

For Non-Health Hazard Applications

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

HydroGuard® XP Series

Emergency Tempering Valves Supply Fixtures

Bottom Inlets/Top Outlet Exposed

Features

- Powers' Advanced Thermal Actuator provides precise temperature control
- Exclusive internal cold water bypass ensures cold water flow in the event of loss of hot water
- Flow effectively shuts down upon loss of cold water supply when tested under the condition specified in ASSE 1071 standard
- Vandal-resistant locking mechanism to secure temperature setting
- Factory tested
- Rotatable union triple-duty checkstops
- Rough bronze and chrome finishes

Patent Pending

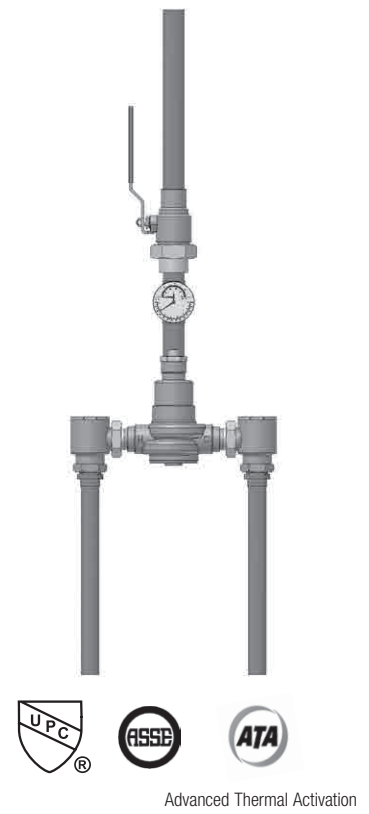
Specifications

| | |
|---------------------------------------|-------------------------|
| Connections | See on the back |
| Maximum Operating Pressure | 125 psi (861 kPa) |
| Maximum Hot Water Temperature | 180°F (82°C) |
| Temperature Adjustment Range | 60 – 95°F (15 – 35°C) |
| Factory Set Temperature* | 85°F (29°C) |
| Bypass Flow Rate at 30 psid* | |
| ETV200 | 30 gpm (114 lpm) |
| ETV400 | 50 gpm (189 lpm) |
| ETV500 | 81 gpm (307 lpm) |
| Maximum flow with cold water shutoff* | 0.5 gpm (1.9 lpm) |
| Listing | ASSE 1071 and IAPMO UPC |

*When tested under conditions specified in ASSE 1071 Standard

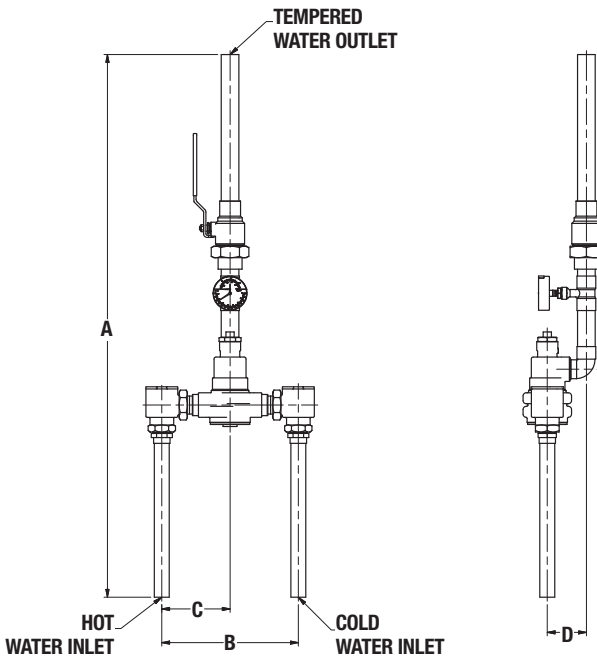
Capacity

| Flow Capacity at 85°F (29.4°C) | | | | | | | | | |
|--------------------------------|---------------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| | | Pressure Drop Across Valve | | | | | | | |
| Model | Min. Flow Rate | C _v | 5 psi (34 kPa) | 10 psi (69 kPa) | 15 psi (103 kPa) | 20 psi (138 kPa) | 30 psi (207 kPa) | 45 psi (310 kPa) | 60 psi (414 kPa) |
| ETV200 | 3.0 gpm 11.4 lpm | 6 | 13.4 gpm 50.7 lpm | 19.0 gpm 71.9 lpm | 23.2 gpm 87.8 lpm | 26.8 gpm 101.4 lpm | 32.9 gpm 124.5 lpm | 40.2 gpm 152.2 lpm | 46.5 gpm 176.0 lpm |
| ETV400 | 3.0 gpm 11.4 lpm | 15.2 | 34.0 gpm 128.7 lpm | 48.1 gpm 182.0 lpm | 58.9 gpm 223.0 lpm | 68.0 gpm 257.4 lpm | 83.2 gpm 315.0 lpm | 102.0 gpm 386.1 lpm | 118.0 gpm 446.7 lpm |
| ETV500 | 3.0 gpm 11.4 lpm | 21.8 | 48.7 gpm 184.3 lpm | 68.9 gpm 260.8 lpm | 84.4 gpm 319.5 lpm | 97.5 gpm 369.1 lpm | 119.4 gpm 452.0 lpm | 146.2 gpm 553.4 lpm | 168.9 gpm 639.4 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 | Inlets | Outlets | A | B | C | D |
|--------|------------------|------------------|-----------------|----------------|---------------|---------------|
| ETV200 | ¾" NPT (20) | 1" NPT (25) | 40 (1016) | 9-½" (232) | 4-½" (114) | 2-¾" (70) |
| ETV400 | 1-¼" NPT (32) | 1-½" NPT (40) | 50 (1270) | 12-⅝" (321) | 6-¼" (159) | 3-⅝" (92) |
| ETV500 | 2" NPT (50) | 2" NPT (50) | 60-¾" (1543) | 15-⅝" (397) | 7-⅞" (200) | 4-¼" (108) |

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

Ordering Information

| Valve | Order Code |
|--|------------|
| 32.9 gpm (124.5 lpm) @ 30 psi (207 kPa) | ETV200 |
| 83.2 gpm (315.0 lpm) @ 30 psi (207 kPa) | ETV400 |
| 119.4 gpm (452.0 lpm) @ 30 psi (207 kPa) | ETV500 |
| Finish | |
| Rough Bronze | A |
| Chrome Plated | B |
| Piping Inlets/Outlet | |
| Bottom/Top | E |
| Cabinet Style | |
| None | 0 |
| Options | |
| None | 0 |
| T/P Gauge on Inlets | 5 |
| Alarm System | |
| None | 0 |
| AquaSentry2® | 4 |

Recirculation Piping Diagram

Please see Piping Diagram Section of this catalog.

Typical Specification

Supply Fixture for supplying tepid water to emergency fixtures shall be factory assembled and tested. Thermostatic mixing valve must have internal cold-water bypass system to ensure flow in the event of valve failure or loss of hot water supply. Supply fixture also includes copper piping, ball valve(s) and temperature/pressure gauge for diagnostics. The valve shall be listed to ASSE 1071 and IAPMO UPC, provide precise temperature control over a wide range of flow conditions, and effectively shut down on loss of cold water. The valve shall feature paraffin-based actuation technology and checkstops to prevent cross flow. The valve shall be factory set to 85°F (29°C) with a lockable mean of securing the temperature.

The valve shall be Powers' model ETV200 _____, ETV400 _____, or ETV500 _____ All alternatives must have written approval prior to bidding

POWERS™

A WATTS Brand

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