For Non-Health Hazard Applications

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

LEAD FREE*

HydroGuard[®] Master Tempering Valve Supply Fixture

Series LM490 Bottom Inlets/Top Outlet

- Semi-Recessed Cabinet

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
- Stainless steel or white painted cabinets
- Factory tested valve and piping
- Triple-duty checkstops with filters, dial-thermometer, ball valve
- Rough bronze and chrome finishes









Advanced Thermal Activation

Specifications

Connections	½" (15 mm) inlets and outlet
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	150 psi (1034 kPa)
Temperature Adjustment Range	90 – 160°F (32 – 71°C)
Listing/Compliance (Valve Only)	ASSE 1017, IAPMO UPC and CSA B125

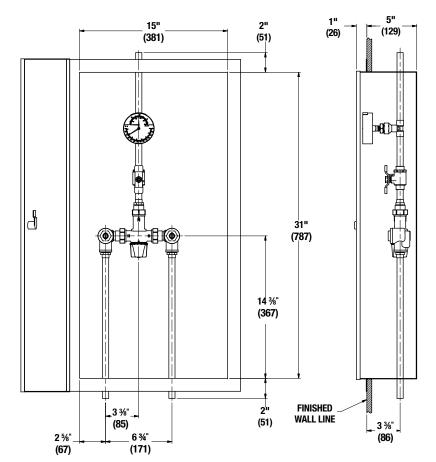
^{*} When tested in accordance with ASSE 1017

Capacity

Flow Capacity at 50-50 Mixed Ratio								
		Pressure Differential						
Valve	Cv	5 psi	10 psi	20 psi	30 psi	45 psi	60 psi	
		(35 kPa)	(69 kPa)	(138 kPa)	(207 kPa)	(310 kPa)	(414 kPa)	
LM490	3.42	7.6 gpm	11.0 gpm	15.0 gpm	19.0 gpm	23.0 gpm	27.0 gpm	
		(29 lpm)	(42 lpm)	(57 lpm)	(72 lpm)	(87 lpm)	(102 lpm)	

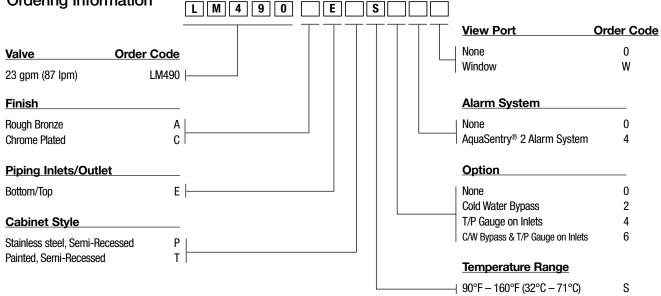


Dimensions



Note: Dimensions are shown ±1/2" Dimensions in parentheses are in mm

Ordering Information



Typical Specification

Cabinet Supply Fixture (CSF) shall be factory assembled and tested and include a stainless steel or painted steel cabinet. CSF shall feature a HydroGuard® LM490 Series Master-Tempering Valve with advanced paraffin-based actuation technology. CSF shall also include copper piping, ball valve(s) and temperature/pressure gauge for diagnostics. The tempering valve shall have union checkstops, an outlet temperature range of 90 – 160°F (32 – 71°C) (with lockable means), and an approach temperature of 5°F (3°C). Valve shall be ASSE 1017, IAPMO UPC listed and CSA certified. Minimum flow to ASSE 1017 shall be 0.5 gpm (1.9 lpm).

Valve shall be a Powers model _____. All alternatives must have written approval prior to bidding.



A WATTS Brand

USA: Tel: (800) 669-5430 • Fax: (847) 229-0526 • PowersControls.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca

Latin America: Tel: (52) 81-1001-8600 • PowersControls.com

ES-P-SF-LM490-BTSRC 1011 © 2017 Powers