NIBCO® pressystem



Submittal Package

Job Name _____ Contractor _____

Job Location _____ Wholesaler _____

Engineer _____ NIBCO Sales Rep _____

- ☐ Potable Water
- ☐ Hydronic Heating
- ☐ Chilled Water
- ☐ Cooling Water
- ☐ Compressed Air (dry system)
- ☐ Oxygen (non-medical)
- ☐ Nitrogen
- ☐ Carbon Dioxide
- ☐ Argon
- ☐ Hydrogen
- ☐ 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 (1/2" through 4") as well as soft copper tube (1/2", 3/4" 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®
- ASTM F3226 Performance

**Uniform Plumbing Code and Uniform Mechanical Code are copyrighted publications of the International Association of Plumbing and Mechanical Officials*

THIRD PARTY LISTINGS AND CERTIFICATIONS

- NSF/ANSI/CAN 61
- NSF/ANSI/CAN 372
- ASME B16.51 (1/2" through 2")
- IAPMO PS-117
- ICC-ES LC 1002
- International Code Council-Evaluation Service PMG 1098
- American Bureau of Shipping
- ASTM F3226 Standard Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems

OPERATING PARAMETERS

- Operating Pressure: 300 PSI maximum (select configurations)
- 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.

NIBCO INC. WORLD HEADQUARTERS • 1516 MIDDLEBURY ST. • ELKHART, IN 46516-4740 • USA • PH: 1.800.234.0227
TECH SERVICES PH: 1.888.446.4226 • FAX: 1.888.336.4226 • INTERNATIONAL OFFICE PH: +1.574.295.3327 • FAX: +1.574.295.3455
www.nibco.com

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Press Fitting Applications Chart

Types of Service	Comments	Pressure	Temperature	Compatible with EPDM Seal
Fluids/Water				
Hot and Cold Potable Water		300 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	300 PSI	-20°F to 250°F	●
Chilled Water	Up to 50% Ethylene Glycol/Propylene Glycol solution appropriate for the application temperature range	300 PSI	-20°F to 250°F	●
Hydronic Heating		300 PSI	-20°F to 250°F	●
Cooling Water		300 PSI	-20°F to 250°F	●
Ethanol		300 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
NSF Drinking Water System Components
ICC Evaluation Service PMG-1098
State of Massachusetts

Note: Select small diameter configurations approved to 300 PSI. Please reference Submittal Template product list.

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.

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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:

	SIZE	1/2" - 1¼"								1/2" - 2"										2½" - 4"	
		1/2" - 1" NIBCO® Press System Pressing Jaws (PC-1M, PC-2M, PC-M3)	1/2" - 1 1/4" Milwaukee® M12™ Pressing Jaws	½" & ¾" RIDGID® ProPress® Compact Pressing Jaws	1/2" - 1" 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 ½" – 4" NIBCO press rings and adapter
Compact Pressing Tools	NIBCO® PC-10M 15kn Mini	**YES**	—	—	—	—	**YES**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NIBCO® PC-20M 15kn Mini	**YES**	—	—	—	—	**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**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	RIGID(r) RP251 Compact	—	—	—	**YES**	**YES**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Rothenberger® Compact	**YES**	—	—	—	—	**YES**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Stanley® VIRAX® M20+ Compact	—	—	—	—	—	—	**YES**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DEWALT® DCE210	—	—	—	—	—	—	—	**YES**	—	—	—	—	—	—	—	—	—	—	—	—	—
Standard Pressing Tools	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**	**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	—	—	—	—	—	—	—	—	**YES**	—	—	**YES**	**YES**	—	—	—	—	—	—	—
	RIDGID® RP 350	—	—	—	—	—	—	—	—	**YES**	—	—	**YES**	**YES**	—	—	—	—	—	—	—
	RIDGID® RP 351	—	—	—	—	—	—	—	—	**YES**	—	—	**YES**	**YES**	—	—	—	—	—	—	—
	DEWALT® DCE200	—	—	—	—	—	—	—	—	**YES**	—	—	—	—	—	—	—	—	—	—	—
	REMS® Akku-Press	—	—	—	—	—	—	—	—	—	—	—	—	—	**YES**	—	—	—	—	—	—
	REMS® Power-Press	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**YES**	—	—	—	—	—
	Rothenberger® ROMAX® Pressliner	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**YES**	**YES**	—	—	—	—
	Rothenberger® ROMAX® AC ECO	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**YES**	—	—	—	—
	Stanley® VIRAX® P20+	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**YES**	—	—
	DEWALT® DCE200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**YES**	—	—	—

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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ProPress® is a registered trademark of Viega GmbH & Co

ROMAX® is a regis–tered 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 (2½", 3", 4" ends) to be installed ONLY with approved pressing tools & chains.
- Webstone press valves and fittings (2½", 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

NIBCO Press System

The NIBCO Press System, when used with tested and authorized pressing tools and jaws, is designed to mechanically crimp fittings and valves onto copper tubing to create a watertight, permanent seal. When the switch on the pressing tool is depressed a small hydraulic pump generates thousands of pounds of crimping force to install the specially designed fittings and valves.

System Components

Fittings and Valves

NIBCO Press System copper or bronze fittings and valves

Tubing

ASTM B 88 seamless Hard Drawn Copper Water Tube: Types K, L and M as well as 1/2", 3/4" and 1" annealed copper tubing.

