

Submittal Data Information

101-153

Geo-Sentry® Ball Valve Zone Valve

Effective: July 30, 2014 Supersedes: December 16, 2013

 Job:
 ________ Engineer:
 ________ Contractor:
 ________ Rep: ________

 ITEM NO.
 MODEL NO.

Product Specifications

Product Specifications
Max. Operating Pressure 300 PSI (2100 kPa)
Max. Shutoff Pressure125 PSI (875 kPa)
Max. Ambient Temp135°F
Fluid Temp. Range20 to 220°F (-7 to 104°C
Service
Fluids
Ball Rotation Speed(90° turn), Approximately 5 seconds (after charge time)
Electrical Rating24 VAC, 60Hz 0.48 Amps
Power Consumption11.4 W, 0.48 Amps (Charging)
Power Consumption 1.44W, 0.06 Amps (Power On)
Heat Anticipator Setting 0.5 Amps
End Switch Rating1 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
	Brass (Chrome Plated)
Seat	Modified Teflon®
O-Rings	EPDM

Application:

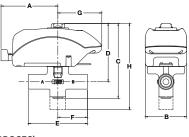
The Geo-Sentry® Zone Valve provides on-off, normally open or normally closed control and is especially suited for use in either open or closed loop geothermal systems with water source heat pumps.

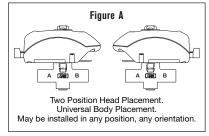
Ease of Installation / Operation:

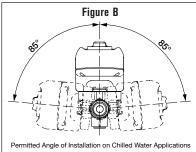
The Geo-Sentry is the most technologically advanced zone valve ever made. It's also simple to install and operate. The valve can be installed in any direction,

in any orientation except for chilled water installations (see Figure B). We then went a step further, allowing the actuator to be mounted to the valve body in either direction (see Figure A). 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.

Geo-Sentry Dimensions







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 flow rate is 8' per second).

Geo-Sentry Dimensions: (FOR REFERENCE PURPOSES)

Valve Size	Α		В		С		D		E (Sweat)		E (Threaded)		F		G		(3-wa	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	2-3/8"	60.3	4-1/8"	104.7	3-1/16"	77.8	3-1/8"	79.3	3-3/4"	95.3	1-9/16"	39.7	2-5/16"	58.7	5-1/16"	128.5	
3/4"	3"	76.2	2-3/8"	60.3	4-1/8"	104.7	3-1/8"	79.3	3-1/8"	79.3	3-5/16"	84.1	1-9/16"	39.7	2-5/16"	58.7	5-3/8"	136.4	
1"	3"	76.2	2-3/8"	60.3	4-1/8"	104.7	3-1/8"	79.3	3-7/8"	98.4	3-7/8"	98.4	1-7/8"	47.6	2-5/16"	58.7	5-1/2"	139.7	

NPT Models Normally Closed	2-Way
V050T2G2ZA024Q4A1	1/2" 2-way
V075T2G2ZA024Q4A1	3/4" 2 way
V100T2G2ZA024Q4A1	1" 2-way

Consult factory for additional model numbers.



NPT Models Normally Closed	3-Way
V050T3G1ZA024Q4A1	1/2" 3-way
V075T3G1ZA024Q4A1	3/4" 3-way
V100T3G1ZA024Q4A1	1" 3-way