7600 THERMOSTATIC INSTALLATION INSTRUCTIONS

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

1. Valve must NOT be sealed in wall with plaster or tile. Integral checkstops 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. 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.

4. Pipe cement, or solder flux must be used sparingly. After connections are made to the valve, flush pipes thoroughly.

5. 7600 valve is shipped with the internal parts removed and attached to the valve in a sealed bag. This is done to aid in flushing all debris out of the piping and valve. Do not install the internal parts to the valve until valve body has been flushed properly.

6. To flush valve turn the water supplies on to the valve. Turn the handle on to allow water to flow. If restricted remove the shower head or hand shower allowing water to flow freely. The high rate of water flow flushes out the valve. Do not flush valve out the front of valve body.

7. Once valve body has been flushed internal parts can be installed. Remove valve cover, install spring over copper end of wax element inside of shuttle, install shuttle with spring into valve body and rubber boot facing out of valve body. Push onto shuttle, shuttle assembly should “spring” back slightly.

8. Install valve cover using supplied medium strength Loctite 242 on cover threads and tighten cover.

9. Mount the handle gasket wiper to the back of the wall flange.

10. Mount the wall flange to the valve body, using the TAM-33 wall flange screws.

11. The outer edge of the flange should also be sealed using silicone. This will prevent water from getting behind the wall.

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

Please Note: This device for use with showerheads rated at 5.68 L/min (1.5 GPM) or higher

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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

WARNING! HOT WATER OVER 110°F (43°C) IS DANGEROUS AND MAY CAUSE SCALDING!

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'RING.
6. Return complete assembly to valve base, use medium strength Locite 242 on cover threads and tighten cover, NOTE TEMPERATURE LIMIT STOP MUST BE RESET AFTER REASSEMBLY!

WARNING

WARNING! THIS MIXING VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F (43°C) WITH AN INCOMING HOT 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.
3. If properly adjusted, the pointer should now move freely from the HOT position, clockwise to the OFF position.
PARTS/ASSEMBLY

** PACKINGS & GASKETS **
1. Leak at handle or cover.
2. Valve will not shut off completely.
3. Valve is difficult to pull apart.

** COVER ASSEMBLY **
4. After packings and gaskets have been replaced, valve will not shut off completely.
5. Valve does not respond when handle is turned.

** SHUTTLE ASSEMBLY **
6. After replacing packings and gaskets, valve will not hold temperature or delivers full hot or full cold.

** CHECKSTOPS, STOPS **
7. Supplies cannot be shut off completely.
8. Leak at checkstops (or stop) bonnet or stem.
9. Hot water is crossing into cold or vise versa.

KIT R/7600 COMPLETE ASSEMBLY
KIT R/7930 COVER ASSEMBLY
KIT R/7931 SHUTTLE ASSEMBLY
KIT 4/7600 CHECKSTOP KIT (PARTS IN KIT MARKED WITH *)

* Kit R/7930 or Complete Rebuild Kit R/7600
* Kit R/7931 or Complete Rebuild Kit R/7600
* Kit 4/7600

** SERVICING INSTRUCTIONS **

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SYMPTOM</th>
<th>KIT REQUIRED</th>
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</thead>
<tbody>
<tr>
<td>PACKINGS &amp; GASKETS</td>
<td>1. Leak at handle or cover.</td>
<td>Kit1/7600</td>
</tr>
<tr>
<td></td>
<td>2. Valve will not shut off completely.</td>
<td>Cover o’ring</td>
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<tr>
<td></td>
<td>3. Valve is difficult to pull apart.</td>
<td>(2) Lower o’rings</td>
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<td></td>
<td></td>
<td>Shuttle o’ring</td>
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<td></td>
<td></td>
<td>Spring washer</td>
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<td></td>
<td></td>
<td>Shut off gasket</td>
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<tr>
<td>COVER ASSEMBLY</td>
<td>4. After packings and gaskets have been replaced, valve will not shut off completely.</td>
<td>Kit R/7930 or Complete Rebuild Kit R/7600</td>
</tr>
<tr>
<td></td>
<td>5. Valve does not respond when handle is turned.</td>
<td>Complete cover assembly</td>
</tr>
<tr>
<td>SHUTTLE ASSEMBLY</td>
<td>6. After replacing packings and gaskets, valve will not hold temperature or delivers full hot or full cold.</td>
<td>Kit R/7931 or Complete Rebuild Kit R/7600</td>
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<tr>
<td>CHECKSTOPS, STOPS</td>
<td>7. Supplies cannot be shut off completely.</td>
<td>Kit 4/7600</td>
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<td></td>
<td>8. Leak at checkstops (or stop) bonnet or stem.</td>
<td>(2 each) MU-6A, 7972, MU-5A, LVC-8A</td>
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<tr>
<td></td>
<td>9. Hot water is crossing into cold or vise versa.</td>
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** Obsolete, not needed when purchasing new KIT R/7930 or KIT R/7600 **

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

Leonard Valve Company (hereinafter, “Leonard”) warrants the original purchaser that products manufactured by Leonard will be free from defects in material or workmanship under normal conditions of use, when properly installed and maintained in accordance with Leonard’s instructions, for a period of one year from the date of shipment. During this period, Leonard will at its option repair or replace any product, or part thereof, which shall be returned, freight prepaid, to the Leonard factory and determined by Leonard to be defective in materials or workmanship. Leonard provides no warranty, express or implied, which extends beyond the description contained herein. LEONARD SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Nonetheless, some jurisdictions may not allow the disclaimer of certain implied warranties, in which case Leonard hereby limits such implied warranties to the duration of the limited warranty period contained herein. Some jurisdictions may not allow limitations on how long an implied warranty lasts, so the foregoing durational limitation may not apply to you. In no event will Leonard be liable for labor or incidental or consequential damages. Any alteration or improper installation or use of this product will void this limited warranty. If any provision of this limited warranty is prohibited by law in the applicable jurisdiction, such provision shall be null and void, but the remainder of this limited warranty shall continue in full force and effect.