Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

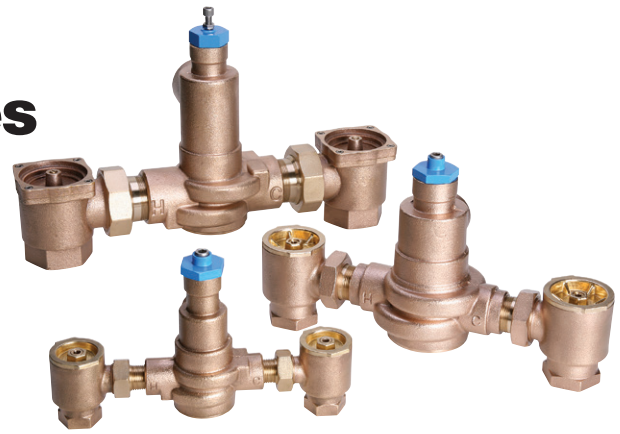
Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

HydroGuard® XP Hi/Lo Master Tempering Valves

Series LFSH1430



Advanced Thermal Activation

Features

- Lead Free* brass body and checkstops for durability and to comply with Lead Free* installation requirements.
- Valve utilizes paraffin-based advanced thermal actuation technology to sense and adjust outlet temperature
- Dirt and lime resistant poppet and seat design
- Tamper-resistant locking mechanism to secure temperature setting
- Factory tested
- Rotatable union triple-duty checkstops
- 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 – 200°F (49 – 93°C)
Cold Water Inlet Temperature Range . . . . . 40 – 80°F (4 – 27°C)

* The wetted surface of this product contacted by consumable water contains less than 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

Capacity

Flow Capacity at 50-50 Mixed Ratio									
			Pressure Drop Across Valve						
Model	Min. Flow to ASSE 1017	Cv	5psi (34 kPa)	10psi (69 kPa)	20psi (138 kPa)	30psi (207 kPa)	45psi (310 kPa)	60psi (414 kPa)	70psi (517 kPa)
LFSH1432	1 gpm 4 lpm	8.54	19 gpm 72 lpm	27 gpm 102 lpm	38 gpm 144 lpm	47 gpm 178 lpm	57 gpm 216 lpm	66 gpm 250 lpm	71 gpm 269 lpm
LFSH1434	1 gpm 4 lpm	19.00	42 gpm 159 lpm	60 gpm 227 lpm	85 gpm 322 lpm	104 gpm 394 lpm	127 gpm 481 lpm	147 gpm 556 lpm	159 gpm 602 lpm
LFSH1435	5 gpm 19 lpm	30.00	67 gpm 254 lpm	95 gpm 341 lpm	134 gpm 507 lpm	164 gpm 621 lpm	201 gpm 761 lpm	232 gpm 878 lpm	251 gpm 950 lpm

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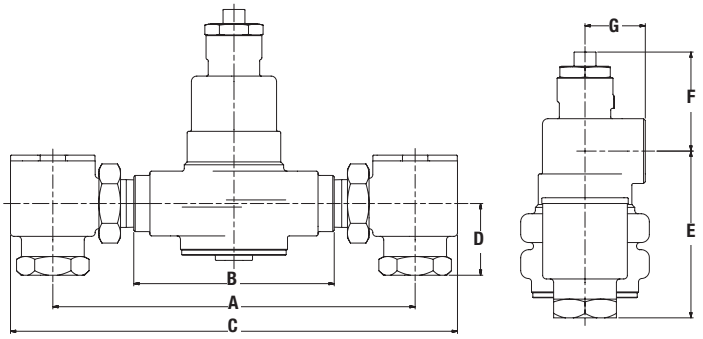
Dimensions



Valve	A	B	C	D	E	F	G
LFSH1432	9 7/16"	4 3/4"	11 5/8"	1 7/8"	4"	3 1/4"	1 5/8"
	(240)	(121)	(295)	(48)	(102)	(83)	(41)
LFSH1434	12 1/4"	7"	15 1/4"	2 1/2"	5 3/4"	3 1/2"	2 1/16"
	(311)	(178)	(387)	(64)	(146)	(89)	(52)
LFSH1435	15 5/8"	7 1/8"	19 1/4"	2 3/4"	7 7/8"	4 3/8"	2 3/8"
	(397)	(181)	(489)	(70)	(200)	(111)	(60)

Valve	Inlets NPT	Outlet NPT
LFSH1432	¾"	1"
LFSH1434	1-¼"	1-½"
LFSH1435	2"	2"

Note:
Dimensions are shown ±¼"
Dimensions in brackets are in mm.

Ordering Information

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Valve — **Order Code**

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

Finish/Temperature Range

Rough Bronze, Standard	1
Chrome Plated, Standard	2
Rough Bronze, Low	3
Chrome Plated, Low	4

Temperature/Pressure Gauge on Outlet

None	0
For LFSH1432, Rough Bronze	1
For LFSH1432, Chrome Plated	2
For LFSH1434, Rough Bronze	3
For LFSH1434, Chrome Plated	4
For LFSH1435, Rough Bronze	5
For LFSH1435, Chrome Plated	6

Recirculating Piping Diagram

Please see Piping Diagram Section of this Catalog.

Typical Specification

Single-valve Hi/Lo shall feature paraffin-based, thermal actuation technology for precise temperature control. Valve shall be listed to ASSE 1017 and CSA B125 and have an approach temperature of 5°F (3°C). Valve shall have an outlet temperature range from 90° – 160°F (32 – 71°C) with a lockable temperature-setting feature. Valve shall be constructed using Lead Free* brass material which shall comply with state codes and standards, where applicable, requiring reduced lead content and feature a single-seat design for positive shutoff. Valves shall come standard with union check stops. 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).

Single-valve Hi/Lo shall be of Powers Series LFSH1430. Any alternate must have a written approval prior to bidding.

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