

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

HydroGuard® XP Series

Emergency Tempering Valve

with Cold Water Bypass

Features

- Powers' Advanced Thermal Actuators provide 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)

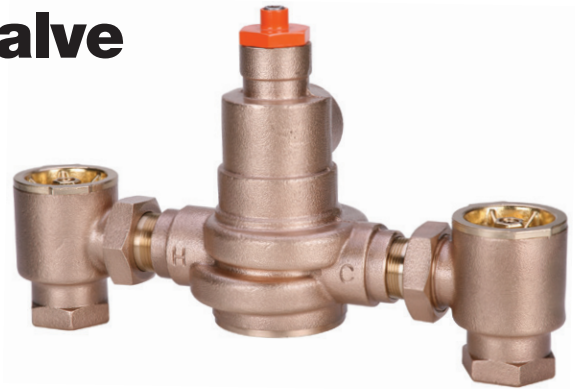
ETV400 50 gpm (189 lpm)

ETV500 81 gpm (307 lpm)

Maximum Flow with Cold Water Shutoff* 0.5 gpm (1.9 lpm)

Listing ASSE 1071

* When tested under conditions specified in ASSE 1071 Standard



Advanced Thermal Activation

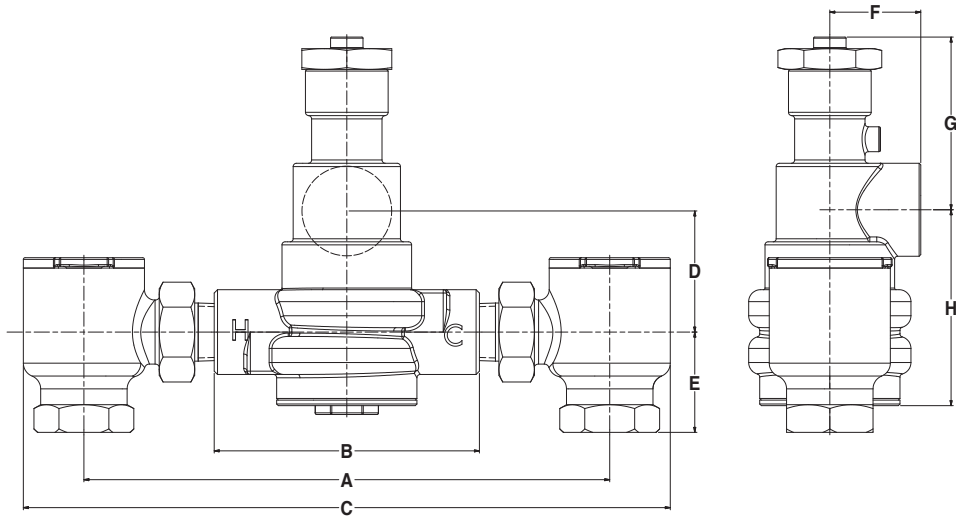
Capacity

Flow Capacity at 85°F (29.4°C)									
Pressure Drop Across Valve									
Model	Min. Flow Rate	C _v	5psi (34 kPa)	10psi (69 kPa)	15psi (103 kPa)	20psi (138 kPa)	30psi (207 kPa)	45psi (310 kPa)	60psi (414 kPa)
ETV200	3.0 gpm	6	13.4 gpm	19.0 gpm	23.2 gpm	26.8 gpm	32.9 gpm	40.2 gpm	46.5 gpm
	11.4 lpm		50.7 lpm	71.9 lpm	87.8 lpm	101.4 lpm	124.5 lpm	152.2 lpm	176.0 lpm
ETV400	3.0 gpm	15.2	34.0 gpm	48.1 gpm	58.9 gpm	68.0 gpm	83.2 gpm	102.0 gpm	118.0 gpm
	11.4 lpm		128.7 lpm	182.0 lpm	223.0 lpm	257.4 lpm	315.0 lpm	386.1 lpm	446.7 lpm
ETV500	3.0 gpm	21.8	48.7 gpm	68.9 gpm	84.4 gpm	97.5 gpm	119.4 gpm	146.2 gpm	168.9 gpm
	11.4 lpm		184.3 lpm	260.8 lpm	319.5 lpm	369.1 lpm	452.0 lpm	553.4 lpm	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.

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Dimensions



Model	NPT Inlets	NPT Outlet	A	B	C	D	E	F	G	H
ETV200	3/4"	1"	9 7/16"	4 13/16"	11 5/8"	2 3/16"	1 13/16"	1 5/8"	3 1/8"	3 1/2"
			(240)	(122)	(295)	(56)	(46)	(42)	(79)	(90)
ETV400	1-1/4"	1 1/2"	12 1/4"	7"	15 1/4"	3 1/4"	2 1/2"	2 1/16"	3 7/16"	5 1/16"
			(311)	(178)	(387)	(83)	(64)	(52)	(87)	(132)
ETV500	2"	2"	15 5/8"	7 7/8"	19 1/4"	5 1/16"	2 3/4"	2 3/8"	3 3/4"	6 7/8"
			(397)	(181)	(489)	(129)	(70)	(60)	(95)	(175)

Note:
Dimensions are shown ±1/4"
Dimensions in parentheses are in mm

Ordering Information



Valve

Valve	Order Code
32.9 gpm (124 lpm)	ETV200
83.2 gpm (315 lpm)	ETV400
119.4 gpm (452 lpm)	ETV500

Finish

Rough Bronze	1
Chrome Plated	2

Temperature/Pressure Gauge on Outlet

None	0
For ETV200 rough bronze	3
For ETV200 chrome plated	4
For ETV400 rough bronze	5
For ETV400 chrome plated	6
For ETV500 rough bronze	7
For ETV500 chrome plated	8

Recirculating Piping Diagram

Please see Piping Diagram Section of the Powers Full Line Catalog.

Typical Specification

Thermostatic mixing valve for supplying tepid water to emergency fixtures shall feature internal cold-water bypass system to ensure flow in the event of valve failure or loss of hot water supply. The valve shall be listed to ASSE 1071, provide precise temperature control over a wide range of flow conditions, and effectively shut down on loss of cold water. The valve shall feature powerful paraffin-based actuation technology and checkstops to prevent cross flow. The valve shall be factory set to 85°F (29°C) with a lockable means of securing the temperature.

The valve shall be Powers' model ETV200 ___, ETV400 ___, or ETV500 ___.

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