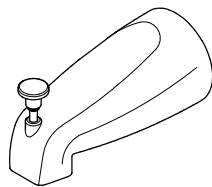
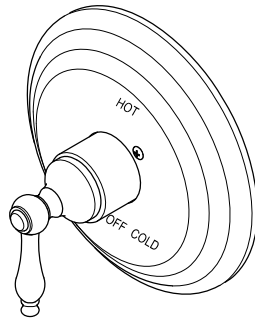
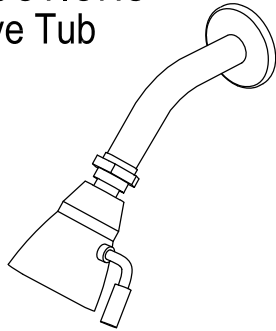


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KITCHEN & BATH

INSTALLATION INSTRUCTIONS

Pressure Balancing Valve Tub & Shower Unit



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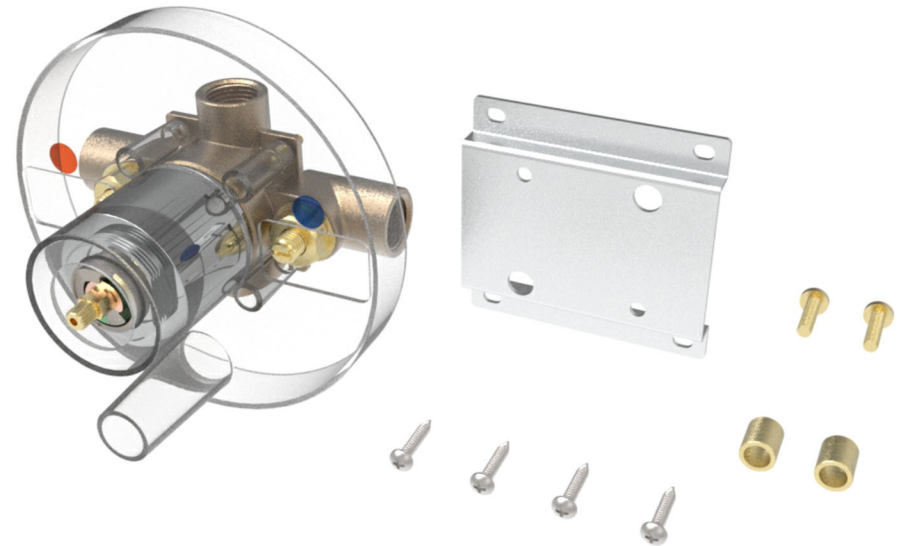
NOTICE

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

Pressure Balancing 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.

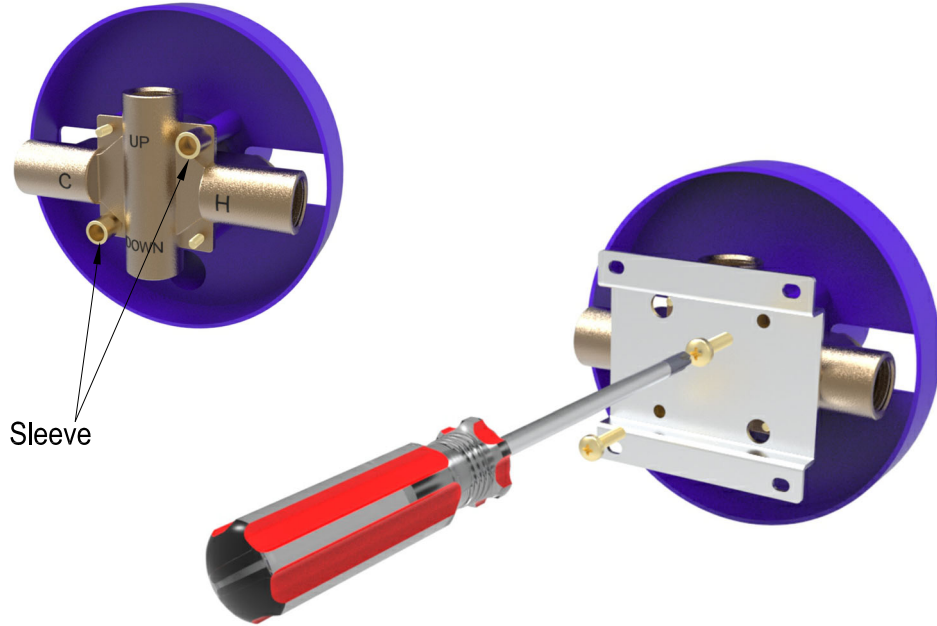
Shut off water supply to the shower valve

Tools required for installation of this product are :

