

Thermostatic/Pressure Balance Valve With Ligature Resistant Trim

1920 Series Shower Valves

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

Prepare Valve

1. Apply thread seal tape to the lower outlet port. Install the included cap and wrench tighten (see Figure 1).
2. Unthread and remove the Integral Stops using a socket wrench equipped with a 9/16" deep well socket (see Figure 2). Remove valve cartridge. Use plastic guard as template to rough valve body into wall.

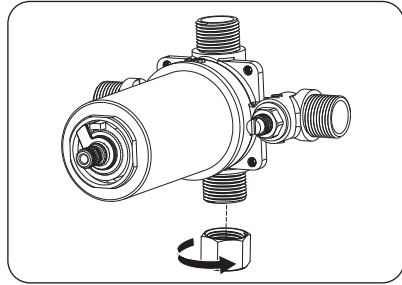


Figure 1

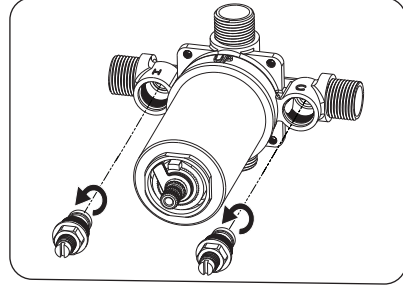
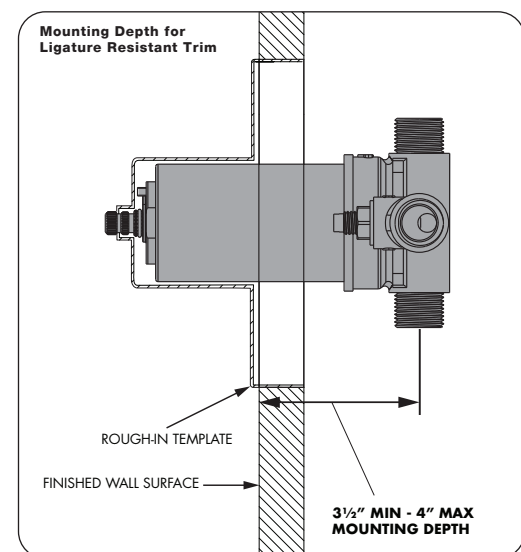


Figure 2

Rough-In Valve

1. Depth of rough-in should account for thickness of wall materials to be used (combined thickness of wall board and finished wall material).



IMPORTANT! Valve Rough-In Distance

The distance from the centerline of the inlet/outlet ports of the valve assembly to the finished wall **must be between 3-1/2" and 4"**.

2. 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.
3. Reinstall the integral stops using a socket wrench equipped with a 9/16" deep well socket or adjustable wrench. Reinstall valve cartridge.
4. Valve should be pressurized and tested for leaks at the connections.
5. Plastic guard should be left attached to the valve until finished wall material is installed.
6. After wall is finished, remove plastic guard and install trim.

Limit Stop Ring Replacement

Make sure the cartridge is in the "Off" position by turning the valve clockwise until it stops.

1. Before beginning, be sure to note the position of the limit stop plate (A). You'll need to reinstall it in the same position after replacing the ring.
2. Remove the o-ring and the hot water limiter stop plate.
3. Use a pair of pliers to pull up and remove the hot water limiter stop plastic ring (B).
4. Reinstall the metal (brass) ring. The tab extending from the ring should be at the 12:00 position.
5. Reinstall the limit stop plate and reinstall it in the same position as noted in step 2. Secure it with the o-ring (C). Reinstall the metal (brass) ring.

