

Thermostatic/Pressure Balance Valve Installation Instructions

1921 Series Shower Valve

**CHICAGO
FAUCETS**

Geberit Group

Notice to the Installer

- Read this entire instruction sheet before installing to ensure proper installation.
- Installation must comply with local codes and ordinances.

Pressurized plumbing fittings shall be installed in accordance with manufacturer's recommendations.

The supply piping to these devices shall be securely anchored to the building structure to prevent installed device from unnecessary movement when operated by the user. Care shall be exercised when installing the device to prevent marring the exposed surface.

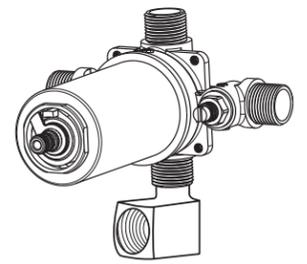
NOTE: The information in this manual is subject to change without notice.

Please leave this manual with the facility manager after completing the valve installation. This document contains information necessary for routine maintenance and servicing.

Rough-In of Valve and Assembly of Trim:

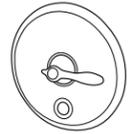
1. Unthread and remove the Integral Stops using a socket wrench equipped with a 9/16" deep well socket (see Figure 1). Remove valve cartridge. Use plastic guard as template to rough valve body into wall.
2. Depth of rough-in should account for thickness of wall materials to be used (combined thickness of wall board and finished wall material). The distance from the centerline of the inlet/outlet ports of the valve assembly to the finished wall MUST be between 1-15/16" - 2-5/8". See images below for reference.
3. Make sure valve is positioned plumb and level. Remove rough-in template from valve. Make threaded connections or plumb and solder all joints and fittings. Take care to protect surrounding area when soldering. Secure piping to surrounding structure.
4. Reinstall the integral stops using a socket wrench equipped with a 9/16" deep well socket or adjustable wrench. Reinstall valve cartridge.
5. Valve should be pressurized and tested for leaks at the connections.
6. Plastic guard should be left attached to the valve until finished wall material is installed.
7. After wall is finished, remove plastic guard and install drain and trim (see reverse side).