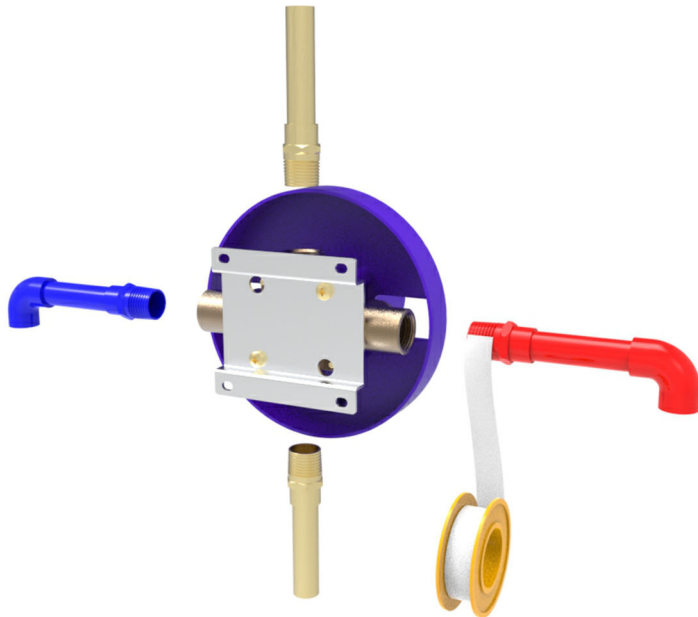
- | | | |
|----------------------|------------------------|-------------------|
| 1. Screw Driver | 2. Tubing Cutter | 3. Teflon Tape |
| 4. Adjustable Wrench | 5. Channel-lock Pliers | 6. Measuring Tape |

Installation Step:

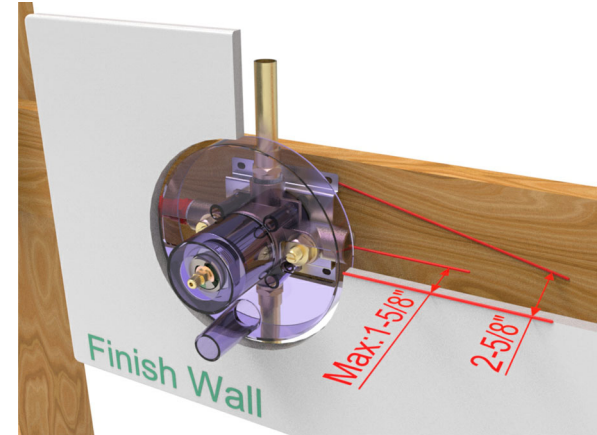
1. Flip the valve to the back side, pass screws through the sleeve, then secure the mounting bracket onto the valve. Use a screwdriver to tighten the screws.



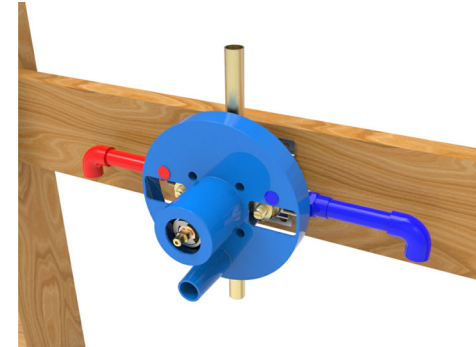
2. Apply Teflon tape or pipe thread sealer on all threaded connections.



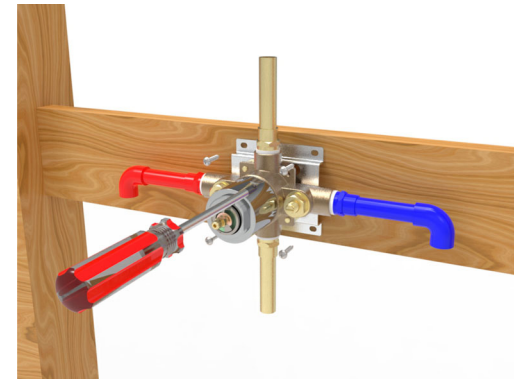
3. Flip the valve back to the front side. Install your supply pipes so that the rough-in valve is placed 1-5/8" from the centerline of the inlets to the surface of the finished wall, the plastic plate pre-installed on your valve may also be used as a guide.



