



Submittal Package

Job Name _____ Contractor _____
 Job Location _____ Wholesaler _____
 Engineer _____ NIBCO Sales Rep _____

- | | | | |
|--|---|---|---|
| <input type="checkbox"/> Potable Water | <input type="checkbox"/> Hydronic Heating | <input type="checkbox"/> Chilled Water | <input type="checkbox"/> Cooling Water |
| <input type="checkbox"/> Compressed Air (dry system) | <input type="checkbox"/> Oxygen (non-medical) | <input type="checkbox"/> Nitrogen | <input type="checkbox"/> Carbon Dioxide |
| <input type="checkbox"/> Argon | <input type="checkbox"/> Hydrogen | <input type="checkbox"/> Vacuum Systems | |

PRODUCT DESCRIPTION

NIBCO[®] mechanical press copper fittings for use in plumbing or mechanical applications. Available sizes range from ½" through 4" in diameter. Product is designed to join ASTM B88 (Types K, L, M) hard drawn copper tube (½" through 4") as well as soft copper tube (½", ¾" and 1"). Fittings are approved for installations in both above and below ground applications. Per code, local inspector approval must be obtained prior to installation below ground.

STANDARDS AND CODES

- Uniform Plumbing Code*: UPC
- Uniform Mechanical Code*: UMC
- ASME B16.51 Performance
- State of Massachusetts (Plumbing)
- International Residential Code[®]
- International Mechanical Code[®]
- International Plumbing Code[®]

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THIRD PARTY LISTINGS AND CERTIFICATIONS

- NSF/ANSI/CAN 61
- NSF/ANSI/CAN 372
- ASME B16.51 (½" through 2")
- IAPMO PS-117
- ICC-ES LC 1002
- International Code Council-Evaluation Service PMG 1098
- American Bureau of Shipping

OPERATING PARAMETERS

- Operating Pressure: 200 PSI maximum
- Water Test Pressure: 50 PSI maximum
- Air Test Pressure: 15 PSI maximum
- Operating Temperature: -20°F through 250°F

Visit our website for the most current information.

Press Fitting Applications Chart

| Types of Service | Comments | Pressure | Temperature | Compatible with EPDM Seal |
|----------------------------|--|----------|----------------|---------------------------|
| Fluids/Water | | | | |
| Hot and Cold Potable Water | | 200 PSI | 32°F to 250°F | ● |
| Rainwater/Gray Water | Subject to local codes/authority having jurisdiction with appropriate precautions to prevent systems from freezing Propylene Glycol | 200 PSI | -20°F to 250°F | ● |
| Chilled Water | Up to 50% Ethylene Glycol/Propylene Glycol solution appropriate for the application temperature range | 200 PSI | -20°F to 250°F | ● |
| Hydronic Heating | | 200 PSI | -20°F to 250°F | ● |
| Cooling Water | | 200 PSI | -20°F to 250°F | ● |
| Ethanol | | 200 PSI | -20°F to 250°F | ● |

| | | | | |
|---------------------------------------|---|----------------------------|-------------|---|
| Gasses | | | | |
| Compressed Air | Less than 25mg/m ³ Oil Content | 200 PSI | Up to 140°F | ● |
| Oxygen - O ₂ (non-medical) | Keep Oil and Fat Free/Non-Liquid O ₂ | 140 PSI | Up to 140°F | ● |
| Nitrogen - N ₂ | | 200 PSI | Up to 140°F | ● |
| Argon | Welding Use | 200 PSI | Ambient | ● |
| Hydrogen - H ₂ | | 125 PSI | Up to 250°F | ● |
| Vacuum | | Max 29.2 in. of Mercury-Hg | Up to 140°F | ● |
| Carbon Dioxide - CO ₂ | Dry | 200 PSI | Up to 140°F | ● |
| Low Pressure Steam | | 15 PSI | Up to 250°F | ● |

Third Party Agency Approvals

[NSF Mechanical Performance](#)

[ICC Evaluation Service PMG-1098](#)

[NSF Drinking Water System Components](#)

[State of Massachusetts](#)

Thermal Expansion and Contraction

Thermal expansion and contraction should be accounted for in all system designs. Further guidance on how to account for these stresses can be found in The Copper Development Association's Copper Tube Handbook, Section 3.

Visit our website for the most current information.

NIBCO® Press System Approved Tool and Jaw Compatibility Matrix

Pressing tool, jaw and chain sets are an integral part of ensuring a reliable, permanent connection between NIBCO Press System fittings, valves and copper piping.

Only use pressing tools, jaws and chain sets that have been tested and approved for use with NIBCO Press System fittings and valves.

The following table details compatibility of **approved** pressing tools, chains and jaws with the NIBCO Press System fittings and valves:

| | | 1/2" - 1 1/4" | | | | | | | | | | 1 1/2" - 2" | | | | | | 2 1/2" - 4" | | | | |
|-----------------------------|---|---|---|---|---|--|------------------------------------|-------------------------------|---|---|--|---|---|--|--|---|---|---|---|---|--|-----|
| SIZE | 1/2" - 1 1/4" | | | | | | | | | | 1 1/2" - 2" | | | | | | 2 1/2" - 4" | | | | | |
| | 1/2" - 1" NIBCO® Press System Pressing Jaws (PC-1M, PC-2M, PC-M3) | 1/2" - 1 1/4" Milwaukee® M12™ Pressing Jaws | 1/2" & 3/4" RIDGID® ProPress® Compact Pressing Jaws | 1/2" - 1" RIDGID® ProPress® Compact Pressing Jaws | 1/2" - 1 1/4" RIDGID® ProPress® Compact Pressing Jaws | 1/2" - 1 1/4" RIDGID® ProPress® C1 Compact Kit (C1 Actuator & Press Rings) | Rothenberger Compact Pressing Jaws | Stanley® VIRAX® Press Inserts | DEWALT® DCE200 Standard Press Tool Jaws | 1/2" - 2" NIBCO® Press System Standard Pressing Jaws (PC-10S, PC-11S, PC-12S, PC-13S, PC-14S, PC-15S) | DEWALT® DCE210 Compact Press Tool Jaws | 1/2" - 2" Milwaukee® M18™ Press System Standard Pressing Jaws | 1/2" - 2" RIDGID® ProPress® Press System Standard Pressing Jaws | 1/2" - 2" RIDGID® ProPress® V1 & V2 Standard Kits (Actuator & Press Rings) | 1/2" - 2" DEWALT® DCE200 Press System Standard Pressing Jaws | 1/2" - 2" REMS® Press System Standard Pressing Jaws | 1/2" - 2" Rothenberger® Press System Standard Pressing Jaws | DEWALT® DCE200 Standard Press Tool Jaws | 1/2" - 2" Stanley® VIRAX® Press System Standard Pressing Jaws | 2 1/2" - 4" NIBCO® Pressing Chains (PC-5 Adaptor & PC-2, PC-3, PC-4 Chains) | Milwaukee Tool 2 1/2" - 4" NIBCO press rings and adapter | |
| Compact Pressing Tools | NIBCO® PC-10M 15kn Mini | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | NIBCO® PC-20M 15kn Mini | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Milwaukee® M12™ | — | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP 115 | — | — | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® 100-B Compact | — | — | — | YES | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP200-B Compact | — | — | — | YES | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP210-B Compact | — | — | — | YES | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP240 Compact | — | — | — | YES | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP241 Compact | — | — | — | YES | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Rothenberger® Compact | YES | — | — | — | — | — | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Standard Pressing Tools | Stanley® VIRAX® M20+ Compact | — | — | — | — | — | — | YES | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | DEWALT® DCE210 | — | — | — | — | — | — | — | YES | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | NIBCO® 32kN PC-100 | — | — | — | — | — | — | — | — | YES | — | YES | YES | YES | YES | YES | YES | — | YES | YES | — | — |
| | NIBCO® 32kN PC-280 | — | — | — | — | — | — | — | — | — | YES | — | YES | YES | YES | YES | YES | — | YES | YES | — | — |
| | Milwaukee® M18™ Force Logic™ | — | — | — | — | — | — | — | — | — | YES | — | YES | — | — | — | — | — | — | — | — | — |
| | Milwaukee® M18™ Force Logic™ (Long Throw) | — | — | — | — | — | — | — | — | — | — | YES | — | YES | — | — | — | — | — | — | — | YES |
| | RIDGID® CT 400 | — | — | — | — | — | — | — | — | — | — | YES | — | — | YES | YES | — | — | — | — | — | — |
| | RIDGID® RP 320-E | — | — | — | — | — | — | — | — | — | — | — | YES | — | YES | YES | — | — | — | — | — | — |
| | RIDGID® RP 330-B | — | — | — | — | — | — | — | — | — | — | — | — | YES | — | YES | YES | — | — | — | — | — |
| | RIDGID® RP 330-C | — | — | — | — | — | — | — | — | — | — | — | — | — | YES | — | YES | YES | — | — | — | — |
| | RIDGID® RP 340 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | YES | — | YES | YES | — | — | — |
| | RIDGID® RP 342 XL | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP 350 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | RIDGID® RP 351 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | DEWALT® DCE200 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | REMS® Akku-Press | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | REMS® Power-Press | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Rothenberger® ROMAX® Pressliner | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Rothenberger® ROMAX® AC ECO | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Stanley® VIRAX® P20+ | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| DEWALT® DCE200 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

For the latest listing of approved pressing tool, jaw and chain combinations, visit nibco.com. NIBCO recommends minor tool service performed once per year and major service every three years. For technical or service assistance, contact NIBCO Technical Services 1-888-446-4226.

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ROMAX® is a registered trademark of ROTHENBERGER

VIRAX® is a registered trademark of Stanley Works

Milwaukee® is a registered trademark of Milwaukee Electric Tool Corporation

FORCE LOGIC™ is a registered trademark of Milwaukee Electric Tool Corporation

DEWALT® is a registered trademark of The Black & Decker Corporation

CAUTION:

- NIBCO press fittings and valves (2 1/2", 3", 4" ends) to be installed ONLY with NIBCO pressing tools & chains.
- Webstone press valves and fittings (2 1/2", 3", 4" ends) to be installed ONLY with XLC pressing tools & jaws.