Pressing Tools, Chains and Jaws

The pressing tool, chain and jaw are important parts of ensuring a reliable, permanent connection between NIBCO Press System fittings and valves and the copper water tube.

CAUTION — Use only pressing tools and jaw sets that have been tested and authorized for use with NIBCO Press System fittings and valves [1]. Use of unauthorized pressing tools and/or jaws may result in an improper seal that could cause extensive property damage.

(1) See approved tool and jaw compatibility matrix in this catalog.

Pressing Tool Safety

- Only use authorized pressing tools and jaws with NIBCO Press System fittings and valves. Other uses or modification of the jaws for other applications may damage the press tool, damage the jaws and/or cause personal injury.
- Keep fingers and hands away from jaws during pressing cycle. Your fingers or hands can be crushed, fractured or amputated if they become caught between the jaw tips or between the jaw and any other object.
- Always wear safety glasses while using pressing tools and jaws.
- Never attempt to repair a damaged jaw set. A jaw that has been modified in any manner can fail during crimping resulting in serious injury. Discard the entire damaged jaw set. Replace with a new jaw set.

WARNING: Please read these installation instructions and the manufacturer's pressing tool and jaw operators manual(s) carefully prior to installation of the NIBCO Press System. Failure to understand and follow the contents of this manual may result in extensive property damage, severe personal injury or death.

Please contact NIBCO Technical Services at 888.446.4226 if you have installation questions.

Chemical Compatibility

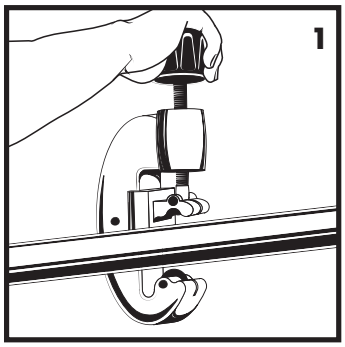
Please consult the most current edition of the NIBCO Chem-Guide for recommendations regarding chemical compatibility of material exposure to specific media and media-treatment additives. The NIBCO Chem-Guide is a general guide on the topic of chemical compatibility and is by no means an exhaustive resource on the subject. Ultimately, proper material selection is the responsibility of the installer and/or end-user, taking into account all aspects of a system's design and intended use.

Galvanic Potential in Piping Systems

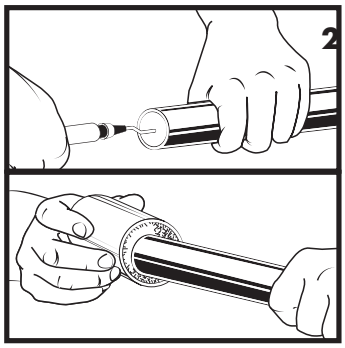
Galvanic corrosion or dissimilar metal corrosion is an electrochemical process that is created through the electrical interaction of two different metals under the influence of a conductive media (i.e. an electrolyte). An electrolytic cell, much like a battery, is generated by these dissimilar metals using water as the electrolyte. The electrical charge, developed within the electrolytic cell, drives a preferential attack on the more electrically active metal with the water acting as the recipient of the discarded metal ions. Such galvanic attack is often encountered in service where iron or steel components are installed, and later corrode, in a largely copper piping system. Please consult NIBCO Technical Bulletin NTB-0714-01 Dielectric Products Relative to Electrolysis and Galvanic Corrosion.

NIBCO® Press System — 1/2" - 2" Installation Instructions

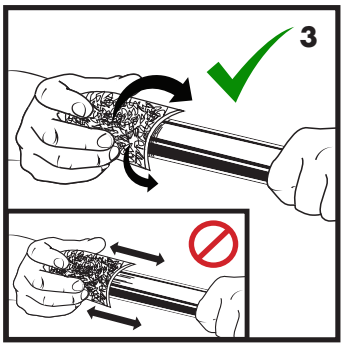
For Types K, L and M Hard Copper Tubing in 1/2" to 2" sizes: Annealed copper tubing 1/2", 3/4" and 1"



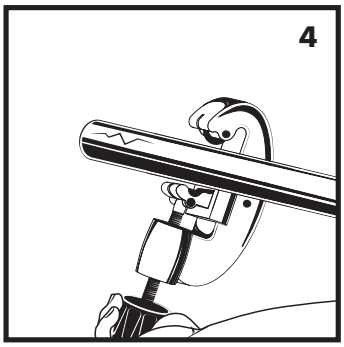
1. Cut clean, undamaged copper tube to desired length. Ensure no manufacturer markings or identification stamps on the cut tube fall within the press joint. Cut tubing square with a pipe cutter or fine-toothed saw. Do not use excessive force when cutting tube as it could cause tube to become out-of-round.



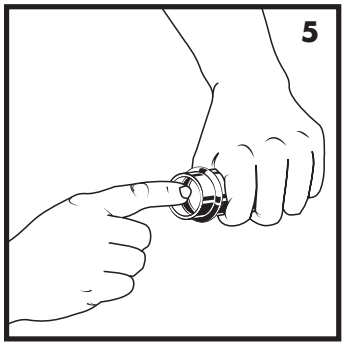
2. Deburr the tubing inner diameter with a pin reamer, half round file, or deburring tool. Deburr the tubing outer diameter with a half round file or deburring tool. It is critical to remove all burrs and sharp corners that could damage the sealing element and compromise the joint integrity. Annealed tube should be brought to size using a plug and sizing ring tool.



