

TempFlow®

Model TZV1 and TZV2



APPLICATION:

The ACORN CONTROLS® TempFlow® is a thermostatically controlled zone balancing valve which automatically maintains the domestic hot water zone temperature. By simply installing the valve after the last hot water device in each loop, it will self-adjust and balance the recirculated flow and heat loss of each TempFlow® regulated zone. This ensures fast and consistent delivery of hot water to

FEATURES:

- Eliminates the need for time-consuming and costly setup balancing and frequent rebalancing required by Circuit Setters
- Lead-Free* certified DZR brass body with corrosion-resistant and lead-free internal components
- Two outlet connections allow for either straight through or a 90° configuration
- Integral and cartridge-style check with accessible screens to prevent backflow and to filter debris from entering the valve
- The TempFlow® is field adjustable from 100°F to 160°F. Replacement is not required if the target temperature changes
- An Allen wrench/locknut helps prevent unauthorized setpoint adjustment
- Commercial quality paraffin actuator provides repeatable, reliable performance
- Factory set to 110°F (43°C)
- Enables/Promotes less expensive pumps
- Reduces installation and maintenance costs
- Reduces pipe/fitting erosion by minimizing fluid velocities
- Available in 1/2" or 3/4" with Sweat, NPTF, PEX-A, PEX-B, Press and CPVC Adapter Kits
- Optional Temperature/Pressure Gauge can be installed in second outlet



Model TZV1-AA0
(Shown In 90° Configuration)



Model TZV1-AAG
(Shown In Straight Configuration)



Patent Pending

* The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The Acorn ConTrols® TempFlow® shall have a solid brass body with corrosion-resistant internal components. It shall include an integral check valve and strainer to prevent backflow and filter debris from entering the valve. Zone temperature adjustment shall be from 100°F to 160°F (38°C to 71°C) and is made using an Allen wrench and a locknut on the bonnet prevents unauthorized or accidental temperature adjustment. Valve shall proportionally modulate to maintain zone temperatures based on heat loss and shall stabilize pump demand to prevent cycling. The TempFlow® modulates its Cv from a maximum of 2 to a minimum of 0.07 with a 10°F (5.6°C) change in zone temperature. The valve shall not have positive shut-off thereby preventing pump dead-heading and/or subsequent overheating. Valve shall be ACORN CONTROLS® TempFlow® model TZV1 or TZV2.

Acorn ConTrols® assumes no responsibility for use of void or superseded data. Acorn ConTrols®, Lake Bluff, IL, a member of Morris Group International. Please visit www.acorn-controls.com for most current specifications.

Submittal # **TZV1**
Revised: 06/24/2025

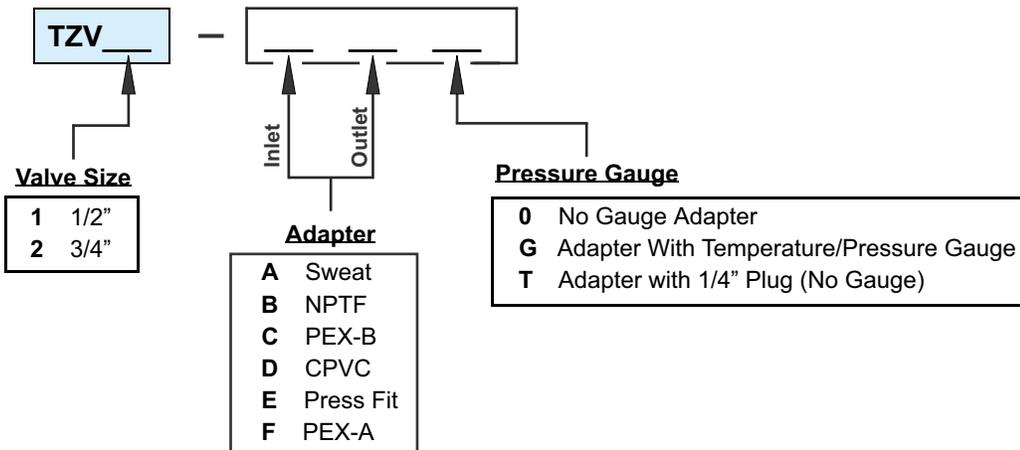
Certifications:

NSF/ANSI - 372



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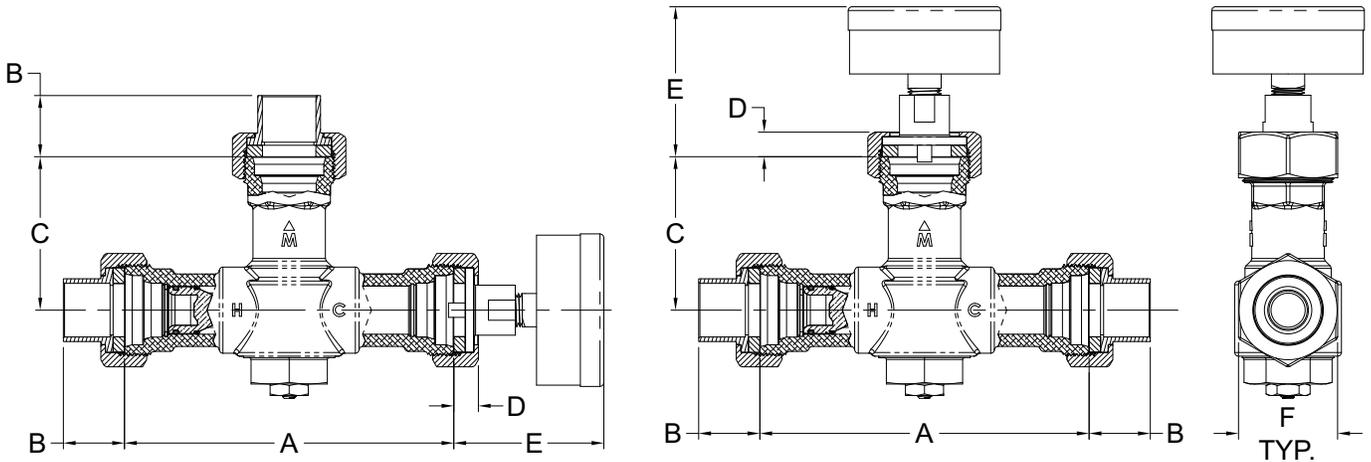
TZV_ ORDER CUSTOMIZATION:



ACCESSORIES:

- AD Access Door (20" x 20") White Prime Coat Finish with Cylinder Lock (Refer to Supplemental -AD Submittal for details)
- SS Stainless Steel With Satin Finish

TECHNICAL DIMENSIONS:



VALVE SIZE	ADAPTER	DIMENSION											
		A		B		C		D (CAPPED)		E		F	
TZV1	Sweat	5-3/8"	137mm	1"	25mm	2-1/2"	64mm	3/8"	41mm	2-1/2"	64mm	1-5/8"	41mm
	NPTF			7/8"	22mm								
	PEX-B			1"	25mm								
	CPVC			7/8"	22mm								
	Press Fit			1-1/4"	32mm								
	PEX-A			1-5/8"	41mm								
TZV2	Sweat	5-3/8"	137mm	1"	25mm	2-1/2"	64mm	3/8"	41mm	2-1/2"	64mm	1-5/8"	41mm
	NPTF			7/8"	22mm								
	PEX-B			1"	25mm								
	CPVC			1-1/8"	29mm								
	Press Fit			1-3/8"	35mm								
	PEX-A			1-7/8"	48mm								