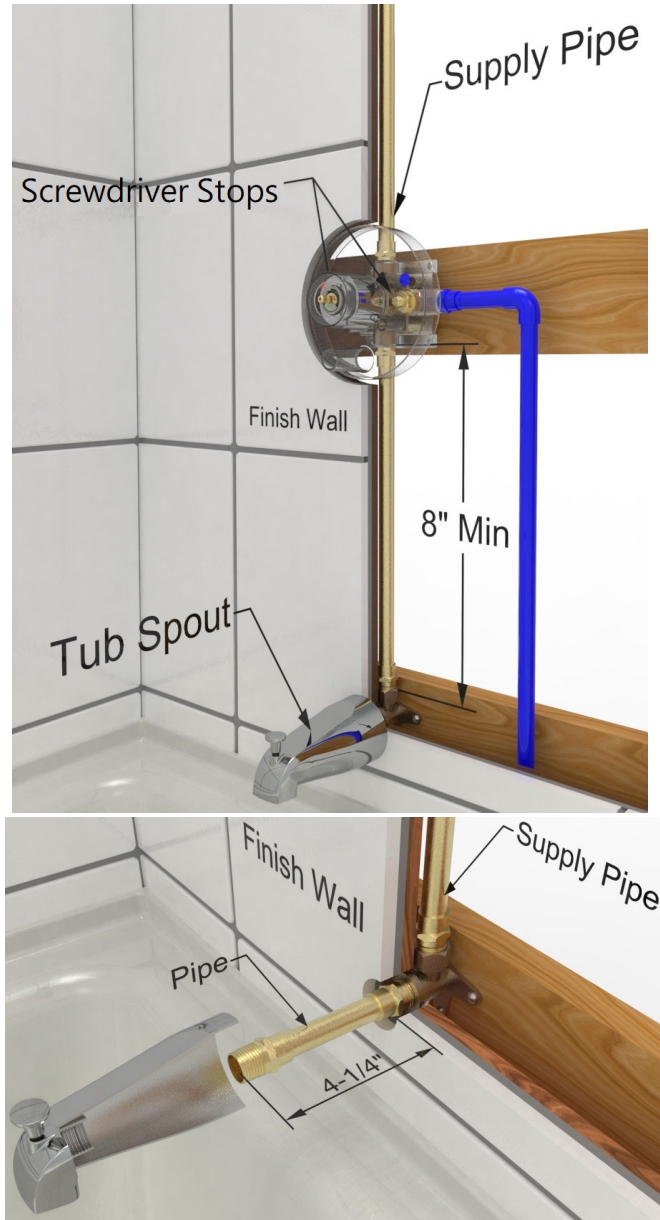
4. Attach the valve making sure to follow the up and down markings on the back of the valve, connect the hot and cold water lines to their respective inlets, do not overtighten as this may cause structural damage to the valve and create a potential leak.



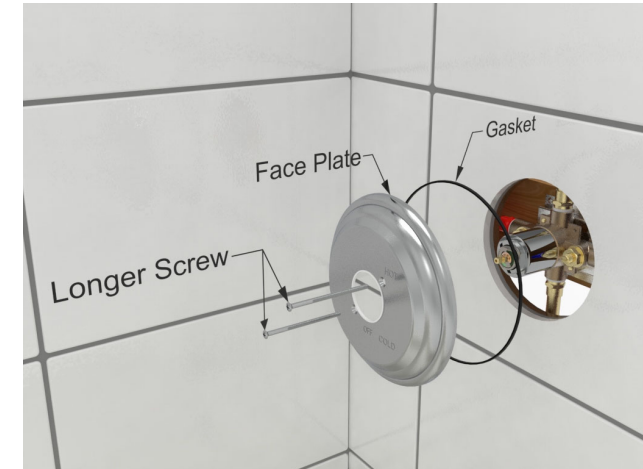
5. Remove the plastic plate, then secure the valve onto the mounting bracket using the provided wood screws. Finally, secure the bracket to the wall.



6. Plumb the showerhead riser and finish with a 1/2" female fitting, plumb the tub outlet to its desired location, making sure to allow a minimum of 8" from the bottom outlet to the tub spout elbow, stub-out with a 1/2" male fitting thread protruding 4-1/4" from the finish wall, do not use pex piping between the shower valve and the tub spout as this will restrict the flow of water as this will create back pressure and cause water to drip from the showerhead as well, do not overtighten as this may cause structural damage to the valve and create a potential leak.



7. Make sure 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. Mount the enclosed gasket along the perimeter of the faceplate, and attach faceplate to the rough-in valve.
9. Attach the handle by securing with the enclosed Phillips head screw, and cover the screw by inserting the indicator button.



10. Insert shower arm flange onto shower arm, apply Teflon tape to both ends of the shower arm and thread shower arm to the 1/2" female fitting previously installed.
11. Apply Teflon tape on tub spout stub-out, after applying a thin bead of silicone caulking around the perimeter of the back of the tub spout, thread tub spout on to the stub-out, and clean excess caulking
12. Fully open valve and allow water to run for at least one minute, this will help clear any debris in the line, thread showerhead onto the shower arm.



