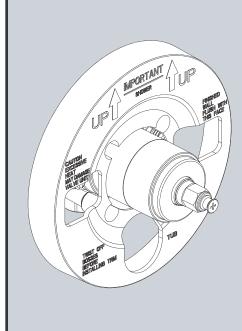
INSTRUCTIONS FOR MODELS

SM-12000 Valve Installation



NEED HELP?

For additional assistance or service please contact:

SPEAKMAN® Company 400 Anchor Mill Road New Castle, DE 19720

ف^{تت} 800-537-2107

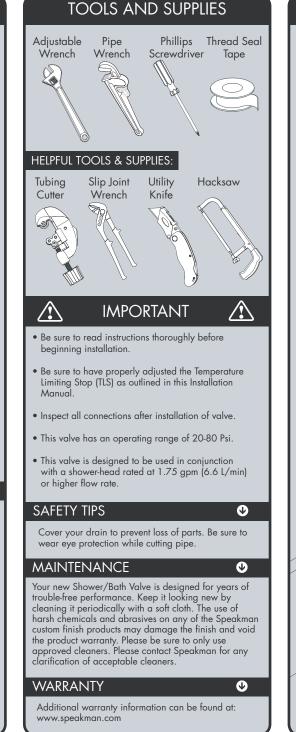
customerservice@speakman.com

FINISHED WALL-

www.speakman.com

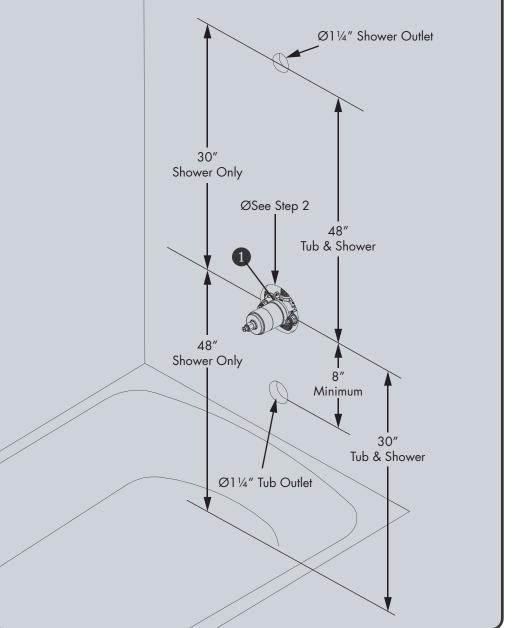
92-CPV-12000-02

2A



- Shut off the water supply to the tub and shower. Verify that the hole sizes and positions in the wall are correct:
- A. The shower and tub spout outlet holes should be 11/4" diameter.
- B. To determine the Valve access hole size, see STEP 2A and STEP 2B.

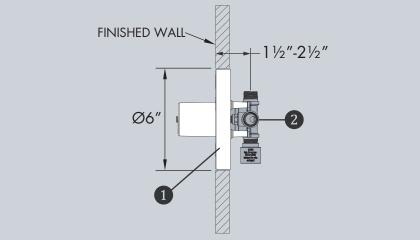
C. The recommended valve depth to the finished wall is $1\frac{1}{2}$ " minimum to $2\frac{1}{2}$ " maximum. Position the valve body (1) correctly in the wall with the "UP" pointing up. The 8" minimum from the valve body to the tub spout is required for proper operation.



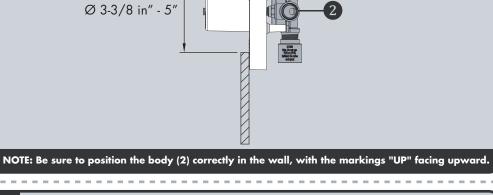
2B

THICK WALL INSTALLATION

"Thick Walls" are usually built up with materials such as cement board, drywall, tile, etc. The plaster guard (1) is positioned so that it is flush with the finished wall. This ensures that the valve will be at the correct position to accept the trim. The depth for valve body (2) in wall is measured from center of Valve inlets to finished wall surface. The accepted depth distance is $1\frac{1}{2}$ " - $2\frac{1}{2}$ ". When the depth distance is $1\frac{1}{2}$ " - 2", there will be interference between the plaster guard and escutcheon, we suggest removing the plaster guard after the wall installation.

