

## For Non-Health Hazard Applications

Job Name _____	Contractor _____
Job Location _____	Approval _____
Engineer _____	Contractor's P.O. No. _____
Approval _____	Representative _____

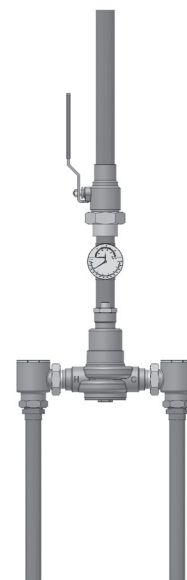
# LEAD FREE\*

## HydroGuard® XP Hi/Lo

### Master Tempering Valves

#### Supply Fixture Series LFSH1430

#### Bottom Inlets/Top Outlet — Exposed



Advanced Thermal Activation

### Features

- Features Lead Free\* construction to comply with Lead Free\* installation requirements.
- Paraffin-based advanced thermal actuation technology to sense and adjust outlet temperature
- Dirt and lime resistant poppet and seat design
- Virtual shutoff if supply pressure fails
- Vandal-resistant locking mechanism to secure temperature setting
- Factory tested valve and piping
- Rotatable union triple-duty checkstops with filters, dial-thermometer, ball valve
- Rough bronze and chrome finishes

### Specifications

Connections . . . . .	See chart on reverse
Maximum Hot Water Supply Temperature . . . . .	200°F (93°C)
Minimum Hot Water Supply Temperature** . . . . .	5°F (3°C) above set point
Minimum Flow*** . . . . .	0.5 gpm (1.9 lpm)
Maximum Operating Pressure . . . . .	125 psi (861 kPa)
Temperature Adjustment Range**** . . . . .	Standard 90 – 160°F (32 – 71°C) Low 60 – 90°F (16 – 32°C)
Hot Water Inlet Temperature Range . . . . .	120 – 180°F (49 – 82°C)
Cold Water Inlet Temperature Range . . . . .	40 – 80°F (4 – 27°C)
Listing/Compliance-Valve Only . . . . .	ASSE 1017, CSA B125

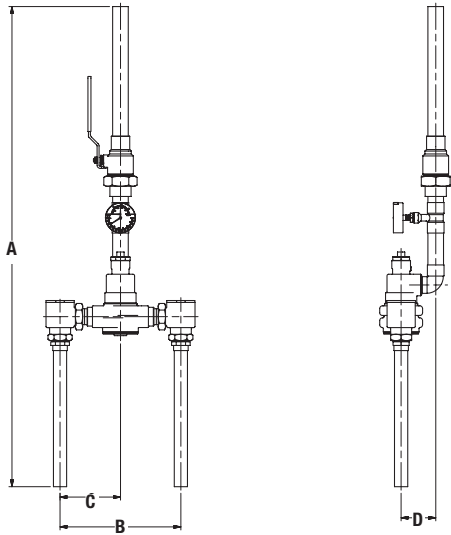
\* The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.  
 \*\* With equal pressure  
 \*\*\* Minimum flow when the valve is installed at or near hot water source w/recirculated tempered water with a properly sized continuously operating recirculating pump  
 \*\*\*\* Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.

### Capacity

Flow Capacity at 50-50 Mixed Ratio								
		Pressure Drop Across Valve						
Model	Min. Flow to ASSE 1017	Cv	5 psi (34 kPa)	10 psi (69 kPa)	20 psi (138 kPa)	30 psi (207 kPa)	45 psi (310 kPa)	60 psi (414 kPa)
LFSH1432	1 gpm	8.54	19 gpm	27 gpm	38 gpm	47 gpm	57 gpm	66 gpm
	4 lpm		72 lpm	102 lpm	144 lpm	178 lpm	216 lpm	250 lpm
LFSH1434	1 gpm	19.00	42 gpm	60 gpm	85 gpm	104 gpm	127 gpm	147 gpm
	4 lpm		159 lpm	227 lpm	322 lpm	394 lpm	481 lpm	556 lpm
LFSH1435	5 gpm	30.00	67 gpm	95 gpm	134 gpm	164 gpm	201 gpm	232 gpm
	19 lpm		254 lpm	360 lpm	507 lpm	621 lpm	761 lpm	878 lpm

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



Valve	A	B	C	D
LFSH1432	40"	9-1/8"	4-1/2"	2-3/4"
	(1016)	(232)	(114)	(70)
LFSH1434	50"	12-5/8"	6-1/4"	3-5/8"
	(1270)	(321)	(159)	(92)
LFSH1435	60-3/4"	15-5/8"	7-7/8"	4-1/4"
	(1543)	(397)	(200)	(108)

Note:  
Dimensions are shown ±1/2"  
Dimensions in parentheses  
are in mm

Valve	Inlets	Outlet
LFSH1432	3/4" (20)	1" (25)
LFSH1434	1-1/4" (32)	1-1/2" (40)
LFSH1435	2" (50)	2" (50)

## Ordering Information



### Valve

Valve	Order Code
57 gpm (216 lpm)	LFSH1432
127 gpm (481 lpm)	LFSH1434
201 gpm (761 lpm)	LFSH1435

### Finish

Finish	Order Code
Rough Bronze	A
Chrome Plated	C

### Piping Inlets/Outlet

Piping Inlets/Outlet	Order Code
Bottom/Top	E

### Cabinet Style

Cabinet Style	Order Code
None	M

### Alarm System

Alarm System	Order Code
None	0
Aqua Sentry® 2 Alarm	4

### Option

Option	Order Code
None	0
Cold Water Bypass	2
T/P Gauge on Inlets	4
C/W Bypass & T/P Gauge on Inlets	6

### Temperature Range

Temperature Range	Order Code
90°F – 160°F (32°C – 71°C)	S
60°F – 90°F (16°C – 32°C)	W

## Recirculation Piping Diagram

Please see Piping Diagram Section of this catalog.

## Typical Specification — Supply Fixtures

Supply Fixture shall be factory assembled and tested and feature a HydroGuard® XP LFSH1430 Series Single-Valve Hi/Lo with advanced, paraffin-based actuation technology. The valves shall be constructed using Lead Free\* brass. Lead Free\* brass valves shall comply with state codes and standards, where applicable, requiring reduced lead content. Supply Fixture shall also include copper piping, ball valve(s) and temperature/pressure gauge for diagnostics. The tempering valve shall have union check stops, an outlet temperature range of 90 – 160°F (32 – 71°C) (with lockable means), a single seat design for positive shutoff and an approach temperature of 5°F (3°C). Valve shall be ASSE 1017 listed and CSA certified. Minimum flows to ASSE 1017 shall be LFSH1432 (1.0 gpm, 4 lpm), LFSH1434 (1.0 gpm, 4 lpm), LFSH1435 (5.0 gpm, 19 lpm).

Valve shall be a Powers' model \_\_\_\_\_. All alternatives must have written approval prior to bidding.

# POWERS™

A WATTS Brand

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