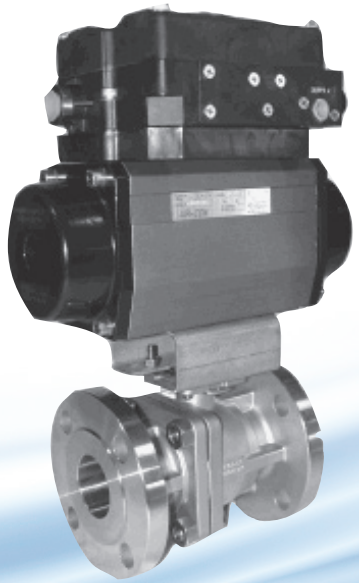
Introducing the PressureFlowEnergy (PFE) Controller!

The combination of supply and demand side benefits typically result in energy savings of 20% - 40%!

The PFE Controller meets your plant's goals of maintaining the plant air at the lowest possible pressure, satisfying intermittent demand events with stored air, and prolonging the need to re-pressurize the storage tank. This control strategy results in the lowest possible energy consumption and maximum pressure control.

Standard Flow Control Valve

- Rotary V-ball control valve
- Standard Valve Controller
- 4-20 mA input/output
- Pressure transducer
- Programming
- 150# RF, 4-20 mA input positioner
- 25' of two wire signal wire
- 508 UL panel
- 3 meters of transducer cable
- Loss of pressure or loss of power result in fail open valve position



Pipe Size	Part	Flow CFM	Net Price
2 inch	PFE 2.0	1,000 scfm	$11,040.00
3 inch	PFE 3.0	2,500 scfm	$11,400.00
4 inch	PFE 4.0	4,500 scfm	$11,850.00
6 inch	PFE 6.0	9,000 scfm	$14,826.00
8 inch	PFE 8.0	15,000 scfm	$16,600.00

Options

Deluxe Controller

Single loop controller 4-20 mA and output, 4 relays in a UL 508 NEMA 4 enclosure. PFE records up to 12 inputs (4 I/O's standard) every minute with rolling memory. Example: PFE Deluxe panel will record air pressure, CFM flow with flow meter (added optional) and dewpoint with dewpoint meter (added optional) every minute for 30 plus days of rolling memory!

The recorded data can be illustrated graphically on PFE panel, out put to thumb drive or exported via ethernet. The Deluxe panel is programmable allowing for different discharge pressure settings by day of week or time of day. Thus if plant shuts down for week end or night shift and the air compressors remain active, the discharge air pressure for this non-production time frame will automatically change to much lower air pressure resulting in greatly reduced air consumption in the plant air net.

Reduced air consumption means reduced compressor KW. Plant air pressure is automatically increased/restored to desired plant operating pressure at desired time and day. **NET PRICE $893.00**

Typical ROI for installation of PressureFlowEnergy Controller is 18 months!

• Deluxe Controller Features

- Microprocessor with PID control for rapid response and precise control.
- NEMA 4 electrical enclosure.
- Controller continuously monitors downstream pressure.
- Rugged ball type control valve eliminates need for in-line check valves and filtration.
- Loss of pressure and loss of power result in fail open valve position.

• Optional Three Valve Bypass

- Allows for valve maintenance with out taking plant air system off line.

Pipe Size*	Flow Rate	Net Price
2 inch	35-600 CFM	$5,778.00
3 inch	70-1200 CFM	$7,650.00
4 inch	200-2000 CFM	$10,050.00
6 inch	500-5000 CFM	$18,150.00
8 inch	500-5000 CFM	$30,750.00

Optional Flow Meter

Pipe Size*	Flow Range	Net Price
2 inch	3-350 CFM	$2,258.00
3 inch	7-700 CFM	$2,850.00
4 inch	15-1500 CFM	$3,700.00
6 inch	20-2500 CFM	$5,408.00

Flow Meter Display (shipped loose)

Options include flow meter with display and input to flow control valve controller.
*Ideally, you should have a 6-foot straight length of steel pipe into which the flowmeter is installed.

Optional Dew Point Meter

Digital Dew Point Monitors combine the proven characteristics of long-term stability and rugged design with a far wider operating range. The operating parameters have been expanded to cover applications where measurement of low moisture content is critical to process measurement. This list includes (but is certainly not limited to) industrial and manufacturing processes found in food, metal, paper/wood, pharmaceutical, plastics, oil and gas, petrochem, and other markets. Stable and reliable polymer sensors have been used for relative humidity measurement for decades. Their drawback has been that they were not accurate in very low dew point ranges - until now. **NET PRICE $5,940.00**

Dew Point Meter (shipped loose)

ATLAS AIR & WATER
396 St. Croix Trail South, Suite 283
Lakeland, MN 55043
www.atlasairandwater.com
sales@atlasairandwater.com