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 Top Inlets/Top Outlet — Exposed

#### **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**









Advanced Thermal Activation

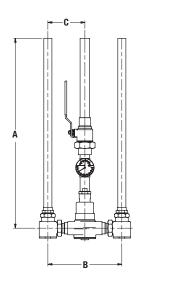
- \* The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.
  \*\* With equal pressure
- \*\*\* Minimum flow when the valve is installed at or near hot water source w/ recirculated tempered water with a properly sized 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 out to be the control of the

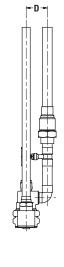
# Capacity

Flow Capacity at 50-50 Mixed Ratio								
		Pressure Drop Across Valve						
Model	Min. Flow	Cv	5 psi	10 psi	20 psi	30 psi	45 psi	60 psi
to ASSE 1017	to ASSE 1017	ΟV	(34 kPa)	(69 kPa)	(138 kPa)	(207 kPa)	(310 kPa)	(414 kPa)
1 ECU1 422	1 gpm	8.54	19 gpm	27 gpm	38 gpm	47 gpm	57 gpm	66 gpm
LFSH1432	4 lpm		72 lpm	102 lpm	144 lpm	178 lpm	216 lpm	250 lpm
1 ECU1 424	1 gpm	19.00	42 gpm	60 gpm	85 gpm	104 gpm	127 gpm	147 gpm
LFSH1434 4	4 lpm		159 lpm	227 lpm	322 lpm	394 lpm	481 lpm	556 lpm
LFSH1435 5 gpm 19 lpm	20.00	67 gpm	95 gpm	134 gpm	164 gpm	201 gpm	232 gpm	
	19 lpm	30.00	254 lpm	360 lpm	507 lpm	621 lpm	761 lpm	878 lpm



#### **Dimensions**



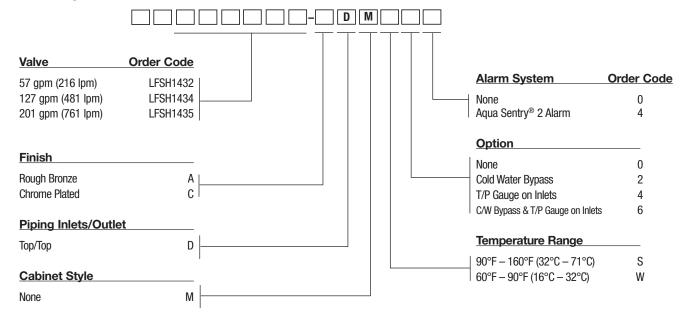


Valve	Α	В	C	D
LFSH1432	23"	9-1/8"	4-1/2"	2-¾"
	(584)	(232)	(114)	(70)
LFSH1434	32-1/4"	12-5/8"	6-1/4"	3-5/8"
	(819)	(321)	(159)	(92)
LFSH1435	38-1/8"	15-5/8"	7-7/8"	4-1/4"
	(968)	(397)	(200)	(108)

Note: Dimensions are shown ±½' Dimensions in parentheses are in mm

Valve	Inlets	Outlet
LFSH1432	<sup>3</sup> ⁄ <sub>4</sub> " (20)	1" (25)
LFSH1434	1-¼" (32)	1-½" (40)
LFSH1435	2" (50)	2" (50)

## **Ordering Information**



### 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  $90 - 160^{\circ}$ F ( $32 - 71^{\circ}$ C) (with lockable means), a single seat design for positive shutoff and an approach temperature of  $5^{\circ}$ F ( $3^{\circ}$ 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.



A **WATTS** Brand

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