8 | 25 | 500 | .077 |
| W1725FTG | 7/8 x 3/4 | 50 | 500 | .040 |
| W1726FTG | 7/8 x 5/8 | 50 | 500 | .080 |
| W1737FTG | 1-1/8 x 7/8 | 25 | 250 | .120 |
| W1738FTG | 1-1/8 x 3/4 | 25 | 250 | .180 |
| W1739FTG | 1-1/8 x 5/8 | 25 | 250 | .220 |
| W1743FTG | 1-3/8 x 1-1/8 | 25 | 250 | .160 |
| W1750FTG | 1-5/8 x 1-3/8 | 20 | 200 | .210 |
| W1758FTG | 2-1/8 x 1-5/8 | 5 | 50 | .660 |

123 SERIES — SUCTION LINE P-TRAP

123 SERIES
SUCTION LINE
P-TRAP



Copper to
Copper

P792

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|--------------|--------------|---------|-------------|---------------|
| W60999FTG | 5/8 | 5 | 50 | .200 |
| W61008FTG | 3/4 | 10 | 60 | .480 |
| P805-W61000T | 7/8 | 10 | 60 | .590 |
| W61001FTG | 1-1/8 | 10 | 10 | 1.090 |
| W61002FTG | 1-3/8 | 5 | 5 | 1.890 |
| W61003FTG | 1-5/8 | 5 | 5 | 3.710 |
| W61009FTG | 2-1/8 | 3 | 3 | 3.710 |

138 SERIES — RETURN BEND

138 SERIES
RETURN
BEND



Copper to
Copper

P794

| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-----------|---------------|---------|-------------|---------------|
| W6020FTG | 3/8 x 1-1/2 | 50 | 500 | .029 |
| W6041FTG | 1/2 x 3 | 25 | 250 | .085 |
| W6036FTG | 1/2 x 2 | 25 | 250 | .066 |
| W6032FTG | 1/2 x 1-1/2 | 25 | 250 | .053 |
| W6060FTG | 5/8 x 3 | 25 | 250 | .130 |
| W6058FTG | 5/8 x 2-1/2 | 25 | 250 | .110 |
| W6092FTG | 7/8 x 2-1/2 | 10 | 100 | .190 |
| W60111FTG | 1-1/8 x 3-1/4 | 5 | 50 | .350 |
| W60110FTG | 1-1/8 x 3 | 5 | 50 | .330 |
| W60140FTG | 2-1/8 x 5-1/2 | 4 | 32 | 1.750 |
| W60121FTG | 3-1/8 x 3-3/4 | - | - | - |
| W60131FTG | 1-5/8 x 4-1/2 | - | - | - |
| W6053FTG | 5/8 x 1-7/8 | - | - | - |

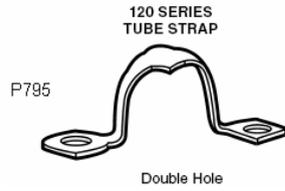
NOTE: Order Totaline® Copper Fittings by Part Number and Model Series Number.

* Part Numbers Ending in 'T' are Totaline's China sourced Fittings.

TOTALINE® COPPER FITTINGS & DATA

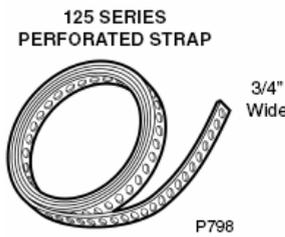
TOTALINE® COPPER TUBE STRAPS, EAR HANGERS & PERFORATED STRAPS

120 SERIES - STRAP



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|-------------|--------------|---------|-------------|---------------|
| A1203FTG | 1/4 | 100 | 2000 | .005 |
| A1278FTG | 3/8 | 100 | 2000 | .007 |
| A1366FTG | 1/2 | 100 | 2000 | .008 |
| A2529FTG | 5/8 | 100 | 1000 | .009 |
| A1467FTG | 3/4 | 100 | 1000 | .011 |
| A2574FTG | 7/8 | 100 | 1000 | .012 |
| A2614FTG | 1-1/8 | 100 | 1000 | .014 |
| A2650FTG | 1-3/8 | 50 | 500 | .041 |
| P805-A2675T | 1-5/8 | 50 | 500 | .048 |
| A2708FTG | 2-1/8 | 100 | 800 | .063 |