Visit our website for the most current information.

NIBCO® Press System — Installation Instructions

Installation Instructions for 1/2" - 2" Press Fittings and Valves

WARNING: To prevent serious injury, inspect the pressing tool, battery charger (if applicable) and jaw sets according to the procedure outlined in the pressing tool instruction manual prior to beginning installation.

Failure to clean jaws can result in an improper connection that can lead to extensive property damage.

Preparing the Copper Tube

1. Select clean, undamaged copper tube and cut to desired length. Cut tube end square using a tube cutter or fine-toothed saw. Do not crimp over damaged, scratched, gouged, or otherwise damaged tubing ends. Do not crimp over etch print streams on tubing. (Figure 1).

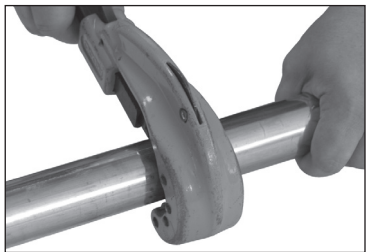


Figure 1 — Cut tube to desired length

2. Deburr the tube inside and outside diameter using a half-round file or a deburring tool.
3. Clean the tube end of all dirt, oil and grease. (Emery cloth or sandpaper to clean the tube or remove oxidation should not be used.)

Inserting the Tube into the Fitting or Valve

1. Check the fitting to make sure the EPDM seal is in place, clean and free of dirt and debris (Figure 2).



Figure 2 — Check for EPDM Seal

WARNING: Never lubricate the EPDM seal in the NIBCO Press System fitting or valve with anything other than water. Oil-based lubricant, dirt or debris may damage the seal. An improper seal can lead to extensive property damage.

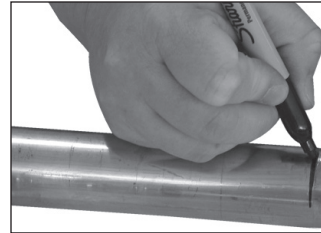


Figure 3 — Marking for Insertion Depth

2. Mark the tube with a permanent marker to indicate the proper tube insertion depth (Figure 3).
3. Refer to the minimum insertion depth table for correct depths
4. Insert the tube into the fitting or valve using a twisting motion. Make sure that the tube is fully inserted into the fitting stop or shoulder.

| Tube Size | Insertion Depth (min.) | |
|-----------|------------------------|----|
| | Inches | mm |
| 1/2 | 11/16 | 18 |
| 3/4 | 7/8 | 22 |
| 1 | 7/8 | 22 |
| 1¼ | 1 | 25 |
| 1½ | 1¾ | 35 |
| 2 | 1½ | 38 |

CAUTION: Tubing that is difficult to insert may have burrs or could be out-of-round. Burrs must be removed and tubing end must be undamaged. Make sure tube is inserted to the proper depth. Failure to do so may result in an improper seal.

Attaching Pressing Jaws

1. Make sure the battery is removed or the cord is unplugged on the pressing tool prior to attaching or changing the crimp jaws.
2. Push and twist to open the jaw set mounting pin. (Figure 4).



Figure 4 — Pushing and twisting to open the jaw set mounting pin

3. If press tool contains a jaw set, slide it out of the crimping tool.

Visit our website for the most current information.

NIBCO® Press System — Installation Instructions

4. Select the jaw set that corresponds to the size of the joint to be crimped and insert the jaw set into the pressing tool (*Figure 5*).

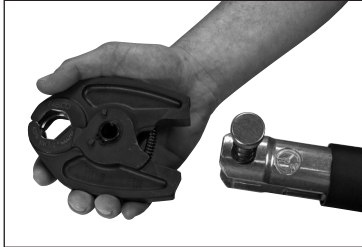


Figure 5 — Inserting the NIBCO® Press System jaw

5. Push the jaw set mounting pin until it clicks into position.

NOTE: The tool will not properly press unless the pin is fully engaged.

Crimping a NIBCO Press System Fitting or Valve

1. Make sure the tubing is inserted to the proper depth in the fitting. (*Figure 6*).

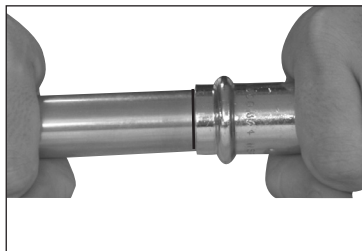


Figure 6 — Inserting the tube to proper depth

2. Squeeze jaw arms to open the jaw set.
3. Place the open jaws around the fitting and ensure that the contour of the jaw is properly aligned with the contour of the fitting (*Figure 7*).



Figure 7 — Open the jaw set and place around the fitting

4. Make sure the tool is perpendicular to the tubing and depress the switch (*Figure 8*). Keep the trigger depressed from the time the cycle begins and the rollers contact the jaw arms until the end of the entire crimp cycle.

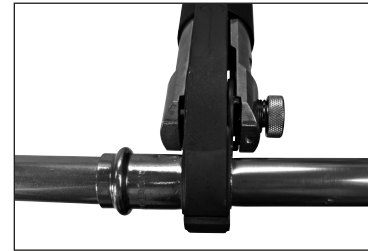


Figure 8 — Jaw set should be square to tubing

5. Once the crimp is complete, press the jaw arms to open the jaw and remove from the fitting.

If the tool displays an LED flash or emits an audible alarm, please refer to the tool instruction manual for troubleshooting suggestions.

CAUTION Avoid handling sharp edges that may have formed on the fitting during the crimping operation.

Inspecting the Crimp

1. Inspect the crimped fitting to ensure proper crimp.

NOTE: The use of the NIBCO Press System jaw will produce a unique witness mark "N" on the crimped fitting.

2. Inspect the crimped fitting checking the connection for the following problems:
 - Not fully inserted tube, double check depth marks
 - Incorrect jaw alignment with the fitting contour

If any problems are found, a new section of tubing and a new fitting will need to be prepared, installed and crimped.

3. Test the NIBCO Press System in accordance with crimp integrity testing instructions for fittings and valves in this catalog.

Visit our website for the most current information.

NIBCO® Press System — Installation Instructions

Installation Instructions for 2 1/2" - 4" Press Fittings and Valves

WARNING: To prevent serious injury, the pressing tool, battery charger (if applicable) and pressing chains should be inspected according to the procedure outlined in the pressing tool instruction manual prior to beginning installation.

Failure to clean pressing chains can result in an improper connection that can lead to extensive property damage.

Preparing the Copper Tube

1. Select clean, undamaged copper tube and cut to the desired length. Cut tube end square using a tube cutter or fine-toothed saw. Do not crimp over damaged, scratched, gouged, or otherwise damaged tubing. Do not crimp over etch print streams on tubing. (Figure 1).

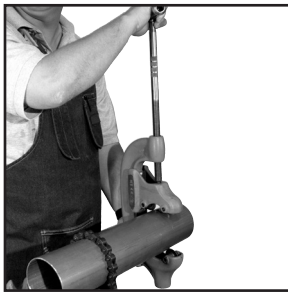


Figure 1: Cut tube to desired length using a tube cutter

2. Deburr the tube inside diameter using a half-round file or deburring tool. Remove any copper shavings or filings (Figures 2 & 3).

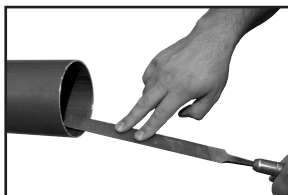


Figure 2: Deburr inside diameter using a half-round file

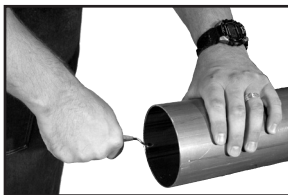


Figure 3: Deburr inside diameter deburring tool

3. Deburr the tube outside diameter using a half-round file to prevent damage to the EPDM seal (Figure 4).

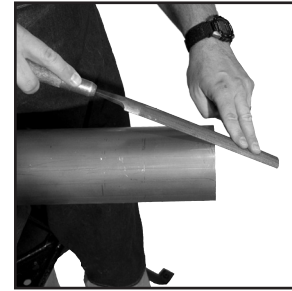


Figure 4: Deburr outside diameter using a half-round file

4. Clean the tube end of all contamination, oils and shavings. A smooth transition chamfer is recommended to ease tube insertion past the seal. (Emery cloth or sandpaper to clean the tube or remove oxidation **should not be used**.)

Inserting the Tube into the Fitting or Valve

1. Check the fitting to make sure that the seal is in place and is free of oil or grease. Only original NIBCO® EPDM seals are to be used when making a press connection with NIBCO Press System fittings and valves. If it is necessary to lubricate the seals, use water only. **DO NOT** use any petroleum-based lubricants (Figure 5).



Figure 5: Check for EPDM seal

WARNING: Never lubricate the EPDM seal in a NIBCO Press System fitting or valve with anything other than water. Oil-based lubricants, dirt or debris may damage the seal. An improper seal can lead to extensive property damage.

2. Mark the proper insertion depth on the tube with a permanent marker prior to insertion, based on insertion depth chart. Refer to minimum insertion depth table for correct depths.

| NIBCO® Press System Insertion Depth Chart | | | |
|--|--------|--------|--------|
| Tube Size | 2 1/2" | 3" | 4" |
| Insertion Depth (min.) | 1 1/2" | 1 5/8" | 2 1/8" |

3. Insert the tube into the fitting or valve using a twisting motion. Make sure that the tube is fully inserted into the fitting or valve. **WARNING:** If tube is not inserted to the proper depth, an inadequate seal may result.

CAUTION: Tubing that is difficult to insert may have burrs or could be out-of-round. Burrs must be removed and tubing end should be undamaged. Make sure tube is inserted to the proper depth. Failure to do so may result in an improper seal.

Visit our website for the most current information.

