New!

HydroGuard® Series LM495

Thermostatic Tempering Valves
For Individual Lavatory Installations

POWERS™
Water Tempering Innovation Since 1891
HydroGuard® Series LM495 Under-the-Counter Thermostatic Valves are designed for lavatory applications where the temperature of hot water must be controlled for safe, economic use. An advanced thermal actuator quickly senses and compensates for outlet temperature fluctuations induced by water temperature and pressure changes in the supply line. The Series LM495 features Powers’ advanced paraffin-based actuation technology, integral checks and inlet screens to prevent cross-flow and contamination.

Rugged construction features solid brass body and corrosion-resistant internal components ensuring years of dependable, trouble-free service. Temperature adjustment handle is simple to adjust and has a locking mechanism to prevent tampering. The HydroGuard Series LM495 is ASSE 1016, 1070 listed and CSA B125 certified.

Features and Benefits

- Temperature control to ASSE 1016, 1070 down to 0.5 gpm
- Advanced thermal actuator improves performance
- Adjustable temperature selection with locking mechanism to prevent tampering
- Polysulfone plunger for extended life
- Solid brass construction enhances durability
- Union connections for easy maintenance
- Integral checks and screens prevent cross-flow and contamination
- Available in 1/2", 3/4" and 1" with union NPT Female, Sweat, CPVC and PEX connections

The Series LM495 allows facilities to distribute water at higher temperatures, minimizing the potential occurrence of Legionella and other known bacteria which can be present at temperatures below 131°F (50°C). Ideal for low flow faucets in:

- schools
- healthcare facilities
- public restrooms
- correctional facilities
- hotels/motels
- sports facilities
- office buildings

An Inside Look at Quality

- Temperature locking mechanism prevents unauthorized adjustment of set temperature.
- Integral checks prevent cross-flow.
- Integral screens keep debris away from the valve.
- Union inlets for easy maintenance.
- Advance thermal actuator provides near instantaneous response from 80° - 120°F (27° - 49°C).
POWERS SERIES LM495
WITH INTEGRAL CHECKS
AND SCREENS

HOT WATER SUPPLY
COLD WATER SUPPLY

---|---|---|---|---|---|---|---|---|---|---|---|---
Connections | 1/2'' NPT Female | 3/4'' NPT Female | 1'' NPT Female | 1/2'' Sweat | 3/4'' Sweat | 1'' Sweat | 1/2'' CPVC | 3/4'' CPVC | 1'' CPVC | 1/2'' PEX | 3/4'' PEX | 1'' PEX
---|---|---|---|---|---|---|---|---|---|---|---|---
```
“A”  4.89  (124.2mm)  4.89  (124.2mm)  5.31  (134.9mm)  4.83  (122.7mm)  5.31  (134.9mm)  5.81  (147.6mm)  4.75  (120.7mm)  5.23  (132.8mm)  6.67  (164.0mm)  5.25  (133.4mm)  5.49  (139.5mm)  5.87  (149.1mm)

“B”  5.41  (137.4mm)  5.41  (137.4mm)  5.62  (142.7mm)  5.38  (136.7mm)  5.62  (142.7mm)  5.87  (149.1mm)  5.34  (135.7mm)  5.58  (141.7mm)  5.80  (147.7mm)  5.39  (135.9mm)  5.71  (145.0mm)  5.90  (149.9mm)

“C”  3.16  (80.2mm)  3.16  (80.2mm)  3.37  (85.6mm)  3.37  (85.6mm)  3.37  (85.6mm)  3.55  (90.2mm)  3.34  (84.8mm)  3.34  (84.8mm)  3.46  (87.9mm)  3.65  (92.7mm)
```
**Product Specifications**

**Temperature Adjustment:**
Model LM495 80° - 120° F (27° to 49°C)

<table>
<thead>
<tr>
<th>Female NPT</th>
<th>Sweat</th>
<th>CPVC</th>
<th>PEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>1&quot;</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

**Union Connections:**

**Capacity:**

<table>
<thead>
<tr>
<th>Pressure Drop Across the Valve</th>
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<tr>
<td>(CV) 1 psi (7 kPa)</td>
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<tr>
<td>1.79</td>
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</tbody>
</table>

**Approach Temperature:** 10°F (5.6°C) above set point

**Max. Operating Pressure:** 150 psi (1034 kPa)

**Max. Hot Water Temperature:** 200°F (93°C)

**Minimum Flow:** 0.5 gpm (1.90 lpm) when tested in accordance with ASSE 1016 & ASSE 1070

**Check Valves:** Integral

**Construction:** Cast Brass Body

**Approval:** CSA B125 Certified

**Listing:** ASSE 1016 and ASSE 1070

**How to Order**

**Valve**
- 1/2" ........................................ 5
- 3/4" ........................................ 6
- 1" ........................................ 7

**Inlets**
- Union NPT Female .......................... 1
- Union Sweat ................................. 2
- Union CPVC ................................. 3
- Union PEX ................................. 4

**Checkstops (Pairs)***
- None ...................................... 0
- 1/2" Straight, NPT (LM495-1 only) .... A
- 1/2" Straight, Sweat (LM495-1 only) .. C
- 1/2" Angled, Sweat (LM495-1 only) ... D

* Checks come standard

**Cabinet & Piping**
- 0 ......................... None
- A ............... Stainless Steel, Recessed
- B ............... Stainless Steel, Wall Mount
- E .................... Stainless Steel, Semi-Recessed
- C .................... Paint, Recessed
- D ............... Paint, Wall Mount
- F ............... Painted, Semi-Recessed

**Typical Specification**

Thermostatic tempering valve shall be constructed of solid brass. The valve shall feature advanced paraffin-based actuation technology and union connections for ease of maintenance. All internal components shall be corrosion-resistant. Valve shall feature integral checks to prevent cross-flow and inlet screens to filter out debris. The valve shall be CSA B125 certified, ASSE 1016 and ASSE 1070 listed.

Capacity of the valve shall be 12.0 gpm (45.0 lpm) at 45 psig differential. Valve shall perform to a minimum flow of 0.5 gpm to ASSE 1016 and ASSE 1070. Control temperature shall be adjustable between 80° - 120°F (27° - 49°C). The valve shall feature a vandal-resistant lockable handle to prevent tampering. The valve shall be a Powers’ HydroGuard Model LM495 (1/2"), LM496 (3/4"), LM497 (1"). Any alternate must have a written approval prior to bidding.

**Engineering Approval**

Project:

Contractor:

Architect/Engineer: