

TempFlow®

Model TZV Thermostatic Zone Valve

APPLICATION:

The **MGI 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® controlled zone. This ensures fast and consistent delivery of hot water to all fixtures all the time.

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.
- Includes a test port which can also serve as a bleed valve during setup.
- 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" NPTF

GUIDE SPECIFICATION:

The 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® its Cv from a maximum of 0.7 to a minimum of 0.05 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 **MGI CONTROLS®** TempFlow® model TZV-XXXX.



Model TZV-3110 Shown (◇)



Model TZV-0001 Shown (◇)

Detail Not To Scale



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.

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.

Certifications:



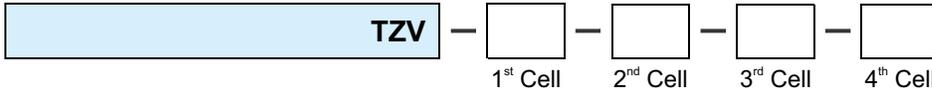
Acorn-ConTrols®
42 Sherwood Terrace, Suite #5
Lake Bluff, IL 60044
Phone: (847) 604-4773

www.acorn-controls.com

Submittal # **TZV**
REV: 01/23/2026

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ORDERING CODE FOR TZV TEMPFLOW®

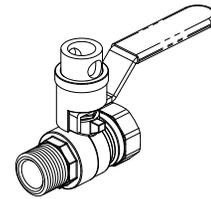


INSTRUCTIONS: Create your custom TZV ordering code using this guide to complete **4 cells**.

1st CELL - 1 DIGIT

Lockable Ball Valve(s)

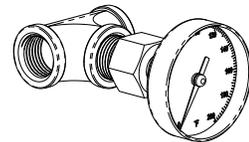
- 0 No Ball Valves
- 1 One Ball Valve
- 2 Two Ball Valves
- 3 Three Ball Valves



2nd CELL - 1 DIGIT

Temperature Gauge & Tee

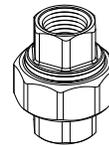
- 0 None
- 1 -OTG Outlet Temperature Gauge & Tee



3rd CELL - 1 DIGIT

Union

- 0 No Union
- 1 Union Included



4th CELL - 1 DIGIT

Test Port Cap

- 0 No Cap
- 1 Cap Included



ACCESSORIES:

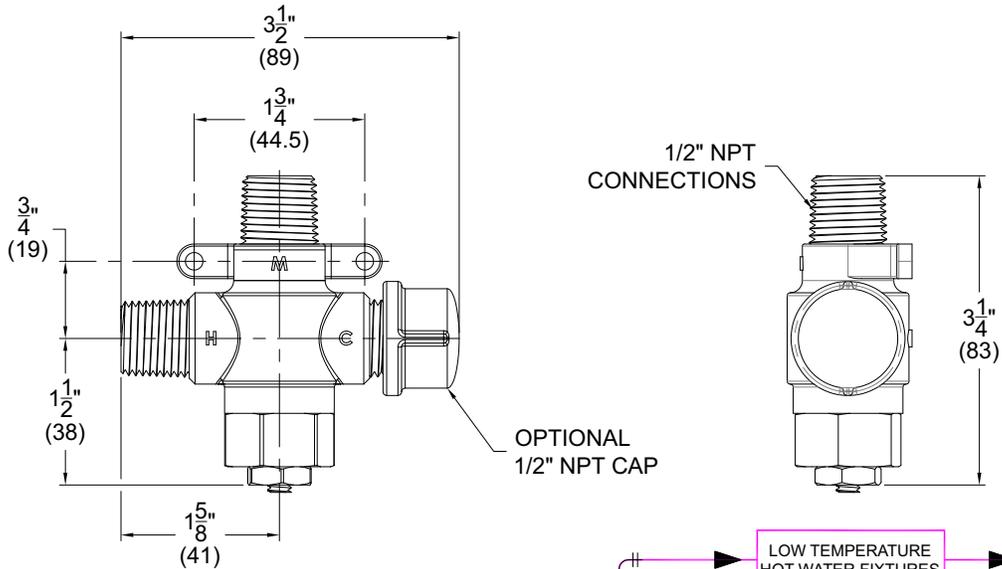
- AD Access Door (20" x 20") White Prime Coat Finish with Cylinder Lock (Refer to Supplemental -AD Submittal for details)
- SS Stainless Steel With Satin Finish

SELECTION SUMMARY & APPROVAL FOR MANUFACTURING	Model Number & Options _____	Quantity _____
	Company _____	
	Contact _____	Title _____
	Signature (Approval for Manufacturing) _____	
	Date _____	

