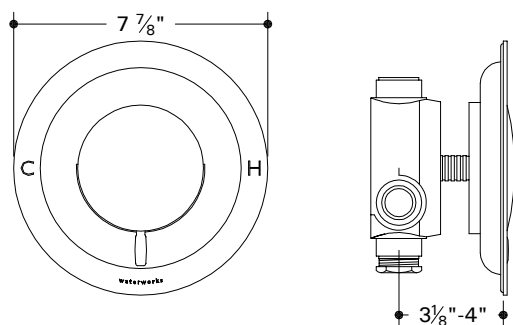
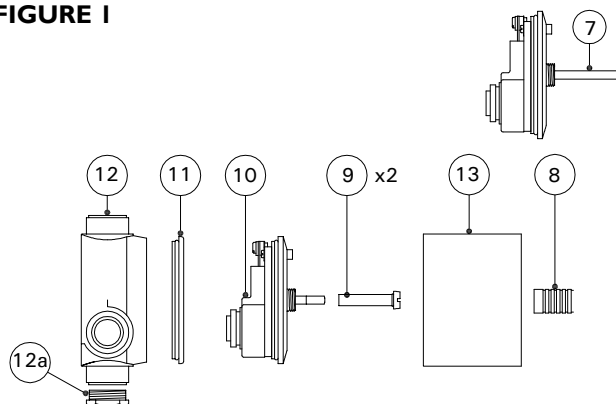


PTSV58 (trim) & GUSV78R (rough)**FIGURE 1****IMPORTANT**

- To ensure this product is installed properly, you must read and follow these guidelines.
- The owner/user of the valve must keep this information for future reference.
- The risk of scalding exists until the installer has properly calibrated the temperature setting.
- Valve body rough-in depth is $3\frac{1}{8}$ "-4" from the centerline of the inlets to the face of the finished wall.
- This thermostatic valve only mixes hot and cold water and does not have volume control or shut off capability. Wall valves (provided separately) control on/off/volume and must be installed for each fitting that will have water flowing to it.
- This product must be installed by a professional contractor.
- Refer to the specification and assembly drawings attached. Valves are sold partially assembled but shown fully disassembled for illustrative and service purposes only.

- If soldering any connections, remove cartridge to prevent damage to seals.
- This valve should be on-site prior to rough in and allows the installer to visualize the installation.
- Inspect this product to assure you have all parts required for proper installation.
- Check incoming water pressure; ideal operating pressure is 40-60 psi. Maximum pressure is 80 psi. per most plumbing codes.
- Check local building and plumbing codes to ensure that your installation conforms to all applicable requirements.
- Supply fittings are designed in accordance with pressure and temperature ratings specified in ASME A112.18.1/B125 and ASSE 1016.
- Install accessible hot and cold service stop valves to facilitate servicing.

ROUGH IN:

1. Make sure the valve body (12) is positioned according to valve markings so the inlets are situated with hot piped on the left and cold piped on the right. Positioned correctly, notice the inlets are below an imaginary horizontal line drawn between the 2 cover screws (9).
2. REQUIRED: Valve body rough-in depth is $3\frac{1}{8}$ "-4" from the centerline of the supplies/inlets to the face of the finished wall.
3. Run $\frac{3}{4}$ " copper supply lines to the proper height of the valve inlets and be sure to secure all piping and fittings.
4. For each fitting that will have water flowing to it, install a wall valve (provided separately) at the same $3\frac{1}{8}$ "-4" rough in depth and according to the flow direction arrow marked on the wall valve body.

FLUSH OUT THE SYSTEM:

5. The supply lines must be flushed out to prevent clogging of the filter screens. Failure to flush the lines will permanently damage the cartridge and void the warranty.

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.25 THERMOSTATIC SHOWER VALVE TRIM (PTSV58 & GUSV78R) All dimensions are based on original specification and are subject to change and variation. Please consult your Design Associate for current specifications.

W A T E R W O R K S

6. Turn on the water supply to flush out the lines.
7. Inspect all connections for leaks.
8. After the lines are flushed, turn off the water supply. Remove the flush plate (11) and install the cartridge (10).

ATTACH THE TRIM:

9. Unthread the trim nut (4) from the threaded sleeve (8) then attach this sleeve to the cartridge (10).
10. Slide the trim plate (6) over the sleeve until the plate contacts the wall.
11. While holding the trim plate against the wall, mark the sleeve at a point $\frac{3}{16}$ " beyond where it protrudes through the plate.
12. Remove the trim plate, unthread the sleeve, then cut the sleeve at the point marked in Step 11. Do NOT cut the end of the sleeve that has the internal threads.
13. Re-attach the threaded sleeve and slide the trim plate over it.
14. Thread the trim nut (4) onto the threaded sleeve which will hold the plate against the wall.
15. Fully insert the square tube (7) into the trim nut then by feel, make sure it slides over the stem and stops against the valve cover plate - see Figure 1. When seated properly onto the stem, the square tube will have rotational resistance.
16. Mark the square tube at the point where it passes through the face of the trim nut.
17. Remove the square tube and cut it $\frac{1}{8}$ " behind the mark made on the tube in Step 16.
18. After cutting, insert the square tube back into the trim nut making sure it is slightly recessed into the trim nut.