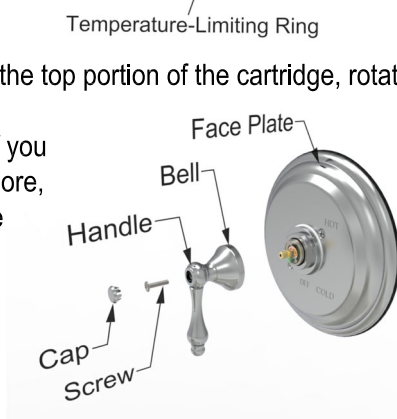
Adjusting temperature limiting feature:

Your valve is designed with a temperature limiting feature, which allows you to limit the range of motion of the lever, thereby preventing accidental scalding by children or seniors.



Remove Handle:

Using channel lock pliers pull the outer ring on the top portion of the cartridge, rotate a few degrees clockwise and reinsert, test by inserting the handle and turning on the valve, if you would like to lower the top temperature even more, perform the same technique again until you are satisfied, replace handle.

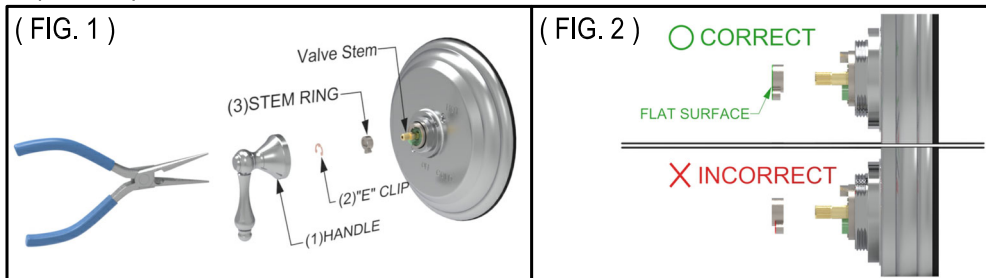


Back to Back installation instructions:

Your shower valve is equipped with a reversible cartridge, suitable for back to back installation, a reversible cartridge will allow you to modify the direction of the water supply to the correct orientation without changing the pipe locations, as in the case of back to back bathrooms.

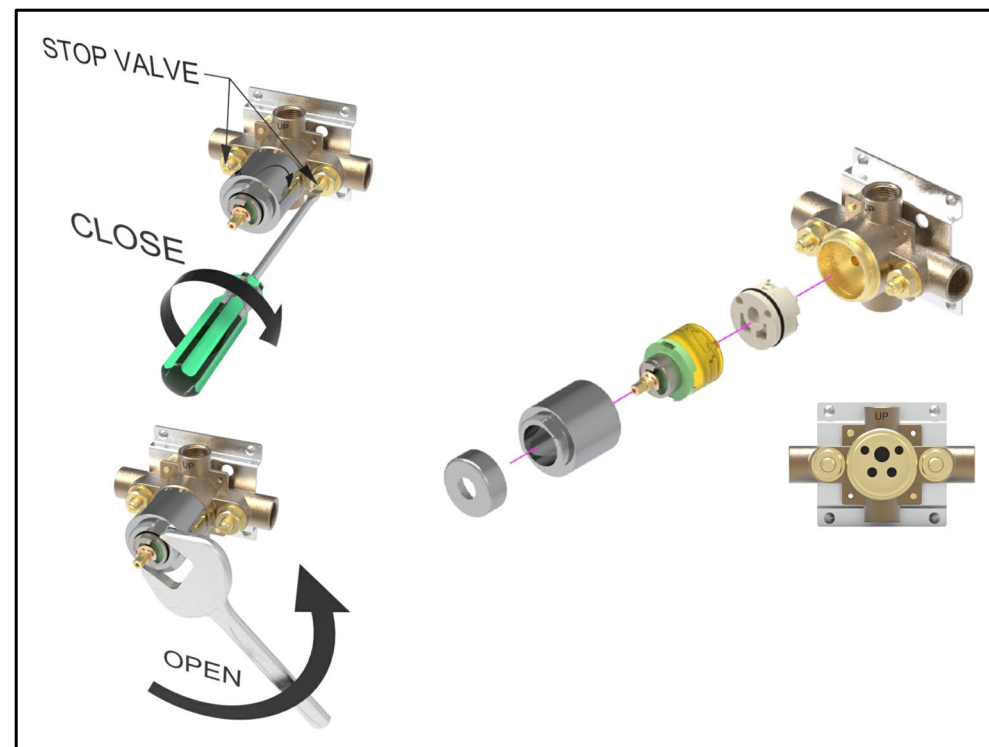
1. Remove the handle and cap (1).
2. Carefully remove the "E" clip from the body with pliers.
3. Remove the stem ring from the cartridge body with pliers.
4. Turn valve stem a full 180°.
5. Replace the stem ring, make sure that flat side is on top.
6. Replace "E" clip.

Replace cap and handle.