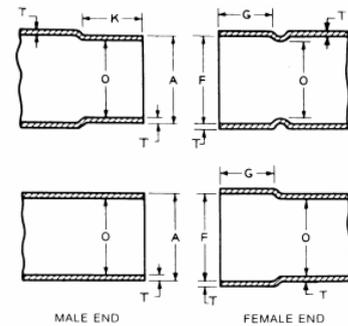
125 SERIES - PERFORATED STRAP



| PART NO | OD SIZE (in) | BOX QTY | MASTER PACK | APPROX NET WT |
|----------|--------------|---------|-------------|---------------|
| A1211FTG | 25 Ft. Roll | 6 | 72 | 1.8 |

COPPER AND BRONZE / SOLDER-JOINT PRESSURE FITTINGS

DIMENSIONS OF SOLDERED JOINT ENDS (Dimensions in Inches)



P391

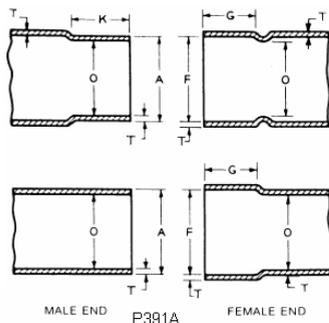
| STAND- ARD WATER TUBE SIZE | MALE END | | | FEMALE END | | | METAL THICK- NESS T | INSIDE DIA. OF FITTING O |
|-------------------------------------|----------------|-------|----------|---------------|-------|---------|---------------------------|--------------------------------|
| | OUTSIDE DIA. A | | LENGTH K | INSIDE DIA. F | | DEPTH G | | |
| | MIN. | MAX. | MIN. | MIN. | MAX. | MIN. | | |
| 1/8 | 0.248 | 0.251 | 0.38 | 0.252 | 0.256 | 0.31 | 0.022 | 0.18 |
| 1/4 | 0.373 | 0.376 | 0.38 | 0.377 | 0.381 | 0.31 | 0.026 | 0.30 |
| 3/8 | 0.497 | 0.501 | 0.44 | 0.502 | 0.506 | 0.38 | 0.031 | 0.39 |
| 1/2 | 0.622 | 0.626 | 0.56 | 0.627 | 0.631 | 0.50 | 0.036 | 0.52 |
| 5/8 | 0.747 | 0.751 | 0.69 | 0.752 | 0.756 | 0.62 | 0.038 | 0.63 |
| 3/4 | 0.872 | 0.876 | 0.81 | 0.877 | 0.881 | 0.75 | 0.041 | 0.74 |
| 1 | 1.122 | 1.127 | 0.97 | 1.128 | 1.132 | 0.91 | 0.046 | 0.98 |
| 1-1/4 | 1.372 | 1.377 | 1.03 | 1.378 | 1.382 | 0.97 | 0.050 | 1.23 |
| 1-1/2 | 1.621 | 1.627 | 1.16 | 1.628 | 1.633 | 1.09 | 0.055 | 1.47 |
| 2 | 2.121 | 2.127 | 1.41 | 2.128 | 2.133 | 1.34 | 0.064 | 1.94 |
| 2-1/2 | 2.621 | 2.627 | 1.53 | 2.628 | 2.633 | 1.47 | 0.074 | 2.42 |
| 3 | 3.121 | 3.127 | 1.72 | 3.128 | 3.133 | 1.66 | 0.083 | 2.89 |
| 3-1/2 | 3.621 | 3.627 | 1.97 | 3.628 | 3.633 | 1.91 | 0.093 | 3.37 |
| 4 | 4.121 | 4.127 | 2.22 | 4.128 | 4.133 | 2.16 | 0.101 | 3.84 |
| 5 | 5.121 | 5.127 | 2.72 | 5.128 | 5.133 | 2.66 | 0.115 | 4.70 |
| 6 | 6.121 | 6.127 | 3.22 | 6.128 | 6.133 | 3.09 | 0.130 | 5.72 |
| 8 | 8.119 | 8.127 | 4.09 | 8.128 | 8.133 | 3.97 | 0.186 | 7.55 |

Extracted from American National Standard Wrought-Copper and Wrought-Bronze Solder-Joint Pressure Fittings (ANSI B16.22) with the permission of the publisher. The American Society of Mechanical Engineers, 345 East 47th Street, New York, N.Y.

