LEONARD®
WATER TEMPERATURE CONTROLS

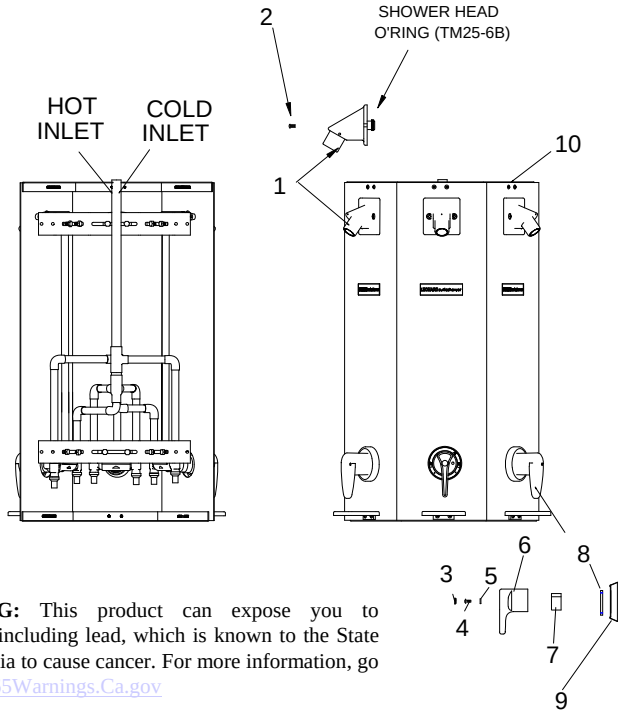
Bulletin 7600-3P-SS
August, 2018

SS-7600 3P surfashower®

THERMOSTATIC MODEL

¾" top inlets

INSTALLATION INSTRUCTIONS



Valve is ASSE 1016 T/P listed

Valve is CUPC listed

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. Remove item (2), 2- #1/4-20 X 3/4" long allen screws from showerhead and base (1), and remove
2. Remove snap cap (3), screw (4) and washer (5). Remove pointer (6), and stop (7)
3. Loosen surfashower flange nut (8) and flange (9)
4. Remove (10) screws, from top and bottom covers, and remove
5. Remove stainless steel cover
6. Mount valve and piping assembly directly to wall at desired height, using the mounting brackets, top and bottom (11).
7. The inlets are clearly marked on outlet of assembly. Connect hot water to hot inlet, and the cold water to the cold inlet. Flush pipes thoroughly to remove dirt and excess materials, if not valve may not perform properly.
8. Replace cover, and reassemble in reverse order. See page 3 on how to set HIGH TEMPERATURE LIMIT STOP.
    a) Note: when re-installing be sure not to cut o'ring (10) (TM-25-6B), when installing into showerhead bracket.

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

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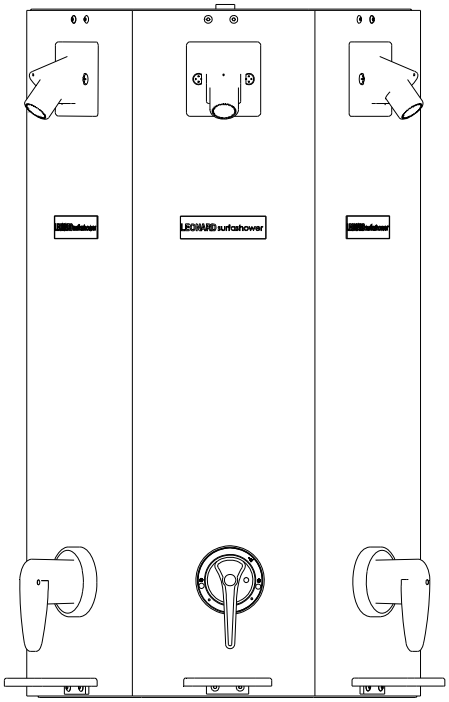


OPERATION

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.