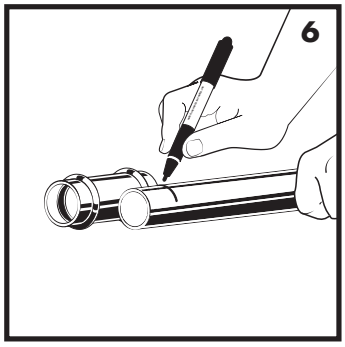
3. Clean the tube end so it is free of dirt, debris, oil, and grease. If needed, use a Scotch-Brite™ maroon pad or 180-grit (or finer) sandcloth. Clean in a radial motion (around the tube), not in an axial motion (along the tube). The tube end should be uniform and bright.



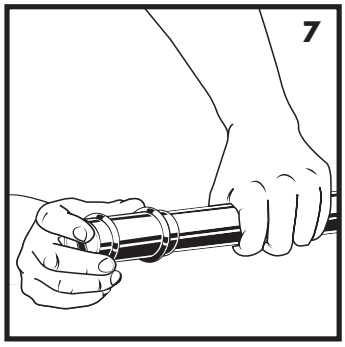
4. After completion of steps 1-3, perform a visual and tactile inspection of the tubing end. It must be free of any indentation or any imperfection that could impact sealing performance and joint integrity. Any surface imperfection that cannot be corrected must be cut off and the tube preparation restarted.



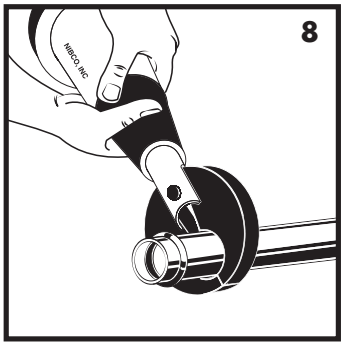
5. Check the fitting to make sure that the seal is in place, clean and free of contaminants. Only original NIBCO black EPDM seals are to be used. Do not use oils or lubricants.



6. Mark the tube with a permanent marker at the proper insertion depth. Use the insertion depth chart or NIBCO insertion depth tool for proper insertion depth. Improper depth insertion may impact joint integrity and sealing performance.



7. Fully insert the pipe into the fitting. For fittings with stops, insert the pipe to make contact with the fitting stop. For fittings without a stop, insert the pipe to a depth no less than the specified insertion depth. Mark the tube with the new insertion depth, if needed.



8. Open press jaws and align jaws with fitting bead. Follow manufacturer-specific tool instructions for tool operation and to complete the pressing cycle. Inspect crimped joint to confirm that fitting remains in the proper location.

Tube Insertion Depth Chart

Tube Size (In.)	Insertion Depth (In.)
1/2	11/16
3/4	7/8
1	7/8
1-1/4	1
1-1/2	1-3/8
2	1-1/2

Leak Testing: Unpressed connections are located by pressurizing the system with air or water. When testing with compressed air, the proper maximum pressure is 15 psi. When testing with water the proper pressure maximum is 50 psi using potable water. In either case, bring the pressure up slowly.

Following a successful leak test, the system may be pressure tested up to 200 psi max if required by local code requirements or project specifications. Leak testing with air can be dangerous at high pressures.

WARNING	MISE EN GARDE !	ADVERTENCIA
Read press tool operator's manual and fitting manufacturer's installation instructions before using. Failure to follow all instructions may result in extensive property damage and/or serious personal injury. Call the NIBCO Technical Service Department at 1.888.446.4226 if you have any questions or need assistance.	**Familiarisez-vous avec le mode d'emploi de la presse et les instructions du fabricant des raccords avant d'utiliser l'appareil. Le non-respect de leurs consignes risquerait d'augmenter les risques de dégâts matériels importants et/ou de graves blessures corporelles. Veuillez adresser toutes questions éventuelles ou demandes de mode d'emploi à la NIBCO en composant le 1.888.446.4226.**	**Antes de usar, lea el Manual del Operario de esta herramienta de presión y las instrucciones de instalación del acopliamiento proporcionadas por su fabricante. Pueden ocurrir daños materiales de gran envergadura y lesiones corporales de gravedad si no se respetan todas las instrucciones. Si tiene alguna pregunta o desea pedir un manual, llame al Departamento de Servicio Técnico de NIBCO al 1.888.446.4226.**

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 s 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).*

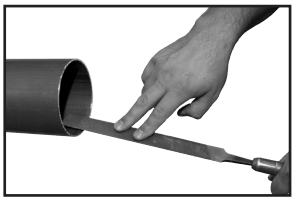


Figure 2: Deburr inside diameter using a half-round file

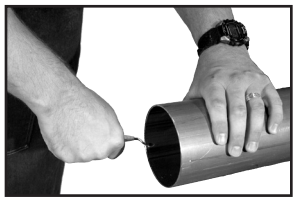


Figure 3: Deburr inside diameter deburring tool

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

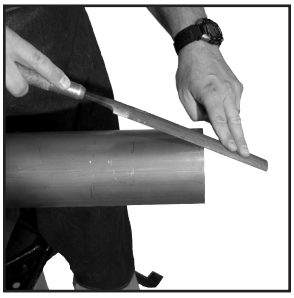


Figure 4: Deburr outside diameter using a half-round file

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	2½"	3"	4"
Insertion Depth (min.)	1½"	1⅝"	2⅛"

3. Insert the tube into the fitting or valve using a twisting motion. Make sure that the tube is fullly 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.

