DeltaP SmartValve

Advanced control valve and BTU meter

The DeltaP SmartValve combines the precision control performance of a pressure independent DeltaP-Valve® with additional instrumentation to provide submetering capability at each cooling and heating coil. Purpose-built for comfort system optimization, the patented technology of the DeltaP SmartValve allows it to provide real-time measurements of flow, differential temperature, differential pressure and calculated BTUs, while also acting as a precision control valve. The DeltaP SmartValve delivers industry-best performance in efficiency and reliability, with easy access to energy, flow, temperature and pressure metrics transmitted over a BACnet interface.

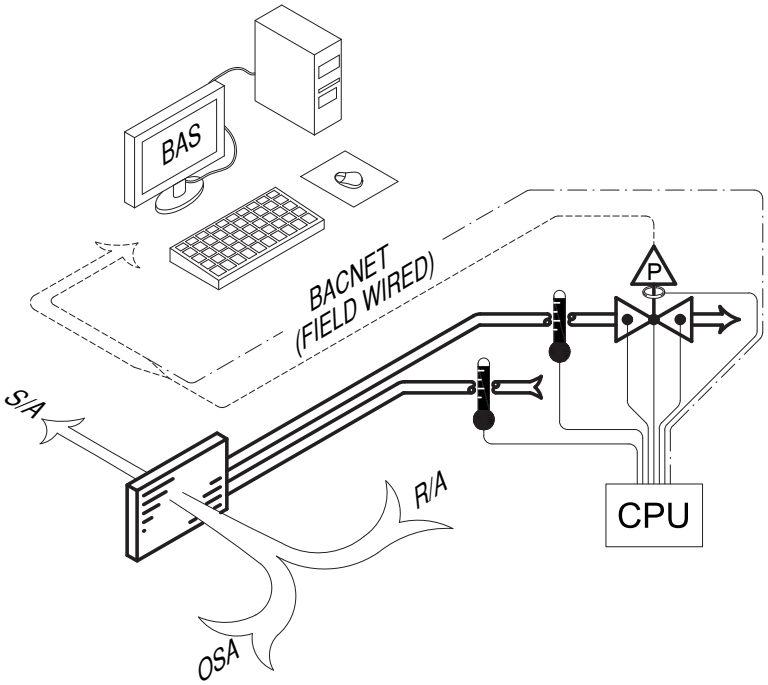
Features

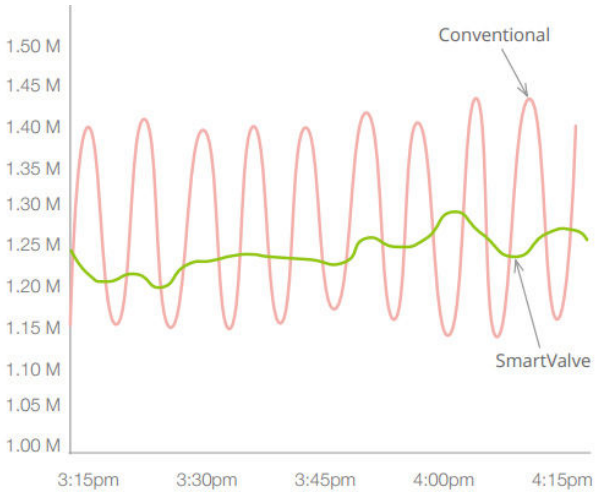
Hardware

- Pressure Independent Control
- Guaranteed Delta T
- 10-year DeltaPValve® Warranty
- 100:1 Control Turndown

Monitoring

- 7 Output Variables
  - Flow Rate
  - Supply & Return Water Temperature
  - DeltaPValve® Inlet, Intermediate & Outlet Pressure
- Calculated Thermal Energy
- Continuous Troubleshooting and Reporting of Coil Performance
- Communication via BACnet over TCP/IP





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Specs

Service	Chilled water, heating water, glycol solutions
Flow Rates	1 – 1750 GPM
Fluid Temperature Range	Max 250 F
Sensor Accuracy & Resolution	Flow: +/- 2% of actual Pressure: +/-1%, 0-100 PSI BTU: +/-2.5% of actual
Control Turndown	100:1
Differential Pressure Range	5-70 PSID, 10-90 PSID
Body Pressure Rating	150 PSIG, 300 PSIG
Pipe Connections	2" Female NPT 3", 4", 6" 8": ANSI 125# FF Flanged, ANSI 250# FF Flanged
Close Off Pressure	150 PSID
Shutoff	ANSI B16-104
Leakage	2", 3", 4", 6" 8": ANSI / FCI 70-2-2-2006 Class III
Actuator Input Signal	Proportional (0/2-10 VDC, 4-20mA), Floating Point
Actuator Fail Action	Fail-In-Place, Fail-Safe
Ambient Temperature Range	32 – 150 F
Power Supply	24 VAC Center-tap power
Power Consumption	Actuator-dependent
Enclosure	Aluminum
Certifications	UL, CE, BTL
Communication	BACnet over TCP/IP SSL Encription

About Flow Control Industries

Flow Control Industries, Inc. (FCI) is a specialty manufacturer of high-performance pressure independent control valves, de-livering energy efficient products and services through a consultative process to increase building value and lower total cost of ownership.T

he DeltaPValve®, FCI's flagship product, was developed by Founder and Chairman Paul Skoglund, P.E. over 20 years ago when he realized that more effective valves could revolutionize mechanical system efficiency. As an industry pioneer, Paul was the first to create the patented design, development and application of pressure independent control valve