Procedure for Pressure Balance and Cartridge replacement and maintenance:

1. Remove handle and face plate.
2. Close the stop valves, located on either side of the valve.
3. Remove cap and bonnet nut using a crescent wrench.
4. Pull cartridge by hand.
5. Using needle nose pliers pull spool assembly.
6. The spool is a cylindrical piece located horizontally inside the spool assembly, this spool is designed to move freely.
7. Place the spool in the same position as if it was installed in the valve and shake in a horizontal motion, if the spool does not rattle, your spool might be stuck.
8. Soak it for at least 4 hours in a 50/50 solution of water and vinegar.
9. Take it out and rinse, perform the same test, if the spool is still not rattling change the spool.
10. Reinstall the spool and valve assembly making sure to line up the 2 nubs in the back of the spool assembly with the indentations inside the valve body.
11. Replace cartridge and cap.
12. Fully open the stop valves, replace the faceplate and handle.

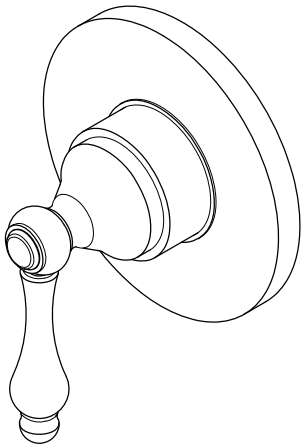
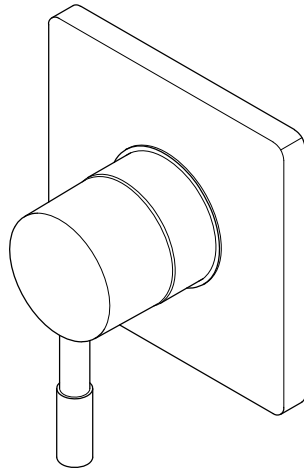


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INSTALLATION INSTRUCTIONS

Three-Way Diverter Valve with Trim Kit



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NOTICE

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CAUTION

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cause serious injury

Before Installation :

- Please flush all lines prior to installation of this valve
- This valve is designed as a way to direct water to one of three different functions, (e.g., showerhead, Hand shower, body sprays, tub spout, etc.)
- A mixer valve is required to be used in conjunction with this valve, the mixer valve can be a conventional shower valve, Pressure balanced valve or thermostatic)
- Your mixer valve can serve as a shut-off valve or volume control valve, or as an option you may add an independent volume control valve.
- If you are going to be using a tub spout as part of your shower layout, plug the bottom outlet of your mixer valve and plumb the tub spout to one of the outlets on the 3 way diverter.
- If you are going to plumb only 2 functions out of the 3 way diverter, it is recommended that the outlet that is not in use be plumbed into the line of one of the other functions. (see Fig. 2)

Fig. 1

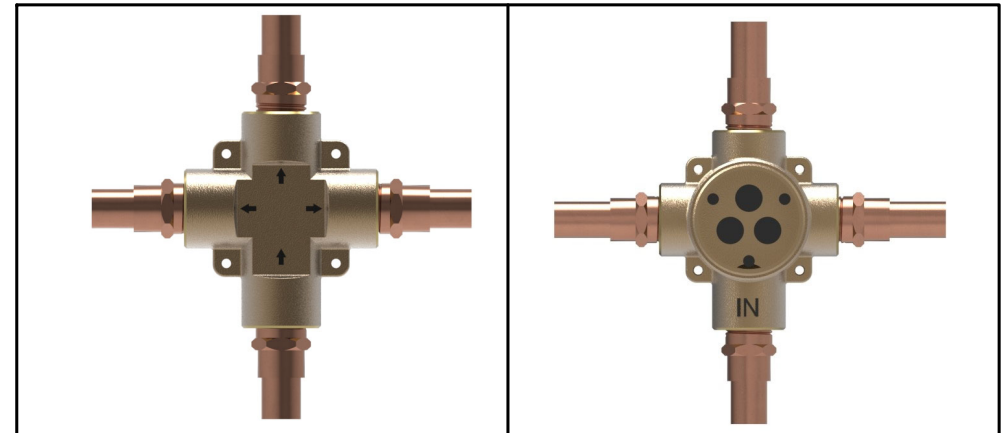
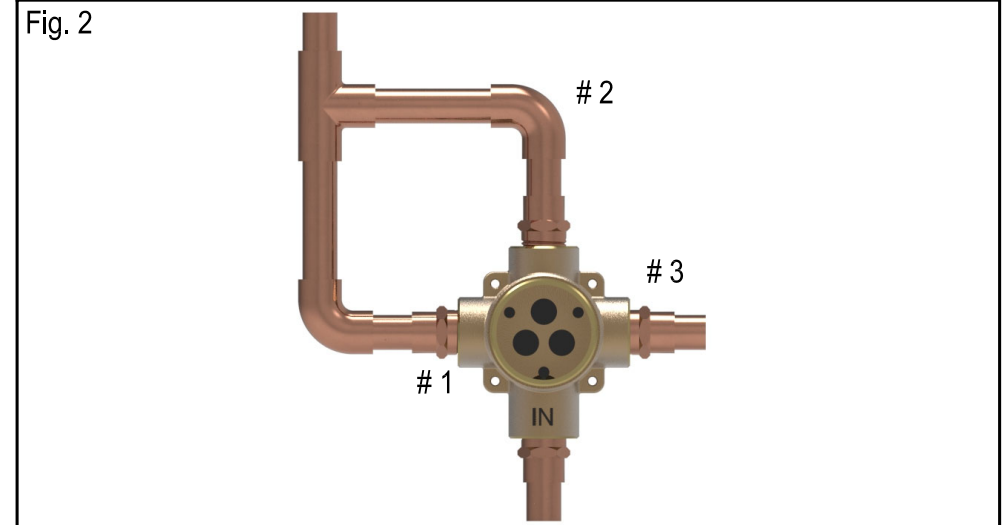
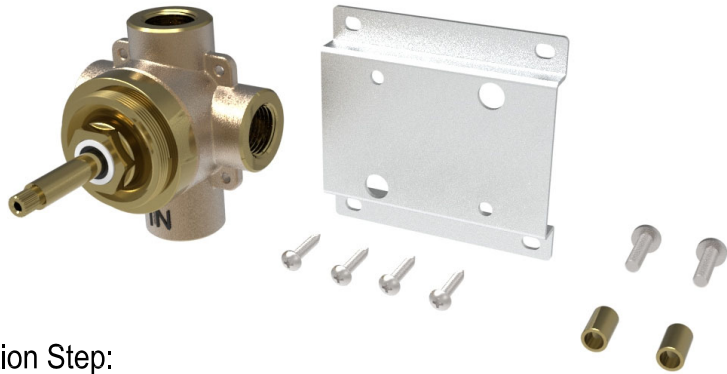