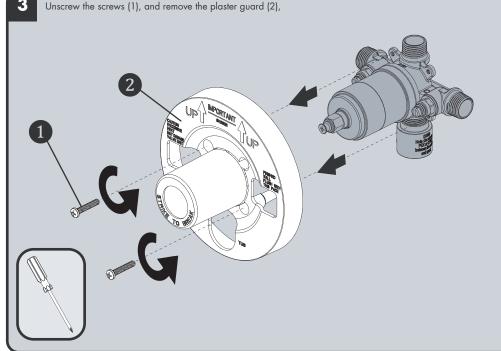


NOTE: Be sure to position the body (2) correctly in the wall, with the markings "UP" facing upward.

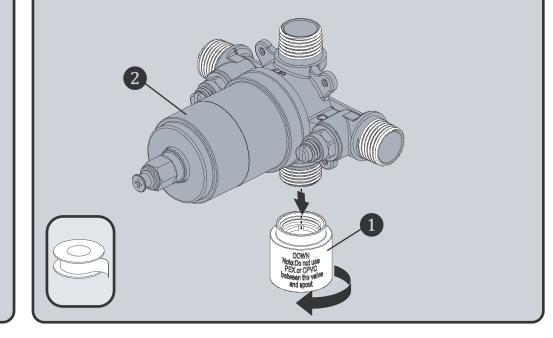


THIN WALL INSTALLATION

"Thin Walls" are usually built up with materials such as a fiberglass tub surround and will be the main source of support for the valve. The plaster guard (1) remains attached to the valve (2). If you are performing a "Thin Wall" installation, proceed to **STEP 3**.

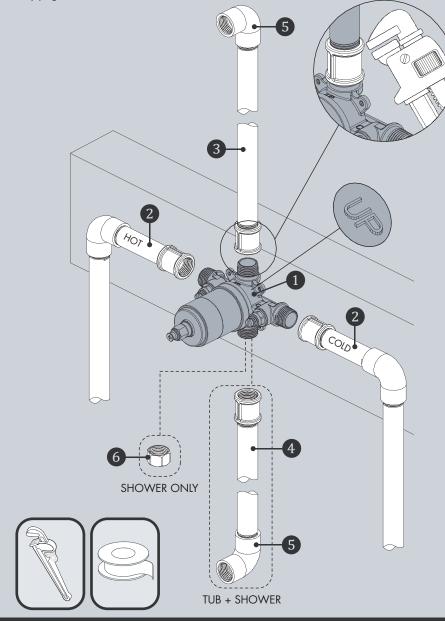


Remove the protective cap (1) from the valve body (2). If you are performing a pipe fitting installation, wrap thread sealant tape (not included) around the pipe threads in a clockwise direction.



PIPE FITTING INSTALLATION

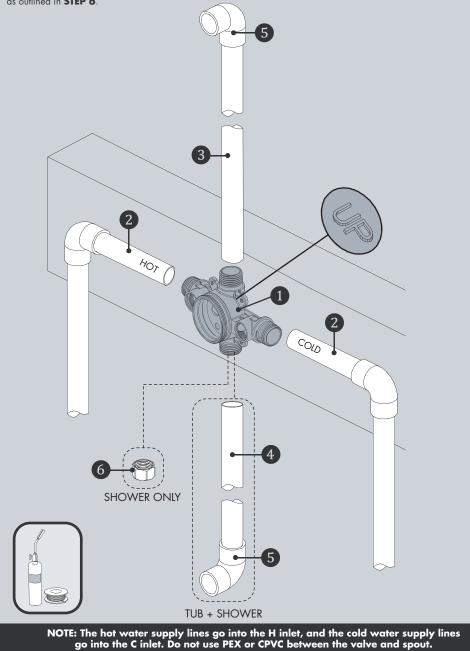
Connect the hot and cold water supply lines (2), not included, the shower outlet pipe (3), not included, and tub outlet pipe (4), not included, by threading them into the valve body (1) in a clockwise direction. Tighten the pipes to the valve body (1) with a pipe wrench (not included). Connect the pipe elbows (5), not included, to the end of the shower outlet and tub outlet pipes. If performing a shower only installation, install plug cap (6) in place of tub outlet piping.