NIBCO® Press System — Installation Instructions

Crimping a NIBCO Press System Fitting or Valve

CAUTION:

NIBCO press fittings and valves (2½", 3", 4" ends) to be installed **ONLY** with:

- NIBCO PC-100 and PC-280 pressing tools
- NIBCO PC-5 adapter jaw
- NIBCO pressing chain - 2½" (PC-2), 3" (PC-3), 4" (PC-4)

1. Make sure that the battery is removed or that the cord is unplugged on the pressing tool prior to attaching or changing the adapter jaw.
2. Select the correct size pressing chain. Pull the pin on the chain which allows the segments to open. Position the chain on the raised bead and wrap the chain around the fitting with the "pipe side" designation facing the tube. When the chain is fully wrapped around the fitting, reinsert the pin to secure the chain on the assembled joint. Visually inspect the mark made for insertion depth, to ensure the tube remained in position (Figure 6).



Figure 6: Placement of the pressing chain onto fitting or valve

3. Release the pin (push and twist) on the jaw holder of the pressing tool, and install the adapter jaw on the tool. Return the pin to its original position, securing the jaw. The red sleeve on the tool must be in the back position to allow for crimping sizes 2½", 3" and 4". (Figure 7).



Figure 7: Placement of adapter jaw into the tool

4. Squeeze adapter jaw arms to open the jaw. Rollers must be fully retracted to open the adapter jaw. Place the open adapter jaw into the grooves in the pressing chain and let go of the jaw arms (Figure 8).

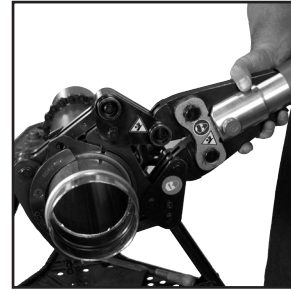


Figure 8: Placement of adapter jaw into pressing chain

5. Make sure the tubing is inserted to the proper depth in the fitting or valve, and that the tube and fitting or valve are aligned properly.
6. With the pressing tool perpendicular to the tube, begin the pressing cycle by pulling the trigger of the pressing tool.
7. Keep the trigger depressed from the time the cycle begins and the rollers contact the jaw arms until the end of the entire cycle. Remove the pressing tool and adapter jaw from the pressing chain. Remove the pressing chain from the fitting.

If the tool displays an LED flash or emits an audible alarm, please refer to the tool instruction manual for troubleshooting suggestions.

CAUTION: Avoid sharp edges that may have formed on the fitting during the crimping operation.

Inspecting the Crimp

1. Inspect the crimped fitting or valve to ensure proper crimp. The final crimp should appear pressed uniformly around the fitting or valve (Figure 9).

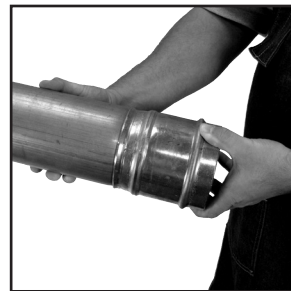


Figure 9: Inspection of final crimp

NOTE: The use of the NIBCO Press System chain will produce a unique witness mark "N".

2. Inspect the crimped fitting checking the connection for the following problems:
 - Not fully inserted tube, double check depth marks
 - Incorrect chain alignment with the fitting contour

If any problems are found, a new section of tubing and a new fitting will need to be prepared, installed, and crimped.

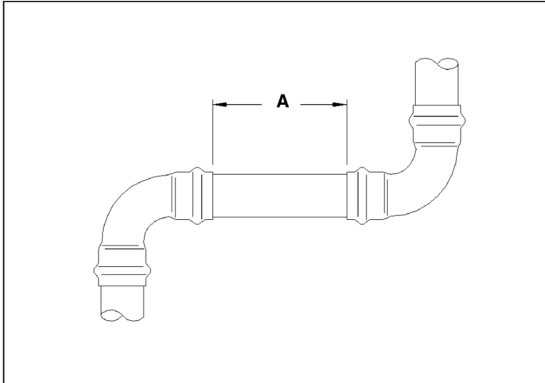
3. Test the NIBCO Press System in accordance with crimp integrity testing instructions for fittings and valves in this catalog.

Visit our website for the most current information.

NIBCO® Press System — Installation Instructions

Minimum Distance Between Joints

To prevent distortion of the tubing, certain fitting sizes require a minimum distance between crimp joints (refer to *Chart 1* below). Failure to provide this minimum distance may result in an improper seal.



| Tube Dia. | A (min.) | |
|-----------|----------|----|
| | Inches | mm |
| 1/2** | 0 | 0 |
| 3/4** | 0 | 0 |
| 1** | 0 | 0 |
| 1 1/4** | 0 | 0 |
| 1 1/2** | 0 | 0 |
| 2** | 0 | 0 |
| 2 1/2" | 3/8" | 10 |
| 3" | 3/8" | 10 |
| 4" | 3/8" | 10 |

*No minimum distance required.

System Support

CAUTION — In any installation, the system should be supported to ensure the minimum stress is imposed on the tube and joints. The NIBCO® Press System should be supported in accordance with normal practice and to local jurisdiction piping code.

Annealing of Copper Tube

A NIBCO Press System installation should not be conducted within 12" of a **brazed** joint. The high temperature required for capillary joinery may cause the copper tube to become annealed and render it too soft for proper crimping. However, a NIBCO Press System product may be crimped adjacent to a **soldered** joint, as normal temperatures created by silver soldering are not hot enough to cause the copper tube to become annealed.

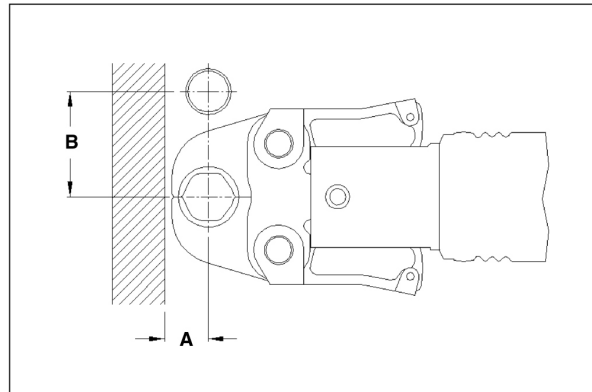
CAUTION — Brazing or soldering should not be conducted within 12" of an existing NIBCO Press System connection as this may damage the HPDM seal. If there is any concern about heat damage to the o-ring, a cold, wet cloth should be wrapped around the crimped connection prior to soldering or brazing.

Spacing

1. Sufficient clearance must be left around each joint to allow room for the pressing tool and jaw to be attached without interference.

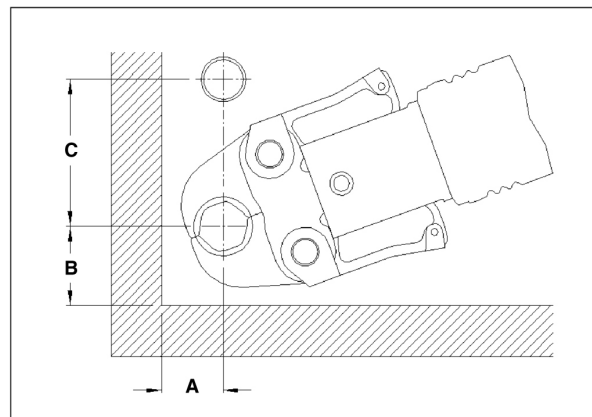
Clearance Requirement — NIBCO Standard Sets

Tool perpendicular to wall



| Tube Dia. | A (min.) | | B (min.) | |
|-----------|----------|----|----------|-----|
| | Inches | mm | Inches | mm |
| 1/2 | 15/16 | 24 | 15/8 | 41 |
| 3/4 | 7/8 | 22 | 2 1/8 | 54 |
| 1 | 1 1/4 | 31 | 2 1/2 | 64 |
| 1 1/4 | 1 1/8 | 29 | 2 7/8 | 73 |
| 1 1/2 | 2 | 51 | 4 3/8 | 111 |
| 2 | 2 | 51 | 4 3/8 | 111 |

Tool angled to wall



| Tube Dia. | A (min.) | | B (min.) | | C (min.) | |
|-----------|----------|-----|----------|-----|----------|-----|
| | Inches | mm | Inches | mm | Inches | mm |
| 1/2 | 1 1/8 | 28 | 1 3/8 | 35 | 2 1/2 | 64 |
| 3/4 | 1 | 26 | 1 1/2 | 38 | 2 1/2 | 64 |
| 1 | 1 5/16 | 34 | 1 3/4 | 45 | 3 | 76 |
| 1 1/4 | 1 1/4 | 32 | 2 1/4 | 57 | 3 1/8 | 80 |
| 1 1/2 | 2 1/8 | 54 | 3 1/8 | 80 | 5 | 127 |
| 2 | 2 1/8 | 54 | 3 1/8 | 80 | 5 | 127 |
| 2 1/2 | 4 1/2 | 114 | 4 11/16 | 119 | 6 1/8 | 156 |
| 3 | 4 3/4 | 121 | 5 | 128 | 6 7/8 | 175 |
| 4 | 5 1/4 | 134 | 5 11/16 | 145 | 7 7/8 | 200 |

NOTE: Clearance dimensions for 2 1/2", 3" & 4" are for wrapping pressing chains around fittings.

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NIBCO® Press System Limited Warranty

NIBCO INC. LIMITED WARRANTY

Applicable to NIBCO Press System

NIBCO INC. warrants each NIBCO Press System fitting and flange to be free from defects in materials and workmanship under normal use, service, and maintenance in accordance with the product specifications (including, but not limited to installation recommendations) for a period of fifty (50) years from the Warranty Commencement Date. The Warranty Commencement Date shall be the date of installation.

NIBCO Press System pressure rated metal valves to be free from defects in materials and workmanship under normal use, service, and maintenance in accordance with the product specifications (including, but not limited to installation recommendations) for a period of five (5) years from the Warranty Commencement Date, except for model PC-FP-600A-LF for which a period of two (2) years from the Warranty Commencement Date shall apply. The Warranty Commencement Date shall be the date of installation.

