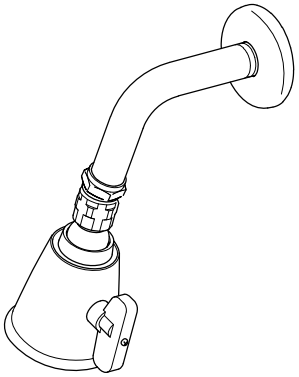
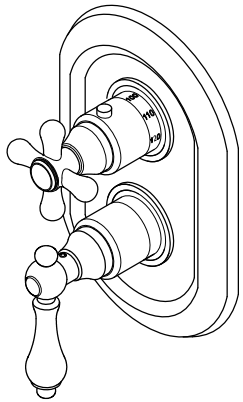
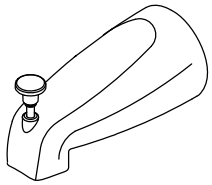
KINGSTON

Thermostatic Mixer Valve Tub & Shower Unit

Installation Instructions







www.kingstonbrass.com

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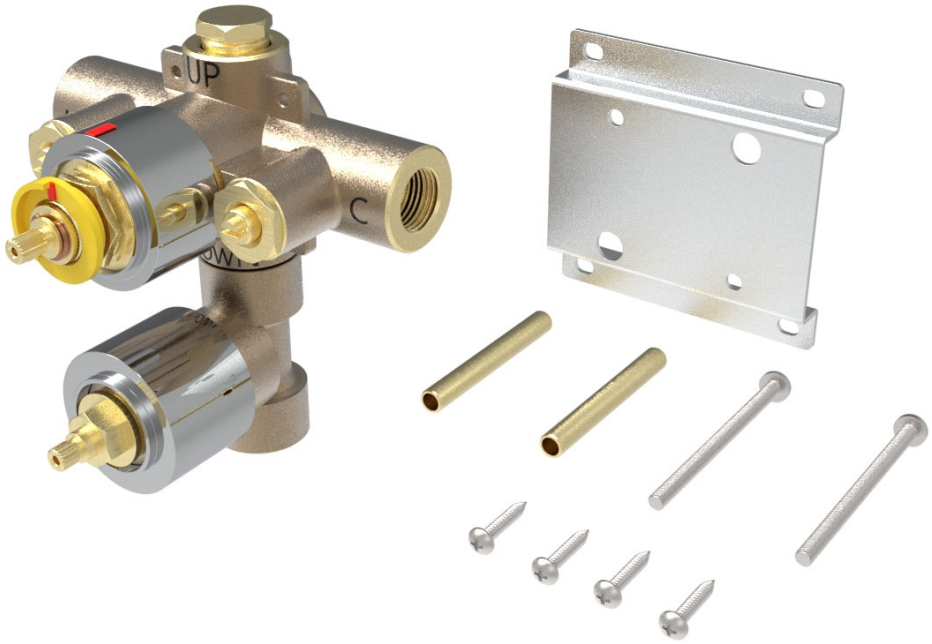
NOTICE

Failure to follow all directions may cause leaks which may result in water damage

⚠CAUTION

Failure to follow all installation directions may cause product to detach from the wall and cause serious injury

Thermostatic Mixer Valve and Mounting Bracket:



Before Installation :

- Flush all lines to avoid debris from getting into your shower valve as this may affect its proper functioning.
- Failure to flush lines properly will void warranty.
- Apply Teflon tape or pipe thread sealer on all threaded connections.
- Do not over-tighten any of the threaded connections as this may create structural damage and cause leaking.
- Do not use any power tools for assembly or installation of this shower valve as this may cause structural damage to the fixture.
- Shut off water supply to the shower valve.

Tools required for installation of this product are :

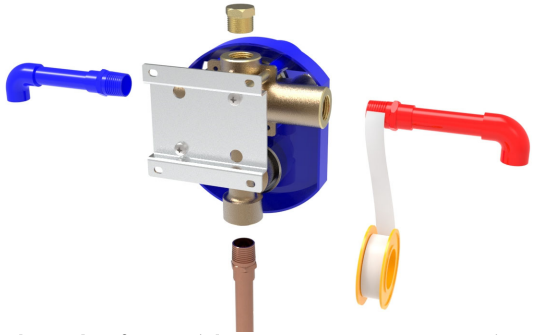
1. Screw Driver
2. Tubing Cutter
3. Teflon Tape
4. Adjustable Wrench
5. Channel-lock Pliers
6. Measuring Tape