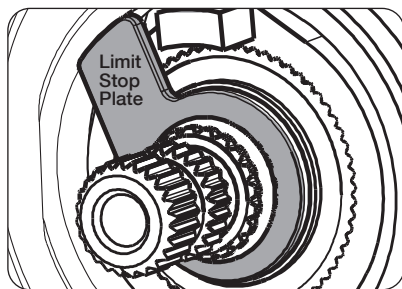


Figure A

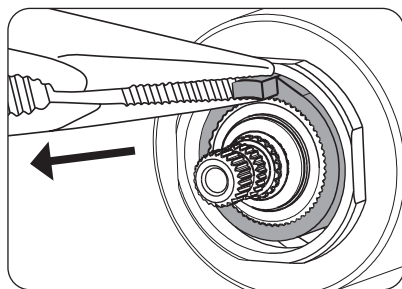


Figure B

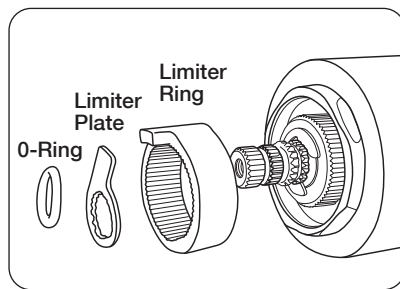
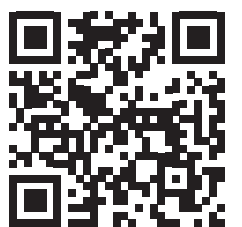


Figure C



Step-By-Step
Installation Video

Ligature Resistant Trim Installation

Ligature resistant trim should be installed with shower-only configuration without quick drain option. Shower head should be ligature resistant (product no. 621-CP).

Prepare and Attach the Mounting Plate

1. Attach foam seal to back of mounting plate along outer edge and cut to size, leaving a 1/8" gap at the bottom of the plate.
2. Align mounting plate with arrow positioned at top and centered (A). Attach to valve with screws at 2 locations. Make sure gaps are evenly spaced between the plate and valve (B). Install mounting plate **flush to the wall** leaving no gaps between wall and mounting plate (C).

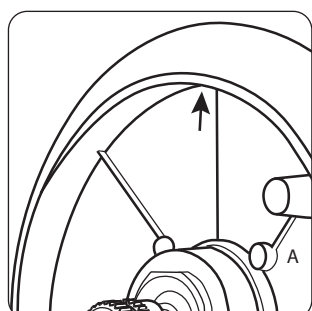
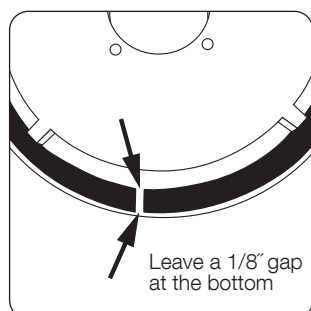
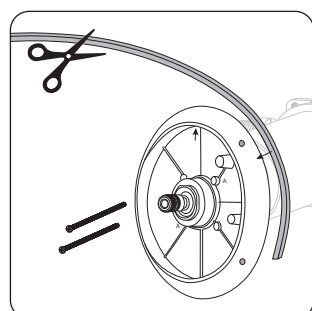


Figure A

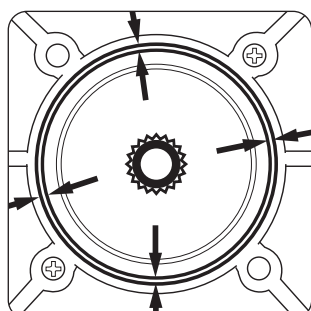


Figure B

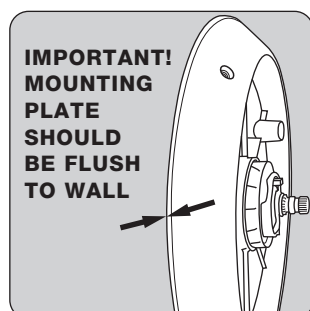


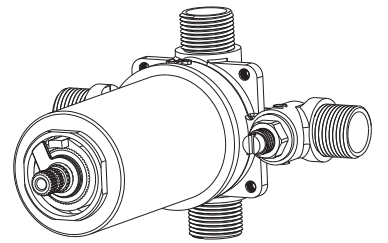
Figure C

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.