Fig. 2

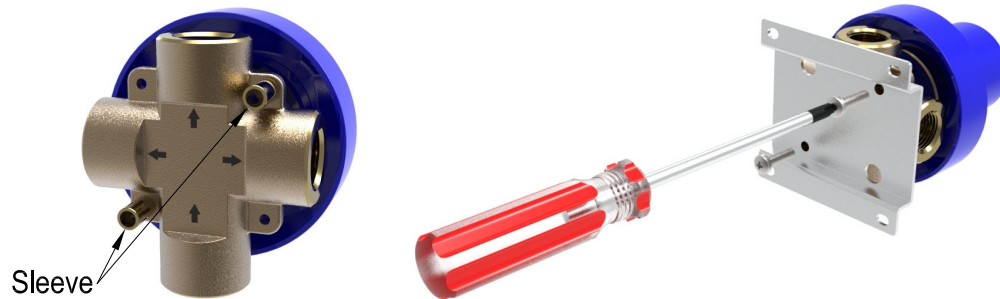


Pressure Balancing Valve and Mounting Bracket:



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.

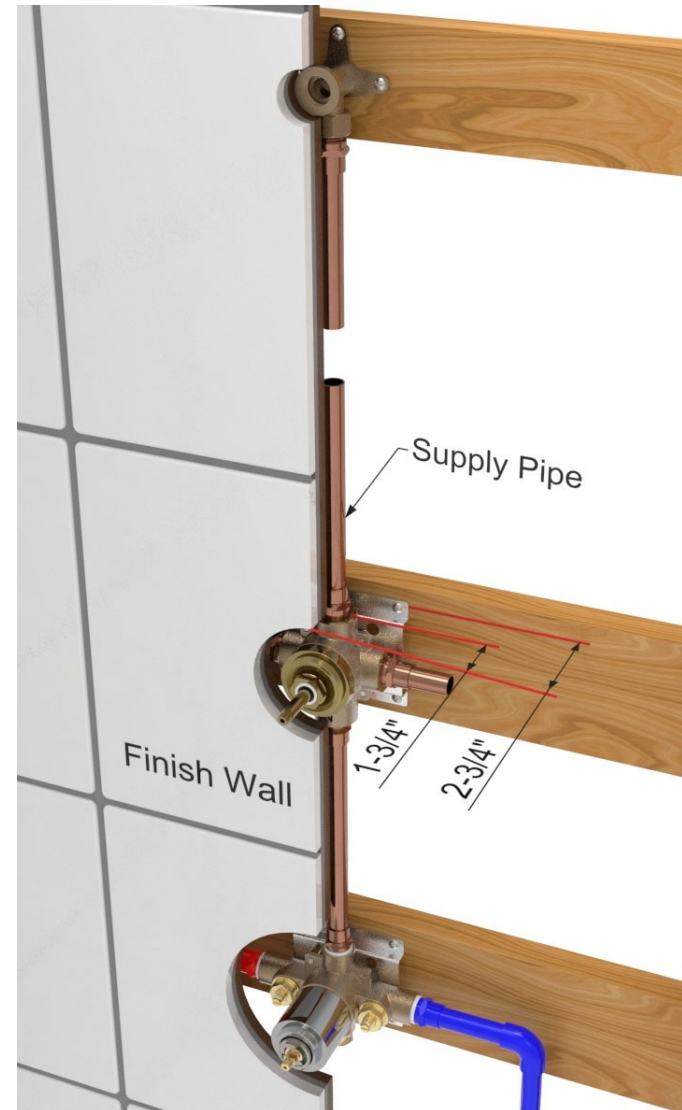


2. Apply Teflon tape or pipe thread sealer on all threaded connections.

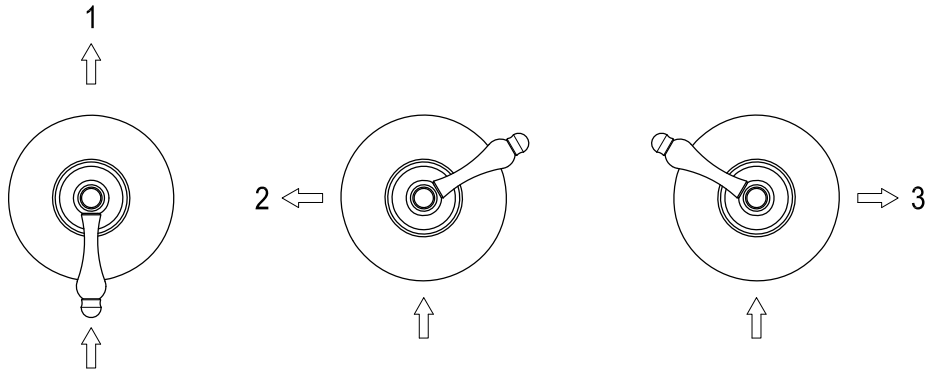


3. Flip the valve back to the front side. Using the plastic plaster guard as a guide install the diverter valve so that the plaster guard will be flush with the finished wall or 1-3/4" from the centerline of the valve, locate the diverter valve at a convenient location above the mixer valve, make sure to identify the inlet by the arrow pointing towards the center of the diverter valve.
