





Water Tempering Innovation Since 1891

description

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.



benefits features d an

Powers' Series LM495 under-the-counter thermostatic valves provide safe, tempered water delivery to fixture fittings, insuring user safety and minimizing owner liability.

- 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

• public restrooms

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 $131^{\circ}F$ (50°C). Ideal for low flow faucets in:

- schools

- hotels/motels
- healthcare facilities
- sports facilities correctional facilities
 office buildings

inside **u** a l i t y a n ÷ C q





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	I" NPT Female	1/2" Sweat	3/4" Sweat	l" Sweat	1/2" CPVC	3/4" CPVC	I" CPVC	I/2" PEX	3/4" PEX	I" 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 (144.0mm)	5.25 (133.4mm)	5.49 (139.5mm)	5.87 (149.1mm)
"В"	5.41	5.41	5.62	5.38	5.62	5.87	5.34	5.58	5.80	5.59	5.71	5.90
	(137.4mm)	(137.4mm)	(142.7mm)	(136.7mm)	(142.7mm)	(149.1mm)	(135.6mm)	(141.7mm)	(147.3mm)	(142.0mm)	(145.0mm)	(149.9mm)
"C"	3.16	3.16	3.37	3.13	3.37	3.62	3.09	3.33	3.55	3.34	3.46	3.65
	(80.2mm)	(80.2mm)	(85.6mm)	(79.5mm)	(85.6mm)	(91.9mm)	(78.5mm)	(84.6mm)	(90.2mm)	(84.8mm)	(87.9mm)	(92.7mm)



application diapgrams

With Single Faucets



With Single/Two Handle Faucets



s p e c i f i c a t i o n s product

Temperature Adjustment:

Model LM495

80° - 120° F (27° to 49° C)

LM495-1 LM496-1

1/9"

Female NPT

3/4"

Union Connections:

Capacity:

LM495-2 LM497-1 LM496-2 LM497-2 LM495-3 LM496-3 PRESSURE DROP ACROSS THE VALVE

Sweat

3/4″

1/2"

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	(CV) 1 psi	5 psi	10 psi	15 psi	20 psi	30 psi	45 psi	60 psi
	(7 kPa)	(34 kPa)	(69 kPa)	(103 kPa)	(138 kPa)	(207 kPa)	(310 kPa)	(414 kPa)
	1.79	4.0 gpm	5.7 gpm	7.0 gpm	8.0 gpm	9.8 gpm	12.0 gpm	13.9 gpm
L	1.77	(15 .0 lpm)	(22.0 lpm)	(26.0 lpm)	(30.0 lpm)	(37.0 lpm)	(45.0 lpm)	(53.0 lpm)

Approach Temperature: **Max. Operating Pressure:** Max. Hot Water Temperature: Minimum Flow:

10°F (5.6°C) above set point 150 psi (1034 kPa) 200°F (93°C) 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 Certifi			
Listing:	ASSE 1016 and A			

CPVC

3/4"

1/2"

ied ASSE 1070



PEX

3/4"

LM496-4

LM497-4

1/2"

LM495-4

LM497-3

order ho W 0



s p e c i f i c a t i o n typical

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.



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ENGINEERING APPROVAL

Project:

Contractor:

Architect/Engineer:

Form B LM495 v2 0522