



ENGINEERING EXCELLENCE

Installation Guide

Single Handle Tub & Shower Valve Set:

- 4010B
- 4011B

This product meets the following standards:

- ASME A112.18.1
- ANSI A117.1
- CUPC / IAPMO LISTED

Thank you for purchasing this Pioneer quality product.

Tools Required



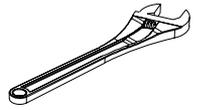
Propane Torch



Lead-Free Solder



PEX Crimp Tool



Adjustable-Wrench



Sealant Tape



Hacksaw & Pipe Cutter



Straight & Phillips Screw-drivers

Prior to Installation

- Observe all local plumbing and building codes before you begin installation.
- Carefully shut off both hot and cold main water supplies.
- Pioneer reserves the right to make changes in the design of faucets without notice as specified in the pricebook.

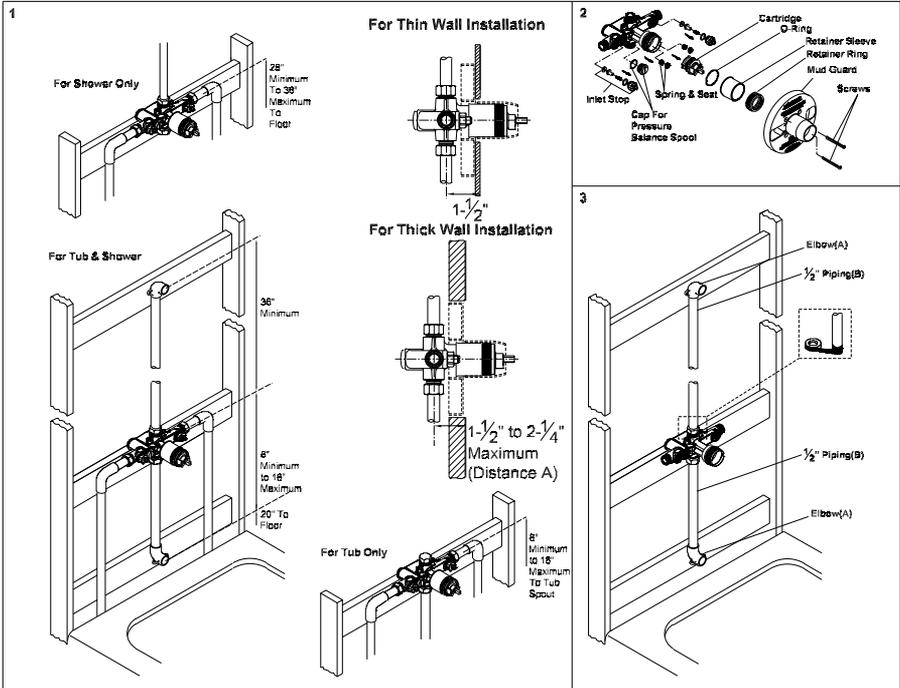
Caution: (1). These products may cause personal injury due to scalding if the temperature is set too high. We recommend that temperature is set below 120 ° F (49 ° C). (2) Anti scald device or pressure balance spool is not installed in the valve. The spool is included in the trim pack. The valve won't work properly without the pressure balance spool being installed in the valve.

Valve Installation

1. Establish the location of the valve. Install the required support framing. To determine the correct mounting distance required for the various trim options to fit properly, refer to table A.
2. The distance specified in table A is measured from the valve outlet/inlet centerline to the finished wall surface. Note: Trim may not appear as designed if installed without following this procedure.
3. Remove the components before soldering
4. Locate the Valve and install 1/2" Piping (B) and Elbows (A) to bath and shower outlets. Do not use more than one Elbow (A) on the spout outlet. Ensure the 'up' marking on the valve face toward the ceiling. If this installation is for bath or shower only, cap shower or bath port accordingly. Do not forget to put the washer underneath of the cap. Apply sealant or Teflon tape to threaded connections. Use 1/2" diam. NPT threaded adapters or 1/2" diam. copper to copper solder Connections directly to the outlets.

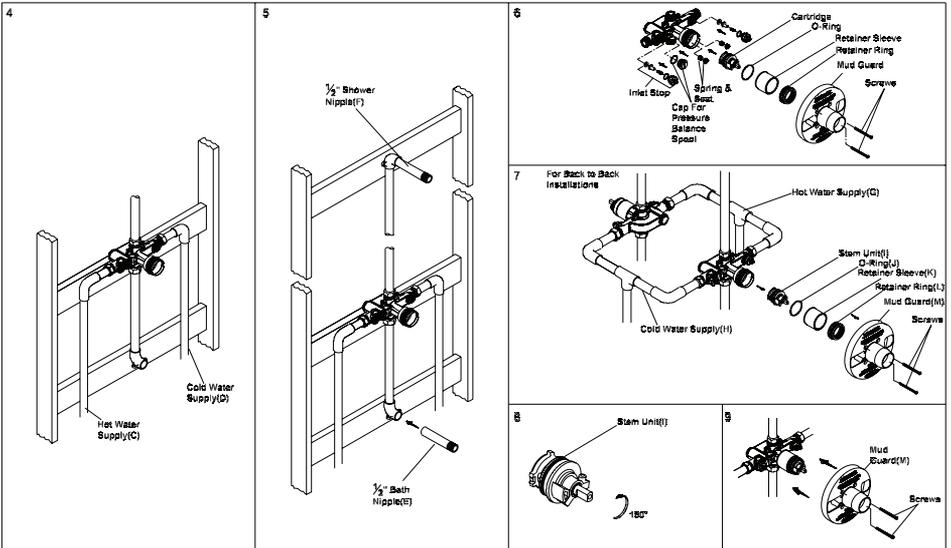
Caution: Do not use PEX or CPVC between the valve and tub spout.

