

HYDROGUARD® XP Master Tempering Valves Supply Fixture Series MM430 Bottom Inlets/Side Outlet – Recessed Cabinet

Product Specification

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 ■

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 125psi (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–Valve Only..... ASSE 1017, CSA B125

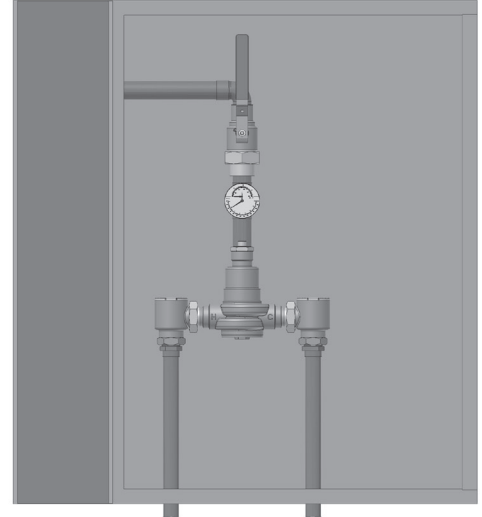
**With equal pressure*

***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*

****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.*

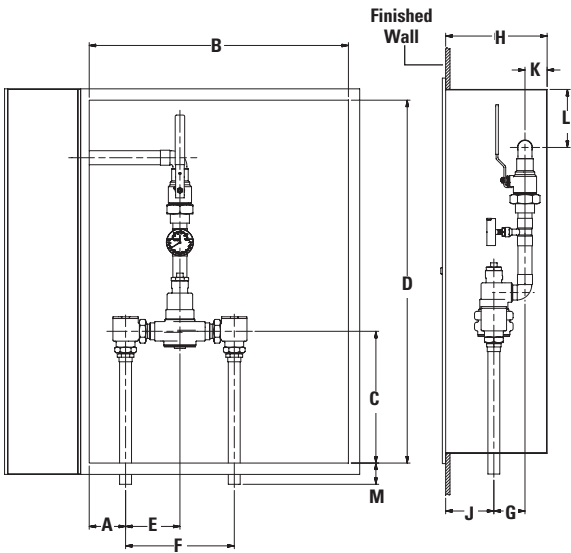
Capacity ■

| Flow Capacity at 50-50 Mixed Ratio | | | | | | | | |
|------------------------------------|------------------------|----------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| | | Pressure Drop Across Valve | | | | | | |
| Model | Min. Flow to ASSE 1017 | Cv | 5psi (34 kPa) | 10psi (69 kPa) | 20psi (138 kPa) | 30psi (207 kPa) | 45psi (310 kPa) | 60psi (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 |



Advanced Thermal Activation

Dimensions ■



| Valve | A | B | C | D | E | F | G | H | J | K | L | M |
|-------|--------|-------|---------|--------|--------|---------|--------|-------|--------|--------|--------|--------|
| MM431 | 4-3/8" | 22" | 14-3/4" | 33" | 4-5/8" | 9-1/4" | 2-5/8" | 9" | 4-1/2" | 1-7/8" | 2" | 2" |
| | (111) | (559) | (375) | (838) | (117) | (235) | (67) | (229) | (114) | (48) | (51) | (51) |
| MM432 | 4-3/8" | 22" | 14-3/4" | 33" | 4-5/8" | 9-1/4" | 2-3/4" | 9" | 4-1/2" | 1-3/4" | 1-5/8" | 2" |
| | (111) | (559) | (375) | (838) | (117) | (235) | (70) | (229) | (114) | (44) | (41) | (51) |
| MM433 | 3-5/8" | 29" | 15-1/8" | 42" | 6-1/4" | 12-1/2" | 3-3/8" | 12" | 5-7/8" | 2-3/4" | 6-7/8" | 2-1/2" |
| | (62) | (737) | (384) | (1067) | (159) | (318) | (86) | (305) | (149) | (70) | (175) | (64) |
| MM434 | 3-5/8" | 29" | 15-1/8" | 42" | 6-1/4" | 12-1/2" | 3-5/8" | 12" | 5-7/8" | 2-1/2" | 6-1/4" | 2-1/2" |
| | (62) | (737) | (384) | (1067) | (159) | (318) | (92) | (305) | (149) | (64) | (159) | (64) |
| MM435 | 4-3/4" | 38" | 20-1/8" | 52" | 7-7/8" | 15-3/4" | 4-1/4" | 13" | 6" | 2-3/4" | 6-1/4" | 2-1/2" |
| | (121) | (965) | (511) | (1321) | (200) | (400) | (108) | (330) | (152) | (70) | (159) | (64) |

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

Note:
Dimensions are shown ±1/2"
Dimensions in parentheses are in mm

Ordering Information ■ ■



| Valve | Order Code |
|-------------------|------------|
| 42 gpm (159 lpm) | MM431 |
| 64 gpm (242 lpm) | MM432 |
| 110 gpm (416 lpm) | MM433 |
| 144 gpm (545 lpm) | MM434 |
| 208 gpm (787 lpm) | MM435 |

| Finish | Order Code |
|---------------|------------|
| Rough Bronze | A |
| Chrome Plated | C |

| Piping Inlets/Outlets | Order Code |
|-----------------------|------------|
| Bottom/Side | G |

| Cabinet Style | Order Code |
|---------------------------|------------|
| Stainless Steel, Recessed | N |
| Painted, Recessed | R |

View Port

| | |
|--------|---|
| None | 0 |
| Window | W |

Alarm System

| Order Code | |
|----------------------------|---|
| None | 0 |
| AquaSentry® 2 Alarm System | 4 |

Option

| | |
|----------------------------------|---|
| None | 0 |
| Cold Water Bypass | 2 |
| T/P Gauge on Inlets | 4 |
| C/W Bypass & T/P Gauge on Inlets | 6 |

Temperature Range

| | |
|----------------------------|---|
| 90°F - 160°F (32°C - 71°C) | S |
| 60°F - 90°F (16°C - 32°C) | W |

Recirculation Piping Diagram

Please see Piping Diagram Section of this catalog.

Typical Specification - Supply Fixtures ■

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.

POWERS™

A Watts Water Technologies Company

ENGINEERING APPROVAL

Project: _____
Contractor: _____
Architect/Engineer: _____



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