For Non-Health Hazard Applications

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

HydroGuard® Series e420

Under-the-Counter Thermostatic Tempering Valve

Description

Hydroguard Series e420 Under-the-Counter thermostatic tempering valves are designed for all applications where the temperature of generated hot water must be controlled for safe, economic use. A powerful advanced thermal actuator quickly senses and compensates for temperature fluctuations induced by water temperature and pressure changes in the supply line.

Rugged construction features cast brass body and corrosion-resistant internal components for years of dependable, trouble-free service. Hex socket makes temperature adjustment quick and easy.

For restricted access control, the Series e420 valve can be housed in a stainless-steel or white baked enamel steel cabinet and can be packaged with solenoid valve(s), checkstops or other accessories common to Powers' cabinet supply offering.







Advanced Thermal Activation

Specifications

Connections½	" (15mm) NPT Inlets
an	nd ½" (15mm) NPT Top Outlet
Capacity (without checkstops)4.	25 gpm (16.0 L/min)*
(±1	:0.25 gpm [0.95 L/min])
Maximum Hot Water Supply Temperature 19	90°F (88°C)
Minimum Hot Water Supply Temperature 10	0°F (6°C) above set point**
Maximum Operating Pressure	25 psi (862 kPa)
Temperature Ranges:	
Standard 65	5–115°F (18–46°C)
Low	0–90°F (4–32°C)
High12	20–175°F (49–79°C)
Maximum Static Pressure12	25 psi (862 kPa)
Minimum Flow:	0 gpm (7.6 L/min)
Listing AS	SSE 1070
Shipping Weight	lbs. (2.3 kg)

^{*} At 45 psi differential (310 kPa), with hot water supply between 140°-180°F (60-82°C) and 50/50 mix. **(not applicable to low temperature hot water valves)

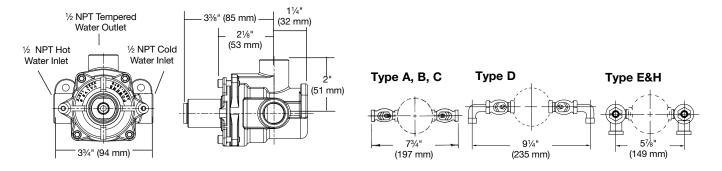
Capacity - Table 1

Flow Capacity at 50-50 Mixed Ratio									
Pressure Drop Across Valve									
CV	5 psi	10 psi	20 psi	30 psi	45 psi	60 psi			
	34 kPa	69 kPa	138 kPa	207 kPa	310 kPa	414 kPa			
0.63	1.40 gpm 5.3 lpm	2.00 gpm 7.6 lpm	2.82 gpm 10.7 lpm	3.45 gpm 13.1 lpm	4.25 gpm 16.1 lpm	4.88 gpm 18.5 lpm			

Warning: It is strongly recommended that checkstops be installed with this valve even when a downstream shutoff is used.

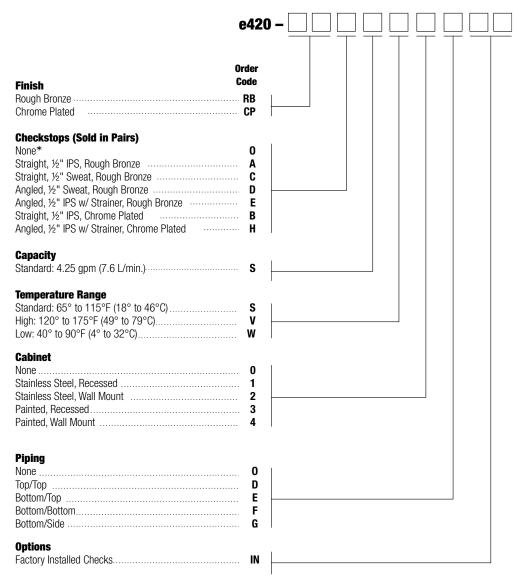


Dimensions



Ordering Information

Series e420 Under-the-Counter Valves



^{*} It is strongly recommended that checkstops be installed with this valve when downstream shutoff is used.



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