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 approved pressing tools & chains.
- Webstone press valves and fittings (2½", 3", 4" ends) to be installed ONLY with XLC pressing tools & jaws.

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 toolinstruction 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)*.

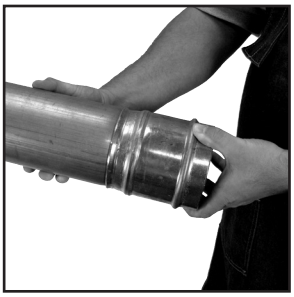


Figure 9: Inspection of final crimp

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

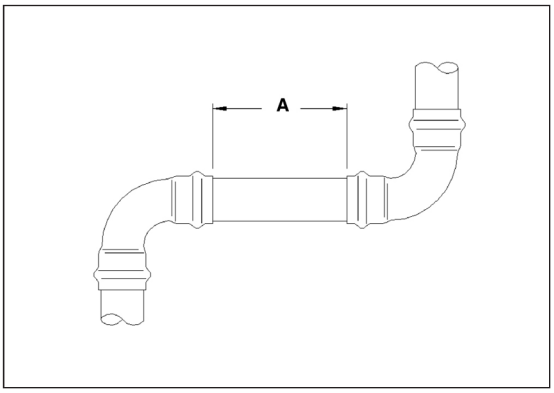
   If any problems are found, a new section of tubing and a new fitting will need to be prepared, installed, and crimped.
3. Test the NIBCO Press System in accordance with crimp integrity testing instructions for fittings and valves in this catalog.

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
½"*	0	0
¾"*	0	0
1"*	0	0
1¼"*	0	0
1½"*	0	0
2"*	0	0
2½"	⅜"	10
3"	⅜"	10
4"	⅜"	10

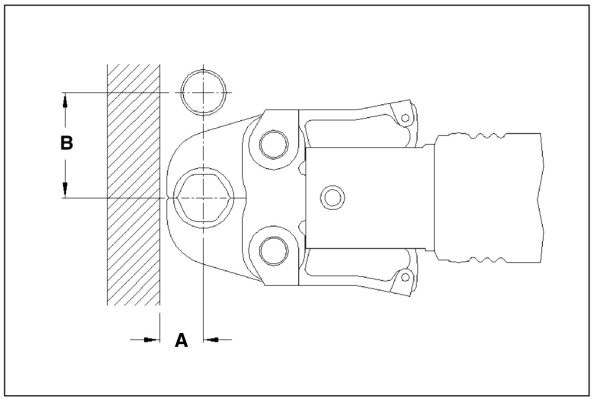
***No minimum distance required.**

Spacing

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

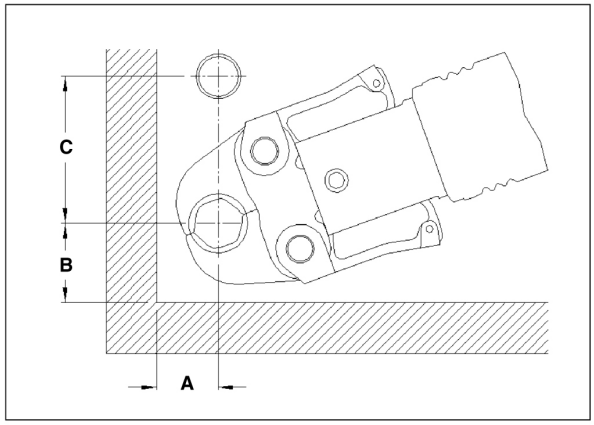
Clearance Requirement — NIBCO Standard Sets

Tool perpendicular to wall



Tube Dia.	A (min.)		B (min.)	
	Inches	mm	Inches	mm
1/2	15/16	24	1 5/8	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 2½", 3" & 4" are for wrapping pressing chains around fittings.

System Support

CAUTION — In any installation, the system should be suported 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.

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www.nibco.com

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.

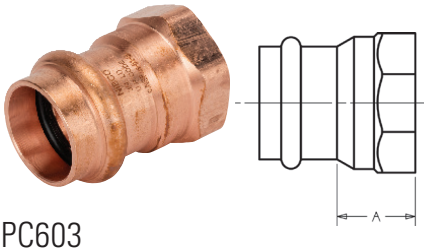
Some states do not allow limitations on implied warranties, so the above limitation may not apply to you.

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.