NOTE: The hot water supply lines go into the H inlet, and the cold water supply lines go into the C inlet. Do not use PEX or CPVC between the valve and spout.

COPPER SWEAT FITTING INSTALLATION

Connect the hot and cold water supply lines (2), not included, the shower outlet pipe (3), not included, and tub outlet pipe (4), not included, by soldering them into the valve body (1).Connect the pipe elbows (5), not included, to the end of the shower outlet and tub outlet pipes. If performing a shower only installation, install plug cap (6) in place of tub outlet piping. Verify that all connections are soldered. Reassemble Valve components as outlined in **STEP 6**.



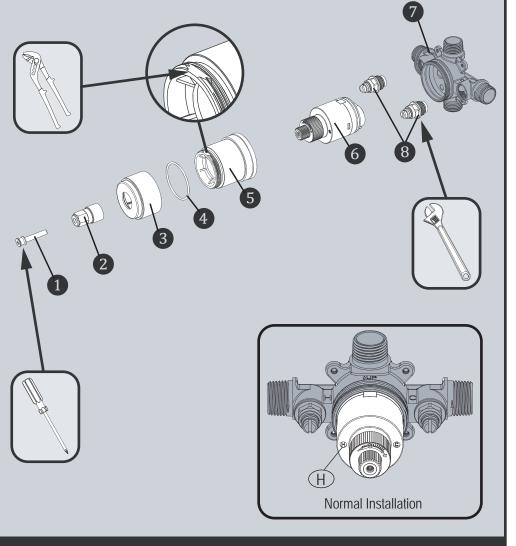
6

8

COPPER SWEAT INSTALLATION

When performing a Copper Sweat installation, it is recommended that you remove the Valve Cartridge (6), and Valve Stops (8) to prevent damage during soldering. Remove Screw (1), Inverter (2), Sleeve (3), and O-Ring (4). Use Slip Joint Wrench on the machined flats of Bonnet (5) to unthread the Bonnet (5) from Valve Body (7). Remove Valve Cartridge (6) from Valve Body (7). Unthread and remove Valve Stops (8) using Adjustable Wrench or Socket Wrench.

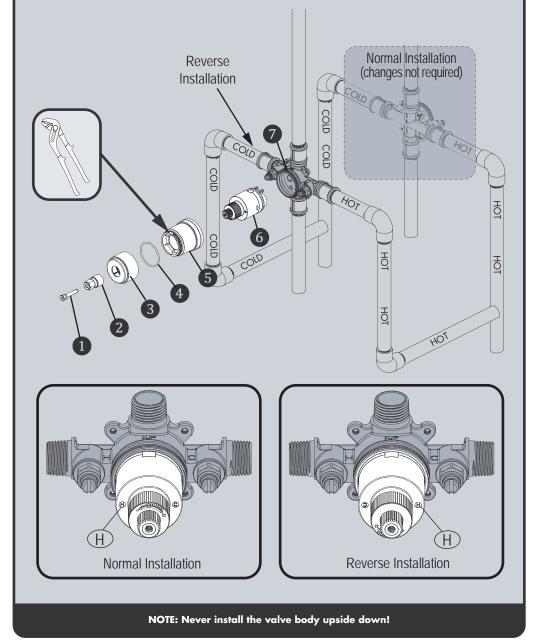
After soldering **(STEP 7)** is completed, Install the Valve Cartridge (6), making sure that the key is fully engaged with the slot in the Valve Body (7), with the "H" marking to the left side as shown below. Slide Bonnet (5) over the Valve Cartridge (6) and thread onto the Valve Body (7). Tighten securely with Slip Joint Wrench on the machined flats of the Bonnet (5). Final torque should be 88-106 IN*LBS. Take care to not over tighten connection or damage may occur. Reassemble O-Ring (4), Sleeve (3), Inverter (2) and Screw (1). Reinstall Valve Stops (8) and wrench tighten to 70-106 IN*LBS.