Series	Table A	Series	Table A
4LG100T~400T	2-1/2"	4CB100T~400T	1-3/4"
4DM100T~400T	2-1/2"	4PR100T~400T	2-1/8"



Valve Installation

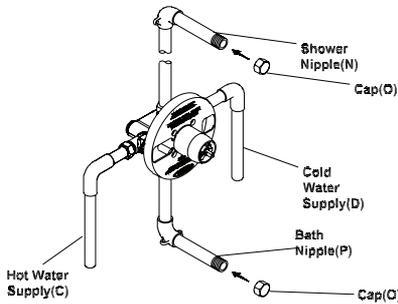
4. Install cold and hot water supplies (C&D) using 1/2" cast iron, copper to copper, CPVC or PEX connections.
5. Connect appropriate size of 1/2" pipe nipples (E&F) to bath and shower outlets.
6. Replace the components. While replacing the inlet stop do not tighten more than 5lbs/inch². Overtightening may cause damage to the inlet stop.
7. For back to back installation - Remove the mud guard (M), retainer ring (L), retainer sleeve (K), O-ring (J) and stem unit (I).
8. Rotate the stem unit (I) 180° (clockwise or counterclockwise).
9. Reinstall the stem unit (I), O-ring (J), retainer sleeve (K), retainer ring (L) and mud guard (M).



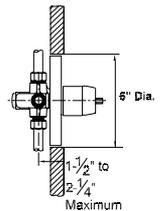
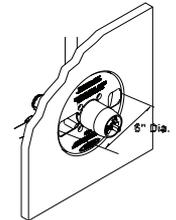
Valve Installation

10. For all installations, install caps (O) on the bath and shower nipples (N). Turn on the hot and cold water supplies and check for any leaks.
11. Remove the caps (O) from bath and shower nipples (N & P) and remove the mud guard (M) from valve.
12. Turn the valve counterclockwise to the open position. Block the tub nipple (P) to flush debris out of the shower nipple (N).
13. For thick or thin wall installation refer to the drawings.

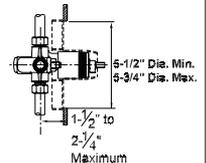
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For All
Installations



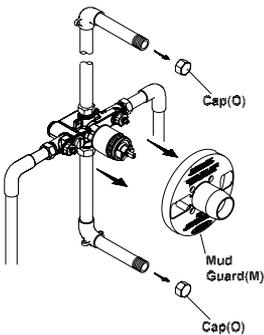
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For Thick Wall Installation



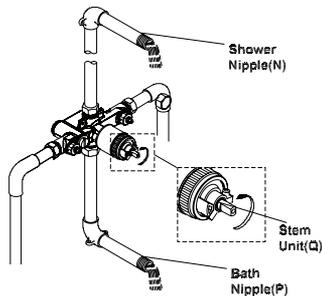
For Thin Wall Installation



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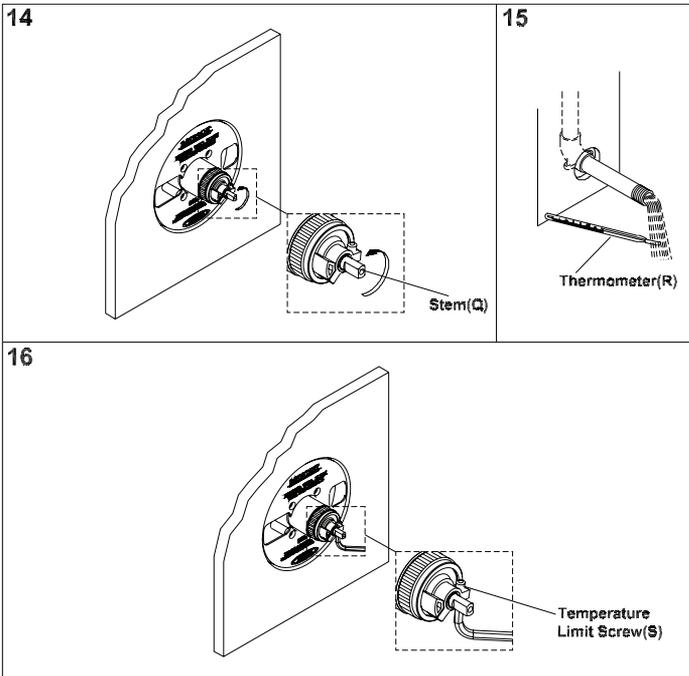
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To Set Or Adjust Water Temperature

14. Turn the stem (Q) counterclockwise to the full open position.
15. Allow water to run for some time until the hot water comes out. Check the temperature with thermometer (R) for the hot water.
16. If necessary adjust the temperature limit screw (S). Rotate the temperature limit screw (S) counterclockwise to increase the water temperature and clockwise to decrease the water temperature. Adjust to get the desired water temperature.

Caution: Anti scald device or pressure balance spool is not installed in the valve. The spool is included in the trim pack. The valve won't work properly without the pressure balance spool being installed in the valve.



For more care information or trouble shooting inquiries about your Pioneer product, please see the contact information on the back page.



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