Installation Step:

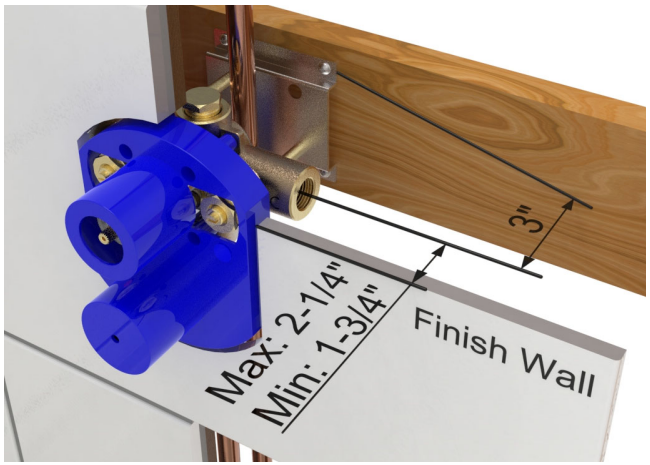
1. Flip the valve to the back side, pass screws through the sleeve, then secure the mounting bracket onto the valve. Use a screwdriver to tighten the screws.



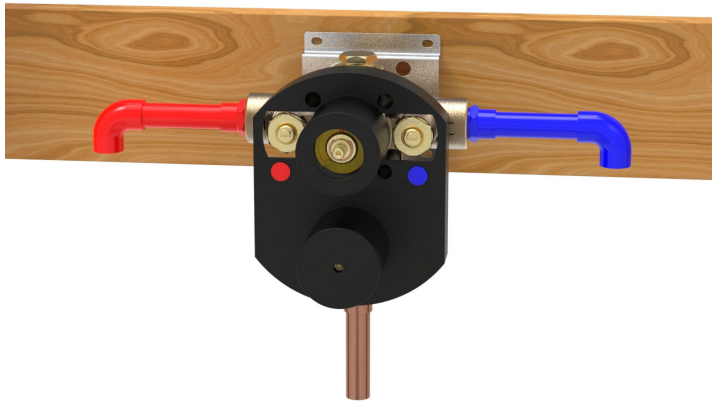
2. Apply Teflon tape or pipe thread sealer on all threaded connections.



3. Flip the valve back to the front side. Install your supply pipes so that the rough-in valve is placed at 1-3/4" to 2-1/4" from the centerline of the inlets to the surface of the finished wall, the plastic plate pre-installed on your valve may also be used as a guide.



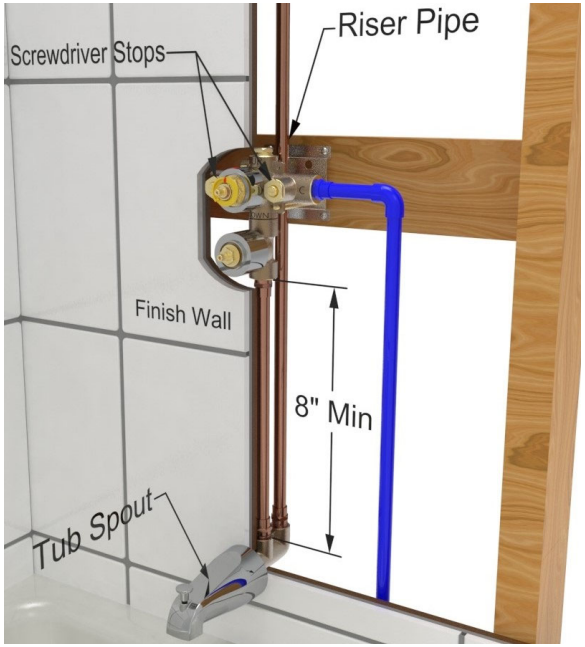
4. Attach the valve making sure to follow the up and down markings on the back of the valve, connect the hot and cold water lines to their respective inlets, do not overtighten as this may cause structural damage to the valve and create a potential leak.