NOTE: Never install the valve body upside down!

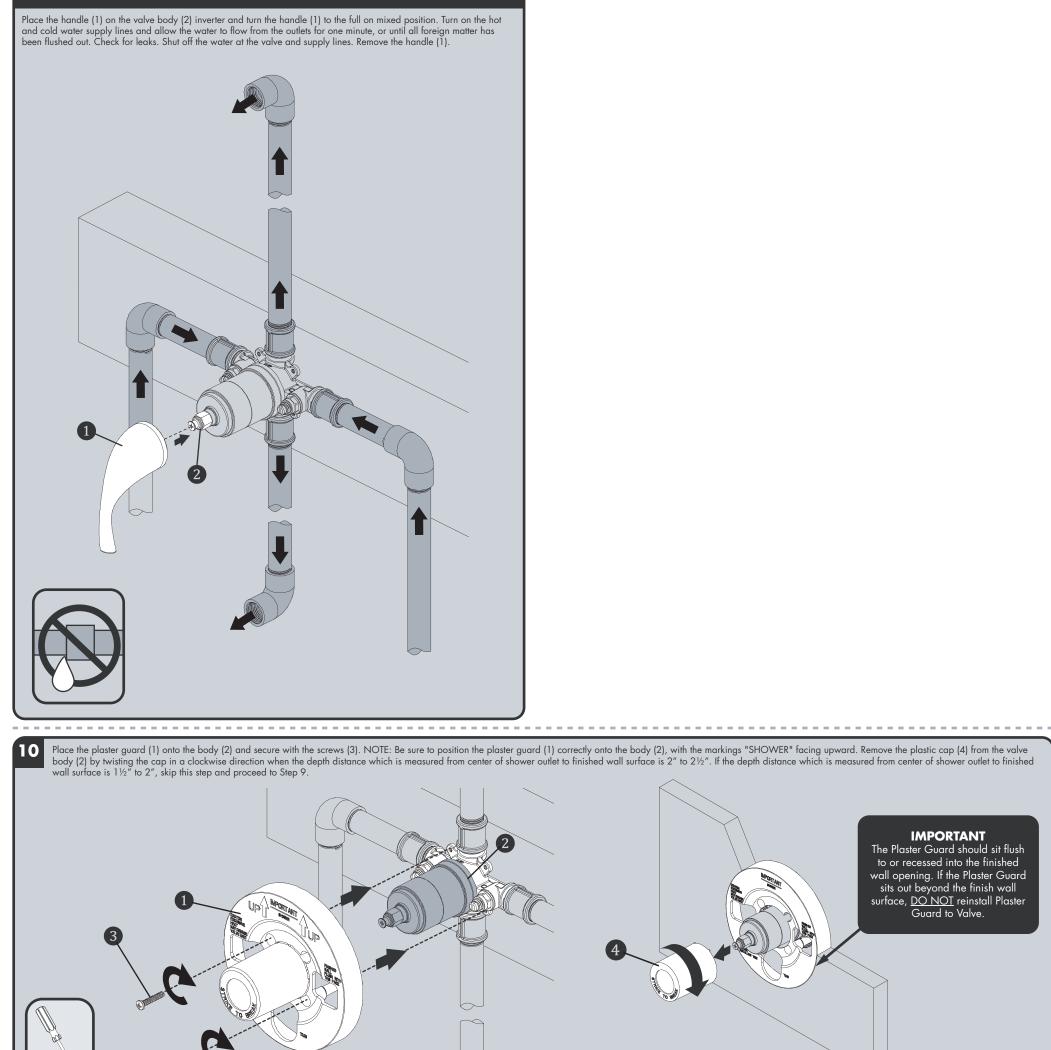
BACK TO BACK INSTALLATION

If you are not making a reverse or back to back installation, skip this step, and continue with **STEP 9**. If the HOT and COLD inlets are reversed (HOT on right and COLD on left), disassemble Valve components as outlined in **STEP 6**. Remove and rotate cartridge (6) 180° so "H" appears on the right. Install the Valve Cartridge (6) making sure that the key is fully engaged with the slot in the Valve Body (7). Slide Bonnet (5) over the cartridge and thread onto the body. Tighten securely with Slip Joint Wrench on the machined flats of the Bonnet (5). Final torque should be 88-106 IN*LBS. Take care to not over tighten connection or damage may occur. Reassemble O-Ring (4), Sleeve (3), Inverter (2) and Screw (1).



