

PCV™ PRESSURE CONTROL VALVE



PRODUCT DESCRIPTION

INTEGRATED MOTORIZED PRESSURE CONTROL VALVE

The PCV™ is the first device developed that integrates a pressure controller directly into a motorized flow control valve with Modbus communications. The PCV™ can be utilized in any application where pressure control logic is desired. The PCV™ has a single pressure port to connect to the location where pressure control is desired. The PCV™ displays the actual measured pressure and desired pressure setpoint on the digital display and automatically adjusts the internal control valve as necessary to bring the measured value into agreement with the desired setpoint. The valve can be configured as either a pressure introducing or pressure relieving device. The desired pressure setpoint can be set via the keypad, remote 4-20mA signal, or with the RS-485 communications port. Further, the PCV™ provides a pressure retransmission signal for remote logging. Available in a large variety of pressures control ranges and sensor types for use with most industrial gases or liquids.

APPLICATIONS

- Industrial Furnace Pressure Control
- Intelligent Nitrogen Purge Systems
- Water and Oil Level Control

Note: The PCV™ motorized valve does not provide positive shut-off. If positive shut-off is required, it is strongly recommended that a separate properly rated shut-off valve or solenoid be installed as required.

SPECIFICATIONS

Power	24VDC @ 1A
NPT Sizes	1/4", 3/4", 1", 1-1/4", 2", 3", 4"
Max Operating Temp	180°F
Max Inlet Pressure	Range Dependent
Accuracy	1% of Sensor Range
Repeatability	0.5% of Sensor Range
Pressure Setpoint Signal	4-20mA
Pressure Retransmission	4-20mA
Communications	ModbusRTU
COM Ports	RS-485/RS232
Remote Pressure Sensor	Optional

Specify media, expected flow ranges, pressure control range and valve inlet pressure when ordering.

FEATURES & BENEFITS

- Integrated pressure controller with motorized control valve
- Electronic pressure sensor with digital display
- Integrated motorized control valve
- Desired pressure setpoint can be set locally or remotely
- Universal pressure reducing and pressure relieving control capability
- Valve can be controlled manually if required
- Integrated high and low pressure alarm with relay output
- ModbusRTU communication via RS-485
- Setup software and programming cable included

"INTEGRATED FLOW CONTROL SOLUTIONS"

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