Valve with Brazed Elbow



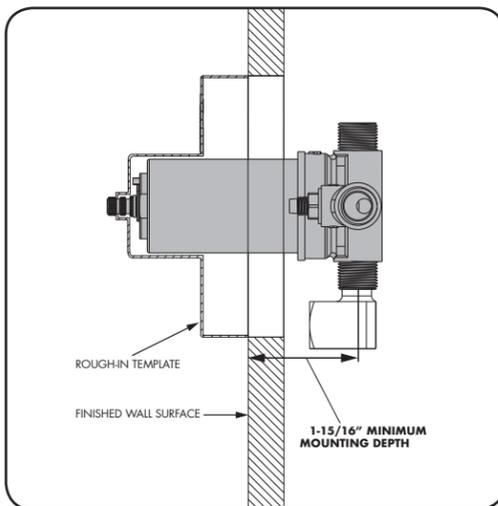
1921-VONF

Standard Trim Option



1921-001KCP

Minimum Mounting Depth



Maximum Mounting Depth

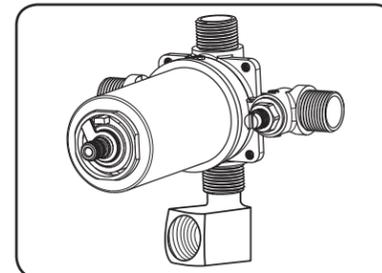
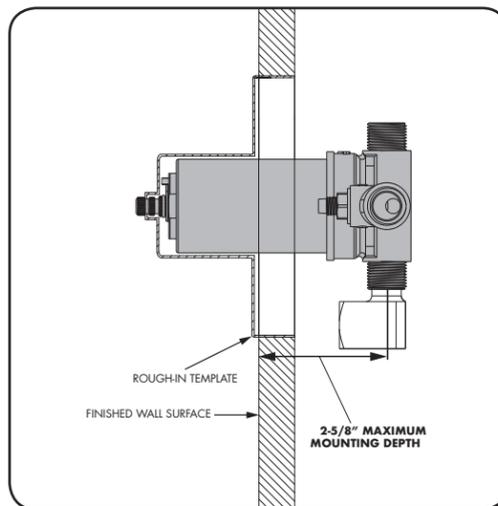
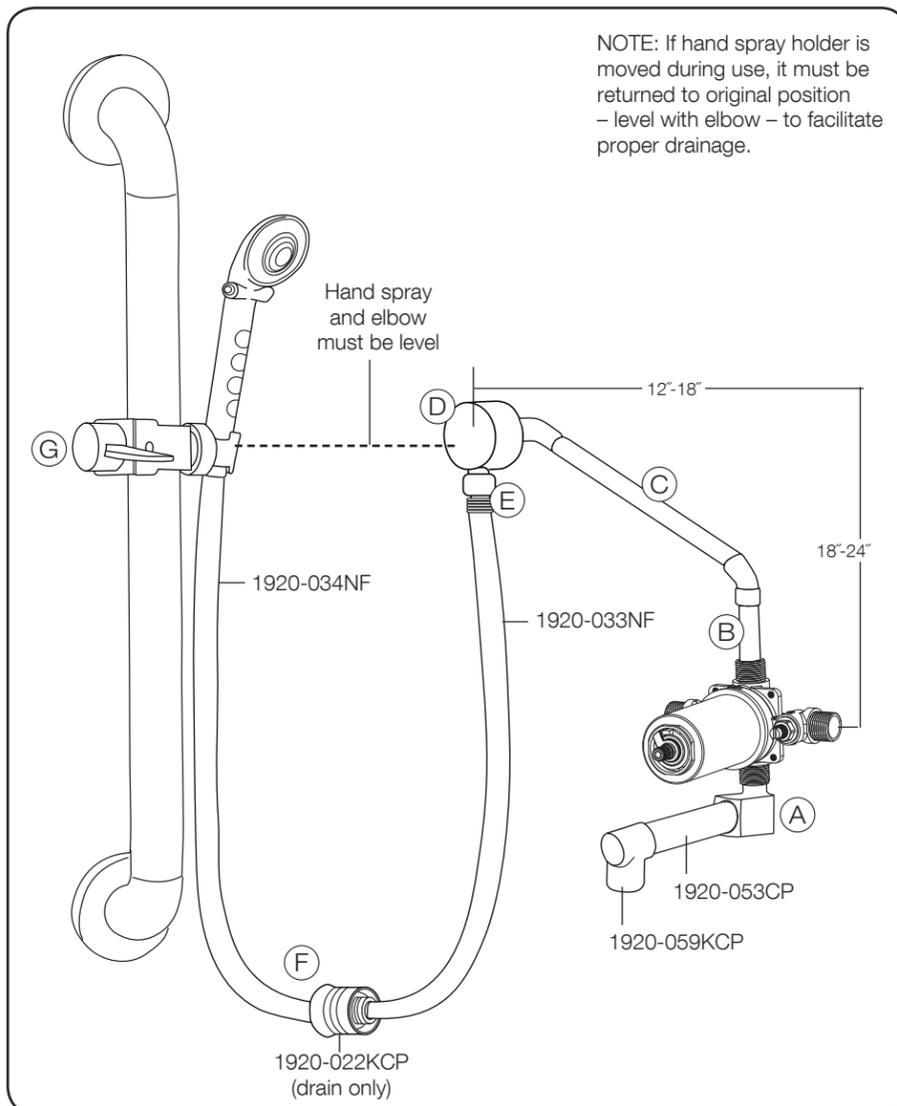


Figure 1

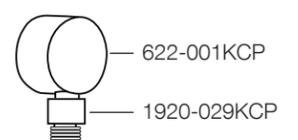
Installation Configurations

The 1921 Series valve has been designed to be installed like a conventional shower valve or with a quick drain system that allows water to drain from the valve and hand shower hose after each use. This optional system is designed to eliminate stagnant water in the shower system. Below is an example of a configuration using the 1921 Series valve.

