

Geo-Sentry® Zone Valve

Effective: May 30, 2016

Supersedes: July 30, 2014

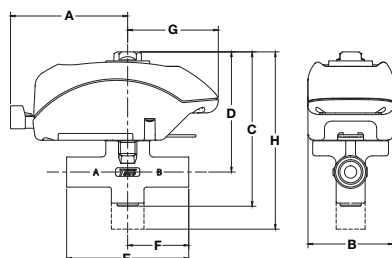
Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	



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.



Product Specifications

Max. Operating Pressure.....	300 PSI (2100 kPa)
Max. Shutoff Pressure.....	125 PSI (875 kPa)
Max. Ambient Temp.	135°F
Fluid Temp. Range	20-220°F (-7°-104°C)
Service	Open and closed systems
Fluids	Water Up to 25% Ethanol Up to 25% Methanol Up to 50% Glycol
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

Geo-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	2-3/8"	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	NPT Models Normally Closed	3-Way	Valve Size	2-Way Cv (Kv) / Ft of Pipe Equiv. **	Close-Off Pressure (kPa)	3-Way Cv (Kv) / Ft of Pipe Equiv. **
V050T2G2ZA024Q4A1	1/2" 2-way	V050T3G1ZA024Q4A1	1/2" 3-way	1/2"	4.9 (4.3) / 9.5	0-125 psi (0-862 kPa)	1.5 (1.3) / 111
V075T2G2ZA024Q4A1	3/4" 2-way	V075T3G1ZA024Q4A1	3/4" 3-way	3/4"	10.3 (8.9) / 8.4	0-125 psi (0-862 kPa)	3.3 (2.8) / 82
V100T2G2ZA024Q4A1	1" 2-way	V100T3G1ZA024Q4A1	1" 3-way	1"	8.9 (7.7) / 47.4	0-125 psi (0-862 kPa)	3.0 (2.6) / 411

Consult factory for additional model numbers.

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

