For Non-Health Hazard Applications

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

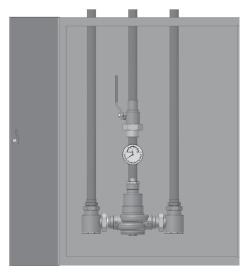
HydroGuard® XP Master Tempering Valves Supply Fixture

Series MM430 Top Inlets/Top Outlet – Recessed Cabinet

Features

- 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
- Stainless steel or white painted cabinets
- · 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

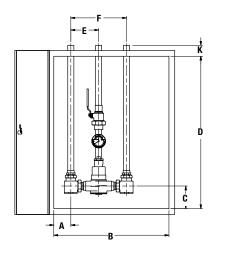
- *With equal pressure
- **Minimum flow when the valve is installed at or near hot water source w/ recirculated tempered water with a properly sized continuously operating recirculating pump
- ***Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at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

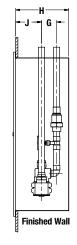
Capacity

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)
MM431	3 gpm 11 lpm	6.32	14 gpm 53 lpm	20 gpm 76 lpm	28 gpm 106 lpm	35 gpm 132 lpm	42 gpm 159 lpm	49 gpm 185 lpm
MM432	4 gpm 15 lpm	9.49	21 gpm 80 lpm	30 gpm 114 lpm	42 gpm 159 lpm	52 gpm 197 lpm	64 gpm 242 lpm	74 gpm 280 lpm
MM433	5 gpm 19 lpm	16.44	37 gpm 140 lpm	52 gpm 197 lpm	74 gpm 280 lpm	90 gpm 341 lpm	110 gpm 416 lpm	127 gpm 481 lpm
MM434	7 gpm 26 lpm	21.50	48 gpm 182 lpm	68 gpm 257 lpm	96 gpm 363 lpm	118 gpm 447 lpm	144 gpm 545 lpm	167 gpm 632 lpm
MM435	10 gpm 38 lpm	31.00	69 gpm 261 lpm	98 gpm 371 lpm	139 gpm 526 lpm	170 gpm 644 lpm	208 gpm 787 lpm	240 gpm 908 lpm



Dimensions



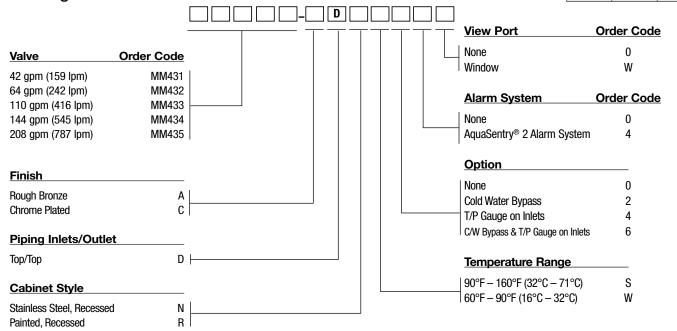


Valve	Α	В	C	D	E	F	G	Н	J	K
MM431	3-7/8"	20"	4-¾"	26"	4-%"	9-1/4"	2-%"	9"	4-1/2"	2"
	(98)	(508)	(121)	(660)	(117)	(235)	(67)	(229)	(114)	(51)
MM432	3-7/8"	20"	4-3/4"	26"	4-%"	9-1/4"	2-¾"	9"	4-1/2"	2"
IVIIVI432	(98)	(508)	(121)	(660)	(117)	(235)	(70)	(229)	(114)	(51)
MMAAAA	3-7/8"	26"	4-3/4"	34-1/2"	6-1/4"	12-1/2"	3-%"	12"	5-7/8"	2-1/2"
MM433	(98)	(660)	(120)	(876)	(159)	(318)	(86)	(305)	(149)	(64)
MMAGA	3-7/8"	26"	4-3/4"	34-1/2"	6-1/4"	12-1/2"	3-5%"	12"	5-7/8"	2-1/2"
MM434	(98)	(660)	(120)	(876)	(159)	(318)	(92)	(305)	(149)	(64)
MM435	4-1/2"	32"	6-3/8"	42"	7-7/8"	15-%"	4-1/4"	13"	6"	2-1/2"
	(114)	(813)	(162)	(1067)	(200)	(397)	(108)	(330)	(152)	(64)

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

Valve	Inlets	Outlet		
MM431	³ / ₄ " (20)	³ ⁄ ₄ " (20)		
MM432	³ / ₄ " (20)	1" (25)		
MM433	1-¼" (32)	1-¼" (32)		
MM434	1-¼" (32)	1-½" (40)		
MM435	2" (50)	2" (50)		

Ordering Information



Recirculation Piping Diagram

Please see Piping Diagram Section of this catalog.

Typical Specification — Supply Fixtures (MM)

Cabinet Supply Fixture (CSF) shall be factory assembled and tested and include a stainless steel or painted steel cabinet. CSF shall feature a HydroGuard® XP MM430 series master-tempering valve with advanced paraffin-based actuation technology. CSF shall also include copper piping, ball valve(s) and temperature/pressure gauge for diagnostics. The tempering valve shall have union checkstops, 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 MM431 (3.0 gpm, 11 lpm), MM432 (4.0 gpm, 15 lpm), MM433 (5.0 gpm, 19 lpm), MM434 (7.0 gpm, 26 lpm), MM435 (10.0 gpm, 38 lpm).

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



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Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca

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