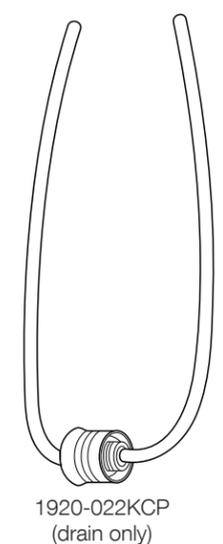
Hand Shower with Trim Integrated Valve and Shower Hose Drain



Hand Shower Elbow



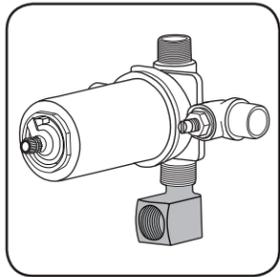
Hand Shower Hose with Drain



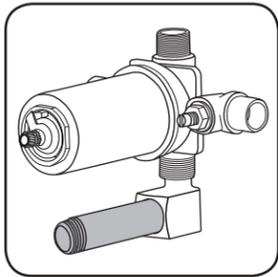
1. Install lower valve drain following steps in configuration example #2 (A).
2. For hand shower, install a short supply pipe up from valve and attach a 45° elbow (B).
3. Run extension supply pipe from the elbow to desired location that is 18" - 24" above valve center, maintaining a 45° angle (C). 1/2-14 NPT thread is required for hand shower exposed elbow installation.
4. Apply thread seal tape and install exposed elbow (D). (Model no. 1920-029KCP)
5. Install atmospheric vent with included gasket (E).
6. Install hose segments to elbow and hand spray.
7. Connect the end of each hose segment to hose drain valve (F).
8. Hand spray holder should be placed at same height as exposed elbow and positioned so the drain valve is centered at the lowest point in the hose (G).

NOTE: In order for the quick drain system to function properly with a hand shower, the supply pipe to the exposed elbow must be at a 45° angle. Also, the drain valve for the hand shower hose must be centered at lowest point when hanging.

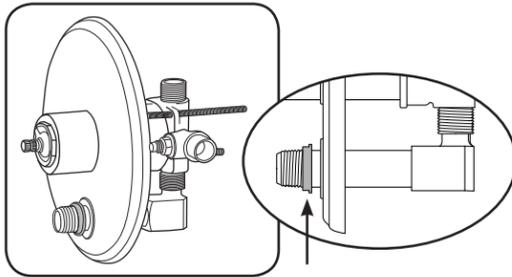
Elbow and Pipe Installation



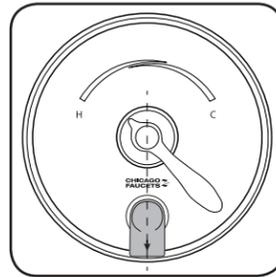
1. Install valve with brazed elbow.



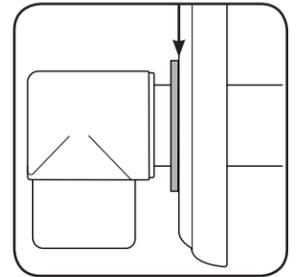
2. Install straight nipple 1/2" pipe – 1/2-14 NPT both ends. Use pipe sealer on both ends of pipe nipple. Tighten securely with wrench. Take care not to damage chrome plate finish.



3. Position 2-hole round trim over valve and pipe and attach with screws. Insert pipe and drain seal with larger diameter end closest to the trim.

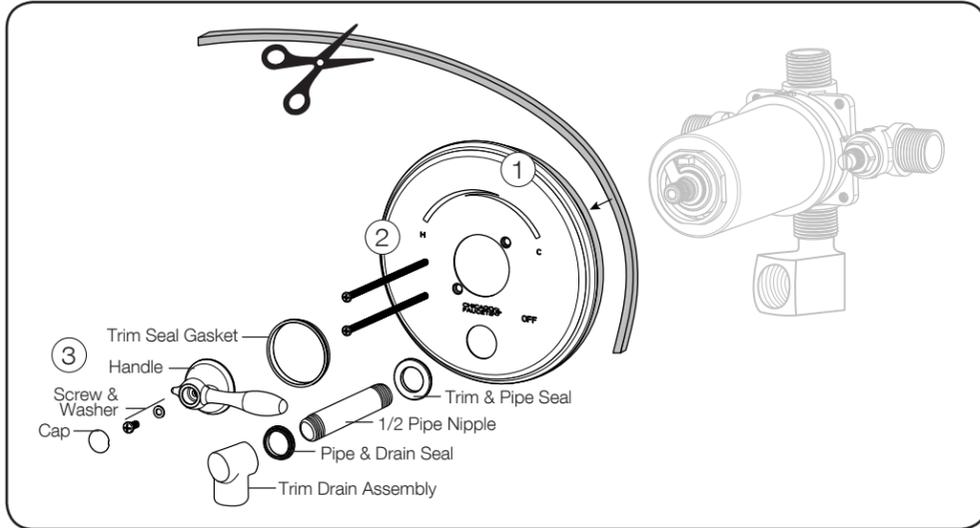


4. Make sure drain holes are lined up vertically and drain cap is tightly secure.



5. Push seal inside the drain back opening until it seats flush against the drain body.

Trim and Drain Installation



Follow "Setting Limit Stop" instructions below before proceeding.

1. Attach foam seal to back of trim plate along outer edge. Cut to size leaving 1/8" gap at the bottom of the plate.
2. Align face plate with mounting holes on valve and attach with screws.
3. Attach handle. Make sure it is positioned in "OFF" position.

DISCLAIMER

This product, when installed in accordance with the Installation Instructions, is designed to decrease the probability that it may be utilized as an apparatus for ligature. Chicago Faucets does not represent or warrant that this product is able to prevent death or injury, or resist all ligature attachment, and this product is not a substitute for the proper evaluation, treatment and supervision of persons at risk of suicide. Chicago Faucets makes no express or implied warranties regarding the ability of the product to prevent death or injury or resist all ligature attachment.

IMPORTANT! Setting Hot Limit Stop

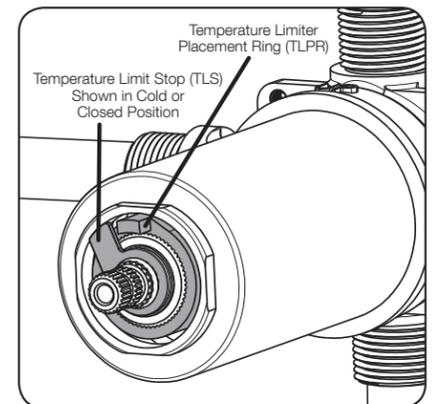
The removal of the warning label barrier on the face of this mixing valve constitutes the transfer of liability from the manufacturer to the installer under the laws of the United States. It is the installer's responsibility to set the maximum output temperature of the valve to no more than 120°F, in accordance with Standard ASSE 1016/ASME A112.1016/CSA B125.16 dealing with individual thermostatic, pressure balancing, and combination pressure balancing and thermostatic control valves for individual fixtures, temperature limit setting.

Setting Limit Stop

To properly set the limit ring, you must use a thermometer or calibrated sensing device to accurately measure the outlet water temperature. The adjustment ring is positioned as follows:

The valve has been factory set at 120° F. Important: Check each valve installation with a thermometer to make sure the maximum hot water temperature is set to the recommended setting per location/installation requirement. To lower the limit of the maximum hot water temperature the valve delivers, adjust the valve's temperature limit stop (TLS) plate.