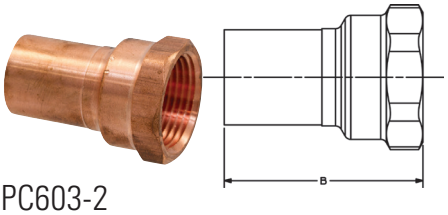
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ADAPTERS



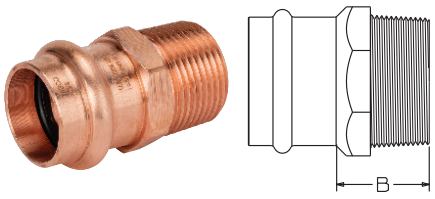
PC603
Adapter P x F – Wrot

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 1¼*	.436	1 3/16
1¼*	.372	1 1/16
1¼ x 1*	.359	1 1/16
1¼ x 1½*	.425	1 7/32
1½*	.518	1 1/16
1¼ x 2*	.276	1
1½ x 1¼*	.515	1
2*	.672	1
2½	1.222	1 13/32
3	1.756	1 23/32
4	3.238	1 7/8



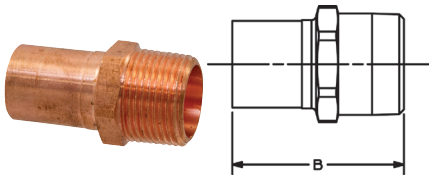
PC603-2
Extended Adapter FTG x F – Wrot

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
1¼ x 1/2	0.193	2 3/16
1¼	0.322	2 3/8
1½	0.431	2 21/32
2	0.683	2 15/16



PC604
Adapter P x M – Wrot

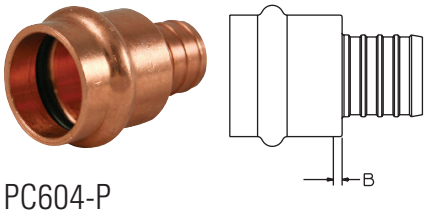
NOM. SIZE	APPROX. NET WT./LBS.	DIM. B INCHES
1/2*	.103	7/8
1/2 x 3/8*	.105	27/32
1/2 x 3/4*	.191	1 1/4
3/4*	.180	1 1/16
3/4 x 1/2*	.189	31/32
3/4 x 1*	.268	1 3/16
1*	.255	1 3/32
1 x 3/4*	.253	1 1/32
1 x 1¼*	.457	1 17/32
1¼*	.467	1 13/32
1¼ x 1*	.335	1 3/16
1¼ x 1½*	.537	1 1/2
1½*	.696	1 1/2
1½ x 1¼*	.603	1 3/8
1½ x 2*	.784	1 7/16
2*	.856	1 7/16
2 x 1½*	1.087	1 19/32
2 ½	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
1¼	0.408	2 17/32
1½	0.530	2 7/8
2	0.782	3 11/32

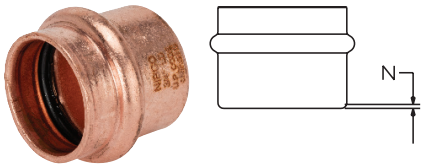
ADAPTERS *(Cont.)*



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

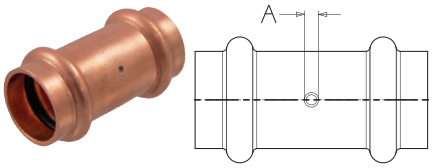
NOM. SIZE	APPROX. NET WT./LBS.	DIM. N INCHES
1/2*	.046	5/32
3/4*	.087	5/32
1*	.125	1/8
1¼*	.171	3/32
1½*	.314	3/32
2*	.493	3/32
2½	.476	7/32
3	.713	7/32
4	1.491	1/4

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*** IAPMO RECOGNIZED TO 300 PSI PER ASTM F3226**

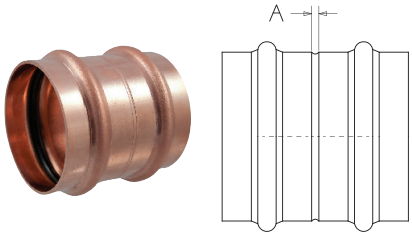
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COUPLINGS



PC600-DS
Coupling P x P – Wrot

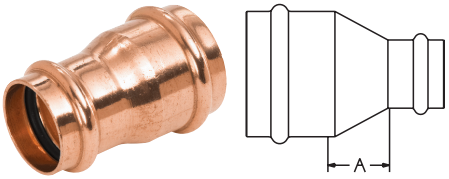
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2*	.083	3/16
3/4*	.157	5/32
1*	.198	5/32
1¼*	.271	5/32
1½*	.530	3/16
2*	.691	5/32
2½	.669	1/8
3	.979	1/8
4	2.134	7/32



PC600-RS
Coupling P x P – Wrot

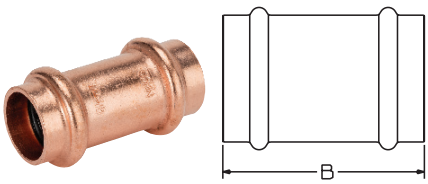
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
2½	.688	1/8
3	.979	1/8
4	2.134	7/32

COUPLINGS (Cont.)



