

INSTRUCTIONS

FOR SERVICE AND ADJUSTMENT

TYPE T-5, T-10, & T-15 THERMOSTATIC WATER MIXING VALVES

Exposed and Concealed Piping

LEONARD VALVE COMPANY

1360 ELMWOOD AVENUE

CRANSTON, R. I.

Leonard Type T Valves are simplified in design and can be easily cleaned, adjusted or repaired by the plumber, usually without removing the valve. There are only two moving parts, the Thimble sliding on the Port Sleeve and the Thermostat Group turning on the Coil Sleeve Stud.

Failure to operate properly may be caused by a condition which can be corrected without dismantling the valve.

**IF THE TEMPERATURE DOES NOT CHANGE
(OR IF IT CHANGES ERRATICALLY) WHEN
THE POINTER IS MOVED FROM "COLD" TO
"HOT"**

a deposit of sediment may be causing the parts to stick.

Try first moving the Pointer from COLD TO HOT several times in succession until a clicking sound is clearly audible.

If this does not correct the condition, follow general instructions "A" and "B".

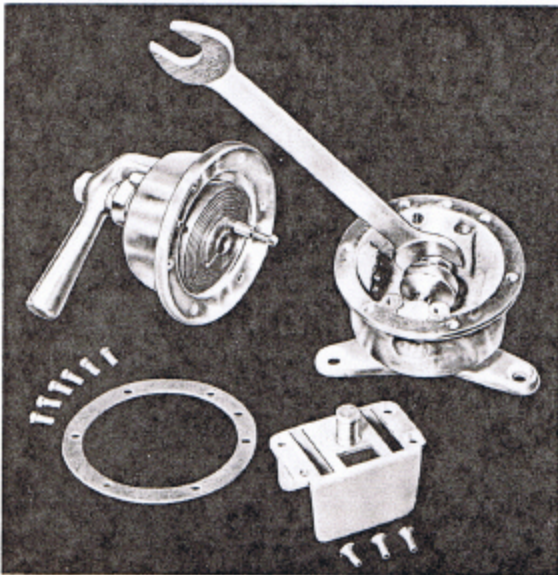




IF THE VALVE DELIVERS WATER TOO HOT (OR TOO COOL) WHEN POINTER IS IN "HOT" POSITION the Pointer may have been changed from its original position on the Pointer Rod. This would alter the high temperature limit.

TO RESET THE HIGH TEMPERATURE LIMIT:

Remove the Pointer Rod Nut and change the position of the Pointer on the Pointer Rod, re-setting the Pointer **to the left** for a higher temperature, or **to the right** for a lower temperature. (Remove and discard guide pin on valves sold 1955, or later.)



GENERAL INSTRUCTIONS FOR DISMANTLING VALVE:

1. Shut off hot and cold supplies to valve (and remove flange on concealed valve).
2. Remove 6 shell screws and front will come off as a unit.

A. TO CLEAN PORT SLEEVE ASSEMBLY:

Remove the 3 Bridge Screws and the Bridge.

The Thimble should slide freely on the Port Sleeve. Should a deposit of lime or sediment prevent free movement, screw the Port Sleeve Nut into the Base, which will release the Port Sleeve and Thimble so that they can be lifted out. Clean with a very fine steel wool — **DO NOT USE EMERY CLOTH OR SANDPAPER** — then wash parts thoroughly, wipe with a dry cloth, and reassemble.

In reassembling, make certain that Port Sleeve Nut is tightened against end of Port Sleeve. **CAUTION! DO NOT CRAMP SLEEVE IN PLACE.**

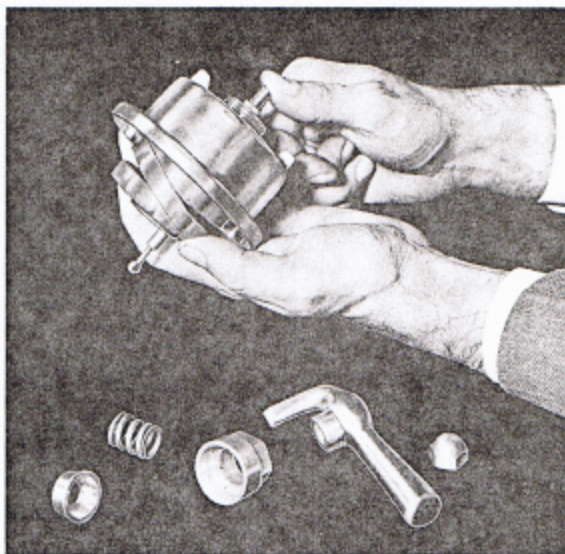
While valve is dismantled, inside of Shell and Base Castings should be wiped clean.

WHEN REPLACING FRONT, Driving Pin must be inserted in Thimble groove. Remove Thermostat Group as shown in section "B", and reassemble valve, following closely the instructions "To Reassemble".

B. TO CLEAN THERMOSTAT GROUP:

Remove Pointer Rod Nut and the Pointer. Loosen Packing Gland Nut, then take out the Thermostat Group by pushing on the Pointer Rod, being careful not to pull coils out of shape.

If deposit has collected on the thermostatic coil, clean it off with a brush in cleaning solution and wash well before reassembly. Cleaning solution should be non-corrosive and should not contain grit which would injure the metallic surface.



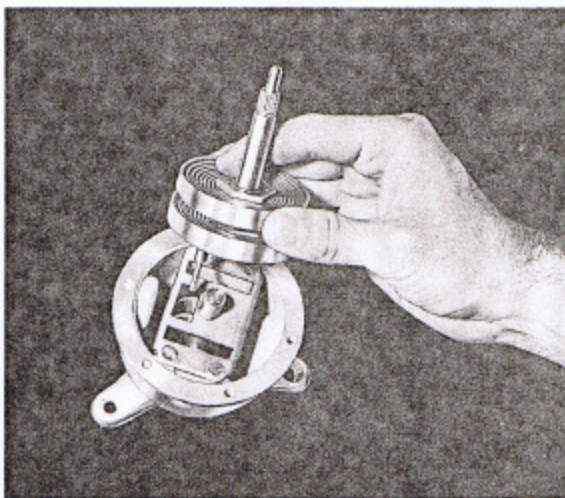
TO REASSEMBLE:

After cleaning, replace Thermostat Group on Coil Sleeve Stud, taking care to place Driving Pin through opening in Bridge into Thimble groove.

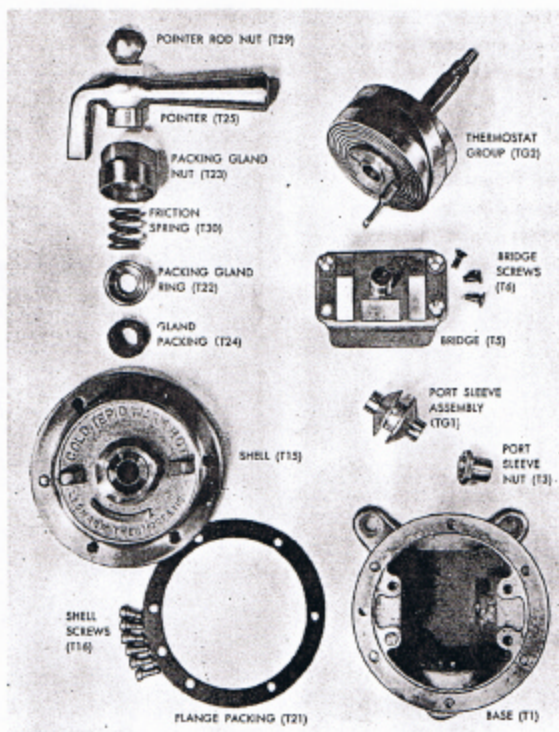
Freedom of movement of the Thermostat Group with its Driving Pin inserted in Thimble groove should be ascertained by moving the Coil from side to side; a clicking of the Thimble as it reaches the limit of its travel on either side of the Port Sleeve should be clearly heard, thus making sure that the Driving Pin has been correctly meshed in the Thimble.

Insert Flange Packing in Shell; replace Shell, tightening Shell Screws in rotation; replace Gland Packing and Packing Gland Ring; put Friction Spring in place; then replace Pointer and Pointer Rod Nut. Tighten Packing Gland Nut just enough to prevent leaking.

Inquiries regarding this valve, or orders for replacement parts, should be accompanied by the serial number which is stamped on the front of the valve.



PARTS LIST



POINTER ROD NUT	(T29)	SHELL SCREWS	(T16)
POINTER	(T25)	FLANGE PACKING	(T21)
PACKING GLAND NUT	(T23)	BASE	(T1)
FRICTION SPRING	(T30)	PORT SLEEVE NUT	(T3)
FRICTION GLAND RING	(T22)	PORT SLEEVE ASSEMBLY	(TG1)
GLAND PACKING	(T24)	BRIDGE	(T5)
SHELL	(T15)	BRIDGE SCREWS	(T6)
		THERMOSTAT GROUP	(TG2)

When ordering parts give serial number of valve.