NIBCO Press System tools to be free from defects in materials and workmanship under normal use, service, and maintenance in accordance with the product specifications for a period of two (2) years from the date of purchase.

NIBCO Press System fittings, flanges, valves, and tools are referred to herein as "NIBCO Products."

NIBCO will repair or replace – at its option and at no charge – NIBCO Products that have been determined by NIBCO, or an authorized representative or agent thereof, to have failed solely because of a defect in materials or workmanship under normal use, service, and maintenance during the warranty period. Replacements shall be shipped free of charge to the owner.

This limited warranty applies to all NIBCO Products installed, tested, applied, and used in accordance with NIBCO's approved and published recommendations and instructions.

This warranty does not cover any failure or damage for or caused by:

1. any product, parts, or systems which are not manufactured or sold by NIBCO;
2. any NIBCO Product which is used for purposes other than a purpose authorized by NIBCO;
3. any NIBCO Product not installed, tested, applied, used, or maintained in accordance with NIBCO's recommended installation guidelines and instructions;
4. any NIBCO Product not installed or used in accordance with applicable codes;
5. any damage caused by, contributed in whole or in part by, or resulting from, any of the following:
 - a. abuse, misuse, mishandling, alteration, tampering, neglect, or accidental damage such as, without limitation, vandalism;
 - b. natural disasters, such as, without limitation, flooding, windstorm, and lightning;
 - c. attachments or modifications not authorized by NIBCO;
 - d. external, physical or chemical qualities, or an unsuitable or hostile environment;
 - e. any defects other than those in material or workmanship; or
 - f. any other cause beyond the control of NIBCO.

NIBCO DISCLAIMS ANY AND ALL LIABILITY FOR ANY OTHER DIRECT OR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, ECONOMIC LOSS, LOSS OF BUSINESS, LOST PROFITS, PUNITIVE DAMAGES, MOLD INTRUSION, WATER DAMAGE, ETC.

Some states do not allow the exclusion or limitation of damages, so the above limitation or exclusion may not apply to you.

THIS WARRANTY IS THE ONLY WARRANTY FOR THE NIBCO PRODUCTS PROVIDED BY NIBCO, AND IS AND SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND FOR ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF A MANUFACTURER. NO EMPLOYEE OF NIBCO, OR ANY OTHER DISTRIBUTOR, AGENT, OR OTHER PERSON OR BUSINESS, IS AUTHORIZED TO MAKE ANY OTHER WARRANTY ON BEHALF OF NIBCO.

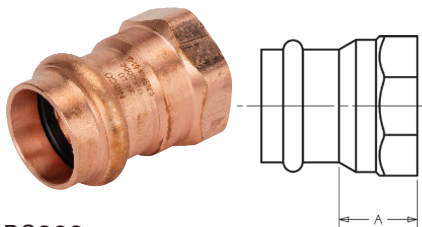
Some states do not allow limitations on implied warranties, so the above limitation may not apply to you.

In the event any defect occurs which is believed to be covered by this warranty, NIBCO Technical Services must immediately be contacted by calling 888.446.4226 or emailing CS-TechnicalServices@nibco.com. NIBCO Technical Services after being contacted will make further arrangements for the product's return to NIBCO at the customer's expense for review and evaluation.



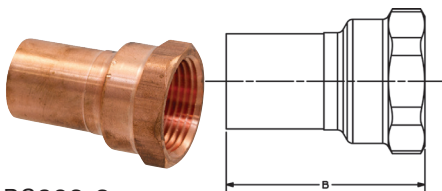
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ADAPTERS



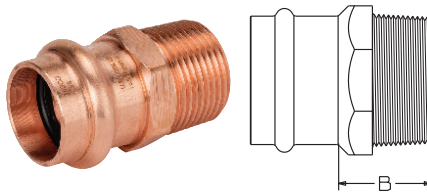
PC603
Adapter P x F – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|---------------|----------------------|---------------|
| 1/2 | .103 | 13/16 |
| 1/2 x 3/8 | .081 | 21/32 |
| 1/2 x 3/4 | .151 | 31/32 |
| 3/4 | .158 | 27/32 |
| 3/4 x 1/2 | .153 | 25/32 |
| 1 | .237 | 15/16 |
| 1 x 1/2 | .172 | 3/4 |
| 1 x 3/4 | .217 | 13/16 |
| 1 x 1 1/4 | .436 | 13/16 |
| 1 1/4 | .372 | 1 1/16 |
| 1 1/4 x 1 | .359 | 1 1/16 |
| 1 1/4 x 1 1/2 | .425 | 1 7/32 |
| 1 1/2 | .518 | 1 1/16 |
| 1 1/4 x 2 | .276 | 1 |
| 1 1/2 x 1 1/4 | .515 | 1 |
| 2 | .672 | 1 |
| 2 1/2 | 1.222 | 1 13/32 |
| 3 | 1.756 | 1 23/32 |
| 4 | 3.238 | 1 7/8 |



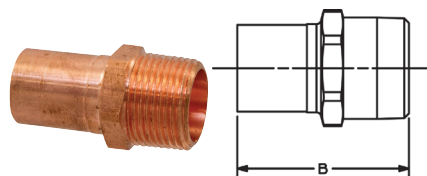
PC603-2
Extended Adapter FTG x F – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. B INCHES |
|-------------|----------------------|---------------|
| 1/2 x 3/8 | 0.064 | 1 17/32 |
| 1/2 | 0.096 | 1 3/4 |
| 1/2 x 3/4 | 0.132 | 1 27/32 |
| 3/4 x 1/2 | 0.107 | 1 25/32 |
| 3/4 | 0.145 | 1 7/8 |
| 1 x 1/2 | 0.146 | 2 |
| 1 | 0.220 | 2 1/16 |
| 1 1/4 x 1/2 | 0.193 | 2 3/16 |
| 1 1/4 | 0.322 | 2 3/8 |
| 1 1/2 | 0.431 | 2 21/32 |
| 2 | 0.683 | 2 15/16 |



PC604
Adapter P x M – Wrot

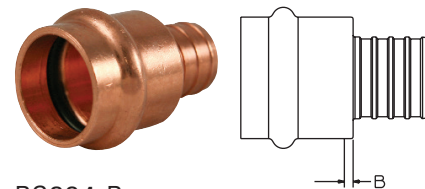
| NOM. SIZE | APPROX. NET WT./LBS. | DIM. B INCHES |
|---------------|----------------------|---------------|
| 1/2 | .103 | 7/8 |
| 1/2 x 3/8 | .105 | 27/32 |
| 1/2 x 3/4 | .191 | 1 1/4 |
| 3/4 | .180 | 1 1/16 |
| 3/4 x 1/2 | .189 | 31/32 |
| 3/4 x 1 | .268 | 1 3/16 |
| 1 | .255 | 1 3/32 |
| 1 x 3/4 | .253 | 1 1/32 |
| 1 x 1 1/4 | .457 | 1 17/32 |
| 1 1/4 | .467 | 1 13/32 |
| 1 1/4 x 1 | .335 | 1 3/16 |
| 1 1/4 x 1 1/2 | .537 | 1 1/2 |
| 1 1/2 | .696 | 1 1/2 |
| 1 1/2 x 1 1/4 | .603 | 1 3/8 |
| 1 1/2 x 2 | .784 | 1 7/16 |
| 2 | .856 | 1 7/16 |
| 2 x 1 1/2 | 1.087 | 1 19/32 |
| 2 1/2 | 1.322 | 1 27/32 |
| 3 | 2.104 | 2 1/8 |
| 4 | 3.298 | 2 9/32 |



PC604-2
Extended Adapter FTG x M – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. B INCHES |
|-----------|----------------------|---------------|
| 1/2 x 3/8 | 0.056 | 1 3/4 |
| 1/2 | 0.101 | 1 29/32 |
| 1/2 x 3/4 | 0.145 | 2 1/16 |
| 3/4 x 1/2 | 0.100 | 1 15/16 |
| 3/4 | 0.136 | 2 1/16 |
| 1 x 3/4 | 0.175 | 2 1/16 |
| 1 | 0.243 | 2 5/16 |
| 1 1/4 | 0.408 | 2 17/32 |
| 1 1/2 | 0.530 | 2 7/8 |
| 2 | 0.782 | 3 11/32 |

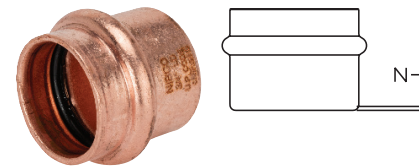
ADAPTERS (Cont.)



