For Non-Health Hazard Applications

. No.

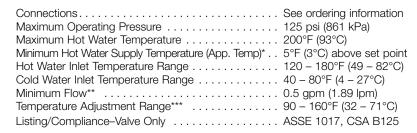
Single Valve PowerStation™ Supply Fixture

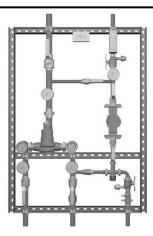
Capacity up to 208 gpm @ 45 psi

Features

- Paraffin-based advance 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
- Mounted on heavy-duty welded struts and factory tested as a complete unit
- Includes Pressure/Temperature Gauges, Ball valves
- Internal by-pass loop for quick & easy set-up

Specifications











Advanced Thermal Activation

*With equal pressure

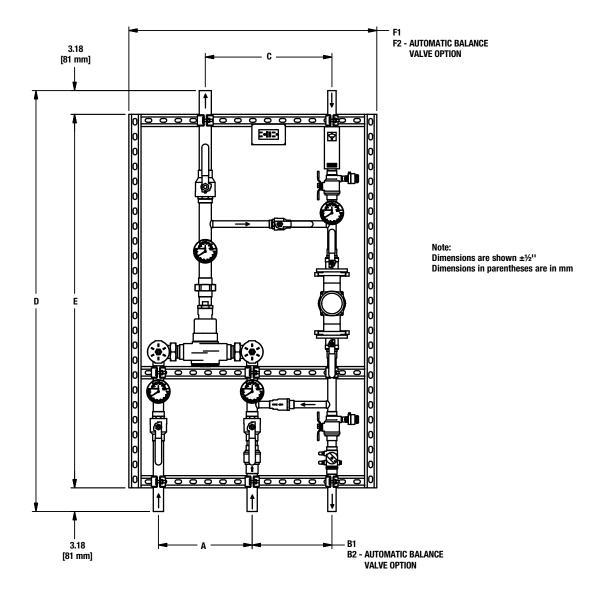
- **Minimum flow when HiLo valve is installed at or near hot water source recirculating tempered water with a properly sized continuously operating recirculating pump
- ***Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.

Capacity

	Flow Capacity at 50-50 Mixed Ratio								
		Pressure Drop Across Valve							
Model	Min. Flow	Cv	5 psi	10 psi	20 psi	30 psi	45 psi	60 psi	
	to ASSE 1017	ΟV	(34 kPa)	(69 kPa)	(138 kPa)	(207 kPa)	(310 kPa)	(414 kPa)	
MM431	3 gpm	6.32	14 gpm	20 gpm	28 gpm	35 gpm	42 gpm	49 gpm	
	11 lpm	0.32	53 lpm	76 lpm	106 lpm	132 lpm	159 lpm	185 lpm	
MM432	4 gpm	0.40	21 gpm	30 gpm	42 gpm	52 gpm	64 gpm	74 gpm	
	15 lpm	9.49	80 lpm	114 lpm	159 lpm	197 lpm	242 lpm	280 lpm	
MM433	5 gpm	16.44	37 gpm	52 gpm	74 gpm	90 gpm	110 gpm	127 gpm	
	19 lpm	16.44	140 lpm	197 lpm	280 lpm	341 lpm	416 lpm	481 lpm	
MM434	7 gpm	04.50	48 gpm	68 gpm	96 gpm	118 gpm	144 gpm	167 gpm	
	26 lpm	21.50	182 lpm	257 lpm	363 lpm	447 lpm	545 lpm	632 lpm	
MM435	10 gpm	31.00	69 gpm	98 gpm	139 gpm	170 gpm	208 gpm	240 gpm	
	38 lpm	31.00	261 lpm	371 lpm	526 lpm	644 lpm	787 lpm	908 lpm	
SH1432	1 gpm	0.54	19 gpm	27 gpm	38 gpm	47 gpm	57 gpm	66 gpm	
	4 lpm	8.54	72 lpm	102 lpm	144 lpm	178 lpm	216 lpm	250 lpm	
SH1434	1 gpm	10.00	42 gpm	60 gpm	85 gpm	104 gpm	127 gpm	147 gpm	
	4 lpm	19.00	159 lpm	227 lpm	322 lpm	394 lpm	481 lpm	556 lpm	
SH1435	5 gpm	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	Inlets	Outlets	Α	B1	B2	С	D	E	F1	F2
MM431	3/4"	3/4"	9-1/8"	9-¾"	13-¾"	14-%"	56-1/2"	50-1/8"	29-1/4"	33-1/4"
	20 mm	20 mm	233 mm	247 mm	348 mm	364 mm	1435 mm	1274 mm	744 mm	845 mm
MM432	3/4"	1"	9-1/8"	9-3/4"	13-¾"	14-%"	56-1/2"	50-1/8"	29-1/4"	33-1/4"
	20 mm	25 mm	233 mm	247 mm	348 mm	364 mm	1435 mm	1274 mm	744 mm	845 mm
MM433	1-1/4"	1-1/4"	12-1/2"	10-¾"	14-¾"	17"	56-1/2"	50-1/8"	33-1/4"	37-1⁄4"
	32 mm	32 mm	320 mm	272 mm	373 mm	432 mm	1435 mm	1274 mm	845 mm	947 mm
MM434	1-1/4"	1-1/2"	12-1/2"	10-¾"	14-¾"	17"	56-1/2"	50-1/8"	33-1/4"	37-1⁄4"
	32 mm	40 mm	320 mm	272 mm	373 mm	432 mm	1435 mm	1274 mm	845 mm	947 mm
MM435	2"	2"	15-%"	11-1/8"	15-1/8"	19"	59-1/4"	52-7/8"	39-1/4"	41-1⁄4"
	50 mm	50 mm	397 mm	283 mm	385 mm	483 mm	1504 mm	1342 mm	997 mm	1048 mm
SH1432	3/4"	1"	9-1/8"	9-¾"	13-¾"	14-%"	56-1/2"	50-1/8"	29-1/4"	33-1/4"
	20 mm	25 mm	233 mm	247 mm	348 mm	364 mm	1435 mm	1274 mm	744 mm	845 mm
SH1434	1-1/4"	1-1/2"	12-1⁄2"	10-¾"	14-¾"	17"	56-1/2"	50-1/8"	33-1/4"	37-1⁄4"
	32 mm	40 mm	320 mm	272 mm	373 mm	432 mm	1435 mm	1274 mm	845 mm	947 mm
SH1435	2"	2"	15-%"	11-1/8"	15-1/8"	19"	59-1/4"	52-7/8"	39-1/4"	41-1⁄4"
	50 mm	50 mm	397 mm	283 mm	385 mm	483 mm	1504 mm	1342 mm	997 mm	1048 mm