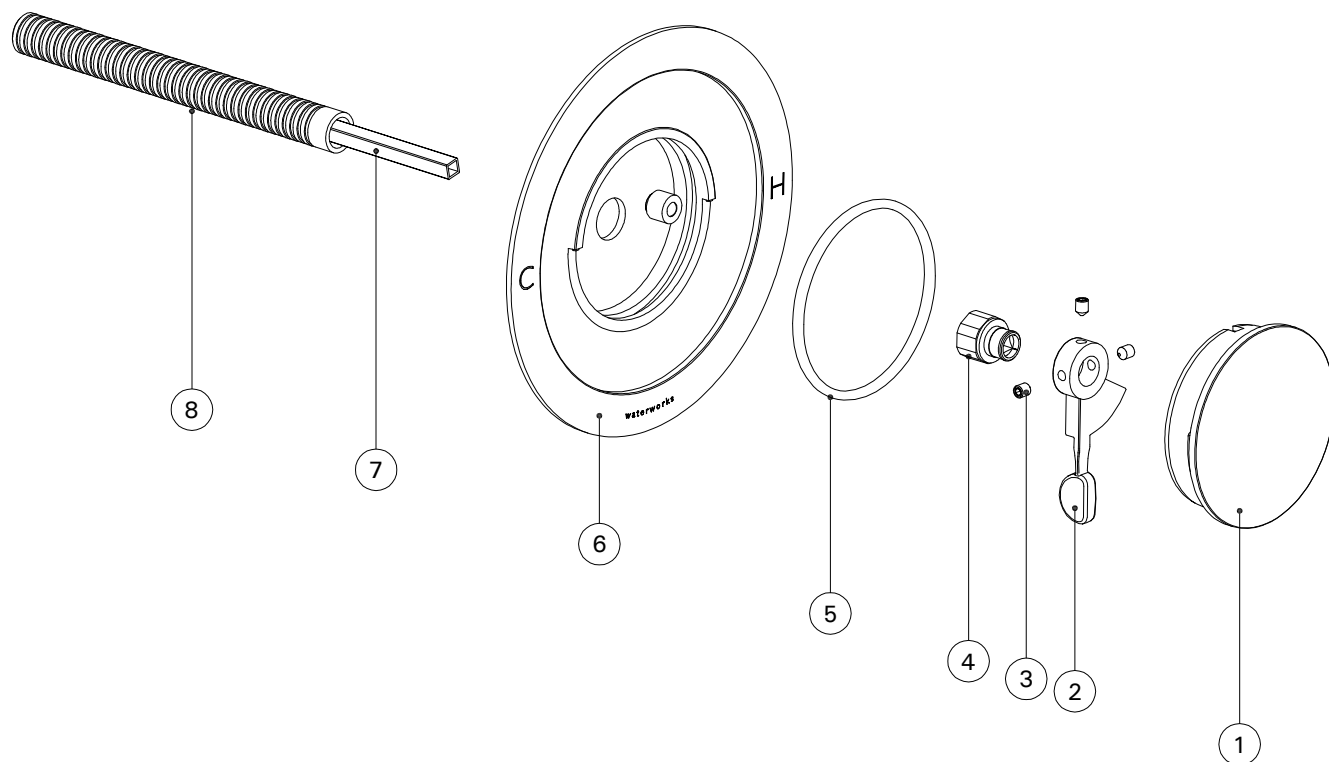
CALIBRATION / SETTING THE TEMPERATURE RANGE

19. The risk of scalding exists until the installer has properly calibrated the temperature setting.

20. Turn on a wall valve and insert a bladed screw driver into the square tube (7).
 21. Slowly rotate the square tube clockwise to attain full cold then rotate it counter clockwise to attain full hot. Verify a full range of temperatures exist. Note it is approximately 2 complete rotations from full cold to full hot.
 22. Rotate the square tube to adjust the temperature to the maximum desired bathing temperature and confirm the setting with a thermometer. Turn off the water and make sure not to change this temperature setting.
 23. Unthread the 3 set screws (3) from the handle (2).
 24. Position the handle so the handle contacts the ball bearing on the friction post. Note that in this position, the handle will rest approximately between 4 and 5:00. Push then hold the lever firmly onto the trim nut and tighten both set screws.
 25. Turn on the water and take a reading of the water temperature. Confirm that the temperature readings correspond to the hot and cold markings on the escutcheon plate and if they do not, repeat the calibration procedures.
 26. Rotate the lever to the warm position, i.e. 6:00. Line up the notch and lever cut outs on the back side of the trim cover (1) then push the cover onto the trim plate.
 27. Confirm the high temperature limit completed in step 24 is functioning properly by turning the handle counter-clockwise.
 28. Temperature settings should be checked periodically to ensure that proper calibration is maintained. Changes in the inlet water temperatures could affect the temperature settings.
- If further assistance is required, please contact Product Support at 1-800-927-2120 (8am-7pm EST).

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W A T E R W O R K S



PART and SERVICE PACK TABLE

PART	PACK
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NON-SERVICEABLE

ITEM.	DESCRIPTION	QUANTITY.	
1	TRIM COVER	1	N/A
2	HANDLE	1	N/A
5	O-RING	1	N/A
6	TRIM PLATE	1	N/A

PTPSV02

ITEM.	DESCRIPTION	QUANTITY.	
3	SET SCREWS	3	3

WWPMS00

ITEM.	DESCRIPTION	QUANTITY.	
4	TRIM NUT	1	1

WWPMS04

ITEM.	DESCRIPTION	QUANTITY.	
7	SQUARE TUBE	1	1
8	THREADED SLEEVE	1	1

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W A T E R W O R K S