

HYDROGUARD® Series LFLM495 Thermostatic Mixing Valves for Lavatory Installations

Product Specification

LEAD FREE*

Features ■

- Temperature control to ASSE 1069, 1070 and 1017 down to 0.5 gpm
- Advanced thermal actuator improves performance at low flow
- Lead Free* cast copper silicon alloy body construction for durability and to comply with Lead Free* requirements
- 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:

125psi (861 kPa)

Max. Hot Water Temperature:

200°F (93°C)

Check Valves:

Integral

Construction:

Lead Free* Cast copper silicon alloy body
ASSE 1069, ASSE 1070, ASSE 1017 and
IAPMO cUPC

Listing:

Max. Pressure Differential

between Hot & Cold Water Supplies:

25%

Minimum Flow:

0.5 gpm (1.90 lpm) when tested in accordance
with ASSE 1069, ASSE 1070 and ASSE1017

UNION CONNECTIONS														
Female NPT			Sweat			CPVC			PEX			Quick-Connect		
1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
(15)	(20)	(25)	(15)	(20)	(25)	(15)	(20)	(25)	(15)	(20)	(25)	(15)	(20)	(25)
LFLM495-1	LFLM496-1	LFLM497-1	LFLM495-2	LFLM496-2	LFLM497-2	LFLM495-3	LFLM496-3	LFLM497-3	LFLM495-4	LFLM496-4	LFLM497-4	LFLM495-5	LFLM496-5	LFLM497-5

Capacity ■

PRESSURE DROP ACROSS THE VALVE							
(C _v) 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)

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

⚠ WARNING

When used in an ASSE 1017 application at the hot water source, the Powers Thermostatic Mixing Valve Series LFLM495 cannot be used by itself to control final temperature at fixtures where ASSE Standard 1016 or ASSE Standard 1070 listed devices are required. Such use may result in severe bodily injury (i.e. scalding or chilling) and/or death. ASSE Standard 1016, ASSE 1069 or ASSE Standard 1070 listed devices, such as Powers Series LFe480 or LFLM495, should be used at point-of-use to prevent possible injury. Consult all product manuals, and instruction guides before installing any referenced product.

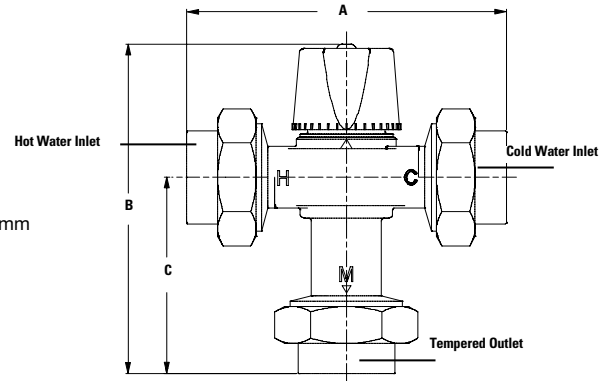
Recirculation systems should recirculate water at temperatures over 140°F to reduce the risk of bacterial growth in the piping. This valve should not be used at the hot water source in recirculation systems.

Dimensions ■

Model	LFLM495-1	LFLM496-1	LFLM497-1	LFLM495-2	LFLM496-2	LFLM497-2	LFLM495-3	LFLM496-3	LFLM497-3	LFLM495-4	LFLM496-4	LFLM497-4
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	LFLM495-5	LFLM496-5	LFLM497-5
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 $\pm 1/4"$
Dimensions in brackets are in mm



Ordering Information ■

Model LFLM49
(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

Typical Specification ■

Thermostatic tempering valve shall be constructed using Lead Free* cast copper silicon alloy material which shall comply with state codes and standards, where applicable requiring reduced lead content. 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 ASSE 1069, ASSE 1070, ASSE 1017 and IAPMO cUPC 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 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 LFLM495 (1/2", 15mm), LFLM496 (3/4", 20mm), LFLM497 (1", 25mm). Any alternate must have a written approval prior to bidding.

ENGINEERING APPROVAL

Project: _____
Contractor: _____
Architect/Engineer: _____

POWERS™

A Watts Water Technologies Company

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