

POWERS

A WATTS INDUSTRIES CO.

HydroGuard® T/P
Series e700

PRODUCT SPECIFICATION

DESCRIPTION

The Series e700 HydroGuard T/P automatically mixes hot and cold water to deliver blended water within a specified range. Using an advanced thermal actuator, the Series e700 quickly compensates for temperature fluctuations induced by water temperature and pressure changes. In the event of cold water failure, the thermostatic motor virtually shuts off the flow of hot water. HydroGuard T/P meets the most stringent performance criteria for temperature and pressure changes, defined by ASSE 1016 (Type T/P).

Featuring heavy, cast-brass construction and an adjustable brass to brass high limit temperature stop, self-contained cartridge, corrosion resistant internal component, integral checks, and back to back shallow wall installation capacity. All parts of the e700 Series valve are accessible from the front of the valve. All Series e700 valves open in the cold water position to ensure maximum bather safety and comfort.



The accuracy, reliability and water economy of the Series e700 HydroGuard T/P make it preferable for applications that require precise, consistent water control: showers, baths, hospital hydrotherapy and residential areas. All e700 valves meet the **Americans with Disabilities Act (ADA)**.

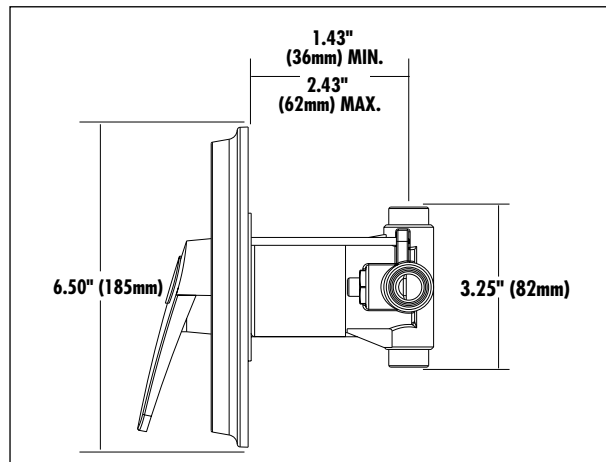
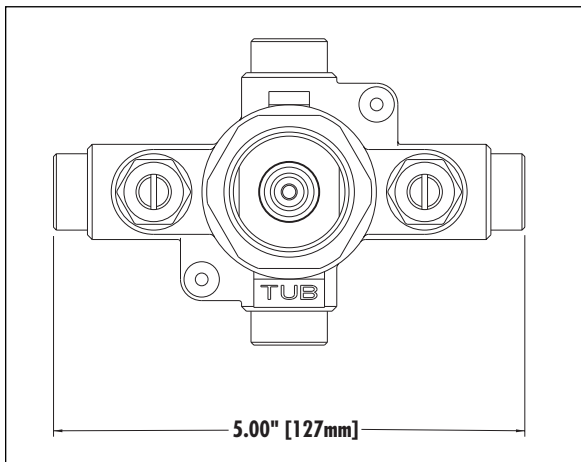
SPECIFICATIONS, DIMENSIONS AND FLOW RATE CURVES & CHECKSTOPS

Valve Construction: Combination mixing valve, with heavy cast bronze body and brass stem. Concealed adjustable high temperature limit stop. Available with ADA-compliant ABS or metal lever handle.

Connections	1/2" Sweat Inlet/Outlet
Capacity	4 gpm @ 45 psi ΔP 50/50 mix
Maximum Hot Water Supply Temperature	190°F(88°C)
Minimum Hot Water Supply Temperature (Approach Temperature)	5°F (2.8°C) above set point
Maximum Operating Pressure	125 psig (862 kPa)
Temperature Ranges	ASSE 1016 Type T/P - 90 - 110°F (32 - 43°C)
	ASSE 1016 Type T - 80 - 120°F (27 - 49°C)
High Temperature Limit Stop	Adjustable (factory set at 110°F [43°C])
Maximum Static Pressure	125 psig (862kPa)
Minimum Flow	0.5 gpm (3.781 L/min)
Approval	CSA B125
Listing	ASSE 1016
Shipping Weight	3.5 lbs. (1.6 kg)

All HydroGuard T/P Series e700 combination 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. All Powers thermostatic mixing valves perform to the requirements of standards ASSE 1016 and CSA B125.



HOW TO SPECIFY e700 VALVES FOR SHOWER AND TUB/SHOWER SYSTEMS

	Wt.	Order Code								
Valves										
ABS Trim	3.5	e705								
Metal Trim	3.5	e710								
Showerheads										
Economizer, Chrome-Plated ABS, Adjustable	0.5	J								
Standard, Chrome-Plated Brass	0.9	K								
Deluxe, Chrome-Plated Brass	1.3	M								
Arm and Flange Kits										
Standard Arm and Flange	0.3	1								
Deluxe Arm and Flange	0.4	2								
Tub Spouts										
Diverter, Chrome-Plated Brass, 3/4" IPS	1.2	Q								
Non-Diverter, Chrome-Plated, 1/2" IPS	0.4	R								
Diverter, Chrome-Plated, 1/2" IPS	0.7	S								
Diverter, Chrome-Plated Brass, 1/2" IPS	1.3	T								
Diverter, Chrome-Plated, 1/2" Slipfit	1.0	U								
Hand Shower Systems										
24" Chrome ADA Wall Grab Bar System	4.7	1								
36" Chrome ADA Wall Grab Bar System	5.5	2								
Deluxe, Metal Hose, 30" Slide Bar	3.5	3								
Professional, Vinyl Hose, 30" Slide Bar	2.7	4								
Standard, Metal Hose, Two Wall Hooks	2.0	5								
Deluxe, Metal Hose, 24" Slide Bar	3.1	6								
Professional, Vinyl Hose, 24" Slide Bar	2.3	7								
Standard Plus, Metal Hose, 24" Slide Bar	3.0	8								
European, Metal Hose, 23" Slide Bar	2.0	9								
Diverter										
Concealed Diverting Valve, 1/2" IPS	3.0	Y								
Exposed Diverter, Shower Arm-Type, Chrome-Plated	0.5	Z								
Vacuum Breakers										
Vacuum Breaker, Elevated, Chrome-Plated	2.0	V								
Vacuum Breaker, In-Line	1.0	W								

Typical Specifications:

Valve shall meet the performance requirements of ASSE 1016, Type T/P compensating for 50% fluctuation in supply line pressure, and compensate for increases in hot water supply temperature. Valve shall be capable of supplying mixed water temperature with in 5°F of hot water supply temperature. Valve shall contain a powerful, paraffin-based thermal actuator and feature a self-contained cartridge design for ease of repair and maintenance.

Water tempering valve shall not be subject to failure due to the lime build-up or dirt particles. Construction shall be conducive to long lasting, trouble free life, and shall not have close fitting, sliding parts, which through wear or binding, may impair operation.

Valve shall have all cast bronze housing and a capacity of 4 gpm at 45 psig. Valve shall include an adjustable limit stop, factory set at 110°F. Valve shall always open through cold water to maximize bather safety.

Valve shall be Powers # e7xx. Any alternates must have written approval prior to bidding.

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

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