



Submittal Data Information

101-140

Zone Sentry® Ball Zone Valve

Effective: September 1, 2014

Supersedes: June 26, 2013

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	

Product Specifications

Max. Operating Pressure.....	300 PSI (2100 kPa)
Max. Shutoff Pressure.....	125 PSI (875 kPa)
Max. Ambient Temp.....	135°F
Fluid Temp. 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), Approx. 5 seconds (after charge time)
Electrical Rating	24 VAC, 60Hz 0.48 Amps
Power Consumption.....	11.4 W, 0.48 Amps (Charging)
Power Consumption.....	1.44W, 0.06 Amps (Power On)
Heat Anticipator Setting.....	0.5 Amps
End Switch Rating.....	1 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	EPDM

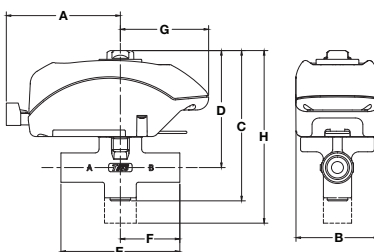
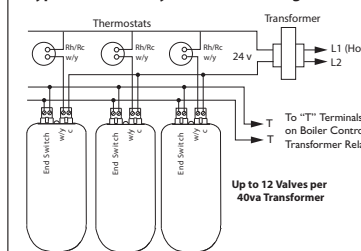
Application:

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 baseboard, 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.

Typical Zone Sentry Zone Valve Wiring:



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
Inverted Flare 3/4" sweat fitting	4.4 (3.8) / 46.2	0-125 psi (0-862 kPa)	N/A

† At 4' per second (Max. recommended residential flow rate).

Zone Sentry Dimensions: (FOR REFERENCE PURPOSES)

Valve Size	A		B		C		D		E (Sweat)		E (Threaded)		F		G		H (3-way)	
	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
Inverted Flare 3/4" sweat fitting	3"	76.2	2.375"	60.3	3.5"	99.1	3.06"	77.72	7.375**	187.33	3.5**	88.9	1.75"	44.5	3.312"	84.1	N/A	N/A

* Includes inverted flare fitting

** Less fittings

NPT Models	2-Way	Sweat Models
Z050T2	1/2" 2-way	Z050C2
Z075T2	3/4" 2 way	Z075C2
Z100T2	1" 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	1" 3-way	Z100C3

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