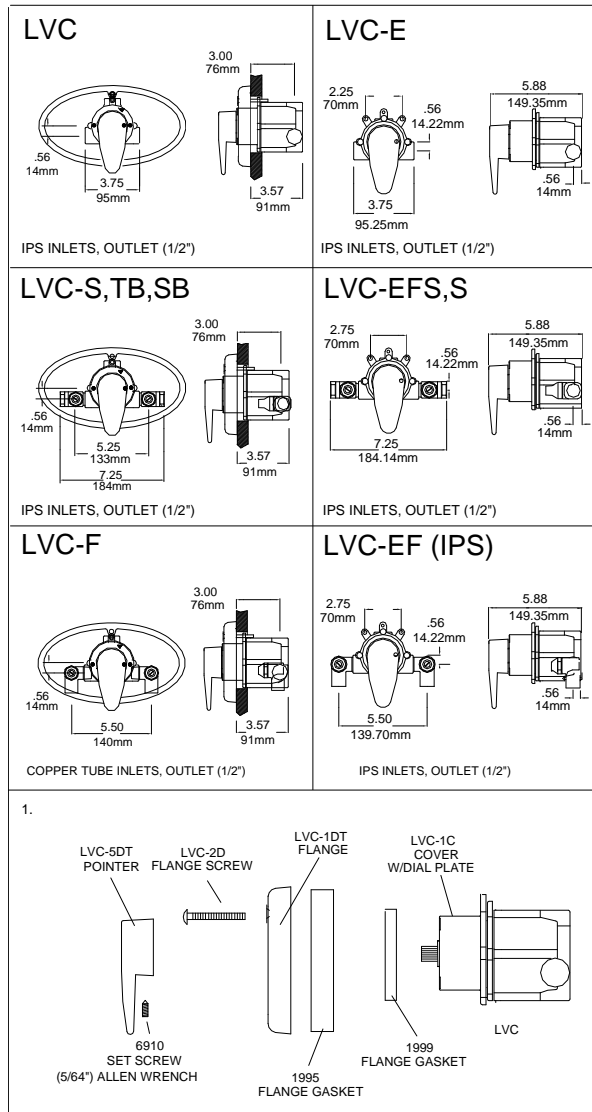


LVC THERMOSTATIC Showermaster® INSTALLATION INSTRUCTIONS

Serial No. 54009 and higher



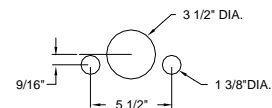
1. Valve must **NOT** be sealed in wall with plaster or tile. Cover screws and inlet fittings **MUST** be accessible for servicing.
2. It is recommended that the valve is furnished with inlet stops or checkstops on each supply.
3. Install hot to left inlet and cold to right inlet (see H and C marks on valve body).
4. 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 on the working parts of the valve.
5. On concealed models, attach protective cover which serves as a guide for the finish wall line after piping connections are made.
6. **IMPORTANT!** The concealed LVC 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).
7. After the valve is installed as noted above, recheck and reset the adjustable high temperature limit stop (see instructions, page 2).
8. Mount the handle gasket wiper and flange gasket to the back of the wall flange.
9. Mount the wall flange to the valve body, using the LVC-2D wall flange screw.
10. We recommend to seal the flange to the wall with silicone to prevent water from penetrating the wall.
11. Attach the pointer to the valve stem (using the set screw (6910).

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 WHEN TURNED TO FULL HOT MAY DELIVER WATER IN EXCESS OF 110°F, AND THE HIGH TEMPERATURE LIMIT STOP **MUST BE RESET BY THE INSTALLER** (SEE PAGE 2)

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

WALL
OPENING
TEMPLATE

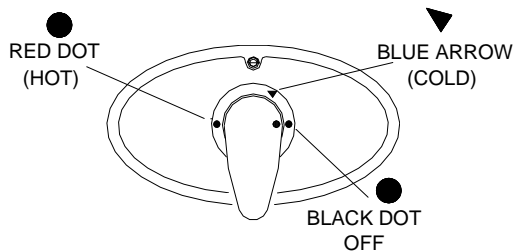


REMEMBER!! THIS IS A CONTROL DEVICE WHICH MUST BE CLEANED AND MAINTAINED ON A REGULAR BASIS (SEE MAINTENANCE GUIDE AND RECORD MGR-1000).

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OPERATION

The LVC 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. The easy to read dial with directional indicators helps to eliminate confusion as to where the handle should be located for a particular temperature. Turn the handle counter-clockwise from the "OFF" position through the BLUE ARROW (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. (the BLACK dot on the pointer lines up with the RED dot on the cover) To turn OFF move handle back in clockwise direction to the "OFF" position (the BLACK dot on the pointer lines up with the BLACK dot on the cover).



SERVICING INSTRUCTIONS

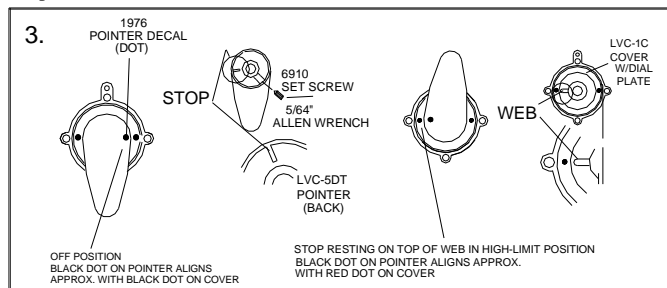
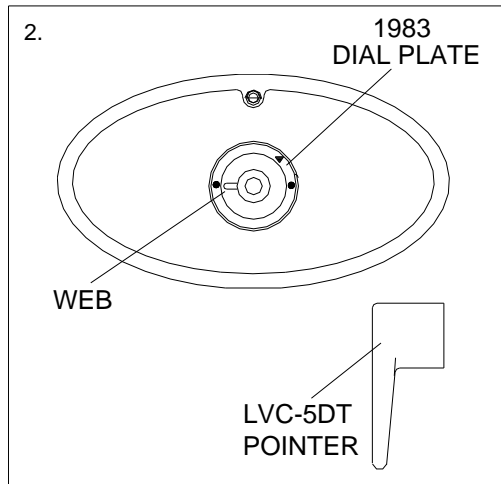
1. Remove pointer (LVC-5DT) by removing #6910 set screw (5/64" allen wrench). Remove wall flange screw (LVC-2D) and wall flange (LVC-1DT). (DWGS 1 & 2)
2. Turn off hot and cold supplies to the valve (using the inlet stops or checkstops if furnished).
3. Remove the four cover screws (MU-2C) and release the cover and thermostatic control assembly (DWG. 4). Do not misplace the cover gasket (LVC-3C). **DO NOT LOOSEN FACTORY SET TENSION NUT.** (DWG. 6)
4. To clean, submerge the assembly in clear water warm water to remove deposit or stain. Use a mild solution of household ammonia or non-corrosive cleaning solution to remove stubborn deposits, Replace the pointer on the valve stem and move to the left to make certain the inlet valve cups open and close vertically and that the thimble moves freely on the port sleeve (DWG. 5).
5. If the port sleeve assembly requires further cleaning, remove the control rod nuts (LVC-10B) and valve cups (LVC-25C), to release the bridge assembly (LVC-1-8B) and clean as noted above, be careful not to misplace stud (2998) and spring (2997). The bridge assembly may be further disassembled, by removing the two holder nuts (LVC-5B) to clean the port sleeve assembly.
6. When cleaning the port sleeve assembly, **DO NOT USE ABRASIVES. DO NOT LUBRICATE THE PORT SLEEVE ASSEMBLY** as it will limit the performance of the valve.
7. Place cover gasket in recess, return complete assembly to valve base and tighten cover screws, **NOTE TEMPERATURE LIMIT STOP MUST BE RESET AFTER REASSEMBLY!**

WARNING

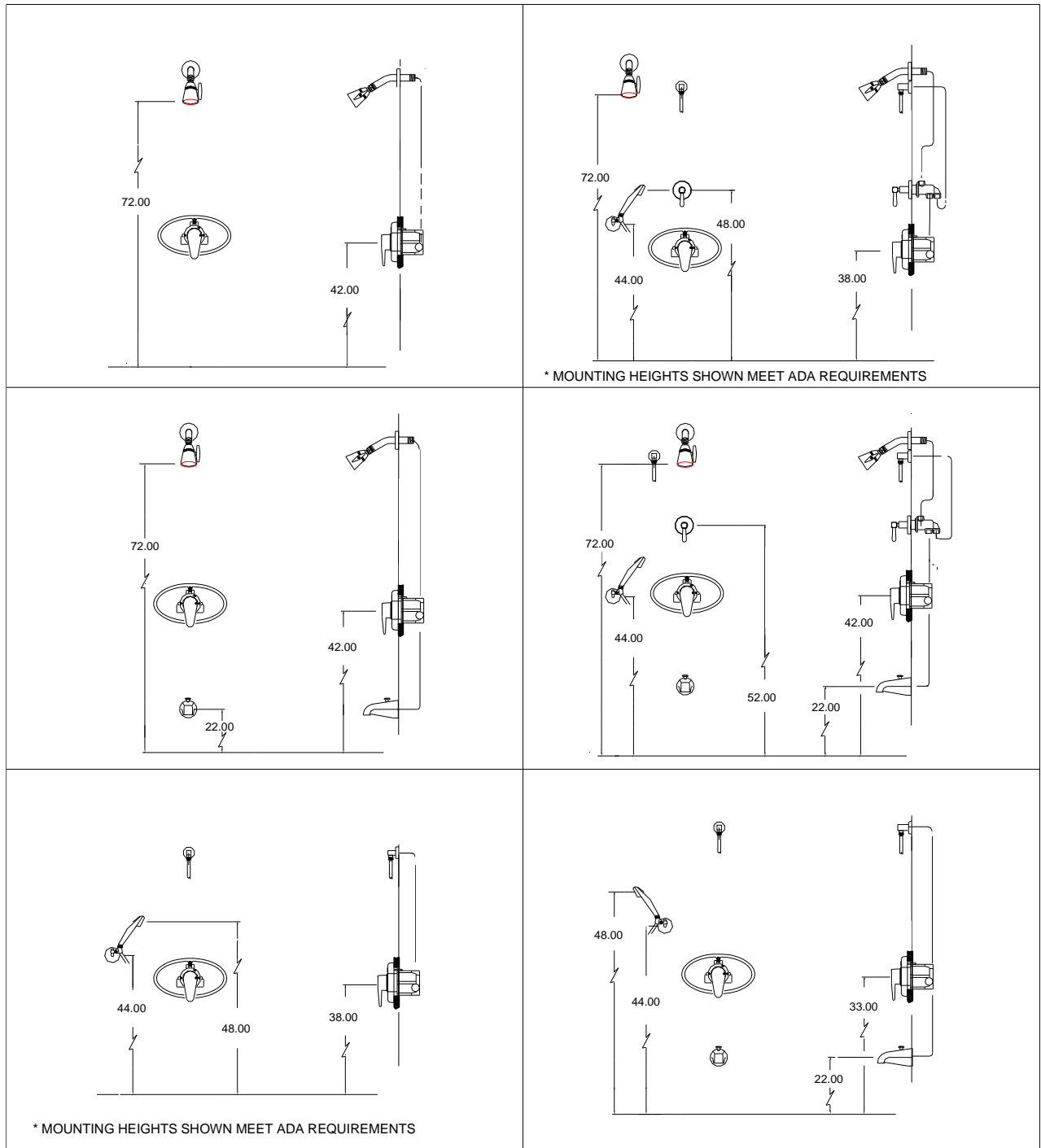
WARNING! THIS MIXING VALVE IS EQUIPPED WITH AN ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FACTORY SET AT APPROXIMATELY 110°F (43°C) WITH AN INCOMING HOT WATER SUPPLY TEMPERATURE OF 135°F (57°C). IF INCOMING HOT WATER ON THE JOB IS HIGHER THAN 135°F, THE VALVE WHEN TURNED TO THE FULL HOT MAY DELIVER WATER 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.
3. 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 which is cast on the cover.
4. If properly adjusted, the pointer should now move freely from the HOT position, where the BLACK dot on the pointer lines up with the RED dot on the cover, clockwise to the OFF position, where the BLACK dot on the pointer lines up with the BLACK dot on the cover.



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



LIMITED WARRANTY

Leonard Valve Company warrants the original purchaser that products manufactured by them (not by others) will be free from defects in materials and workmanship under normal conditions of use, when properly installed and maintained in accordance with Leonard Valve Company's instructions, for a period of one year from date of shipment. During this period the Leonard Valve Company 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. There are no warranties, express or implied, which extend beyond the description contained herein. There are no implied warranties of merchantability or of fitness for a particular purpose. In no event will Leonard be liable for labor or incidental or consequential damages. Any alteration or improper installation or use of the product will void this limited warranty.