

For Non-Health Hazard Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

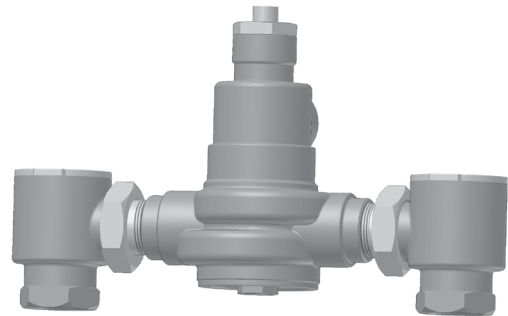
Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

HydroGuard® XP Hi/Lo Master Tempering Valves

Series SH1430



Advanced Thermal Activation

Features

- Valve utilizes 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
- 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 – 180°F (49 – 82°C)

Cold Water Inlet Temperature Range 40 – 80°F (4 – 27°C)

Listing/Compliance. ASSE 1017, CSA B125

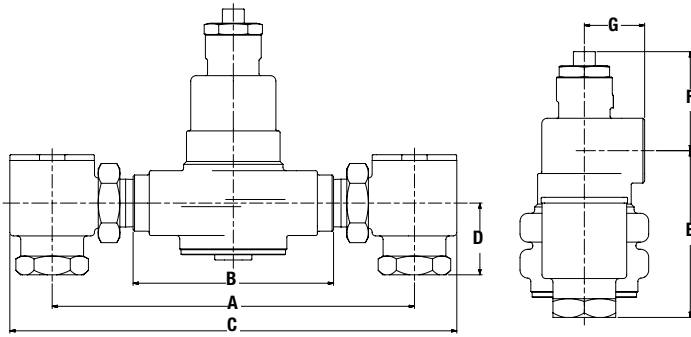
* With equal pressure
 ** Minimum flow when the valve is installed at or near hot water source w/recirculated tempered water with a properly sized continuously operating recirculating pump

Capacity

Flow Capacity at 50-50 Mixed Ratio									
		Pressure Drop Across Valve							
Model	Min. Flow to ASSE 1017	Cv	5 psi (34 kPa)	10 psi (69 kPa)	20 psi (138 kPa)	30 psi (207 kPa)	45 psi (310 kPa)	60 psi (414 kPa)	70 psi (517 kPa)
SH1432	1 gpm	8.54	19 gpm	27 gpm	38 gpm	47 gpm	57 gpm	66 gpm	71 gpm
	4 lpm		72 lpm	102 lpm	144 lpm	178 lpm	216 lpm	250 lpm	269 lpm
SH1434	1 gpm	19.00	42 gpm	60 gpm	85 gpm	104 gpm	127 gpm	147 gpm	159 gpm
	4 lpm		159 lpm	227 lpm	322 lpm	394 lpm	481 lpm	556 lpm	602 lpm
SH1435	5 gpm	30.00	67 gpm	95 gpm	134 gpm	164 gpm	201 gpm	232 gpm	251 gpm
	19 lpm		254 lpm	341 lpm	507 lpm	621 lpm	761 lpm	878 lpm	950 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

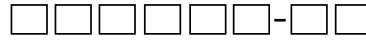


Valve	A	B	C	D	E	F	G
SH1432	9-1/8"	4-3/4"	11-3/8"	1-7/8"	4"	3-1/4"	1-5/8"
	(232)	(121)	(289)	(48)	(102)	(83)	(41)
SH1434	12-5/8"	7"	15-1/2"	2-1/2"	5-3/4"	3-1/2"	2-1/16"
	(321)	(178)	(394)	(64)	(146)	(89)	(52)
SH1435	15-5/8"	7-1/8"	19-1/4"	2-3/4"	7-7/8"	4-3/8"	2-3/8"
	(397)	(181)	(489)	(70)	(200)	(111)	(60)

Valve	Inlets NPT	Outlet NPT
SH1432	3/4"	1"
SH1434	1-1/4"	1-1/2"
SH1435	2"	2"

Note:
Dimensions are shown $\pm 1/4$ "
Dimensions in brackets are in mm.

Ordering Information



Valve Order Code

57 gpm (216 lpm)	SH1432
127 gpm (481 lpm)	SH1434
201 gpm (761 lpm)	SH1435

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 SH1432, Rough Bronze	1
For SH1432, Chrome Plated	2
For SH1434, Rough Bronze	3
For SH1434, Chrome Plated	4
For SH1435, Rough Bronze	5
For SH1435, Chrome Plated	6

Recirculation 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 manufactured of corrosion resistant materials and feature a single-seat design for positive shutoff. Valves shall come standard with union check stops. Minimum flows to ASSE 1017 shall be SH1432 (1.0 gpm) (4 Lpm), SH1434 (1.0 gpm) (4 Lpm), SH1435 (5.0 gpm) (19 Lpm). Single-valve Hi/Lo shall be of Powers Series SH1430. Any alternate must have a written approval prior to bidding.

POWERS™

A WATTS Brand

USA: Tel: (800) 669-5430 • Fax: (847) 229-0526 • PowersControls.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca
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