POWERS™

HYDROGUARD® Series LM495 Thermostatic Mixing Valves for Lavatory Installations

Product Specification

Features ■

- Temperature control to ASSE 1016-96, 1069, 1070 down to 0.5 gpm
- Advanced thermal actuator improves performance at low flow
- Solid bronze construction enhances durability
- Adjustable temperature selection with lock down
- Union connections for easy maintenance
- Integral checks and screen prevents cross-flow and contamination
- Available in 1/2", 3/4", 1" (15, 20, 25 mm) with NPT, Sweat, PEX, Quick-Connect, and CPVC union connections

Advanced Thermal Activation

Specifications ■

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

Approach Temperature: 5°F (3°C) above set point
Max. Operating Pressure: 125 psi (861 kPa)
Max. Hot Water Temperature: 200°F (93°C)
Minimum Flow: 0.5 gpm (1.90 lpm) when tested in accordance with ASSE 1016-96, ASSE 1069 & ASSE 1070

Check Valves: Integral
Construction: Cast Bronze Body
Approval: CSA B125 Certified
Listing: ASSE 1016-96, ASSE 1069 & ASSE 1070

UNION CONNECTIONS														
Female NPT			Sweat			CPVC			PEX			Quick-Connect		
1/2" (15)	3/4" (20)	1" (25)	1/2" (15)	3/4" (20)	1" (25)	1/2" (15)	3/4" (20)	1" (25)	1/2" (15)	3/4" (20)	1" (25)	1/2" (15)	3/4" (20)	1" (25)
LM495-1	LM496-1	LM497-1	LM495-2	LM496-2	LM497-2	LM495-3	LM496-3	LM497-3	LM495-4	LM496-4	LM497-4	LM495-5	LM496-5	LM497-5

Capacity ■

PRESSURE DROP ACROSS THE VALVE							
(CV) 1 psi (7 kPa)	5 psi (34 kPa)	10 psi (69 kPa)	15 psi (103 kPa)	20 psi (138 kPa)	30 psi (207 kPa)	45 psi (310 kPa)	60 psi (414 kPa)
1.79	4.0 gpm (15.0 lpm)	5.7 gpm (22.0 lpm)	7.0 gpm (26.0 lpm)	8.0 gpm (30.0 lpm)	9.8 gpm (37.0 lpm)	12.0 gpm (45.0 lpm)	13.9 gpm (53.0 lpm)

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Dimensions ■

Model	LM495-1	LM496-1	LM497-1	LM495-2	LM496-2	LM497-2	LM495-3	LM496-3	LM497-3	LM495-4	LM496-4	LM497-4
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"	4-7/8 (124mm)	4-7/8 (124mm)	5-5/16 (135mm)	4-13/16 (123mm)	5-5/16 (135mm)	5-13/16 (148mm)	4-3/4 (121mm)	5-1/4 (133mm)	5-11/16 (144mm)	5-1/4 (133mm)	5-1/2 (140mm)	5-7/8 (149mm)
"B"	5-7/16 (137mm)	5-7/16 (137mm)	5-5/8 (143mm)	5-3/8 (137mm)	5-5/8 (143mm)	5-7/8 (149mm)	5-5/16 (136mm)	5-9/16 (142mm)	5-13/16 (147mm)	5-9/16 (142mm)	5-11/16 (145mm)	5-7/8 (150mm)
"C"	3-3/16 (80mm)	3-3/16 (80mm)	3-3/8 (86mm)	3-1/8 (80mm)	3-3/8 (86mm)	3-5/8 (92mm)	3-1/16 (79mm)	3-5/16 (85mm)	3-9/16 (90mm)	3-5/16 (85mm)	3-7/16 (88mm)	3-5/8 (93mm)

Model	LM495-5 LM495-105	LM496-5 LM496-105	LM497-5 LM497-105
Connections	1/2" Quick-Connect	3/4" Quick-Connect	1" Quick-Connect
"A"	6-5/8 (168mm)	6-15/16 (177mm)	7-1/8 (181mm)
"B"	6-1/4 (159mm)	6-7/16 (163mm)	6-1/2 (165mm)
"C"	4 (102mm)	4-3/16 (106mm)	4-1/4 (108mm)

Note:
Dimensions are shown ±1/4"
Dimensions in brackets are in mm

Hot Water Inlet · Cold Water Inlet · Tempered Outlet
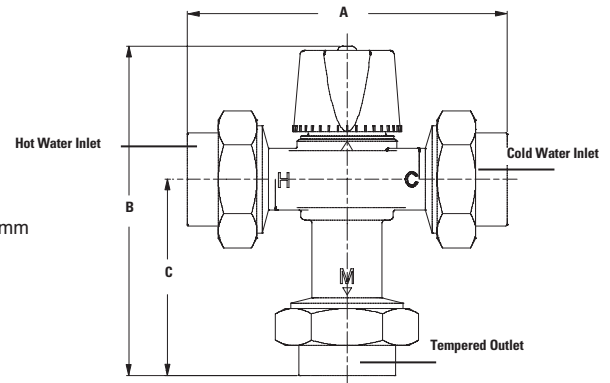
Ordering Information ■

Model LM49 ☐ – ☐☐☐
(80° - 120°F)
(27° - 49°C)

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

Inlets
Union NPT Female **1**
Union Sweat. **2**
Union CPVC **3**
Union PEX.. **4**
Quick-Connect. **5**

Checkstops (Pairs)*
None **0**
1/2" Straight, NPT *(LM495-I only)* .... **A**
1/2" Straight, Sweat *(LM495-I only)*. .... **C**
1/2" Angled, Sweat *(LM495-I 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 1016-96, ASSE 1069 and ASSE 1070 listed. Capacity of the valve shall be 12.0 gpm (45.0 lpm) at 45psi (310 kPa) differential. Valve shall perform to a minimum flow of 0.5 gpm (2 lpm) to ASSE 1016-96 and ASSE 1070. Control temperature shall be adjustable between 80°F - 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", 15mm), LM496 (3/4", 20mm), LM497 (1", 25mm). Any alternate must have a written approval prior to bidding.

ENGINEERING APPROVAL

Project:
Contractor:
Architect/Engineer:

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A Watts Water Technologies Company

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ISO 9001-2000 CERTIFIED

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