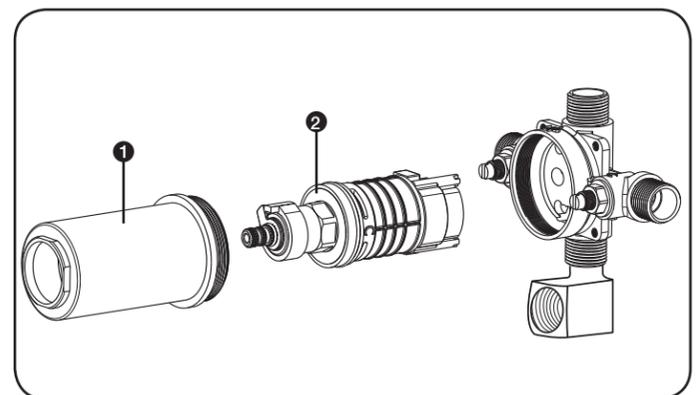
1. Slip the retaining O-ring and the TLS plate towards the end of the spindle and remove the Temperature Limiter Placement Ring.
2. With the water supplies on, rotate the Cartridge spindle counter-clockwise to the maximum desired hot water temperature.
3. Position the TLS plate and TLPR so it contacts the TLPR lug and therefore restricts the counter-clockwise rotation of the spindle.
4. Slip the retaining O-ring back into the groove of the Cartridge spindle to hold the TLS plate in place.
5. Rotate the spindle clockwise to the "OFF" position.



Back-to-Back Installation

To adapt your shower valve for back-to-back installation:

1. Use an adjustable wrench to remove the bonnet (1), and cartridge assembly (2).
2. Rotate valve cartridge 180° and reinstall into valve body taking care to properly align the mounting posts of the cartridge with the corresponding holes within the valve. The "H" marking on valve cartridge cover should now be on the right hand side.
3. Reinstall bonnet, making sure the large bonnet o-ring is in place within the valve body.



Care and Maintenance

All Chicago Faucets fittings are designed and engineered to meet or exceed industry performance standards. Care should be taken when cleaning this product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap with warm water for cleaning and protecting the surface of Chicago Faucets fittings.

For additional technical assistance, call 800/TEC-TRUE (800-832-8783) or visit our website at chicagofaucets.com.

CHICAGO FAUCETS LIMITED WARRANTY

TO WHOM DOES THIS WARRANTY APPLY? — The Company extends the following limited warranty to the original user only.

WHAT DOES THIS WARRANTY COVER AND HOW LONG DOES IT LAST?

This warranty covers the following Chicago Faucets branded Products:

LIFETIME WARRANTY — Any metal cast, forged, stamped or formed portion of the Product, not including electronic or moving parts or other products separately covered by this Limited Warranty or water restricting components or other components, is warranted against material manufacturing defects for the life of the Product.

FIVE YEAR WARRANTY — Certain Products or portions of the Product are warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase. Products warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase are referred to by the product series 90, 99, 150, 410, 420, 430, STB, STC, W4D, W4W, W8D, W8W, 1900, 1905, SH, 537, 548, 549, 640, 897, 2500, 8400, 9800 and E-Tronic™.

FIVE YEAR CARTRIDGE WARRANTY — The "Cartridge", defined as the metal portion of any Product typically referred to by the product numbers containing 1-099, 1-100, 217, 274, 313, 333, 335, 376, 377, 386, 408, 409, 617, 625, 628, 667, 670, 671, 672, 745, 776, 807, 824, 825, 826, 919, 937, 962, 966, 977, 1105, 2500, 3300 and 5235 excluding any rubber or plastic components, is warranted against material manufacturing defects for a period of five (5) years from the date of Product purchase.

ONE YEAR FINISH WARRANTY – COMMERCIAL — For Products used in commercial applications, the finish of the Product is warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

OTHER WARRANTIES — All other Products not covered above are warranted against material manufacturing defects for a period of one (1) year from the date of Product purchase.

Other restrictions and limitations apply. For complete warranty details, call Chicago Faucets Customer Service at 847-803-5000 or visit chicagofaucets.com.

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