

**HydroGuard® Series e420 - Thermostatic Mixing Valves
e427 (Concealed)/e428 (Exposed)**

Product Specification

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® 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 ■

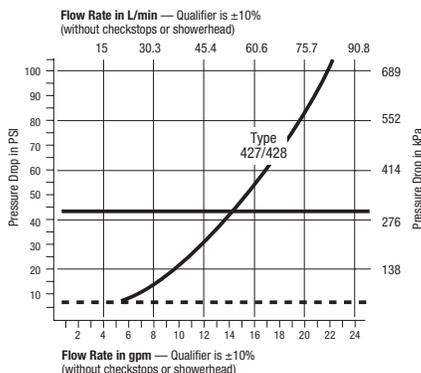
- Maximum Hot Water Supply Temperature 190°F (88°C)
- Minimum Hot Water Supply Temperature 10°F (6°C) Above Set Point
- Maximum Operating Pressure 125psi (861 kPa)
- Temperature Range (standard) 90 - 110°F (32 - 43°C)
- (low temperature) 60-100°F (16 - 38°C)
- (high temperature) 100-160°F (38 - 71°C)
- Connections 1/2" NPT
- Capacity 14 gpm* (.90 l/s)
- Minimum Flow 2.5 gpm
- Maximum Static Pressure 125psi (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°-180°F [60-82°C], cold water supply less than 70°F [21°C]).

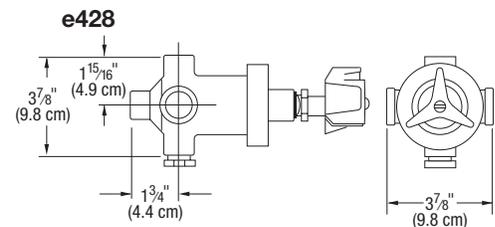
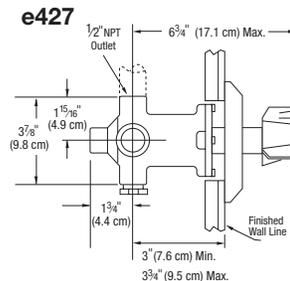
If your operating conditions vary from those stated in the standard, performance may vary as well. Consult your local sales representative or a Powers factory engineer to discuss your specific application.

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

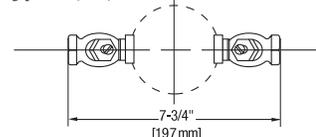
Flow Rate Curves & Checkstops ■



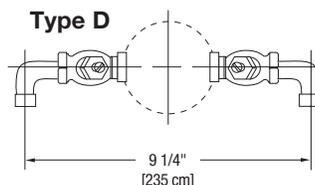
Dimensions ■



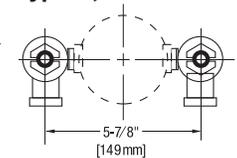
Type A, B, C



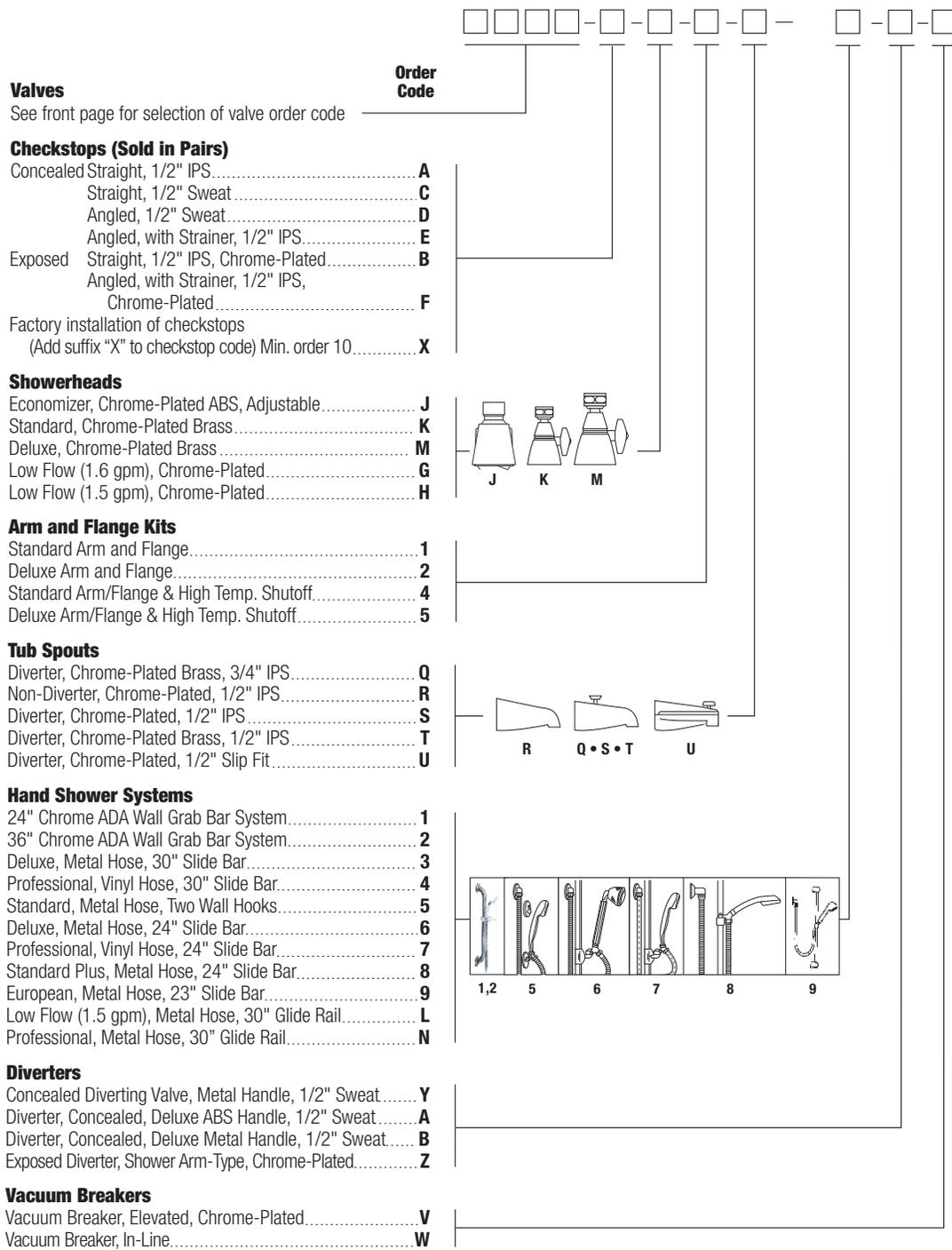
Type D



Type E, F



How To Specify: Type e427 & e428 Valves for Shower and Tub/Shower Systems ■



ENGINEERING APPROVAL	
Project:	_____
Contractor:	_____
Architect/Engineer:	_____

POWERS™

A Watts Water Technologies Company