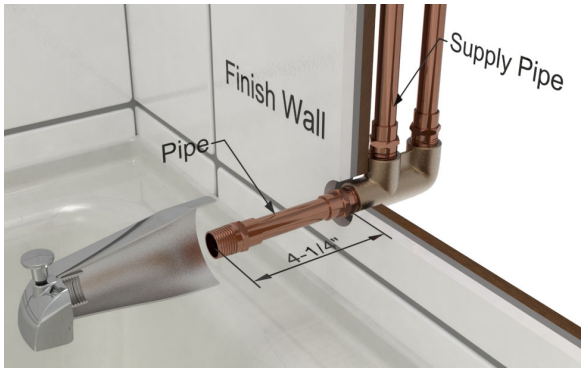


5. Remove the plastic plate, then secure the valve onto the mounting bracket using the provided wood screws. Finally, secure the bracket to the wall.

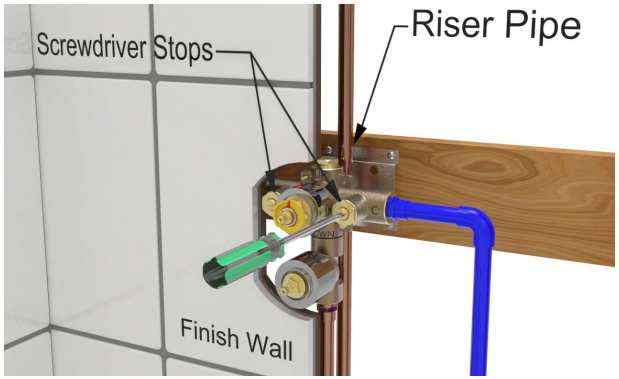


6. Plug top outlet on shower valve, from bottom outlet plumb the tub outlet riser, making sure to allow a minimum of 8" between the outlet and the location of the spout, do not use pex piping between the shower valve and the tub spout as this will restrict the flow of water and create back pressure which may cause water to drip from the showerhead as well, install "twin ell" fitting at the end of the tub riser, (Figure 2) plumb shower riser from rear outlet of "twin ell" to the desired height, attach 1/2" drop ear elbow, at the location of the tub spout stub-out with a 1/2" male fitting thread protruding 4-1/4" from the finished wall, do not overtighten any connection as this may cause structural damage to the valve and create a potential leak.

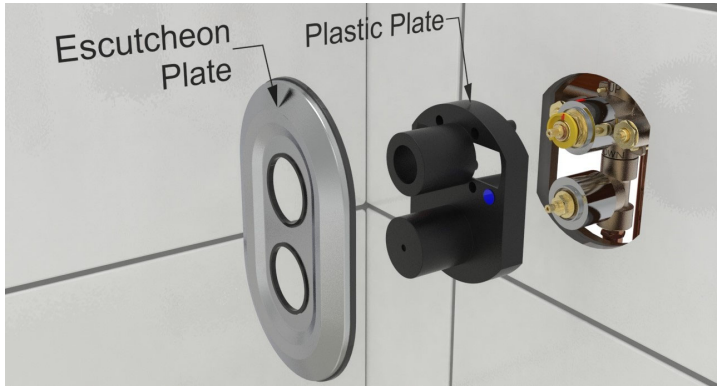




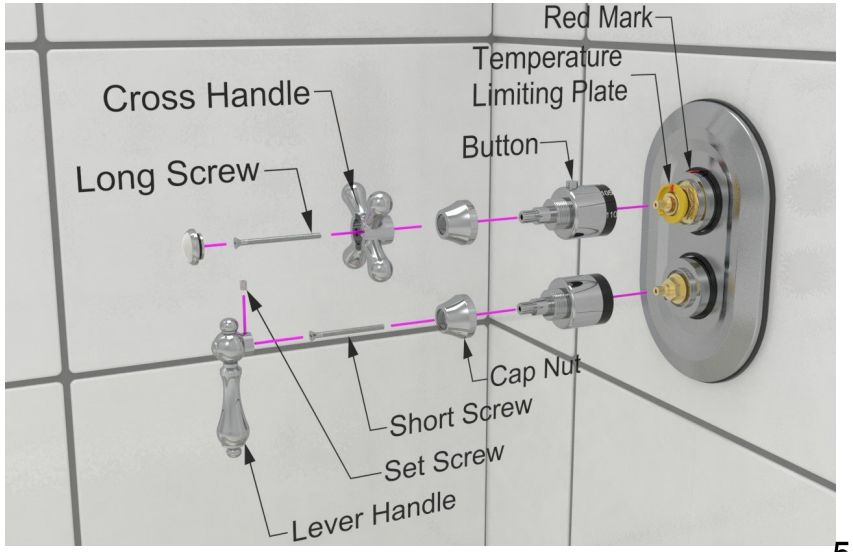
7. Ensure to close both screwdriver stops located on either side of the valve, open the water supply to the shower valve and check for leaks at all connection points; make sure that the shower valve is shut off and open both screwdriver stops.