TOTALINE® COPPER FITTINGS DATA

COPPER SOLDER-JOINT DRAINAGE FITTINGS

DIMENSIONS OF SOLDERED JOINT ENDS (Dimensions in Inches)



| STANDARD WATER TUBE SIZE | MALE END | | | FEMALE END | | | METAL THICKNESS T | INSIDE DIA. OF FITTING O |
|--------------------------|----------------|-------|----------|---------------|-------|---------|-------------------|--------------------------|
| | OUTSIDE DIA. A | | LENGTH K | INSIDE DIA. F | | DEPTH G | | |
| | MIN. | MAX. | MIN. | MIN. | MAX. | MIN. | | |
| 1-1/4 | 1.372 | 1.377 | 0.56 | 1.378 | 1.382 | 0.50 | 0.040 | 1.29 |
| 1-1/2 | 1.621 | 1.627 | 0.62 | 1.628 | 1.633 | 0.56 | 0.042 | 1.53 |
| 2 | 2.121 | 2.127 | 0.69 | 2.128 | 2.133 | 0.62 | 0.042 | 2.01 |
| 3 | 3.121 | 3.127 | 0.81 | 3.128 | 3.133 | 0.75 | 0.045 | 2.98 |
| 4 | 4.121 | 4.127 | 1.06 | 4.128 | 4.133 | 1.00 | 0.058 | 3.93 |

Extracted from American National Standard Wrought-Copper and Wrought-Bronze Solder-Joint Pressure Fittings (ANSI B16.22) with the permission of the publisher. The American Society of Mechanical Engineers, 345 East 47th Street, New York, N.Y.

LARGE DIAMETER, WELDED DESIGN COPPER FITTINGS

FITTING MATERIAL: Copper Allow #122, Phosphorus Deoxidized- High Residual Phosphorus (DHP).

Composition: 99% Copper; .015-.040% Phosphorus.

WELD MATERIAL: Silicon Bronze. Meets specification American Welding Society (AWS) A5.7-69 and American Metals Society (AMS) 4616 B.

WELD SPECIFICATIONS: Tensile Strength - Up to 58,000 PSI Yield Strength - Up to 25,000 PSI Elongation in '2' - 53 to 55% Hardness - 80 to 100 Brinell (500 kg. Load) Temperature: Melt 18320F, Flow 19310F.

METHOD OF JOINING: Electric Weld.

DIMENSIONS & SPECIFICATIONS: Welded fittings are produced in accordance with specifications shown in American National Standard (ANSI) B16.22 for wrought copper, and bronze solder-joint pressure fittings.

TESTING: Each fitting is individually tested with air under water. The bursting pressure of the weld exceeds that of straight, seamless ASTM B88-70 Type "U" copper water tube, annealed, of comparable diameter.

COPPER TUBE STANDARD DIMENSIONS AND WEIGHTS (Dimensions in Inches)