PC600-R
Reducing Coupling P x P – Wrot

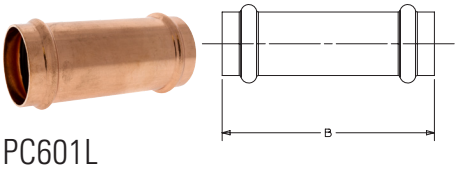
NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
3/4 x 1/2*	.121	1/4
1 x 1/2*	.139	7/16
1 x 3/4*	.184	13/32
1¼ x 3/4*	.245	1/2
1¼ x 1*	.231	7/16
1½ x 3/4*	.382	15/32
1½ x 1*	.370	13/32
1½ x 1¼*	.399	9/32
2 x 3/4*	.516	29/32
2 x 1*	.552	11/16
2 x 1¼*	.570	11/16
2 x 1½*	.662	7/16
2½ x 1	.620	31/32
2½ x 1¼	.644	1
2½ x 1½	.678	23/32
2½ x 2	.699	11/32
3 x 1½	.956	1 1/16
3 x 2	1.032	23/32
3 x 2½	.951	1/2
4 x 2	1.949	1 5/32
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	1 3/4
3/4*	.157	2 1/4
1*	.190	2 1/4
1¼*	.271	2 15/32
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

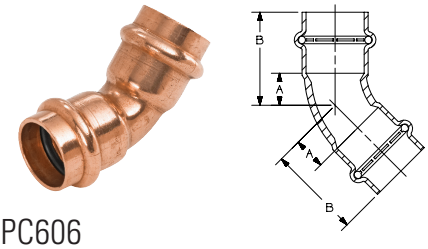
COUPLINGS (Cont.)



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



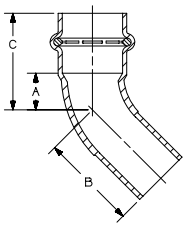
PC606
45° Elbow P x P – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1/2*	.092	13/32	1 1/8
3/4*	.181	1/2	1 13/32
1*	.251	5/8	1 1/2
1¼*	.403	25/32	1 25/32
1½*	.666	15/16	2 5/16
2*	1.063	1 3/16	2 23/32
2½	1.041	7/8	2 3/8
3	1.536	1 1/8	2 25/32
4	3.375	1 11/16	3 27/32

*** IAPMO RECOGNIZED TO 300 PSI PER ASTM F3226**

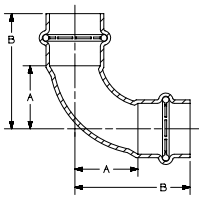
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ELBOWS (Cont.)

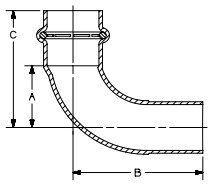
PC606-2
45° Elbow Ftg x P – Wrot

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
1¼*	.368	11/16	1 3/4	1 11/16
1½*	.673	1 13/16	2 5/16	2 3/16
2*	1.057	1	2 21/32	2 1/2
2½	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

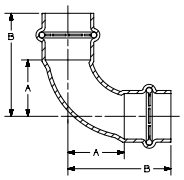
PC607
90° Elbow P x P – Wrot

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
1¼*	.528	1 27/32	2 29/32
1½*	.895	2 7/32	3 21/32
2*	1.480	2 15/16	4 15/32
2½	1.224	1 5/8	3 3/32
3	1.900	2	3 21/32
4	3.935	2 15/32	4 5/8

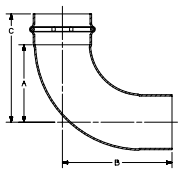
PC607-2
90° Elbow Ftg x P – Wrot

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
1¼*	.490	1 7/8	3 3/32	2 29/32
1½*	.871	2 7/32	3 15/16	3 11/16
2*	1.474	2 29/32	4 17/32	4 15/32
2½	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

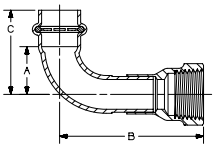
PC607-LT
90° Long Radius Elbow
P x P – Wrot

NOM. SIZE	APPROX. NET WT/LBS.	DIM. A INCHES	DIM. B INCHES
2½	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

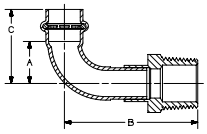
PC607-2-LT
90° Long Radius Elbow
Ftg x P - Wrot

NOM. SIZE	APPROX. NET WT. LBS.	DIMENSIONS INCHES A	B	C
2½	2.114	3 11/16	5 7/32	5 5/32
3	3.037	4 1/32	5 3/4	5 11/16

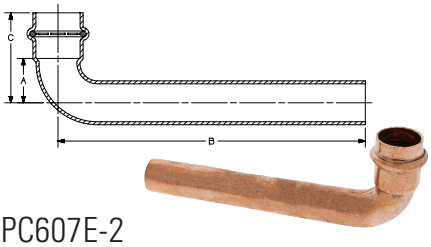
PC607-3
90° Elbow P x F - Wrot

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
1¼	.892	1 27/32	4 3/16	2 29/32
1½	1.314	2 7/32	5 1/16	3 11/16
2	2.109	2 29/32	5 5/8	4 15/32

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
1¼	.926	1 27/32	4 1/32	2 29/32
1½	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

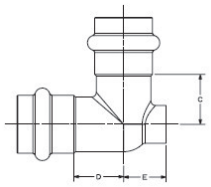
NOM. SIZE	APPROX. NET WT. LBS.	DIMENSIONS INCHES A	B	C
3/4*	.407	29/32	6 1/8	1 25/32

Visit our website for the most current information.