CHICAGO FAUCETS®

Valve

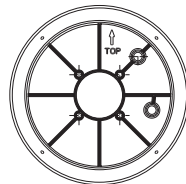


1920-VONF

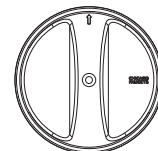
Ligature Resistant Trim

1920-050KCP

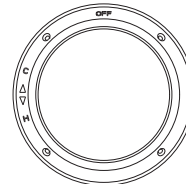
For shower-only installations with ligature resistant showerhead. Not recommended for shower with drain or hand shower installations.



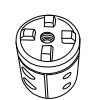
Mounting Plate



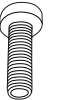
Handle



Trim Ring



Handle Collar
Adapter



Cartridge
Adapter

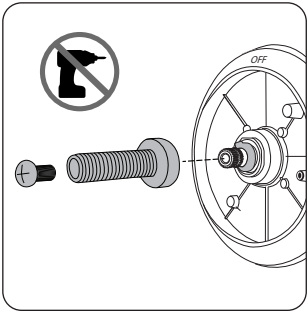
Ligature Resistant Trim Installation (Cont)

Step-By-Step
Installation Video



Install Cartridge Adapter

1. Make sure cartridge is in "OFF" position by rotating cartridge stem clockwise until it stops.
2. Place brass adapter onto cartridge stem (splined side toward stem) and secure with M5 screw—Phillips head with tread locking Nylon Patch. Do not use power tools.



IMPORTANT!

Make sure that all screws used to attach adapter, handle, and trim feature **a nylon patch on the threads**. This patch allows removal and replacement up to four times for handle adjustment. **No power tools should be used.** Additional screws are included if adjustment requires more than four removals.

Install Collar Adapter

Make sure the cartridge is in the "OFF" position by turning the valve clockwise until it stops.

1. **Hand tighten** collar adapter to stem of cartridge—do not use power tools. Make sure one of the four legs of the collar adapter is on top and centered at the 12:00 position (A).
2. Before securing adapter, check handle position within mounting plate. **Handle should be nearly flush** and no more than 1/32" above or below the rim (B). Handle should turn easily with one finger and not grind against edge.
3. Secure collar adapter into position by tightening the two set screws using a 4-40 x 5/16", 3/32 hex socket head. While tightening, securely hold the collar adapter in position. It is important to **alternate between each screw** (C).
4. Tighten until gap measures 1/32" (D). Screw heads and threaded body should be completely recessed inside cavity.

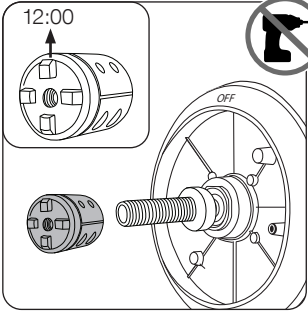


Figure A

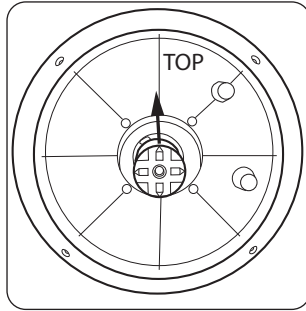


Figure B

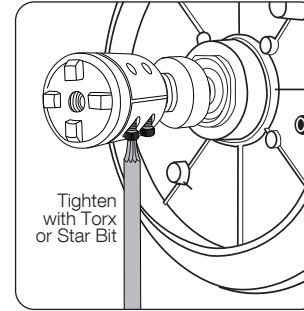
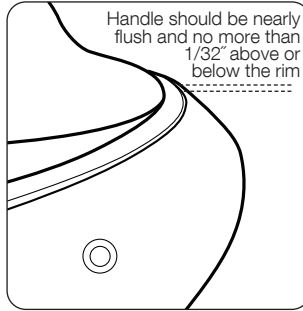