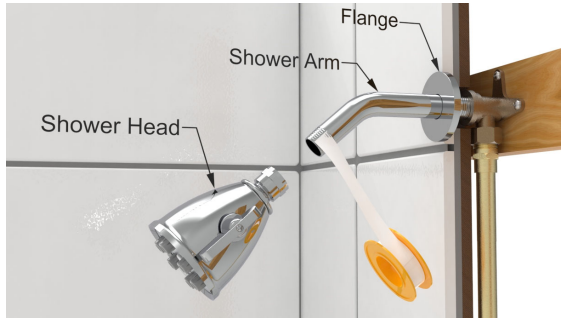
8. If the valve is being installed on an acrylic enclosure, you can just snap off the plastic domes covering the temperature and volume control valves. Attach the escutcheon seal to the back of the escutcheon and insert the shower escutcheon fully.



9. Insert the temperature handle hub on the temperature control valve (top), align the button with a mark on the valve and insert fully; your valve is set up to stop at 100°, you can easily adjust your temperature lower or higher by pulling the handle hub and gently pulling in the temperature limiting plate and either moving clockwise (lower) or counterclockwise (higher) and re-inserting the plate confirm the temperature by using a thermometer and adjust accordingly. While the valve is in operation, you can also override the maximum temperature by pressing the button on to.
10. Insert volume control handle hub (bottom and attach cross handle on the temperature control valve.
11. Insert cross handle and secure with the provided long screw, insert indicator button, insert and secure lever handle with the provided short screw and/ or set screw.



12. Apply Teflon to the tub spout stub-out, and after applying a bead of silicone-based caulking to the back of the spout, thread tub spout onto the stub-out, clean excess caulking, thread shower arm, and flange on the showerhead stub-out.
13. Open volume control valve, pull in diverter button on tub spout and let the water run out of the shower arm for at least one minute; this will flush any debris on the line.
14. Apply Teflon tape to the shower arm and thread on the showerhead.



Setting The Maximum Temperature:

1. Turn on the water and check for leaks.
2. Place a thermometer at the spout outlet. Check if the outlet water temperature is 100°F.
3. If not, Remove handle and setting ring.
4. Place handle base setting the water temperature is 100°F.
5. Place the setting ring back to the mark toward 12 o'clock.
6. Place the handle back as the button is at 12 o'clock position. Close the handle.



CAUTION:

1. Water lines must be completely flushed before use, to avoid debris & clogs in your water system leading to reduction of water flow and mal-functioning.
2. Warranty is void if water lines are not flushed prior to use and installation of the new faucet.
3. Use of abrasives of any strength may damage the finish of the faucet and void the product warranty.
4. Do not over tighten your faucet on the countertop during installation. The valve assembly is tested to meet the standards set by ASME A112.18.1 sec 5.8 which is listed at 100 LBF.
   However, over-tightened or over-torqued nuts may lead to cracks on the valve and will eventually lead to leaking and water damage.
5. Before installation of the faucet to the desired fixture, you need to secure and anchor your console, sink, tub, or vanity cabinet firmly to the wall and to the floor. To ensure your fixture or faucet mounting surface cannot be moved, before installation of the faucet, please test to see if the cabinet or vanity can be moved by hand or body weight. If the faucet mounting fixture is not secure and anchored, it will eventually crack the valve and cause leaking leading to property damage. In order to avoid this, be sure to secure your installation surface. Do not use any Power tools for assembly and installation which can cause internal fractures to the fixture.
6. The valve and accessories installer must the be the professional plumber who is experience at the same category products.
7. This valve has been calibrated in the production process as follow condition:
   Hot & Cold water pressure: 45±1 psi
   Hot water temperature: 120°F
   Cold water temperature: 59°F
8. The installer must check the mixed flow temperature after installation.
9. The installer can adjust this valve according to the instruction.
10. Maintenance is very important for this thermostatic valve for its normal performance. Therefore, we design an easy-cleaning cartridge installation method for this purpose. We should follow the instruction steps from step 3 to step 6 to achieve the perfect maintenance purpose.
11. We recommend that we make the routine maintenance on this valve for cleaning up the filter and temperature calibration. Or we should find the proper plumber for maintenance when feel works abnormal.

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