| NOMINAL TUBE SIZE | OUTSIDE DIA. | INSIDE DIAMETER | | | | WALL THICKNESS | | | | POUNDS PER LINEAR FOOT† | | | |
|-------------------|-----------------|-----------------|--------|--------|----------|----------------|--------|--------|----------|-------------------------|--------|--------|----------|
| | TYPES K-L-M DWV | TYPE K | TYPE L | TYPE M | TYPE DWV | TYPE K | TYPE L | TYPE M | TYPE DWV | TYPE K | TYPE L | TYPE M | TYPE DWV |
| 1/4 | .375 | .305 | .315 | - | - | .035 | .030 | .025 | - | .145 | .126 | .106 | - |
| 3/8 | .500 | .402 | .430 | - | - | .049 | .035 | .025 | - | .269 | .198 | .145 | - |
| 1/2 5/8 | .625 .750 | .527 | .545 | - | - | .049 | .040 | .028 | - | .344 | .285 | .204 | - |
| | | .652 | .666 | - | - | .049 | .042 | .030 | - | .418 | .362 | .263 | - |
| 3/4 | .875 | .745 | .785 | - | - | .065 | .045 | .032 | - | .641 | .455 | .328 | - |
| 1 | 1.125 | .995 | 1.025 | - | - | .065 | .050 | .035 | - | .839 | .655 | .465 | - |
| 1-1/4 | 1.375 | 1.245 | 1.265 | 1.291 | 1.295 | .065 | .055 | .042 | .040 | 1.04 | .884 | .682 | .650 |
| 1-1/2 | 1.625 | 1.481 | 1.505 | 1.527 | 1.541 | .072 | .060 | .049 | .042 | 1.36 | 1.14 | .940 | .809 |
| 2 | 2.125 | 1.959 | 1.985 | 2.009 | 2.041 | .083 | .070 | .058 | .042 | 2.06 | 1.75 | 1.46 | 1.07 |
| 2-1/2 | 2.625 | 2.435 | 2.465 | 2.495 | - | .095 | .080 | .065 | - | 2.93 | 2.48 | 2.03 | - |
| 3 | 3.125 | 2.907 | 2.945 | 2.981 | 3.035 | .109 | .090 | .072 | .045 | 4.00 | 3.33 | 2.68 | 1.69 |
| 3-1/2 | 3.625 | 3.385 | 3.425 | 3.459 | - | .120 | .100 | .083 | - | 5.12 | 4.29 | 3.58 | - |
| 4 | 4.125 | 3.857 | 3.905 | 3.935 | 4.009 | .134 | .110 | .095 | .058 | 6.51 | 5.38 | 4.66 | 2.87 |
| 5 | 5.125 | 4.805 | 4.875 | 4.907 | 4.981 | .160 | .125 | .109 | .072 | 9.67 | 7.61 | 6.66 | 4.43 |
| 6 | 6.125 | 5.741 | 5.845 | 5.881 | 5.959 | .192 | .140 | .122 | .083 | 13.9 | 10.2 | 8.92 | 6.10 |
| 8 | 8.125 | 7.583 | 7.725 | 7.785 | - | .271 | .200 | .170 | - | 25.9 | 19.3 | 16.5 | - |

†Slight variations from these weights must be expected in practice.

TOTALINE® COPPER FITTINGS DATA

COPPER TUBE, CALCULATED BURSTING PRESSURE*

| NOMINAL TUBE SIZE (in.) | OUTSIDE DIA. (in.) | INSIDE DIAMETER (in.) | | WALL THICKNESS (in.) | | BURSTING PRESSUR (lbs per sq in.) | | | |
|-------------------------------|-----------------------|--------------------------|--------|-------------------------|--------|--------------------------------------|--------------------|-----------------|--------------------|
| | | TYPE K | TYPE L | TYPE K | TYPE L | TYPE K | | TYPE L | |
| | | | | | | HARD (DRAWN) | SOFT (ANNEALED) | HARD (DRAWN) | SOFT (ANNEALED) |
| 1/4 | .375 | .305 | .315 | .035 | .030 | 6,700 | 5,600 | 5,800 | 4,800 |
| 3/8 | .500 | .402 | .430 | .049 | .035 | 7,100 | 5,900 | 5,000 | 4,200 |
| 1/2 | .625 | .527 | .545 | .049 | .040 | 5,600 | 4,700 | 4,600 | 3,800 |
| 5/8 | .750 | .652 | .666 | .049 | .042 | 4,700 | 3,900 | 4,000 | 3,400 |
| 3/4 | .875 | .745 | .785 | .065 | .045 | 5,300 | 4,500 | 3,700 | 3,100 |
| 1 | 1.125 | .995 | 1.025 | .065 | .050 | 4,200 | 3,500 | 3,200 | 2,700 |
| 1-1/4 | 1.375 | 1.245 | 1.265 | .065 | .055 | 3,400 | 2,800 | 2,900 | 2,400 |
| 1-1/2 | 1.625 | 1.481 | 1.505 | .072 | .060 | 3,200 | 2,700 | 2,700 | 2,200 |
| 2 | 2.125 | 1.959 | 1.985 | .083 | .070 | 2,800 | 2,300 | 2,400 | 2,000 |
| 2-1/2 | 2.625 | 2.435 | 2.465 | .095 | .080 | 2,600 | 2,200 | 2,200 | 1,800 |
| 3 | 3.125 | 2.907 | 2.945 | .109 | .090 | 2,500 | 2,100 | 2,100 | 1,700 |
| 3-1/2 | 3.625 | 3.385 | 3.425 | .120 | .100 | 2,400 | 2,000 | 2,000 | 1,700 |
| 4 | 4.125 | 3.857 | 3.905 | .134 | .110 | 2,300 | 1,900 | 1,900 | 1,600 |
| 5 | 5.125 | 4.805 | 4.875 | .160 | .125 | 2,200 | 1,900 | 1,800 | 1,500 |
| 6 | 6.125 | 5.741 | 5.845 | .192 | .140 | 2,300 | 1,900 | 1,600 | 1,400 |
| 8 | 8.125 | 7.583 | 7.725 | .271 | .200 | 2,400 | 2,000 | 1,800 | 1,500 |