PC604-P
Adapter PEX x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. B INCHES |
|-----------|----------------------|---------------|
| 1/2 x 1/2 | .055 | 1/8 |
| 1/2 x 3/4 | .108 | 7/32 |
| 3/4 x 1/2 | .057 | 3/32 |
| 3/4 x 3/4 | .108 | 5/32 |
| 1 x 1 | .148 | 5/32 |

CAPS

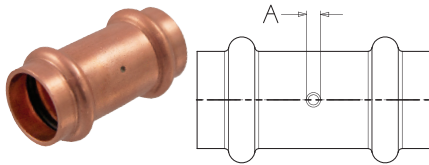


PC617
Cap P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. N INCHES |
|-----------|----------------------|---------------|
| 1/2 | .046 | 5/32 |
| 3/4 | .087 | 5/32 |
| 1 | .125 | 1/8 |
| 1 1/4 | .171 | 3/32 |
| 1 1/2 | .314 | 3/32 |
| 2 | .493 | 3/32 |
| 2 1/2 | .476 | 7/32 |
| 3 | .713 | 7/32 |
| 4 | 1.491 | 1/4 |

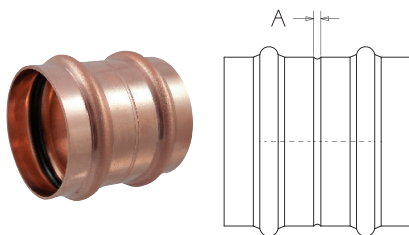
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COUPLINGS



PC600-DS
Coupling P x P – Wrot

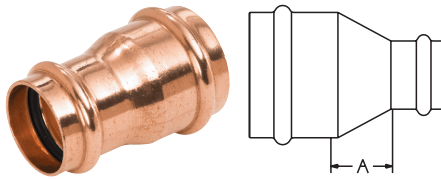
| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------|
| 1/2 | .083 | 3/16 |
| 3/4 | .157 | 5/32 |
| 1 | .198 | 5/32 |
| 1¼ | .271 | 5/32 |
| 1½ | .530 | 3/16 |
| 2 | .691 | 5/32 |
| 2½ | .669 | 1/8 |
| 3 | .979 | 1/8 |
| 4 | 2.134 | 7/32 |



PC600-RS
Coupling P x P – Wrot

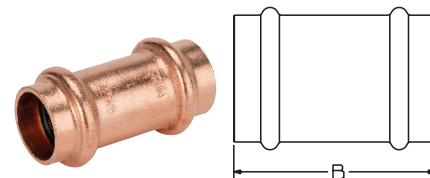
| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------|
| 2½ | .688 | 1/8 |
| 3 | .979 | 1/8 |
| 4 | 2.134 | 7/32 |

COUPLINGS (Cont.)



PC600-R
Reducing Coupling P x P – Wrot

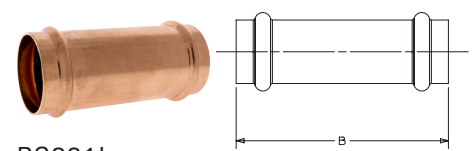
| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------|
| 3/4 x 1/2 | .121 | 1/4 |
| 1 x 1/2 | .139 | 7/16 |
| 1 x 3/4 | .184 | 13/32 |
| 1¼ x 3/4 | .245 | 1/2 |
| 1¼ x 1 | .231 | 7/16 |
| 1½ x 3/4 | .382 | 15/32 |
| 1½ x 1 | .370 | 13/32 |
| 1½ x 1¼ | .399 | 9/32 |
| 2 x 3/4 | .516 | 29/32 |
| 2 x 1 | .552 | 11/16 |
| 2 x 1¼ | .570 | 11/16 |
| 2 x 1½ | .662 | 7/16 |
| 2½ x 1 | .620 | 31/32 |
| 2½ x 1¼ | .644 | 1 |
| 2½ x 1½ | .678 | 23/32 |
| 2½ x 2 | .699 | 11/32 |
| 3 x 1½ | .956 | 11/16 |
| 3 x 2 | 1.032 | 23/32 |
| 3 x 2½ | .951 | 1/2 |
| 4 x 2 | 1.949 | 15/32 |
| 4 x 2½ | 1.807 | 1 |
| 4 x 3 | 1.960 | 27/32 |



PC601 (No Stop)
Repair Coupling P x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. B INCHES |
|-----------|----------------------|---------------|
| 1/2 | .082 | 13/4 |
| 3/4 | .157 | 21/4 |
| 1 | .190 | 21/4 |
| 1¼ | .271 | 215/32 |
| 1½ | .511 | 3 11/32 |
| 2 | .691 | 3 5/8 |
| 2½ | .669 | 2 15/16 |
| 3 | .979 | 3 5/16 |
| 4 | 1.878 | 4 5/16 |

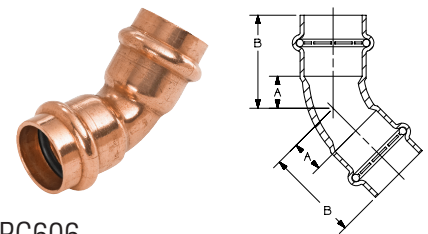
COUPLINGS (Cont.)



PC601L
Extended Repair Coupling P x P

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. B INCHES |
|-----------|----------------------|---------------|
| 1/2 | .1250 | 2 29/32 |
| 3/4 | .2200 | 3 9/32 |
| 1 | .3050 | 3 21/32 |
| 1¼ | .4090 | 4 1/16 |
| 1½ | .7150 | 4 21/32 |
| 2 | 1.0230 | 5 1/4 |

ELBOWS

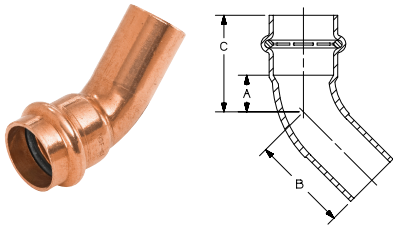


PC606
45° Elbow P x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES | DIM. B INCHES |
|-----------|----------------------|---------------|---------------|
| 1/2 | .092 | 13/32 | 11/8 |
| 3/4 | .181 | 1/2 | 113/32 |
| 1 | .251 | 5/8 | 11/2 |
| 1¼ | .403 | 25/32 | 125/32 |
| 1½ | .666 | 15/16 | 25/16 |
| 2 | 1.063 | 13/16 | 223/32 |
| 2½ | 1.041 | 7/8 | 23/8 |
| 3 | 1.536 | 11/8 | 225/32 |
| 4 | 3.375 | 111/16 | 327/32 |

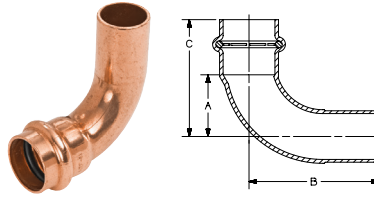
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ELBOWS (Cont.)



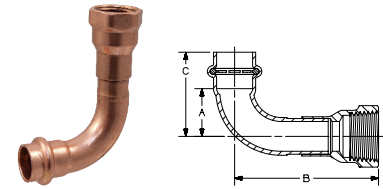
PC606-2
45° Elbow Ftg x P – Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|---------|---------|
| | | A | B | C |
| 1/2 | .094 | 7/16 | 1 5/16 | 1 1/8 |
| 3/4 | .171 | 17/32 | 1 13/32 | 1 13/32 |
| 1 | .248 | 9/16 | 1 17/32 | 1 7/16 |
| 1 1/4 | .368 | 1 1/16 | 1 3/4 | 1 11/16 |
| 1 1/2 | .673 | 1 13/16 | 2 5/16 | 2 3/16 |
| 2 | 1.057 | 1 | 2 21/32 | 2 1/2 |
| 2 1/2 | 1.050 | 29/32 | 2 3/16 | 2 3/8 |
| 3 | 1.526 | 1 5/32 | 2 19/32 | 2 13/16 |
| 4 | 3.284 | 1 17/32 | 3 3/32 | 3 11/16 |



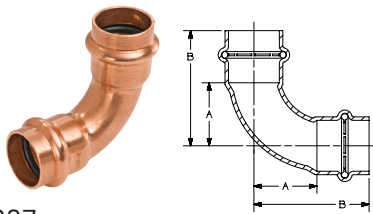
PC607-2
90° Elbow Ftg x P – Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|---------|---------|
| | | A | B | C |
| 1/2 | .110 | 25/32 | 1 21/32 | 1 15/32 |
| 3/4 | .219 | 1 1/16 | 2 7/32 | 1 31/32 |
| 1 | .328 | 1 1/2 | 2 5/8 | 2 3/8 |
| 1 1/4 | .490 | 1 7/8 | 3 3/32 | 2 29/32 |
| 1 1/2 | .871 | 2 7/32 | 3 15/16 | 3 11/16 |
| 2 | 1.474 | 2 29/32 | 4 17/32 | 4 15/32 |
| 2 1/2 | 1.356 | 1 19/32 | 3 7/32 | 3 1/16 |
| 3 | 2.065 | 2 | 3 13/16 | 3 21/32 |
| 4 | 3.920 | 2 15/32 | 4 3/4 | 4 5/8 |



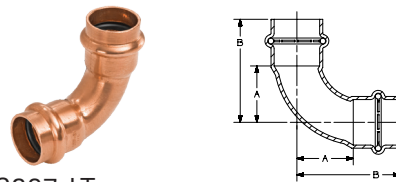
PC607-3
90° Elbow P x F - Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|---------|---------|
| | | A | B | C |
| 1/2 | .191 | 25/32 | 2 17/32 | 1 15/32 |
| 1/2 x 3/8 | .154 | 25/32 | 2 7/32 | 1 15/32 |
| 1/2 x 3/4 | .251 | 25/32 | 2 11/16 | 1 15/32 |
| 3/4 | .361 | 1 1/16 | 3 1/8 | 2 |
| 3/4 x 1/2 | .321 | 1 1/16 | 2 27/32 | 2 |
| 1 | .513 | 1 1/16 | 3 15/32 | 2 5/16 |
| 1 1/4 | .892 | 1 27/32 | 4 3/16 | 2 29/32 |
| 1 1/2 | 1.314 | 2 7/32 | 5 1/16 | 3 11/16 |
| 2 | 2.109 | 2 29/32 | 5 5/8 | 4 15/32 |



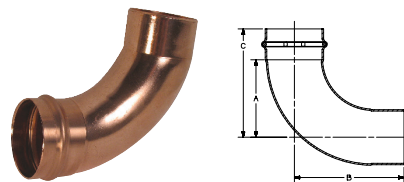
PC607
90° Elbow P x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES | DIM. B INCHES |
|-----------|----------------------|---------------|---------------|
| 1/2 | .110 | 23/32 | 1 15/32 |
| 3/4 | .223 | 1 3/32 | 2 |
| 3/4 x 1/2 | .201 | 1 5/32 | 2 |
| 1 | .331 | 1 15/32 | 2 11/32 |
| 1 x 3/4 | .321 | 1 5/16 | 2 5/16 |
| 1 1/4 | .528 | 1 27/32 | 2 29/32 |
| 1 1/2 | .895 | 2 7/32 | 3 21/32 |
| 2 | 1.480 | 2 15/16 | 4 15/32 |
| 2 1/2 | 1.224 | 1 5/8 | 3 3/32 |
| 3 | 1.900 | 2 | 3 21/32 |
| 4 | 3.935 | 2 15/32 | 4 5/8 |



