Hydronic Accessories



Zone Sentry® Zone Valve

The Taco Zone Sentry® Zone Valve enhances the overall performance of any zone valve system. The unique patented technology in the Zone Sentry® utilizes a microcircuit based logic to control a gear driven electronic actuator which drives a ball valve based body design. All this adds up to a zone valve that leads the industry in energy efficiency, flow capacity (C_v) , shutoff pressure rating, ease of installation, diagnostic capability and the number of valves (12) that can be use on a standard 40VA transformer. The Taco Zone Sentry® zone valves are available in sweat, threaded and 3-way configurations.





Product Specifications

Max. Operating Pressure...300 PSI (2100 kPa) Max. Shutoff Pressure 125 PSI (875 kPa) Fluid Temperature Range...20-240°F (7°-115°C) Service.....Water or Water/Glycol up to 50% Glycol Close Systems (Open System — Option Available) Ball Rotation Speed...... ...(90° turn), Approximately (after charge time) Electrical Rating.....24 VAC, 60Hz 0.48 Amps Power Consumption.......... I I.4 W, 0.48 Amps Power Consumption........ 1.44W, 0.06 Amps (Power On) Heat Anticipator Setting....0.5 Amps End Switch Rating.....I Amp @ 24 VAC

Materials of Construction, Actuator:

Body...... High Performance Engineered Polymer
Gears High Performance Internally Lubricated
Engineered Polymer

Materials of Construction. Valve:

Body	Forged Brass
Stem	Brass
Press Ring	Brass
Ball	Brass (Chrome Plated)
Seat	Modified Teflon®
O-Rings	Forged Brass Brass Brass Brass (Chrome Plated) Modified Teflon [®] EPDM

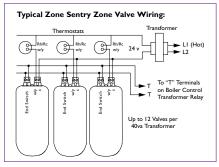
Application:

Taco Zone Sentry® Zone Valves provide on-off, normally open or normally closed control in both open and closed hydronic systems. The valves can be used in a wide variety of heating and non condensing cooling applications, primarily designed for use with baseboad, fan coils, radiators, convectors, air handlers, heat pumps and radiant applications.

Ease of Installation / Operation:

The Taco Zone Sentry[®] is the most technologically advanced zone valve ever made. It's also simple to install and operate. The valve can be installed in any direction, in any orientation. We then went a step further, allowing the operator to be mounted to the 2-way valve body in either direction,

great for those tight baseboard jobs. Snap-in quick connects on the back of the valve make for a simple, secure and fast wiring hook-up. A green LED light shows full functionality of the valve's operation and thermostat status. Under a no power situation the manual override button located on the top of the valve allows the ball to be rotated up to 90° and is also marked with a slot to indicate the position of the valve.



Valve Size	2-WAY Cv (Kv) / Ft. of Pipe Equiv.**	Close-Off Pressure (kPa)	3-WAY Cv (Kv) / Ft. of Pipe Equiv.**			
1/2"	4.9 (4.3) / 9.5	0-125 psi (0-862 kPa)	1.5 (1.3) / 111			
3/4"	10.3 (8.9) / 8.4	0-125 psi (0-862 kPa)	3.3 (2.8) / 82			
1"	8.9 (7.7) / 47.4	0-125 psi (0-862 kPa)	3.0 (2.6) / 411			

^{**}At 4' per second (Max. recommended residential flow rate)

	D C H	B
+ -		

Zone Sentry® **Dimensions**: (FOR REFERENCE PURPOSES)

zono contra di di merene i con merene i con colo																		
Valve	Α		В		С		D		E (Sweat)		E (Threaded)		F		G		H (3-way)	
Size	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1/2"	3''	76.2	2.375''	60.3	4.125''	104.7	3.06''	77.72	3.125''	79.3	4.750''	120.6	1.562''	39.7	2.312''	58.7	5.06"	128.5
3/4"	3''	76.2	2.375''	60.3	4.125''	104.7	3.12''	79.25	3.125''	79.3	3.312''	84.1	1.562''	39.7	2.312''	58.7	5.37"	136.4
1"	3''	76.2	2.375''	60.3	4.125''	104.7	3.12''	79.25	3.875''	98.4	3.875''	98.4	1.875"	47.6	2.312''	58.7	5.50"	139.7

NPT Models	2-Way	Sweat Models			
Z050T2	1/2" 2-way	Z050C2			
Z075T2	3/4" 2 way	Z075C2			
Z100T2	I" 2-way	Z100C2			

Consult factory for additional model numbers.



NPT Models	3-Way	Sweat Models			
Z050T3	1/2" 3-way	Z050C3			
Z075T3	3/4" 3-way	Z075C3			
Z100T3	I" 3-way	Z100C3			