*Bursting Pressures are calculated from the following formula for thin, hollow cylinders under tension:

$$P = 2tS / D$$

Where P = Bursting Pressure, lb. per sq. in.
t = Wall Thickness, inches
D = Outside Tube Diameter, inches
S = Tensile Strength (36,000 lb. per sq. in. for hard tubes and 30,000 for soft tubes)

With factor of safety of 5, maximum working pressure allowable by common usage up to 150° F can be taken at 1/5 the above bursting pressures.

SOLDERING AND BRAZING COPPER TUBE

Soldering and Brazing with capillary solder joint fittings is the most common system for joining copper tube. The American Welding Society defines soldering as a joining process which takes place below 840° and brazing as a similar process which occurs above 840°. The basic theory and technique of soldering and brazing are the same for all diameters ... the variables are: the amount of time, heat and filler metal required to complete a designated joint. A good joint is the product of a well trained craftsman who knows and respects the materials and methods he uses.

BASIC STEPS IN JOINING PROCESS

Measuring - Measuring the length of the tube must be accurate. If the tube is too short it will not reach all the way into the socket of the fitting and a proper joint cannot be made.

Cutting - Cutting tube can be accomplished in a number of different ways to produce a satisfactory, square-end cut. The tube can be cut with a disc type tube cutter, a hacksaw, abrasive wheels, or stationary and portable bandsaws. Care must be taken that the tube is not deformed while being cut. Regardless of the cutting method used, the cut must be square with the run of the tube so that it will seat properly in the fitting socket.

Reaming - Most methods of cutting leave a small burr on the end of the tube. Unless these rough edges are removed, erosion-corrosion may occur due to local turbulence and increased velocities in the tube. Tools used to ream tube ends include the reaming blade on the tube cutter half-round or round files, a pocket knife, or a suitable deburring tool. With annealed tube, care must be taken not to get the tube end out-of-round by applying too much pressure. Both the inside and the outside of the tube may require removal of the burr. A properly reamed piece of tube will provide a smooth surface for better flow.

Cleaning - Cleaning is quickly and easily done. The removal of oxides and surface soil is crucial if filler metal is to flow properly. Oxides, surface soil and oil can interfere with the strength of the joint and this may result in the joint's failure. Mechanical cleaning is a simple operation. The end of the tube should be cleaned using sand cloth or nylon abrasive pads for a distance only slightly more than the depth of the fitting socket. The socket of the fitting should also be cleaned using sand cloth, abrasive pads, or properly sized fitting brushes. The same precautions, as when reaming the tube, should be observed. Copper is a soft metal; if too much material is removed, a loose fit will result and interfere with satisfactory capillary action in making the joint. The capillary space between tube and fitting is approximately .004 in. Solder or brazing filler metal can fill this gap by capillary action. This spacing is critical for the filler metal to flow into the gap and form a strong joint. Chemical cleaning may be utilized, providing the tube and fittings are thoroughly rinsed according to the manufacturer's recommendations furnished with the cleaner. This will help neutralize any acidic conditions that may exist. The surfaces, once cleaned, should not be touched with bare hands or oily gloves. Skin oils, lubricating oils and grease impair solder flow and wetting.