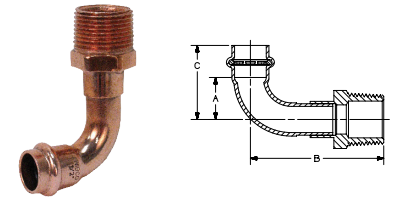
PC607-LT
90° Long Radius Elbow
P x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES | DIM. B INCHES |
|-----------|----------------------|---------------|---------------|
| 2 1/2 | 2.066 | 3 11/16 | 5 5/32 |
| 3 | 2.810 | 4 1/32 | 5 11/16 |
| 4 | 5.696 | 5 1/4 | 7 13/32 |



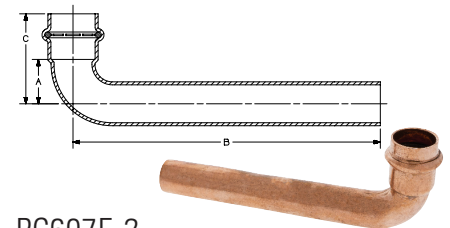
PC607-2-LT
90° Long Radius Elbow
Ftg x P - Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|--------|---------|
| | | A | B | C |
| 2 1/2 | 2.114 | 3 11/16 | 5 7/32 | 5 5/32 |
| 3 | 3.037 | 4 1/32 | 5 3/4 | 5 11/16 |



PC607-4
90° Elbow P x M - Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|---------|---------|
| | | A | B | C |
| 1/2 | .183 | 25/32 | 2 9/32 | 1 15/32 |
| 1/2 x 3/4 | .340 | 25/32 | 2 21/32 | 1 15/32 |
| 3/4 | .349 | 1 1/16 | 3 1/32 | 2 |
| 3/4 x 1/2 | .340 | 1 1/16 | 3 1/16 | 2 |
| 1 | .521 | 1 7/16 | 3 13/32 | 2 5/16 |
| 1 1/4 | .926 | 1 27/32 | 4 1/32 | 2 29/32 |
| 1 1/2 | 1.443 | 2 7/32 | 4 15/16 | 3 11/16 |
| 2 | 2.205 | 2 29/32 | 5 5/8 | 4 15/32 |

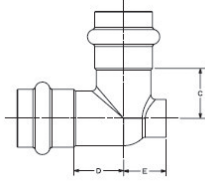


PC607E-2
Extended Elbow P x FTG – Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|-------|---------|
| | | A | B | C |
| 3/4 | .407 | 29/32 | 6 1/8 | 1 25/32 |

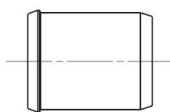
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ELBOWS (Cont.)



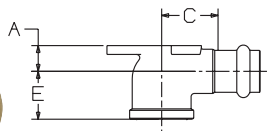
PC705-D
Vent Elbow P x P – Forged Brass

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|-------|-------|
| | | C | D | E |
| 1/2 | .010 | 19/32 | 19/32 | 9/16 |
| 3/4 | .010 | 3/4 | 3/4 | 11/16 |



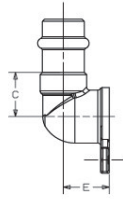
PC605
Stiffener – Wrot

| NOM. SIZE | APPROX. NET WT. LBS. |
|-----------|----------------------|
| 3/4 | .043 |



PC707-3-5-LF
90° Drop Elbow P x F – Cast
*Lead Free

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|------|-------|
| | | A | C | E |
| 1/2 | .252 | 17/32 | 7/8 | 27/32 |
| 3/4 | .588 | 23/32 | 15/8 | 31/32 |

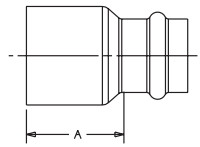


PC707-3-5-A
Hi-Ear Elbow P x F – Cast *Lead Free

| NOM. SIZE | APPROX. NET WT. LBS. | DIM. C INCHES | DIM. E INCHES |
|-----------|----------------------|---------------|---------------|
| 1/2 | .192 | 7/8 | 27/32 |

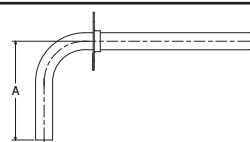
Visit our website for the most current information.

FITTING REDUCERS



PC600-2
Fitting Reducer Ftg x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|---------------|----------------------|---------------|
| 1/2 | .610 | 21/32 |
| 3/4 x 1/2 | .092 | 17/16 |
| 3/4 | .126 | 31/32 |
| 1 x 1/2 | .123 | 17/16 |
| 1 x 3/4 | .151 | 113/32 |
| 1 | .162 | 11/8 |
| 1 1/4 x 1/2 | .155 | 119/32 |
| 1 1/4 x 3/4 | .175 | 113/32 |
| 1 1/4 x 1 | .181 | 17/16 |
| 1 1/4 | .215 | 13/16 |
| 1 1/2 x 1/2 | .243 | 23/32 |
| 1 1/2 x 3/4 | .248 | 131/32 |
| 1 1/2 x 1 | .251 | 113/16 |
| 1 1/2 x 1 1/4 | .251 | 125/32 |
| 1 1/2 | .382 | 15/16 |
| 2 x 1/2 | .394 | 21/2 |
| 2 x 3/4 | .405 | 211/32 |
| 2 x 1 | .398 | 27/32 |
| 2 x 1 1/4 | .420 | 23/32 |
| 2 x 1 1/2 | .507 | 131/32 |
| 2 | .619 | 19/16 |
| 2 1/2 x 3/4 | .540 | 21/2 |
| 2 1/2 x 1 | .707 | 21/2 |
| 2 1/2 x 1 1/4 | .776 | 29/16 |
| 2 1/2 x 1 1/2 | .840 | 213/32 |
| 2 1/2 x 2 | .839 | 2 |
| 3 x 3/4 | .755 | 229/32 |
| 3 x 1 1/4 | .882 | 213/16 |
| 3 x 1 1/2 | 1.055 | 213/16 |
| 3 x 2 | 1.084 | 23/8 |
| 3 x 2 1/2 | .820 | 21/4 |
| 4 x 3/4 | 1.723 | 43/32 |
| 4 x 2 | 1.832 | 35/8 |
| 4 x 2 1/2 | 1.837 | 31/32 |
| 4 x 3 | 2.013 | 31/32 |

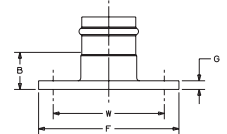


PC607-2EW Stub-Out F x S

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------|
| 1/2 | .360 | 35/8 |
| 3/4 | .520 | 315/16 |
| 1 | .740 | 61/16 |

Visit our website for the most current information.

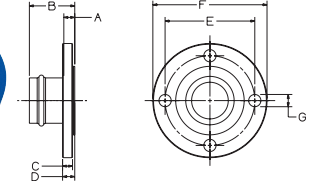
FLANGES



PC741 ⚠
Companion Flange
P x Flange - Cast Bronze Flange/
Wrot Outlet

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | | |
|-----------|----------------------|-------------------|-------|------|-------|
| | | B | F | G | W |
| 1 | 1.428 | 1 1/4 | 4 1/4 | 1/4 | 3 1/8 |
| 1 1/4 | 1.632 | 1 5/16 | 4 5/8 | 1/4 | 3 1/2 |
| 1 1/2 | 2.186 | 1 7/16 | 5 | 5/16 | 3 7/8 |
| 2 | 3.352 | 1 11/16 | 6 | 3/8 | 4 3/4 |

NOTE: Maximum pressure 105 psi CWP, 90 psi at 250°F.
Use in U.S. drinking water applications is prohibited after January 3, 2014.



PC641
Companion Flange
P x Flange - Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | DIMENSIONS INCHES | | |
|-----------|----------------------|-------------------|--------|-------|
| | | A | B | C |
| 3/4 | 1.518 | 121/32 | 217/32 | 7/16 |
| 1 | 2.013 | 123/32 | 219/32 | 1/2 |
| 1 1/4 | 2.623 | 121/32 | 221/32 | 9/16 |
| 1 1/2 | 3.342 | 1 1/2 | 27/8 | 5/8 |
| 2 | 4.884 | 1 15/32 | 211/32 | 5/8 |
| 2 1/2 | 6.418 | 3/4 | 225/32 | 5/8 |
| 3 | 7.409 | 15/32 | 215/16 | 21/32 |
| 4 | 10.920 | 21/32 | 33/8 | 23/32 |

| NOM. SIZE | DIMENSIONS INCHES | | | |
|-----------|-------------------|-------|-------|-----|
| | D | E | F | G |
| 3/4 | 9/16 | 23/4 | 37/8 | 5/8 |
| 1 | 5/8 | 31/8 | 41/4 | 5/8 |
| 1 1/4 | 11/16 | 31/2 | 45/8 | 5/8 |
| 1 1/2 | 25/32 | 37/8 | 5 | 5/8 |
| 2 | 25/32 | 43/4 | 6 | 3/4 |
| 2 1/2 | 3/4 | 51/2 | 7 | 3/4 |
| 3 | 13/16 | 6 | 7 1/2 | 3/4 |
| 4 | 1 | 7 1/2 | 9 | 3/4 |

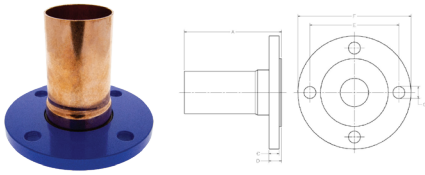
NOTE: 4" requires (8) "G" holes equally spaced.
NOTE: Mates with ANSI Class 125/150 flanges.

⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

LEAD-FREE: Weighted average lead content ≤ 0.25%

Visit our website for the most current information.

FLANGES (Cont.)