Ordering Information

				PS	
<u>Valve</u>	Inlets (in)	Outlet (in)	Order Code		
SH1432	3/4 (20mm)	1 (25mm)	Α		
SH1434	1 ¼ (32mm)	1 ½ (40mm)	В		
SH1435	2 (50mm)	2 (50mm)	N		
MM431	3⁄4 (20mm)	3/4 (20mm)	С		
MM432	3/4 (20mm)	1 (25mm)	D		
MM433	1 ¼ (32mm)	1 ¼ (32mm)	Е		
MM434	1 ¼ (32mm)	1 ½ (40mm)	F		
MM435	2 (50mm)	2 (50mm)	G		
Controls					
None			0		
Aquastat			Ā		
AquaSentry® 2)		В		
Aquastat & Aq			C		
	-		U		
<u>Balancing</u>	<u>Valve</u>				
None			0		
Circuit Setter			Α		
Automatic Bal	ancing Valve		В		
	& Automatic Balancing	Valve	С		
Return Pip	e Size				
1/2"			Α		
3/4"			В		
1"			С		
1-1/4"			D		
1-1/2"			E		
2"			F		
Assigned I	oy Factory				
Pump Info	rmation:				
Pump Manufa	cturer:		_		
Their Part #* _					

^{*} If the pump is not selected or if you are using Automatic Balancing Valve (ABV) you must provide the following:

System Head Loss ______

Required Flow to Maintain Recirculating Temperature ______

Recirculation Piping Diagram

Please see Piping Diagram Section of this catalog.

Typical Specification

Water temperature control system should include a thermostatic mixing valve capable of maintaining water temperature to 5°F (3°C) above set point within the range of 90°F to 160°F (32 to 71°C). Valve must compensate for temperature fluctuation due to inlet temperature or pressure changes. Valve should be of bronze body with triple-duty checkstops and must have an advanced, paraffin-based thermal actuator in order to guarantee a precise control when tested in accordance with ASSE 1017 and CSA B125.

Control system should be mounted on a heavy-duty welded strut with corrosion resistance coating and factory tested as a complete unit. System should include an internal bypass loop for fast and easy set up. It should also include GFCI protection engineer specified circulator and combination temperature/pressure gauges. The system should feature optional Aquastat and Automatic Balancing valve to maintain system balance.

The control system shall be a Power's PowerStation™ series PS. Any alternate must have a written approval prior to bidding.



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