4. Connect the incoming line from the mixer valve to the inlet of the diverter, and plumb each outlet to its designated fixture.
5. Once the wall is finished, remove plaster guard and install the trim pieces by inserting the face plate on the valve and attaching handle.

Fig. 3



To divert the flow of water to any 1 of 3 different functions, point handle to that specific outlet, located at the 6, 2 and 10 o'clock positions.



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INSTALLATION INSTRUCTIONS

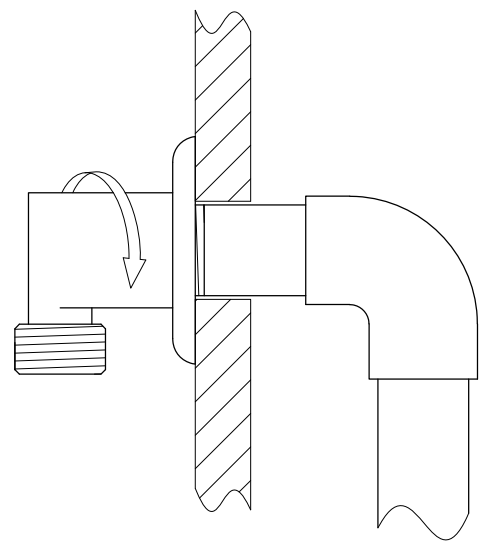
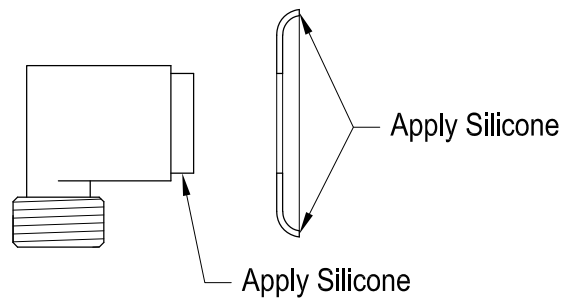
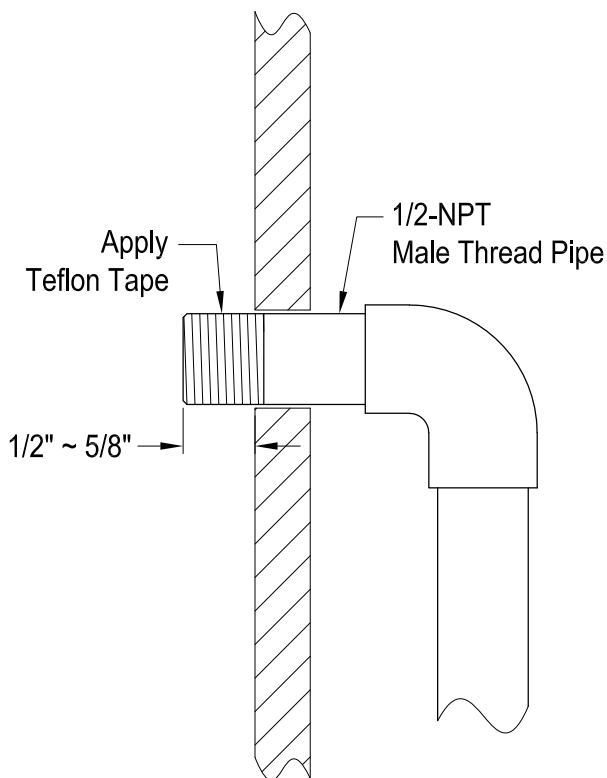
Shower Supply Elbow

Instructions:

1. At the desired location, drill a hole $\text{Ø}7/8"$ on the wall.
2. Install 1/2-NPT male thread pipe protruding from the wall 1/2" to 5/8".
3. Apply Teflon tape onto the threads.
4. Apply silicone around the neck of shower supply elbow and the back of flange.
5. Insert flange and thread the shower supply elbow onto the 1/2-NPT male thread pipe.

Do Not Over Tighten The Thread Connection.

6. Wipe off excess silicone around the flange.



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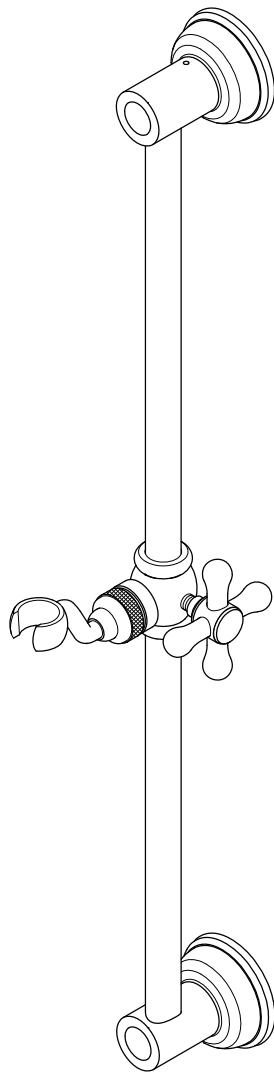
CAUTION

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cause serious injury

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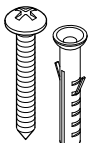
KITCHEN & BATH

Adjustable Slide Bar Installation



Parts:

Mounting Screw
&
Anchor



2 Pcs

CAUTION

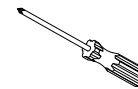
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Need Tools:



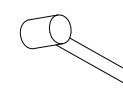
Marking Pencil



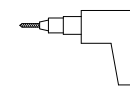
Phillips Screwdriver



Allen Wrench



Hammer



Power Drill

Legal Disclaimer :

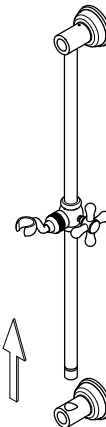
This bar is not to be used as a grab bar and it is not intended to support weight.

Before you begin, identify the appropriate area to install this slide bar, proper location should be above 48" from the floor (as per ASTM F446).

It is recommended that slide bar to be mounted directly to the structural framing of your home. If necessary, cross bracing can be installed to provide adequate support.

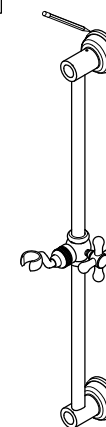
Installation:

1



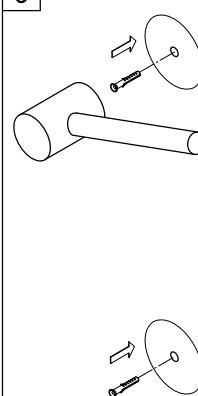
1. Assemble slide bar and position at the desired location.

2



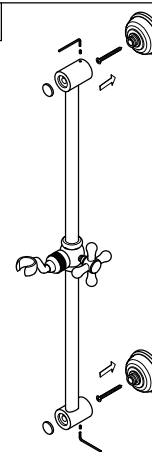
2. Mark the position of the mounting screw by inserting a pencil through the center of the end post.

3



3. Remove slide bar and drill a small hole, insert plastic anchor until it is flushed with the surface of the wall.

4



4. Attach both upper and lower bases by inserting the enclosed screws through the brass fitting preinstalled on the escutcheon, insert the slide bar posts onto the brass fitting, and secure by threading the set screw, press cover button in place.