*** IAPMO RECOGNIZED TO 300 PSI PER ASTM F3226**

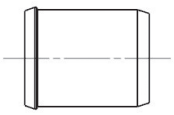
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ELBOWS (Cont.)

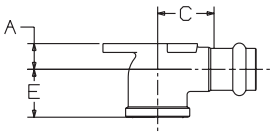
PC705-D
Vent Elbow P x P – Forged Brass

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

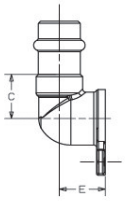
PC605
Stiffener – Wrot

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	1 5/8	31/32

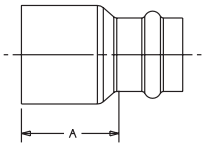



PC707-3-5-A
Hi-Ear Elbow P x F – Cast *Lead Free

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

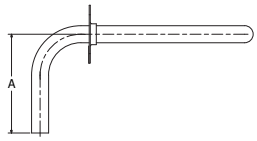
*** IAPMO RECOGNIZED TO 300 PSI PER ASTM F3226**

FITTING REDUCERS

PC600-2
Fitting Reducer Ftg x P – Wrot

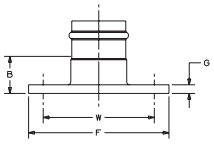
NOM. SIZE	APPROX. NET WT/LBS.	DIM. A INCHES
1/2*	.610	21/32
3/4 x 1/2*	.092	1 7/16
3/4*	.126	31/32
1 x 1/2*	.123	1 7/16
1 x 3/4*	.151	1 13/32
1*	.162	1 1/8
1¼ x 1/2*	.155	1 19/32
1¼ x 3/4*	.175	1 13/32
1¼ x 1*	.181	1 7/16
1¼*	.215	1 3/16
1½ x 1/2*	.243	2 3/32
1½ x 3/4*	.248	1 31/32
1½ x 1*	.251	1 13/16
1½ x 1¼*	.251	1 25/32
1½*	.382	1 5/16
2 x 1/2*	.394	2 1/2
2 x 3/4*	.405	2 11/32
2 x 1*	.398	2 7/32
2 x 1¼*	.420	2 3/32
2 x 1½*	.507	1 31/32
2*	.619	1 9/16
2½ x 3/4	.540	2 1/2
2½ x 1	.707	2 1/2
2½ x 1¼	.776	2 9/16
2½ x 1½	.840	2 13/32
2½ x 2	.839	2
3 x 3/4	.755	2 29/32
3 x 1¼	.882	2 13/16
3 x 1½	1.055	2 13/16
3 x 2	1.084	2 3/8
3 x 2½	.820	2 1/4
4 x 3/4	1.723	4 3/32
4 x 2	1.832	3 5/8
4 x 2½	1.837	3 1/32
4 x 3	2.013	3 1/32

PC607-2EW Stub-Out F x S

NOM. SIZE	APPROX. NET WT/LBS.	DIM. A INCHES
1/2	.360	3 5/8
3/4	.520	3 15/16
1	.740	6 1/16

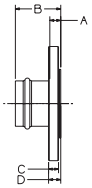
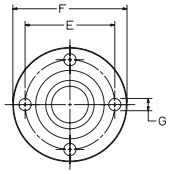
FLANGES

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
1¼*	1.632	1 5/16	4 5/8	1/4	3 1/2
1½*	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	1 21/32	2 17/32	7/16
1*	2.013	1 23/32	2 19/32	1/2
1¼*	2.623	1 21/32	2 21/32	9/16
1½*	3.342	1 1/2	2 7/8	5/8
2*	4.884	1 15/32	2 11/32	5/8
2½	6.418	3/4	2 25/32	5/8
3	7.409	15/32	2 15/16	21/32
4	10.920	21/32	3 3/8	23/32

NOM. SIZE	DIMENSIONS INCHES D	E	F	G
3/4*	9/16	2 3/4	3 7/8	5/8
1*	5/8	3 1/8	4 1/4	5/8
1¼*	11/16	3 1/2	4 5/8	5/8
1½*	25/32	3 7/8	5	5/8
2*	25/32	4 3/4	6	3/4
2½	3/4	5 1/2	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.

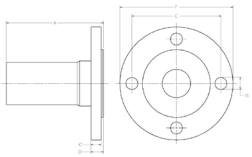
⚠ **WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

LEAD-FREE: Weighted average lead content ≤ 0.25%

Visit our website for the most current information.

FLANGES (Cont.)





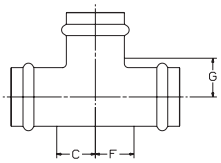
PC672-2
Companion Flange
FTG x Flange – Wrot

NOM. SIZE	APPROX. NET WT. LBS.	DIMENSIONS INCHES A	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	DIMENSIONS INCHES E	F	G
2	4 3/4	6	3/4
2½	5 1/2	7	3/4
3	6	7 1/2	3/4
4	7 1/2	9	3/4

TEES





PC611
Tee P x P x P – Wrot

NOM. SIZE	APPROX. NET WT. LBS.	DIMENSIONS INCHES 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.)