TEMPERATURE RANGES

Up to this point, the joining process is the same for both soldering and brazing. The choice for soldering or brazing will depend upon operating conditions. Solder joints are generally used where the system temperatures do not exceed 250° F and brazed joints can be used where greater strengths are required, or where system temperatures are as high as 350° F. In actual practice, most soldering is done at temperatures about 350° F to 550° F, while brazing is done at temperatures ranging from 1100° F to 1550° F. Because of the differences in the soldering and brazing processes, each will be discussed separately.

COPPER TUBE, CALCULATED BURSTING PRESSURE*

SOLDERING:

Applying Flux - A non-aggressive soldering flux is recommended. Stir the flux before use. A good flux will dissolve and remove traces of residual oxides from the surfaces to be joined, protect the surfaces from re-oxidation during heating and promote the wetting of the surfaces by the solder. A thin, even coating of flux should be applied with a brush to both tube and fitting. Avoid the use of fingers to apply flux. Chemicals in the flux can be harmful if carried to the eyes of open cuts.

Types of Solder - There are a variety of solders available that will produce sound, leak-tight joints. Solders that are used for piping applications contain tin and varying amounts of either antimony, copper, lead or silver. Choice of solder will depend upon application and local codes. For potable water systems, solders which do not contain lead are the best choice.

Assembly - After both surfaces are properly fluxed, they should be assembled by placing the fitting on the tube, making sure the tube seats against the base of the fitting socket. A slight twisting motion is suggested to ensure even coverage by the flux. Remove the excess flux with a rag. Because of the heat that is required during soldering and brazing, only cotton rags should be used. Complete all prepared joints within a single work day. Care must be taken to assure that the tube and fittings are properly supported with a reasonable, uniform capillary space around the entire circumference of the joint. Uniformity of capillary space will ensure good filler metal penetration if the guidelines of successful joint making are followed. Excessive joint clearance can cause the filler metal to crack under stress or vibration.

Heating - Because of the open flame and high temperatures required for soldering and the flammability of the gases used, safety precautions must be observed. The heat is generally applied by use of an air/fuel torch. These torches can use acetylene or a variety of LP gases. Electric resistance pliers can also be used. Heating should begin with the flame perpendicular to the tube. This preheat will conduct the initial heat into the socket for even distribution of heat inside and out. Preheating depends upon the size of the joint - experience will indicate the proper amount of time. The flame should now be moved onto the fitting. Move the flame from the fitting socket onto the tube a distance equal to the fitting socket. Touch the solder to the joint. If the solder does not melt, remove it and continue the heating process. Be careful not to overheat or direct the flame into the fitting cup. This action can cause the flux to burn and destroy its effectiveness. When the melting temperature has been reached, heat may be applied to the base of the cup to aid capillary action in drawing the solder into the cup.

Applying Solder - When the tube is in a horizontal position, start applying the solder slightly off-center of the bottom of the joint. Proceed across the bottom of the fitting and up to the top-center position. Return to the point of beginning, overlap the starting point and then proceed up the incompleting side to the top. Again, overlapping the solder. Molten solder will be drawn into the joint by capillary action regardless if the solder is being fed upward, downward or horizontally. **Cooling & Cleaning** - After the joint has been completed, natural cooling is best. Shock cooling may cause unnecessary stresses on the joint and may result in eventual failure. Clean off any remaining flux with a wet rag.

BRAZING:

Applying Flux - The fluxes used for brazing copper joints are different in composition from soldering fluxes. They cannot, and should not, be used interchangeably.

Brazing fluxes are water based. Similar to soldering fluxes, brazing fluxes dissolve and remove residual oxides from the metal surfaces, they protect the metal surfaces from re-oxidation during heating and they promote the wetting of the surfaces to be joined by the brazing filler metal. Fluxes also provide the craftsman with an indication of temperature. Application of the flux is the same as when soldering. If the outside of the fitting and the heat affected area of the tube are covered with flux, it will prevent oxidation and greatly improve the appearance of the joint.

