



THV Series Thermostatic Radiator Valves

The MEPCO Thermostatic Valves and associated actuators offer the specifier, installer, and owner the best features necessary to achieve accurate and efficient room temperature control of hydronic and steam heating systems.

Mepco Thermostatic Valves (THV Series) regulate the flow of hot water or steam through free-standing radiators, baseboards or convectors, in hot water and two piped low pressure steam heating systems. They are designed for easy installation, comfort, energy efficiency and durability.

The MEPCO Thermostatic Valve operator consists of a standard vapor charged bellows and a setting dial. The dial is set to the position equal to the desired temperature. On a falling temperature, the liquid sensing element contracts, expanding the integral bellows upward into the sealed liquid chamber. The overload spring and pushrod are also moved upward by the valve stem/return spring. The attached valve plug opens the valve to flow. On a rising temperature, the reverse occurs.

Features:

- Fast acting modulating control of the space temperature.
- Theft protection device optional
- "Snap-action" mechanism allows easy installation and removal
- Sturdy EPDM rubber valve disc
- Elegant design





THV Series Thermostatic Radiator Valve Specifications

- 1.0 General—Furnish and install, as shown on the drawings, specifications, and or/ schedules. Mepco Thermostatic Valves with self-contained liquid filled actuators for space temperature control of hydronic or steam heating systems.
- 2.0 Valve/Actuator Characteristics- Valves shall be available in sizes 1/2 thru 1-1/4", in straight, angle, reverse angle, and double angle patterns with double o-ring gland, union nut sweat or threaded outlet tailpiece and female pipe thread inlets. It shall be possible to replace the valve bonnet without isolation or system shutdown. Actuators shall be self-contained and shall be available in attached, remote bulb, wall, and wall mounted with dual capillary styles. Actuators may have concealed set point/limit lock feature and set point memory disc. Optional thermostat guards shall reinforce installation strength and prevent tampering.
- 3.0 Material Characteristics—All valves shall have forged bronze bodies, brass or stainless steel trim, stainless steel stems, and EPDM seals. Actuators shall have liquid filled elements with high impact white plastic covers.
- 4.0 Valve Sizing- All balancing valves shall be sized to perform at specified flows with a maximum of 1.0 atmospheric pressure drop and at fluid temperatures below 232-250 degrees Fahrenheit.
- 5.0 Manufacture - complies with ISO 9001 Specifications. Sold through MEPCO (Marshall Engineered Products Company) authorized representatives.
- 6.0 Warranty—Valves and thermostats shall be free of material and workmanship defects for a period of 12 months from date of installation or from 18 months from date of shipment, whichever ever comes first.

Hydronic Hot Water Systems

Max. Temperature : 250 Degrees Fahrenheit
Max. Static Pressure: 45 psig
Max. Test Pressure: 232 psig
Max. Differential Pressure (water): 20 psig
Max. Sensor Temperature: 140 Degrees Fahrenheit
Adjustable Temperature Range: 45-86 Degrees Fahrenheit

Two-Pipe Low Pressure Steam Systems

Max. Temperature: 250 Degrees Fahrenheit
Max. Test Pressure: 232 psig
Max. Steam Pressure: 15 psig
Max. Sensor Temperature: 140 Degrees Fahrenheit
Adjustable Temp. Range: 45-86 Degrees Fahrenheit