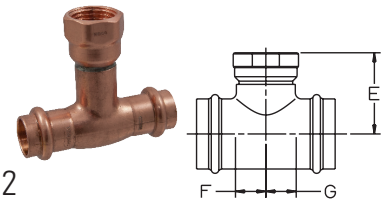
NOM. SIZE	APPROX. NET WT. LBS.	DIMENSIONS INCHES C	F	G
1 x 3/4 x 1*	.578	13/16	11/16	7/8
1 x 1 x 1/2*	.324	21/32	21/32	7/8
1 x 1 x 3/4*	.388	3/4	3/4	27/32
1 x 1 x 1¼*	.723	11/8	11/8	7/8
1¼*	.759	1	1	15/16
1¼ x 1/2 x 1¼*	.690	31/32	117/32	31/32
1¼ x 1 x 1/2*	.674	31/32	15/32	15/8
1¼ x 3/4 x 1/2*	.682	15/16	19/32	15/8
1¼ x 3/4 x 3/4*	.565	3/4	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	19/32	15/16
1¼ x 1 x 3/4*	.753	27/32	13/16	113/32
1¼ x 1 x 1*	.725	31/32	17/32	19/32
1¼ x 1¼ x 1/2*	.408	1	1	117/32
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	129/32	1
1½ x 3/4 x 3/4*	1.101	29/32	113/16	13/4
1½ x 1 x 3/4*	1.217	15/16	13/4	113/16
1½ x 1 x 1*	1.105	13/16	111/16	119/32
1½ x 1 x 1½*	1.146	27/32	121/32	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	19/16	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	129/32	21/4
2 x 1½ x 1*	1.546	13/8	129/32	21/4
2 x 1½ x 1¼*	1.543	13/8	129/32	25/32
2 x 1½ x 1½*	1.670	11/8	19/16	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	3/4	3/4	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	19/16	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	217/32	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.	DIMENSIONS INCHES C	F	G
2½ x 2 x 3/4	2.934	113/16	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 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	221/32	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

*** IAPMO RECOGNIZED TO 300 PSI PER ASTM F3226**

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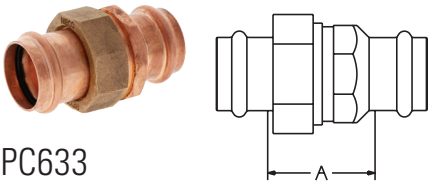
TEES *(Cont.)*



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	23/32	23/32
3/4	.434	2 11/32	25/32	25/32
3/4 x 3/4 x 1/4	.385	23/32	23/32	2 1/32
3/4 x 3/4 x 1/2	.258	2 5/32	21/32	21/32
1 x 1 x 1/2	.393	2 1/4	21/32	21/32
1 x 1 x 3/4	.516	2 27/32	21/32	21/32
1¼ x 1¼ x 1/2	.494	2 13/32	5/8	5/8
1¼ x 1¼ x 3/4	.679	2 5/8	11/16	11/16
1½ x 1½ x 1/2	.733	2 11/16	3/8	3/8
1½ x 1½ x 3/4	.885	2 7/8	19/32	19/32
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
2½ x 2½ x 3/4	1.049	2 15/32	11/16	11/16
2½ x 2½ x 2	1.925	3 7/32	1 9/32	1 9/32
3 x 3 x 3/4	1.435	2 3/4	11/16	11/16
3 x 3 x 2	2.097	3 15/32	21/32	21/32
4 x 4 x 3/4	2.786	3 1/4	11/16	11/16
4 x 4 x 2	3.675	4	1 9/32	1 9/32

UNIONS



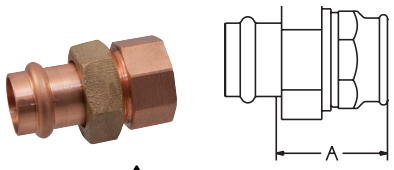
PC633
Union P x P – Wrot

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
1¼*	1.107	1 19/32
1½*	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.

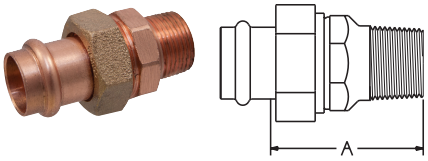
LEAD-FREE: Weighted average lead content ≤ 0.25%

UNIONS *(Cont.)*



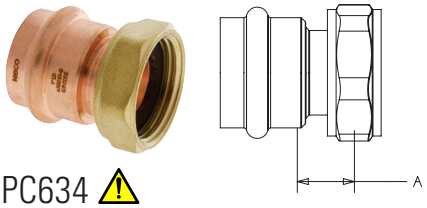
PC633-3
Union P x F – Wrot

NOM. SIZE	APPROX. NET WT./LBS.	DIM. A INCHES
1/2*	.374	1 7/16
3/4*	.527	1 17/32
1*	.841	1 5/8
1¼*	1.178	1 15/16
1½*	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
1¼*	1.316	2 3/8
1½*	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	15/32
3/4 X 1*	0.2230	15/32
1 X 1*	0.2320	21/32
1 X 1¼*	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
1¼	T048358 PP	Leak Detect
1½	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.	
2½	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
1¼	T048376 PP	PC-FP600A-LF
1½	T048378 PP	PC-FP600A-LF
2	T048380 PP	PC-FP600A-LF



Press Installation Gauge

SIZE	PART No.
1½ - 2	K700001PC

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Visit our website for the most current information.



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