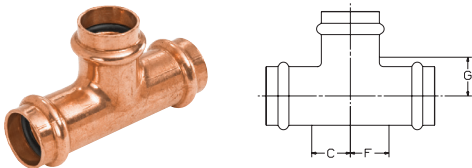


PC672-2
Companion Flange
FTG x Flange – Wrot

| NOM. SIZE | APPROX. NET WT. LBS. | A | DIMENSIONS INCHES C D | |
|-----------|----------------------|---|-----------------------|-------|
| 2 | 5.46 | 6 | 5/8 | 25/32 |
| 2½ | 7.44 | 6 | 5/8 | 25/32 |
| 3 | 8.63 | 6 | 5/8 | 25/32 |
| 4 | 12.03 | 6 | 23/32 | 7/8 |

| NOM. SIZE | E | DIMENSIONS INCHES F G | |
|-----------|-----|-----------------------|---|
| 2 | 4 ¾ | 6 | ¾ |
| 2½ | 5 ½ | 7 | ¾ |
| 3 | 6 | 7 ½ | ¾ |
| 4 | 7 ½ | 9 | ¾ |

TEES



PC611
Tee P x P x P – Wrot

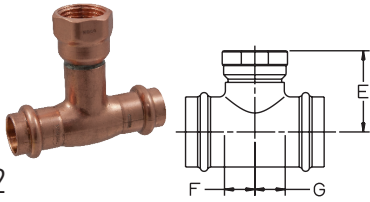
| NOM. SIZE | APPROX. NET WT. LBS. | C | F | G |
|-----------------|----------------------|-------|-------|-------|
| 1/2 | .176 | 23/32 | 23/32 | 15/32 |
| 1/2 x 1/2 x 3/4 | .314 | 21/16 | 21/16 | 15/16 |
| 1/2 x 1/2 x 1 | .491 | 17/32 | 17/32 | 7/8 |
| 3/4 | .320 | 25/32 | 25/32 | 21/32 |
| 3/4 x 1/2 x 1/2 | .281 | 5/8 | 29/32 | 21/32 |
| 3/4 x 1/2 x 3/4 | .320 | 21/32 | 11/16 | 11/16 |
| 3/4 x 3/4 x 1/2 | .276 | 21/32 | 21/32 | 21/32 |
| 3/4 x 3/4 x 1 | .461 | 11/32 | 11/32 | 29/32 |
| 1 | .501 | 7/8 | 7/8 | 29/32 |
| 1 x 1/2 x 3/4 | .400 | 23/32 | 11/4 | 27/32 |
| 1 x 1/2 x 1 | .513 | 13/16 | 15/32 | 27/32 |
| 1 x 3/4 x 1/2 | .440 | 13/16 | 11/16 | 15/32 |
| 1 x 3/4 x 3/4 | .459 | 25/32 | 31/32 | 13/16 |

TEES (Cont.)

| NOM. SIZE | APPROX. NET WT. LBS. | C | F | G |
|----------------|----------------------|--------|--------|--------|
| 1 x 3/4 x 1 | .578 | 13/16 | 11/16 | 7/8 |
| 1 x 1 x 1/2 | .324 | 21/32 | 21/32 | 7/8 |
| 1 x 1 x 3/4 | .388 | ¾ | ¾ | 27/32 |
| 1 x 1 x 1¼ | .723 | 11/8 | 11/8 | 7/8 |
| 1¼ | .759 | 1 | 1 | 15/16 |
| 1¼ x 1/2 x 1¼ | .690 | 31/32 | 17/32 | 31/32 |
| 1¼ x 1 x 1/2 | .674 | 31/32 | 15/32 | 15/8 |
| 1¼ x 3/4 x 1/2 | .682 | 15/16 | 9/32 | 15/8 |
| 1¼ x 3/4 x 3/4 | .565 | ¾ | 17/32 | 11/32 |
| 1¼ x 3/4 x 1 | .709 | 31/32 | 11/4 | 15/16 |
| 1¼ x 3/4 x 1¼ | .698 | 31/32 | 9/32 | 15/16 |
| 1¼ x 1 x 3/4 | .753 | 27/32 | 31/16 | 113/32 |
| 1¼ x 1 x 1 | .725 | 31/32 | 17/32 | 19/32 |
| 1¼ x 1¼ x 1/2 | .408 | 1 | 1 | 17/32 |
| 1¼ x 1¼ x 3/4 | .589 | 23/32 | 23/32 | 15/16 |
| 1¼ x 1¼ x 1 | .508 | 7/8 | 7/8 | 31/32 |
| 1½ | 1.179 | 15/16 | 15/16 | 13/32 |
| 1½ x 1/2 x 1½ | 1.263 | 29/32 | 29/32 | 1 |
| 1½ x 3/4 x 3/4 | 1.101 | 29/32 | 13/16 | 13/4 |
| 1½ x 1 x 3/4 | 1.217 | 15/16 | 1¾ | 113/16 |
| 1½ x 1 x 1 | 1.105 | 13/16 | 111/16 | 119/32 |
| 1½ x 1 x 1½ | 1.146 | 27/32 | 21/32 | 11/8 |
| 1½ x 1¼ x 3/4 | 1.164 | 31/32 | 15/8 | 17/8 |
| 1½ x 1¼ x 1 | 1.105 | 7/8 | 119/32 | 15/8 |
| 1½ x 1¼ x 1¼ | 1.160 | 15/16 | 9/16 | 119/32 |
| 1½ x 1½ x 1/2 | .639 | 3/8 | 3/8 | 11/8 |
| 1½ x 1½ x 3/4 | .740 | 19/32 | 19/32 | 13/32 |
| 1½ x 1½ x 1 | .785 | 11/16 | 11/16 | 13/16 |
| 1½ x 1½ x 1¼ | 1.262 | 7/8 | 7/8 | 119/32 |
| 2 | 1.771 | 113/32 | 113/32 | 113/32 |
| 2 x 1/2 x 2 | 1.663 | 113/32 | 21/2 | 17/16 |
| 2 x 1 x 1 | 1.764 | 113/32 | 21/4 | 27/32 |
| 2 x 1 x 2 | 1.564 | 113/32 | 25/32 | 113/32 |
| 2 x 1¼ x 1¼ | 1.471 | 111/32 | 21/16 | 21/8 |
| 2 x 1½ x 3/4 | 1.542 | 111/32 | 29/32 | 21/4 |
| 2 x 1½ x 1 | 1.546 | 13/8 | 29/32 | 21/4 |
| 2 x 1½ x 1¼ | 1.543 | 13/8 | 29/32 | 25/32 |
| 2 x 1½ x 1½ | 1.670 | 11/8 | 9/16 | 113/32 |
| 2 x 1½ x 2 | 1.787 | 15/32 | 111/16 | 11/2 |
| 2 x 2 x 1/2 | 1.576 | 13/8 | 13/8 | 27/16 |
| 2 x 2 x 3/4 | 1.256 | ¾ | ¾ | 11/2 |
| 2 x 2 x 1 | 1.530 | 29/32 | 29/32 | 111/16 |
| 2 x 2 x 1¼ | 1.576 | 13/8 | 13/8 | 21/8 |
| 2 x 2 x 1½ | 1.770 | 11/8 | 11/8 | 11/2 |
| 2 1/2 | 2.082 | 19/16 | 9/16 | 17/8 |
| 2½ x 3/4 x 2½ | 2.294 | 121/32 | 27/8 | 113/16 |
| 2½ x 1 x 2½ | 2.004 | 11/2 | 21/2 | 125/32 |
| 2½ x 1¼ x 2½ | 2.081 | 121/32 | 27/32 | 113/16 |
| 2½ x 1½ x 2½ | 2.973 | 125/32 | 27/16 | 17/8 |
| 2½ x 1½ x 2 | 3.052 | 115/16 | 27/16 | 23/8 |