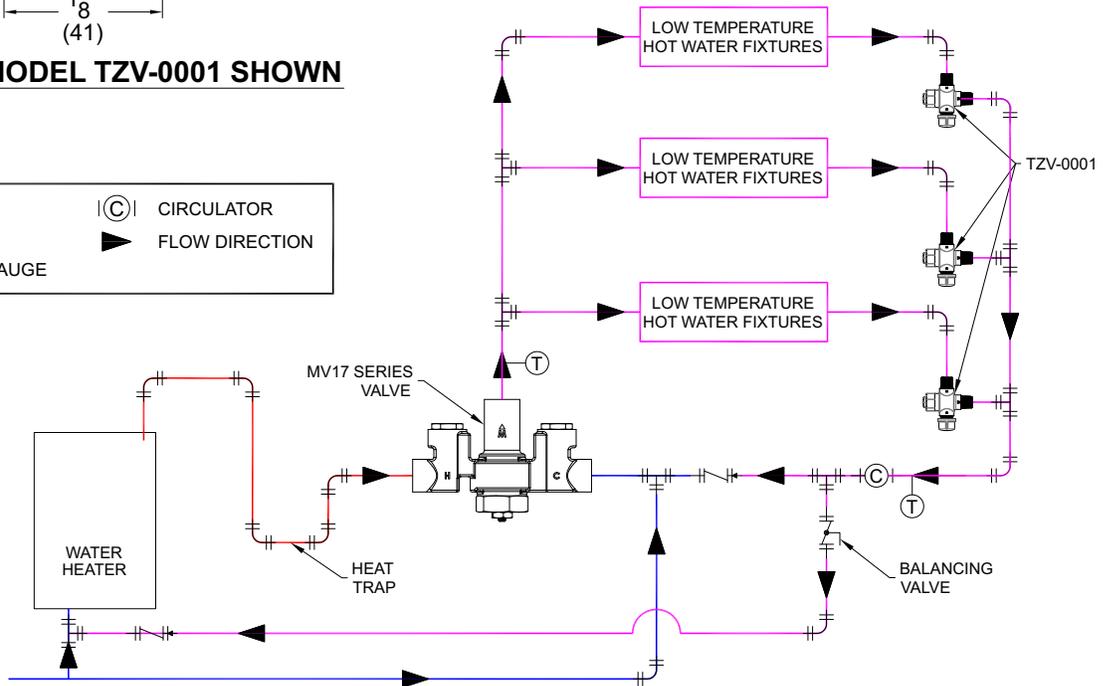


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TECHNICAL DIMENSIONS:



MODEL TZV-0001 SHOWN



TYPICAL PIPING DIAGRAM

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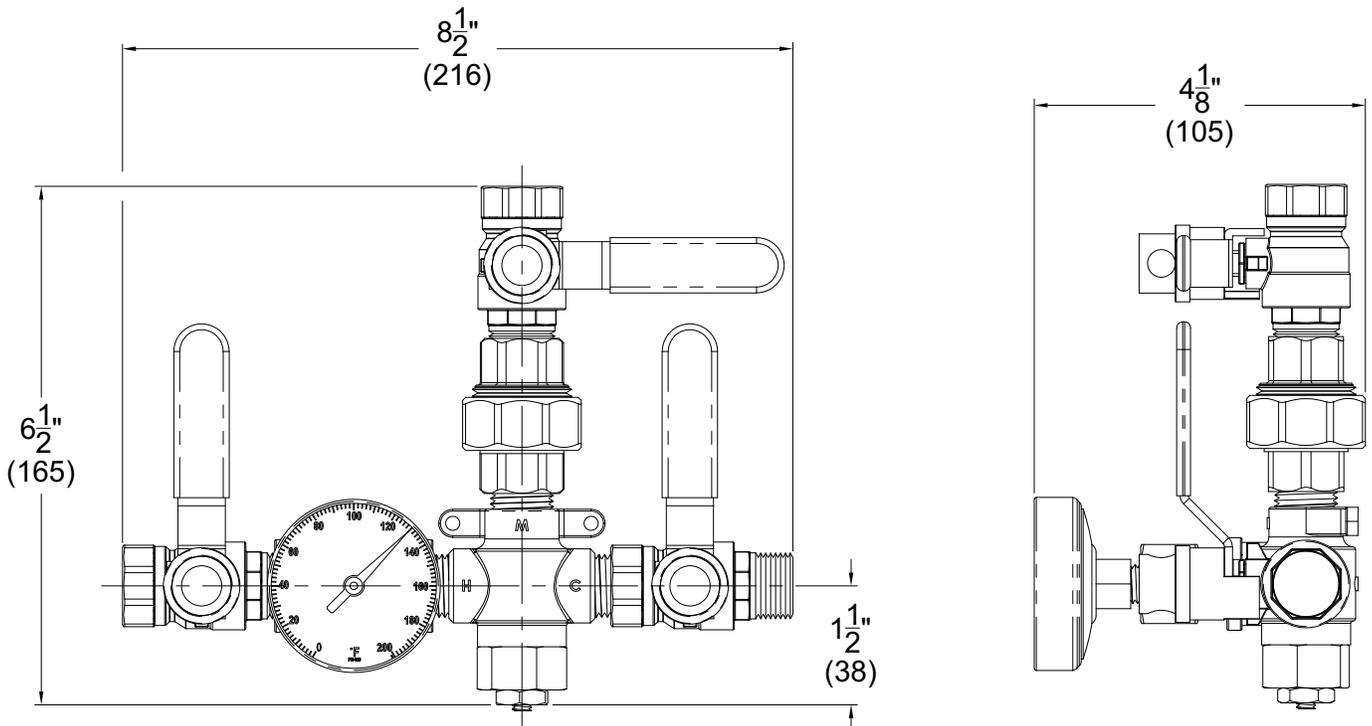
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TECHNICAL DIMENSIONS:



TZV-3110

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