Figure C

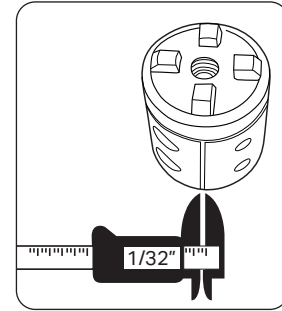
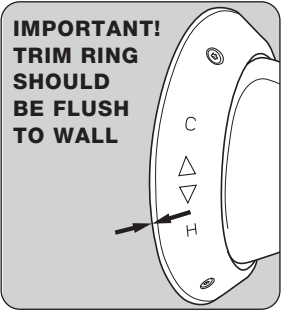
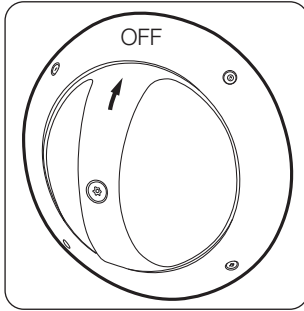
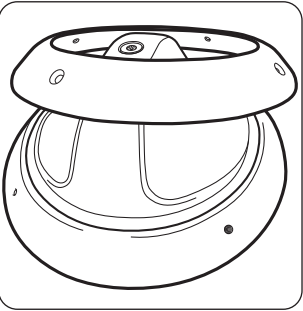
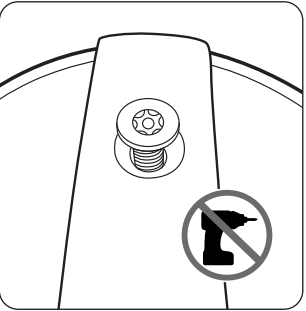
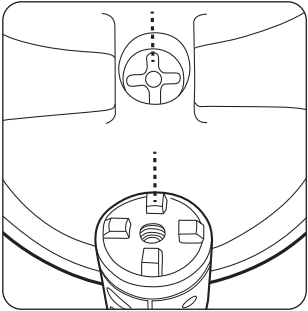


Figure D

Install Handle and Trim Ring

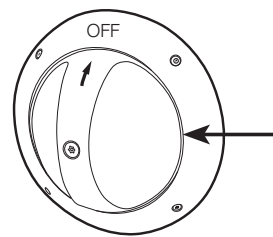
IMPORTANT!

1. Position handle over the collar adapter. With the valve in the off position, the handle should align straight up at the noon position and seated over the legs of the adapter.
2. **Before tightening the handle**, place trim ring on top of handle and mounting plate to verify that the handle rotates freely.
3. Secure the handle with the 1/4-20 x 3/4" screw with thread locking Nylon Patch using a T30 Torx bit.
4. Attach the trim ring with OFF at 12:00 position, with four 8/32 x 5/16" screws using a T15 Torx bit in alternating criss-cross pattern, leaving no gaps between wall and trim ring. Re-verify that handle rotates freely.



Test and Adjust

1. The handle should be nearly flush with the trim ring and extend no more than 1/32" above the ring.
2. The handle should turn easily with one finger.
3. The handle should not scrape loudly against the trim ring.
4. If handle requires adjustment, remove handle and trim ring. Adjust handle adapter accordingly.

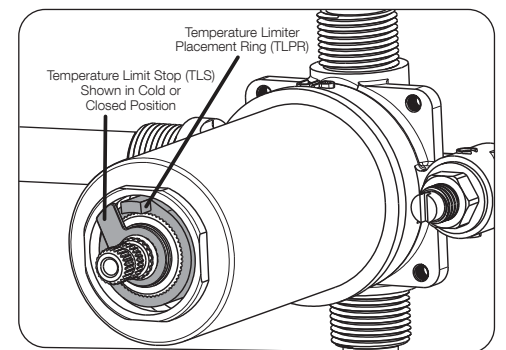


Handle should turn easily with one finger and not grind against edge.

Set the 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 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.



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.

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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