| NOM. SIZE | APPROX. NET WT. LBS. | C | F | G |
|---------------|----------------------|--------|--------|--------|
| 2½ x 2 x 3/4 | 2.934 | 13/16 | 131/32 | 215/16 |
| 2½ x 2 x 1 | 2.907 | 127/32 | 21/32 | 23/4 |
| 2½ x 2 x 1¼ | 2.954 | 111/16 | 2 | 219/32 |
| 2½ x 2 x 1½ | 2.976 | 123/32 | 2 | 215/32 |
| 2½ x 2 x 2 | 3.046 | 113/16 | 131/32 | 21/4 |
| 2½ x 2 x 3 | 3.580 | 217/32 | 23/4 | 23/8 |
| 2½ x 2 x 2½ | 2.150 | 113/16 | 131/32 | 17/8 |
| 2½ x 2½ x 1/2 | 2.117 | 121/32 | 121/32 | 31/4 |
| 2½ x 2½ x 3/4 | 2.011 | 19/16 | 19/16 | 215/16 |
| 2½ x 2½ x 1 | 1.644 | 11/2 | 11/2 | 21/2 |
| 2½ x 2½ x 1¼ | 2.075 | 121/32 | 121/32 | 221/32 |
| 2½ x 2½ x 1½ | 2.966 | 127/32 | 127/32 | 21/2 |
| 2½ x 2½ x 2 | 2.957 | 125/32 | 125/32 | 21/4 |
| 3 | 3.122 | 115/16 | 115/16 | 21/32 |
| 3 x 3/4 x 3 | 3.049 | 17/8 | 31/2 | 23/16 |
| 3 x 1 x 3 | 3.043 | 17/8 | 33/16 | 23/16 |
| 3 x 1¼ x 3 | 2.986 | 17/8 | 215/16 | 21/8 |
| 3 x 1½ x 3 | 3.811 | 21/32 | 225/32 | 213/32 |
| 3 x 2 x 2 | 3.829 | 131/32 | 21/32 | 23/4 |
| 3 x 2 x 2½ | 3.761 | 21/32 | 221/32 | 21/2 |
| 3 x 2 x 3 | 3.866 | 2 | 221/32 | 23/8 |
| 3 x 2½ x 2 | 3.081 | 17/8 | 27/16 | 213/16 |
| 3 x 2½ x 2½ | 3.010 | 113/16 | 215/32 | 21/2 |
| 3 x 2½ x 3 | 3.194 | 113/16 | 215/32 | 23/16 |
| 3 x 3 x 1/2 | 2.301 | 17/8 | 17/8 | 317/32 |
| 3 x 3 x 3/4 | 2.307 | 11/2 | 11/2 | 3 |
| 3 x 3 x 1 | 2.317 | 11/2 | 11/2 | 23/4 |
| 3 x 3 x 1¼ | 2.957 | 17/8 | 17/8 | 215/16 |
| 3 x 3 x 1½ | 3.056 | 17/8 | 17/8 | 213/16 |
| 3 x 3 x 2 | 3.145 | 17/8 | 17/8 | 211/16 |
| 3 x 3 x 2½ | 3.034 | 115/16 | 115/16 | 21/2 |
| 4 | 7.169 | 213/32 | 213/32 | 217/32 |
| 4 x 2 x 4 | 7.069 | 23/8 | 319/32 | 219/32 |
| 4 x 2½ x 4 | 6.984 | 23/8 | 325/32 | 223/32 |
| 4 x 3 x 2 | 6.965 | 23/8 | 39/16 | 325/32 |
| 4 x 3 x 2½ | 6.990 | 23/8 | 39/16 | 329/32 |
| 4 x 3 x 3 | 7.085 | 23/8 | 39/16 | 31/2 |
| 4 x 3 x 4 | 6.993 | 23/8 | 323/32 | 223/32 |
| 4 x 4 x 1/2 | 4.328 | 111/32 | 111/32 | 311/32 |
| 4 x 4 x 3/4 | 4.415 | 111/32 | 111/32 | 35/16 |
| 4 x 4 x 1 | 4.414 | 111/32 | 111/32 | 31/8 |
| 4 x 4 x 1¼ | 4.730 | 17/16 | 17/16 | 33/32 |
| 4 x 4 x 1½ | 7.144 | 211/32 | 211/32 | 331/32 |
| 4 x 4 x 2 | 7.094 | 211/32 | 211/32 | 313/16 |
| 4 x 4 x 2½ | 6.925 | 23/8 | 23/8 | 329/32 |
| 4 x 4 x 3 | 7.083 | 23/8 | 23/8 | 31/2 |

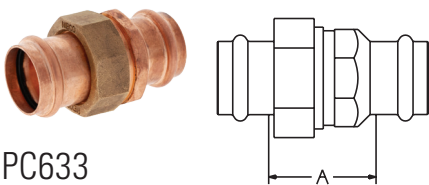
TEES (Cont.)



PC612
Tee P x P x F – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIMENSIONS INCHES | | |
|---------------------|----------------------|---------------------------------|--------------------------------|--------------------------------|
| | | E | F | G |
| 1/2 | .257 | 1 ³¹ / ₃₂ | 2 ³ / ₃₂ | 2 ³ / ₃₂ |
| 3/4 | .434 | 2 ¹¹ / ₃₂ | 2 ⁵ / ₃₂ | 2 ⁵ / ₃₂ |
| 3/4 x 3/4 x 1/4 | .385 | 2 ³ / ₃₂ | 2 ³ / ₃₂ | 2 ¹ / ₃₂ |
| 3/4 x 3/4 x 1/2 | .258 | 2 ⁵ / ₃₂ | 2 ¹ / ₃₂ | 2 ¹ / ₃₂ |
| 1 x 1 x 1/2 | .393 | 2 ¹ / ₄ | 2 ¹ / ₃₂ | 2 ¹ / ₃₂ |
| 1 x 1 x 3/4 | .516 | 2 ²⁷ / ₃₂ | 2 ¹ / ₃₂ | 2 ¹ / ₃₂ |
| 1 1/4 x 1 1/4 x 1/2 | .494 | 2 ¹³ / ₃₂ | 5/8 | 5/8 |
| 1 1/4 x 1 1/4 x 3/4 | .679 | 2 ⁵ / ₈ | 1 ¹ / ₁₆ | 1 ¹ / ₁₆ |
| 1 1/2 x 1 1/2 x 1/2 | .733 | 2 ¹¹ / ₁₆ | 3/8 | 3/8 |
| 1 1/2 x 1 1/2 x 3/4 | .885 | 2 ⁷ / ₈ | 1 ⁹ / ₃₂ | 1 ⁹ / ₃₂ |
| 2 x 2 x 1/2 | 1.699 | 3 ²⁷ / ₃₂ | 1 ³ / ₈ | 1 ³ / ₈ |
| 2 x 2 x 3/4 | 1.370 | 3 ³ / ₁₆ | 3/4 | 3/4 |
| 2 1/2 x 2 1/2 x 3/4 | 1.049 | 2 ¹⁵ / ₃₂ | 1 ¹ / ₁₆ | 1 ¹ / ₁₆ |
| 2 1/2 x 2 1/2 x 2 | 1.925 | 3 ⁷ / ₃₂ | 1 ⁹ / ₃₂ | 1 ⁹ / ₃₂ |
| 3 x 3 x 3/4 | 1.435 | 2 ³ / ₄ | 1 ¹ / ₁₆ | 1 ¹ / ₁₆ |
| 3 x 3 x 2 | 2.097 | 3 ¹⁵ / ₃₂ | 2 ¹ / ₃₂ | 2 ¹ / ₃₂ |
| 4 x 4 x 3/4 | 2.786 | 3 ¹ / ₄ | 1 ¹ / ₁₆ | 1 ¹ / ₁₆ |
| 4 x 4 x 2 | 3.675 | 4 | 1 ⁹ / ₃₂ | 1 ⁹ / ₃₂ |

UNIONS



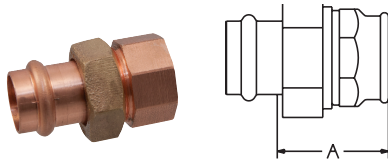
PC633
Union P x P – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------------------------|
| 1/2 | .383 | 1 ⁵ / ₁₆ |
| 3/4 | .527 | 1 ⁹ / ₃₂ |
| 1 | .804 | 1 ¹¹ / ₃₂ |
| 1 1/4 | 1.107 | 1 ¹⁹ / ₃₂ |
| 1 1/2 | 1.703 | 1 ²¹ / ₃₂ |
| 2 | 2.368 | 1 ²⁷ / ₃₂ |

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

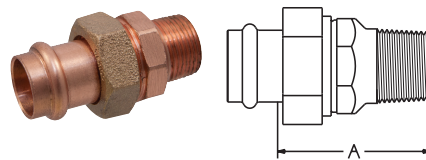
LEAD-FREE: Weighted average lead content ≤ 0.25%

UNIONS (Cont.)



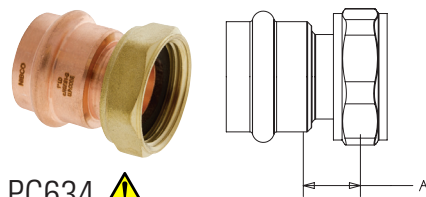
PC633-3 ⚠️
Union P x F – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------------------------|
| 1/2 | .374 | 1 ⁷ / ₁₆ |
| 3/4 | .527 | 1 ⁷ / ₃₂ |
| 1 | .841 | 1 ⁵ / ₈ |
| 1 1/4 | 1.178 | 1 ¹⁵ / ₁₆ |
| 1 1/2 | 1.610 | 1 ²⁹ / ₃₂ |
| 2 | 2.445 | 2 ⁵ / ₃₂ |



PC633-4 ⚠️
Union P x M – Wrot

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|---------------------------------|
| 1/2 | .386 | 1 ¹³ / ₁₆ |
| 3/4 | .567 | 1 ²⁹ / ₃₂ |
| 1 | .842 | 2 ⁵ / ₃₂ |
| 1 1/4 | 1.316 | 2 ³ / ₈ |
| 1 1/2 | 1.756 | 2 ¹³ / ₃₂ |
| 2 | 2.789 | 2 ³ / ₄ |



PC634 ⚠️
Tailpiece P x F BSP

| NOM. SIZE | APPROX. NET WT./LBS. | DIM. A INCHES |
|-----------|----------------------|--------------------------------|
| 1/2 X 1 | 0.1840 | 1 ⁵ / ₃₂ |
| 3/4 X 1 | 0.2230 | 1 ⁵ / ₃₂ |
| 1 X 1 | 0.2320 | 2 ¹ / ₃₂ |
| 1 X 1 1/4 | 0.3530 | 3/8 |

ACCESSORIES



EPDM Seal (leak detection)

| SIZE | PART No. | |
|-------|------------|-------------|
| 1/2 | T048352 PP | Leak Detect |
| 3/4 | T048354 PP | Leak Detect |
| 1 | T048356 PP | Leak Detect |
| 1 1/4 | T048358 PP | Leak Detect |
| 1 1/2 | T048360 PP | Leak Detect |
| 2 | T048362 PP | Leak Detect |

NOTE: Do NOT use with PC-FP600A-LF



Large Diameter EPDM Seal (leak detection)

| SIZE | PART No. | |
|-------|------------|-------------|
| 2 1/2 | T048364 PP | Leak Detect |
| 3 | T048366 PP | Leak Detect |
| 4 | T048368 PP | Leak Detect |



EPDM Seal (leak detection for PC-FP600A-LF ONLY)

| SIZE | PART No. | |
|-------|------------|--------------|
| 1/2 | T048370 PP | PC-FP600A-LF |
| 3/4 | T048372 PP | PC-FP600A-LF |
| 1 | T048374 PP | PC-FP600A-LF |
| 1 1/4 | T048376 PP | PC-FP600A-LF |
| 1 1/2 | T048378 PP | PC-FP600A-LF |
| 2 | T048380 PP | PC-FP600A-LF |



Press Installation Gauge

| SIZE | PART No. |
|-----------|-----------|
| 1 1/2 - 2 | K700001PC |

Visit our website for the most current information.

NIBCO®

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