WARNING

WARNING! THIS MIXING VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F (43°) WITH AN INCOMING WATER SUPPLY TEMPERATURE OF 135°F (57°C). IF INCOMING HOT WATER ON THE JOB IS HIGHER THAN 135°F, THE VALVE WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF 110°F, AND THE HIGH TEMPERTURE LIMIT STOP MUST BE RESET BY THE INSTALLER. (SEE PAGE 3)

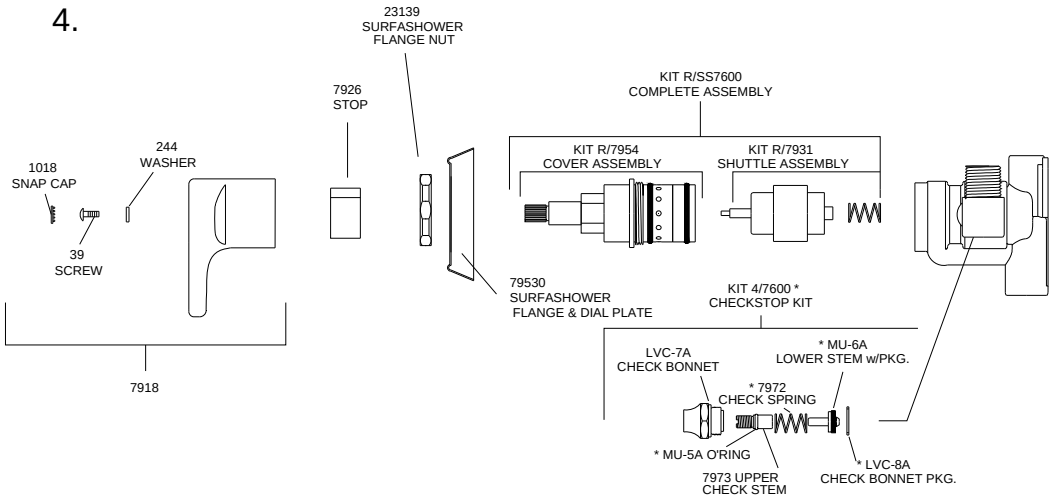
HOT WATER IN EXCESS OF 110°F IS DANGEROUS AND MAY CAUSE SCAULDING!!

SERVICING INSTRUCTIONS

DESCRIPTION	SYMPTOM	KIT REQUIRED	
PACKINGS & GASKETS	1. Leak at handle or cover. 2. Valve is difficult to pull apart.	Kit1/7600	Cover o'ring (2) Lower o'rings Shuttle o'ring Shut off gasket
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.	Kit R/7954 or Complete Rebuild Kit R/SS7600	Complete cover assembly
SHUTTLE ASSEMBLY	6. After replacing packings and gaskets, valve will not hold temperature or delivers full hot or full cold.	Kit R/7931 or Complete Rebuild Kit R/SS7600	Shuttle, wax element and spring
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 4/7600	(2 each) MU-6A, 7972, MU-5A, LVC-8A

SERVICING INSTRUCTIONS

4.



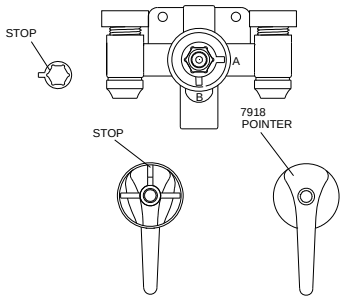
SERVICING INSTRUCTIONS

1. Remove snap cap (1018), screw (39) and washer (244). Remove pointer (7918). Remove flange nut (23139) and flange (79530). (DWG. 4)
2. Turn off hot and cold supplies to the valve (using the integral checkstops).
3. Remove the cover assembly and remove shuttle assembly. (DWG. 4).
4. To clean, submerge the assemblies in clear water 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!**
7. After installing in reverse order note if required use loctite #242 to pointer screw (39)

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

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

1. Remove snap cap (1018), screw (39) and washer (244). Remove pointer (7918)
2. Confirm the stop is facing somewhere between the range shown between point A and B in picture # 3
3. Turn pointer to the left or right until valve is delivering the highest desired temperature of 110°F (43°C) or lower.
4. 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.
5. If properly adjusted, the pointer should now move freely from the HOT position, clockwise to the OFF position.



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.

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