7

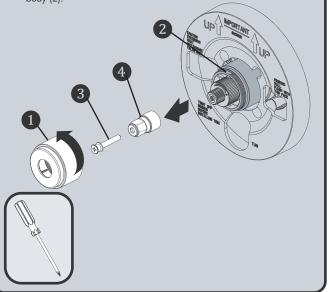
9 FLUSHING THE WATER OUTLETS AND CHECKING FOR LEAKS



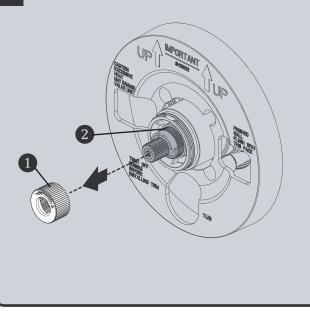
IMPORTANT The Plaster Guard should sit flush to or recessed into the finished wall opening. If the Plaster Guard sits out beyond the finish wall surface, <u>DO NOT</u> reinstall Plaster Guard to Valve.

(TLS) TEMPERATURE LIMIT STOP 211

Unscrew the sleeve (1) from the valve body (2). Unscrew the screw (3) from the inverter (4), and then remove the inverter (4), from the valve body (2).



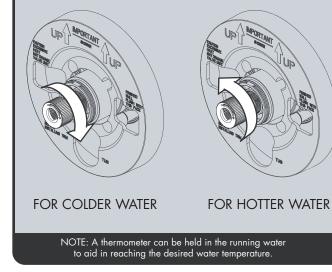
12 Remove the red limit stop ring (1) from the cartridge assembly (2).



