

Product Specification

Features ■

- Paraffin-based advanced thermal actuation technology to sense and adjust outlet temperature
- Dirt and lime resistant poppet and seat design
- Virtual shutoff if supply pressure fails
- Vandal-resistant locking mechanism to secure temperature setting
- Factory tested as a complete unit
- Mounted on heavy-duty welded struts
- Pressure/Temperature Gauges, Ball valves

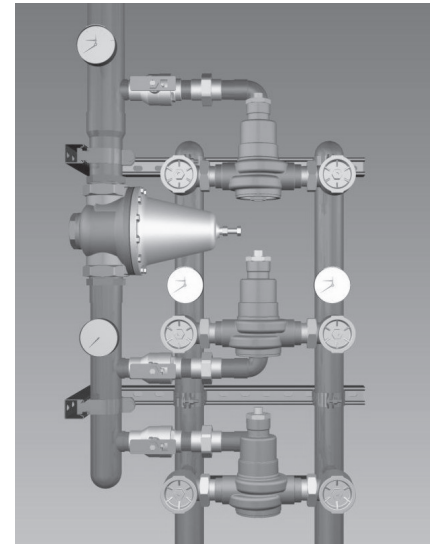
Specifications ■

- Connections See ordering information
- Maximum Hot Water Supply Temperature 200°F (93°C)
- Minimum Hot Water Supply Temperature* . . . 5°F (3°C) Above Set Point
- Minimum Flow** 0.5 gpm (1.9 lpm)
- Maximum Operating Pressure 125psi (861 kPa)
- Temperature Adjustment Range*** 90 - 160°F (32 - 71°C)
- Hot Water Inlet Temperature Range 120 - 180°F (49 - 82°C)
- Cold Water Inlet Temperature Range 40 - 80°F (4 - 27°C)
- Listing/Compliance (Valve Only). ASSE 1017, CSA B125

* With Equal Pressure

** Minimum flow when Hi/Lo valve is installed at or near hot water source recirculating tempered water with a properly sized continuously operating recirculating pump.

*** Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.

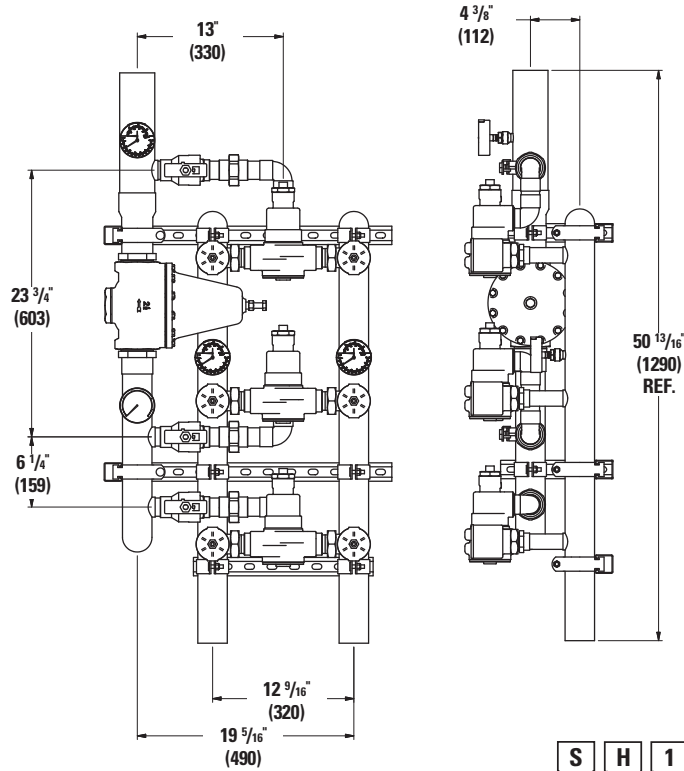


Advanced Thermal Activation

Capacity ■

Flow Capacity at 50-50 Mixed Ratio								
Model	Min. Flow to ASSE 1017	Cv	Pressure Drop Across Valve					
			5psi (34 kPa)	10psi (69 kPa)	20psi (138 kPa)	30psi (207 kPa)	45psi (310 kPa)	60psi (414 kPa)
SH1434TV	1 gpm 4 lpm	62.00	139 gpm 526 lpm	196 gpm 742 lpm	277 gpm 1049 lpm	340 gpm 1287 lpm	416 gpm 1575 lpm	480 gpm 1817 lpm

Dimensions ■



Note:
Dimensions are shown $\pm 1/2''$
Dimensions in parentheses are in mm

Ordering Information ■

Valve	Inlets	Outlet	Order Code
Triple Valve	2 1/2" (65mm)	3" (80mm)	TV
Finish			A
Rough Bronze			
Piping			E
Bottom/Top			
Cabinets			M
Exposed, No Cabinet			
Alarm			0
None			

S H 1 4 3 4 T V A E M O

Recirculation Piping Diagram ■

Please see Piping Diagram Section of this catalog.

Typical Specification ■

Triple Valve Hi/Lo Temperature Control System should include three thermostatic valves capable of maintaining water temperature to within the range of 90 – 160°F (32 – 71°C). Valves must compensate for fluctuations due to inlet water temperature changes. Valves shall be of bronze body with triple-duty checkstops and must have advanced, paraffin-based thermal actuation technology in order to guarantee a precise control when tested in accordance with ASSE 1017 and CSA B125. Thermostatic valves must be ASSE listed and CSA approved.

Triple-valve Hi/Lo system must include PRV, ball valves, pressure/temperature gauges and mounted on heavy-duty metal struts.

The Hi/Lo system shall be of Powers' SH1434TV. Any alternate must have a written approval prior to bidding.

ENGINEERING APPROVAL

Project: _____
Contractor: _____
Architect/Engineer: _____

POWERS™

A Watts Water Technologies Company



ISO 9001-2000
CERTIFIED

USA: Phone: 1.800.669.5430 • Fax 1.847.229.0526 • www.powerscontrols.com
Canada: Phone: 1.888.208.8927 • Fax 1.888.479.2887 • www.powerscontrols.ca