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

HydroGuard® Series e420

Thermostatic Mixing Valves e427 (Concealed)/ e428 (Exposed)

Description

The Series e427 and e428 HydroGuard® valves automatically mix hot and cold water to deliver blended water at any desired temperature within a specified range. The assembly contains an advanced thermal actuator which maintains the selected water temperature within rigid tolerances despite temperature and pressure fluctuations in the water supply.

Construction features include a built-in shutoff valve for delivery water, a poppet type mixing valve, a concealed adjustment for raising and lowering the temperature range, and corrosion resistant parts.

The Series e427/e428 HydroGuard $^{\odot}$ is simply constructed. All parts are accessible from the front, to facilitate cleaning and maintenance.

The Series e427/e428 HydroGuard® is preferred for a wide variety of applications because of its accuracy, reliability, and economy of water and energy. It is chiefly used in showers, baths, hospital hydrotherapy and residential areas, where precise, consistent water temperature is required.



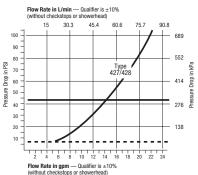
Specifications

Maximum Hot Water Supply Temperature	. 190°F (88°C)
Minimum Hot Water Supply Temperature	. 10°F (6°C) Above Set Point
Maximum Operating Pressure	. 125 psi (861 kPa)
Temperature Range (standard)	.90 – 110°F (32 – 43°C)
(low temperature)	. 60 – 100°F (16 – 38°C)
(high temperature)	
Connections	. ½" NPT
Capacity	. 14 gpm* (.90 l/s)
Minimum Flow	
Maximum Static Pressure	. 125 psi (861 kPa)
Finish	. Chrome Plated on e428,
	Rough Bronze on e427
Listing	. ASSE 1016, IAPMO UPC
Approved Standard	. ASSE 1016, CSA B125.1
Shopping Weight	. 6 lbs.

All HydroGuard® Series e420 thermostatic mixing valves meet above performance specifications based on typical operating conditions as stated in ASSE 1016 (45 psi pressure differential, hot water supply between $140^{\circ}-180^{\circ}F$ [$60-82^{\circ}C$], cold water supply less than $70^{\circ}F$ [$21^{\circ}C$]).

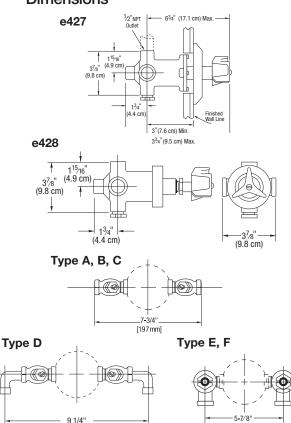
If your operating conditions vary from those stated in the standard, performance may vary as well. Consult your local sales representative or a Powers factory engineer to discuss your specific application.

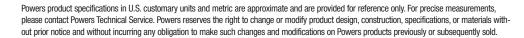
Flow Rate Curves & Checkstops



Dimensions

[235 cm]



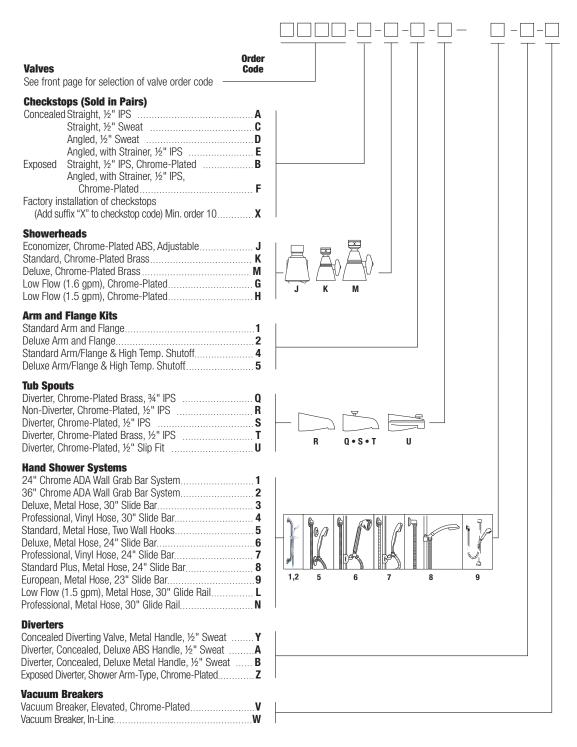




[149mm]

^{*} At 45psi differential [310 kPa], with hot water supply between 140°-180°F [60-82°C].

How To Specify: Type e427 & e428 Valves for Shower or Tub Systems



Note:

For Shower OR Bath only application. Not suitable for Combination Bath & Shower application. If application requires tub spout and shower head/hand shower, choose an e420 or e700 series valve.



A WATTS Brand