

# 7600 THERMOSTATIC Showermaster **INSTALLATION INSTRUCTIONS**

Valve is ASSE 1016 T/P listed Valve is CUPC listed





1. Valve must NOT be sealed in wall with plaster or tile. Inlet fittings MUST be accessible for servicing.

- 2. Install hot to left inlet and cold to right inlet (see H and C marks on valve body).
- 3. Pipe cement, or solder flux must be used sparingly. After connections are made to the valve, flush pipes thoroughly (remove internal parts if necessary) to eliminate dirt and excess materials, which might become lodged in the working parts of the valve.
- IMPORTANT! The concealed 7600 valve is designed for top and bottom outlet. When used for showers, the top outlet only is used and the pipe plug is left in the bottom outlet. When used for shower AND tub, remove the pipe plug from the bottom outlet and pipe down to a diverter tub spout. No special elbow is required, (see installation drawings, page 4).
- Mount the handle gasket wiper to the back of the wall flange.
- Mount the wall flange to the valve body, using the TAM-33 wall flange screws.
- We recommend to seal the flange to the wall with silicone to prevent water from penetrating the wall.

After the valve is installed as noted above, recheck and reset the adjustable high temperature limit stop (see instructions, page 2).

5"-

WALL

4"



## **REMEMBER!! THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED** ON A REGULAR BASIS (SEE MAINTENANCE GUIDE AND RECORD MGR-1000).

1360 Elmwood Avenue, Cranston, RI 02910 USA Phone: 401.461.1200 Fax: 401.941.5310 Email: info@leonardvalve.com Web Site: http://www.leonardvalve.com

## **OPERATION**

The 7600 is a thermostatic water-mixing valve, which will compensate for changes in the temperature or pressure of hot and cold supplies and maintain bathing temperatures. Turn the handle counter-clockwise from the "OFF" position through the (COLD) area on the dial plate, the shower is on and temperature is cold. As the handle is turned toward the RED DOT (HOT) area, shower temperature becomes progressively WARMER until the high temperature limit is reached in the full "HOT" position. To turn OFF move handle back in clockwise direction to the "OFF" position. This thermostatic device must be cycled prior to use. While running water, simply adjust the outgoing temperature from full hot to full cold a minimum of ten (10) times. This ensures that the wax element has been fully flexed. Once flexed, the unit no longer requires any further cycling.



#### Valve flushing instructions:

- 1. Turn off hot and cold water supplies to the valve (using the inlet stops or checkstops)
- 2. Remove the cover assembly (7930), shuttle assembly and return spring
- 3. Replace the cover assembly while keeping the shuttle assembly and spring outside of the valve
- 4. Replace the handle and turn handle to off position
- 5. Turn the water supply back on to the valve
- 6. Turn the handle to allow water to flow, if restricted remove the shower head or hand shower allowing water to flow
- 7. The high rate of water flow flushes out the valve.
- 8. See servicing instructions on how to replace parts and reset the high temperature limit stop 2

WARNING! HOT WATER OVER 110°F (43°C) IS



## SERVICING INSTRUCTIONS

- 1. Remove snap cap (1018), screw (39) and washer (244). Remove pointer (7918). Remove wall flange screws (TAM-33) and wall flange (7925). (DWG. 4)
- 2. Turn off hot and cold supplies to the valve (using the inlet stops or checkstops furnished).
- 3. Remove the cover assembly (7930) and release the cover and control assembly (DWG. 4). Remove shuttle assembly.
- 4. To clean, submerge the assemblies in clear warm water to remove deposit or stain. Use a mild solution of household vinegar or non-corrosive cleaning solution to remove stubborn deposits, Replace the assembly, and reset high temperature limit stop (DWG. 3).
- 5. When cleaning the assemblies, **DO NOT USE ABRASIVES**. **LUBRICATE THE SHUTTLE O'RINGS.**
- 6. Return complete assembly to valve base, use medium strength Loctite 242 on cover threads and tighten cover, NOTE TEMPERATURE LIMIT STOP MUST BE RESET AFTER REASSEMBLY!

### WARNING

WARNING! THIS MIXING IS VALVE EQUIPPED WITH AN ADJUSTABLE HIGH **TEMPERATURE LIMIT STOP FACTORY SET** AT APPROXIMATELY 110°F (43°C) WITH AN нот **INCOMING** WATER SUPPLY TEMPERATURE OF 135°F (57°C). IF INCOMING HOT WATER ON THE JOB IS HIGHER THAN 135°F, THE VALVE MAY DELIVER WATER IN EXCESS OF 110°F, AND THE HIGH TEMPERATURE LIMIT STOP MUST BE RESET BY THE INSTALLER. (SEE **BELOW**)

#### TO RESET HIGH TEMPERATURE LIMIT STOP (DWG. 3):

1. Turn pointer to the left or right until valve is delivering the highest desired temperature of 110°F (43°C) or lower.

- 2. Remove pointer from spline, replace pointer on the spline with the STOP, which is cast into the underside of the pointer, resting against the TOP side of the WEB STOP which is located on the cover of the valve.
- If properly adjusted, the pointer should now move freely from the HOT position, clockwise to the OFF position.





KIT R/7600

\*\* Only used on valves with serial numbers 7608710 or before, not used with serial number 7608711 or above

# SERVICING INSTRUCTIONS

DESCRIPTION	SYMPTOM	KIT REQUIRED	
PACKINGS & GASKETS	<ol> <li>Leak at handle or cover.</li> <li>Valve will not shut off completely.</li> <li>Valve is difficult to pull apart.</li> </ol>	Kit1/7600	Cover o'ring (2) Lower o'rings Shuttle o'ring Spring washer Shut off gasket
COVER ASSEMBLY	<ol> <li>After packings and gaskets have been replaced, valve will not shut off completely.</li> <li>Valve does not respond when handle is turned.</li> </ol>	Kit R/7930 or Complete Rebuild Kit R/7600	Complete cover assembly
SHUTTLE ASSEMBLY	<ol> <li>After replacing packings and gaskets, valve will not hold temperature or delivers full hot or full cold.</li> </ol>	Kit R/7931 or Complete Rebuild Kit R/7600	Shuttle, wax element and spring
CHECKSTOPS, STOPS	<ol> <li>7. Supplies cannot be shut off completely.</li> <li>8. Leak at checkstops (or stop) bonnet or stem.</li> <li>9. Hot water is crossing into cold or vise versa.</li> </ol>	Kit 4/7600	(2 each) MU-6A, 7972, MU-5A, LVC- 8A



## LIMITED WARRANTY

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