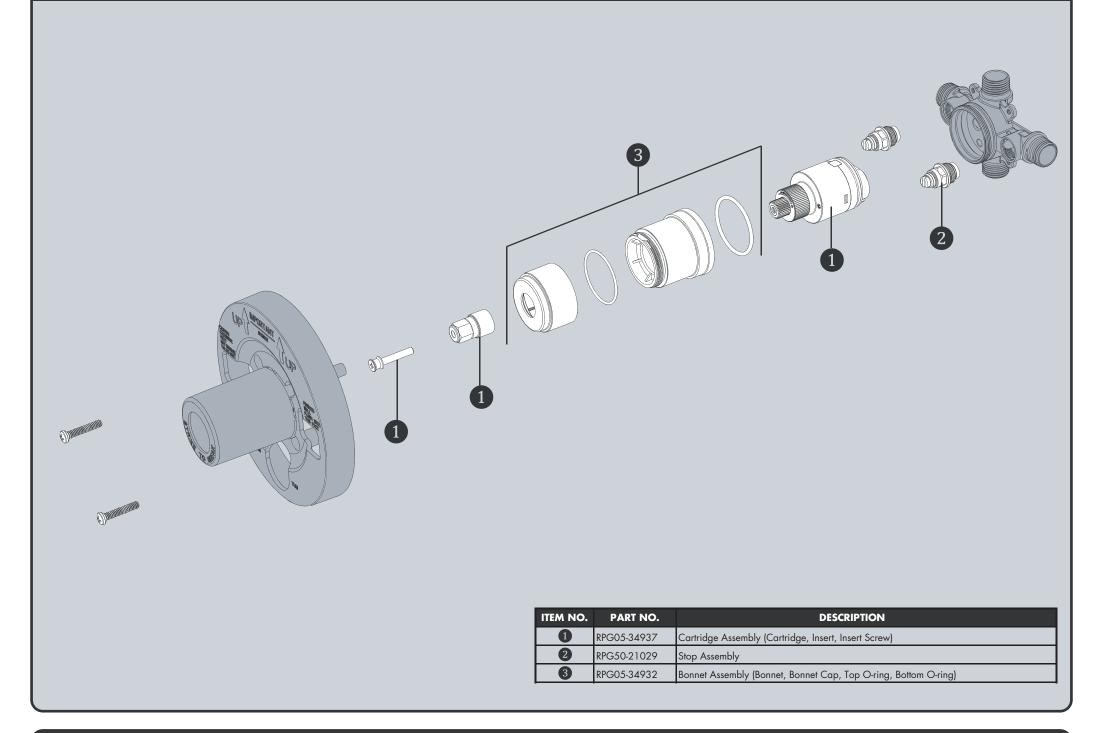
13 ADJUSTING THE TEMPERATURE LIMITER

For colder water, adjust the temperature limiter in a clockwise direction. For hotter water, adjust the temperature limiter in a counter clockwise direction

When finished, reinstall the inverter, screw, and sleeve.



SPEAKMAN®



SM-12000 VALVE ROUGH-IN DIAGRAM

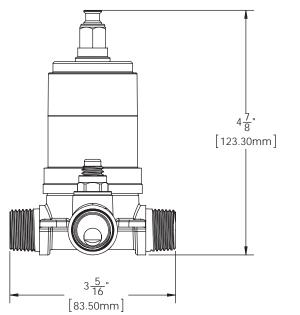
NOTES:

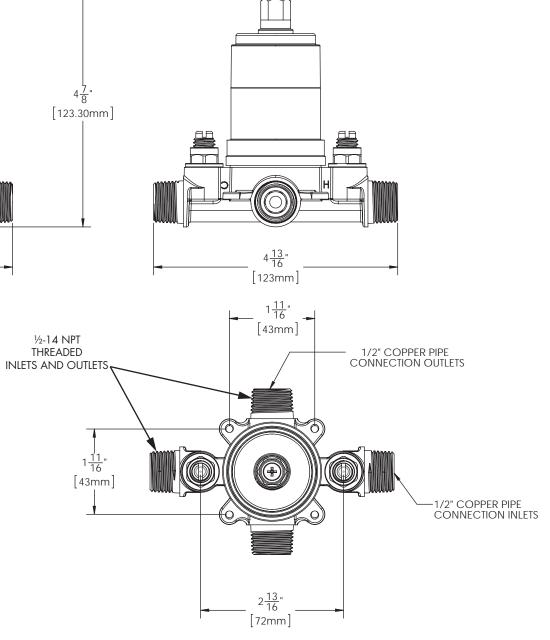
ASME A112.18.1/CSA B 125.1 ASSE 1016

CONNECTIONS:

• Inlet: ½" NPT Male ½" Copper Sweat

• Outlets: ½" NPT Male ½" Copper Sweat





SPEAKMAN®

Contractor to supply necessary inlet connections.

DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE.