

## Product Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## HYDROGUARD®

### Series LFLM495

#### Thermostatic Mixing Valves for Lavatory Installations

#### 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, CPVC union connections and w/press

#### 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)

**Max. Pressure Differential between**

**Hot & Cold Water Supplies:** 25%

**Minimum Flow:** 0.5 gpm (1.90 lpm) when tested in accordance with ASSE 1017-2003

**Check Valves:** Integral

**Construction:** Lead Free\* Cast copper silicon alloy body

**Listing:** ASSE 1069, ASSE 1070, ASSE 1017, IAPMO cUPC, and NSF372

**Viega Pro-Press™ connections are optional factory installed fitting on each end of the approved/certified assembly**

#### Capacity

Pressure Drop Across The Valve							
(C <sub>v</sub> ) 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.



#### UNION CONNECTIONS

Union Connection	Size	Model
Female NPT	1/2" (15)	LFLM495-1
	3/4" (20)	LFLM496-1
	1" (25)	LFLM497-1
Sweat	1/2" (15)	LFLM495-2
	3/4" (20)	LFLM496-2
	1" (25)	LFLM497-2
CPVC	1/2" (15)	LFLM495-3
	3/4" (20)	LFLM496-3
	1" (25)	LFLM497-3
PEX	1/2" (15)	LFLM495-4
	3/4" (20)	LFLM496-4
	1" (25)	LFLM497-4
Quick-Connect	1/2" (15)	LFLM495-5
	3/4" (20)	LFLM496-5
	1" (25)	LFLM497-5
w/Press	1/2" (15)	LFLM495-1 w/press
	3/4" (20)	LFLM496-1 w/press
	1" (25)	LFLM497-1 w/press

#### ⚠ 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.

#### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

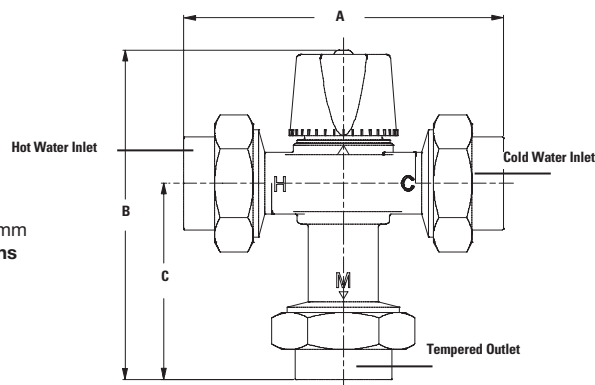
Powers product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Powers Technical Service. Powers reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Powers products previously or subsequently sold.

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A WATTS Brand

## 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  
**Consult factory for dimensions  
w/press**

## 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
w/press .....	1-w/press

## 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.

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