Brazing Filler Metals - There are two general types of brazing filler metals used for joining copper tube: BCuP (Brazing - Copper - Phosphorus) and BAg (Brazing - Silver). These brazing filler metals are classified according to their components. BCuP filler metals are preferred for joining copper tube and fittings. The phosphorus in these filler metals acts as a fluxing agent and the lower percentage of silver makes them relatively low cost filler metals. When using copper tube, wrought copper fittings and BCuP brazing filler metal, fluxing is an option due to the self-fluxing action of the phosphorus present in all components of the brazed joint. The choice of brazing filler metals depends upon four main factors:

- 1) dimensional tolerance of the joint
- 2) type and material of fitting (cast or wrought)
- 3) desired appearance
- 4) cost.

Heating - Oxy/fuel torches are generally used when brazing because of the higher temperatures required. Due to recent innovations in air/fuel torch tip design, they can now be used on a wider variety of sizes for soldering and brazing. When working with temperatures this high, safety precautions must be followed and care taken to protect both the operator and the materials being used. The heating operation is the same as for soldering. First preheat the tube and then the tube and fitting. When the brazing filler metal starts to melt, apply the heat at the base of the fitting socket to help draw the brazing filler metal by capillary action.

Applying Brazing Filler Metal - Remember to allow the heat of the joint to melt the filler metal. Do not melt the filler metal with the torch. The melted filler metal will be drawn into the joint by capillary action. It is very important that the flame be in continuous motion and should not be allowed to remain on any one point long enough to burn through the tube or fitting. When the joint is complete, a continuous fillet should be visible completely around the joint. If the filler metal fails to flow, or has the tendency to ball-up, it indicates oxidation on the metal surfaces or insufficient heat on the parts to be joined. If the filler metal refuses to enter the joint and tends to flow over the outside of either part of the joint, it indicates that this part is overheated or that the other part is underheated.

Cooling and Cleaning - When the joint is complete, allow it to cool naturally. Flux residues can be removed by washing with hot water and brushing with a stainless steel wire brush.

SUMMARY

If the parts to be joined are properly prepared, properly heated and the correct filler metal is used the finished joint should be sound. Soldered or brazed copper piping systems, when installed properly, will provide years of safe and reliable service. Proper training of the correct installation techniques, such as those just covered, will give the craftsman the ability to achieve consistently reliable soldered and brazed joints in all diameters. Prepared with technical assistance from the Copper Development Association.

PVC FITTINGS

NIBCO PVC FITTINGS

PVC fittings are widely used in the HVAC industry for both condensate drain and high efficiency gas furnace venting. Both the condensate drain and furnace venting fittings have the same wall thickness. Furnace venting fittings are referred to as DWV fittings while condensate drain fittings are called Schedule 40.

Schedule 40

Schedule 40 fittings are used in the condensate drain line on residential and commercial air conditioning, primarily in 1/2 and 3/4 inch sizes. The wide availability of Schedule 40 fittings has made them the most economical choice for HVAC applications. Schedule 40 fittings are designed to handle higher pressures than DWV fittings because they can be used in commercial irrigation and potable water supply lines. HVAC applications do not require a high pressure rating, however; DWV fittings are not available in the smaller sizes required for these applications.

SCHEDULE 40 PVC FITTINGS

| PART NO | DESCRIPTION | STD-PK-QTY |
|---------|---------------------------------|------------|
| 401-005 | 401-005 1/2 SXSXS TEE PVC 40 | 50 |
| 401-007 | 401-007 3/4 SXSXS TEE PVC 40 | 50 |
| 401-025 | 401-025 2-1/2 SXSXS TEE PVC 40 | 10 |
| 402-005 | 402-005 1/2 SXSXFIPT TEE PVC40 | 50 |
| 402-007 | 402-007 3/4 SXSXFIPT TEE PVC40 | 50 |
| 406-005 | 406-005 1/2 SXS 90DG ELB PVC40 | 50 |
| 406-007 | 406-007 3/4 SXS 90DG ELB PVC40 | 50 |
| 406-025 | 406-025 2-1/2SXS 90DG ELB PVC40 | 10 |
| 407-005 | 1/2 SXFIPT 90DEGREE ELL PVC 40 | 50 |
| 407-007 | 3/4 SXFIPT 90 DEG.ELL PVC 40 | 50 |
| 409-005 | 1/2 SPGXS 90 STREET ELB.PVC 40 | 50 |
| 409-007 | 3/4 SPGXS 90 STREET ELB.PVC 40 | 50 |
| 417-005 | 1/2 SXS 45 DEG.ELBOW PVC 40 | 50 |
| 417-007 | 3/4 SXS 45 DEG.ELBOW PVC 40 | 50 |
| 417-025 | 2-1/2 SXS 45 DEG.ELBOW PVC 40 | 10 |
| 429-005 | 1/2 SLIP COUPLING PVC 40 | 100 |
| 429-007 | 3/4 SLIP COUPLING PVC 40 | 50 |
| 429-025 | 2-1/2 SLIP COUPLING PVC 40 | 10 |
| 435-005 | 1/2 SXFIPT FEMALE ADPT.PVC 40 | 100 |
| 435-007 | 3/4 SXFIPT FEMALE ADPT.PVC 40 | 50 |
| 436-005 | 1/2 MIPTXS MALE ADAPTER PVC 40 | 100 |
| 436-007 | 3/4 MIPTXS MALE ADAPTER PVC 40 | 50 |
| 437-101 | 3/4X1/2 SPXS RED BUSHING PVC40 | 100 |
| 437-339 | 3X21/2 SPXS RED BUSHING PVC 40 | 10 |
| 447-005 | 1/2 SLIP CAP PVC 40 | 100 |
| 447-007 | 3/4 SLIP CAP PVC 40 | 100 |
| 450-005 | 1/2 MIPT PLUG PVC 40 | 50 |
| 450-007 | 3/4 MIPT PLUG PVC 40 | 50 |

DWV

DWV FITTINGS

DWV fittings are used to vent high efficiency furnaces, primarily in 2 and 3 inch sizes (the most commonly found on OEM equipment). Occasionally, the OEM will supply a 2-1/2 fitting. Unfortunately, DWV fittings do not come in 2-1/2 inch and the contractor must use Schedule 40 fittings for the entire installation, or install a 2-1/2 to 3-in. fitting and complete the installation with 3-in. DWV fittings. DWV fittings are available in long turn elbows in order to have as free a flow as possible in venting applications; Schedule 40 fittings are not available in a long turn elbow.

| PART NO | DESCRIPTION | STD-PK-QTY |
|-------------|-------------------------------|------------|
| 4801-2 | 2 HXH COUPLING | 100 |
| 4801-3 | 3 HXH COUPLING | 50 |
| 4801-3X2 | 3X2 HXH COUPLING | 50 |
| 4806-2 | 2 HXH 45 ELBOW | 50 |
| 4806-2-2 | 2 SPGXH 45 STREET ELBOW | 50 |
| 4806-2-3 | 3 SPGX 45 STREET ELBOW | 20 |
| 4806-3 | 3 HXH 45 BELOW | 20 |
| 4807-2 | 2 HXH 90 ELBOW | 50 |
| 4807-2-2 | 2 SPGXH 90 STREET ELBOW | 50 |
| 4807-2-3 | 3 SPGXH 90 STREET ELBOW | 20 |
| 4807-2-LT-2 | 2 SPGXH 90 ST.LONG TURN ELBOW | 20 |
| 4807-2-LT-3 | 3 SPGXH 90 ST.LONG TURN ELBOW | 20 |
| 4807-3 | 3 HXH 90 ELBOW | 25 |
| 4807-LT-2 | 2 HXH 90 LONG TURN ELBOW | 25 |
| 4807-LT-3 | 3 HXH 90 LONG TURN ELBOW | 20 |
| 4811-2 | 2 HXHXH TEE | 35 |
| 4811-3 | 3 HXHXH TEE | 20 |