



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

Contractor \_\_\_\_\_

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

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

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

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# LEAD FREE\*

## LFLM496-HTK

### Hot Water Tank

#### Capacity Extender Thermostatic

#### Mixing Valve

#### Features

- Increases hot water capacity from the hot water tank by up to as much as 133% depending on storage and incoming cold water temperature
- Allows hot water tank to be set at higher temperature to minimize the occurrence of legionella and other water borne bacteria
- Temperature control to ASSE 1017 and ASSE 1070 down to 0.5 gpm
- Valve and key components conveniently packaged in one box
- Adjustable temperature selection with lock down
- Advance thermal actuator for precise control
- Integral checks and screens prevents cross-flow and contamination
- Includes thermostatic valve, corrugated stainless steel connector, tee and elbow
- Easy to order, easy to size, easy to install

#### Specifications

Temperature Adjustment .....	80 – 120°F (27 – 49°C)
Approach Temperature .....	5°F (3°C) above set point
Maximum Operating Pressure .....	125 psi (861 kPa)
Maximum Hot Water Temperature .....	200°F (93°C)
Cold Water Temperature Range .....	39 – 80°F (5 – 27°C)
Maximum Pressure Differential	
Between Hot and Cold Supplies .....	25%
Minimum Flow .....	0.5 gpm (1.90 lpm) when tested in accordance with ASSE 1017 & ASSE 1070
Flow at 45 psi pressure drop .....	13 gpm (49 lpm)
Listing (valve only) .....	ASSE 1017, ASSE 1070, IAPMO cUPC NSF372

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

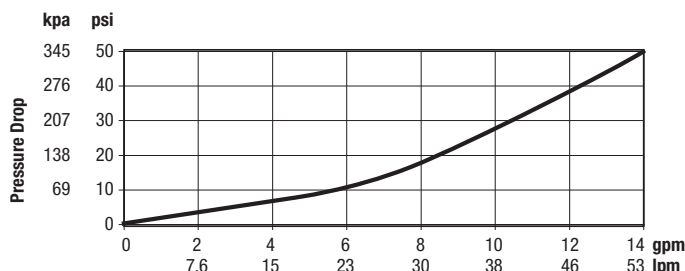
+ Thermostatic valve only



LFLM496-HTK



#### Capacity\*\*



Flow curves are for reference. Actual flows may vary depending on system temperatures and/or pressures.

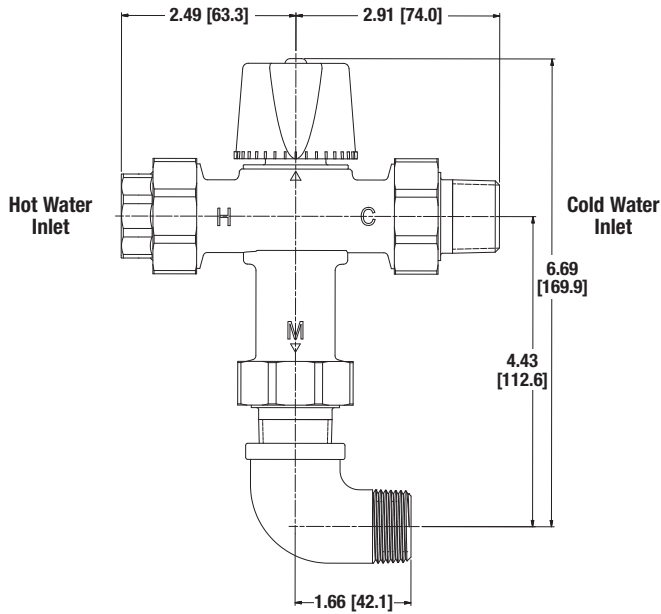
\*\*Flow curve with integral inlet filters and check valves

#### 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.

## Dimensions



## Ordering Information

¾ Inch inlets and outlet ..... LFLM496-HTK

## Typical Specification

Hot water tank capacity extender thermostatic mixing valve shall be constructed using Lead Free\* 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 connection 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 thermostatic mixing valve shall be ASSE 1070, ASSE 1017 and IAPMO cUPC listed. Capacity of the valve shall be 13.0 gpm (49 lpm) at 45 psi (310 kPa) differential. Valve shall perform to a minimum flow of 0.5 gpm (2 lpm) to ASSE 1070 and ASSE 1017. 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 hot water tank capacity extender shall be Powers' Model LFLM496-HTK. Any alternate must have a written approval prior to bidding.

## Typical Installation



Extending Hot Water Tank Capacity with the LFLM496-HTK Mixing Valve (Based on 40 gallon Water Heater)

INCOMING WATER TEMP. (°F)	STORAGE TEMP (°F)			
	120	140	160	180
		INCREASES CAPACITY BY:		
45	B A S E L I N E	27%	53%	80%
55		31%	62%	92%
65		36%	73%	109%
75		44%	89%	133%

# POWERS™

A WATTS Brand

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