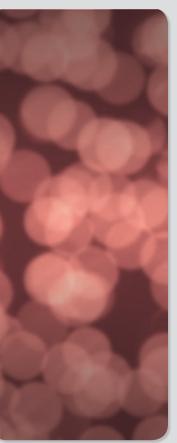
# Humphrey®

# **PROCONTROL**

# **Electronic Pressure Regulators PCRL and PCRH Series**







www.humphrey-products.com

### **PROCONTROL** Regulator Series

Humphrey **ProControl** Electronic Pressure Regulators provide exceptional closed-loop proportional pressure control by incorporating a unique, dual proportional valve design.

## SUPERIOR PRESSURE REGULATION CONTROL IS ACHIEVED:

#### GREATER RESPONSIVENESS

Stable at dynamic inlet and outlet pressure applications.

#### **FEATURES**

- Proportional valves control both fill and venting functions
- Two sizes: Low flow type High flow type
- Quiet operation, even at low pressure settings
- Frictionless design results in multi-million cycles
- Made in the USA
- RoHS and REACH compliant

#### TYPICAL APPLICATIONS

- Direct control of pressurized air and inert gases
- Operation of small bore cylinders
- Medical/Analytical Devices
- Leak testing
- Packaging

#### LONG SERVICE LIFE

As compared to competitive models using ON/OFF valves for supply or venting control.

## VERY QUIET OPERATION

Ideal for any work environment, particularly medical and laboratory applications.



**PCRL**Low Flow Type



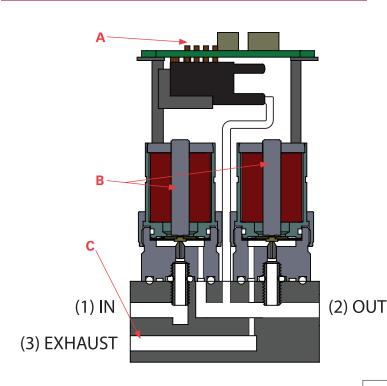
**PCRH**High Flow Type

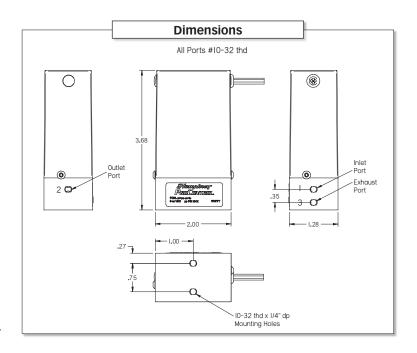
Specifications	PCRL-Low Flow	PCRH-High Flow
Media:	Air or inert gases (Consult factory for O <sub>2</sub> , other gas and liquid media.)	
Pressure Ranges:	0~50 PSIG (3.4 bar); 0~100 PSIG (6.8 bar)	
Ambient Temp. Range:	32° to 158°F (0° to 70°C)	
Flow:	See Graphs	
Cv:	0.02	0.30
Response Time (full span):	1 second	
Pressure Accuracy (Typical):	+/- 0.5% or less (Full Span)	
Linearity (Typical):	+/- 0.5% or less (Full Span)	
Connections:	10-32 UNF	Supply & Outlet: 1/4" PIPE Relief: 10-32 UNF
Filtration:	40 Micron Recommended	
Weight (lbs):	0.6	0.8
Internal Valve Wetted Materials:	Cold-rolled stainless steel w/electroless nickel plating, brass, 304 and 403 stainless steel, FKM seals, Nylon, 6000 Series Aluminum.	

#### **Electrical Specifications**

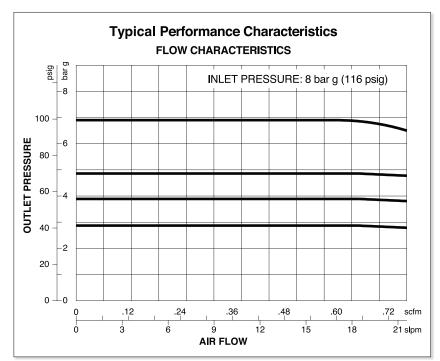
Control Signals:	0~5V, 0~10V	
Output Signal:	0~5V	
Power Supply:	12VDC or 24VDC	
Power Consumption (mA):	200 (maximum)	

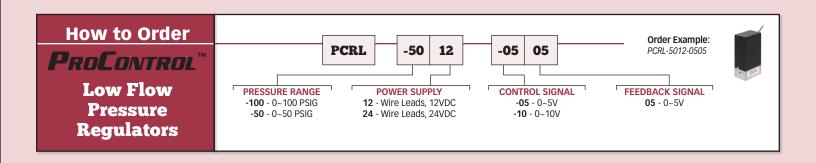
### **PCRL - Low Flow Regulator**



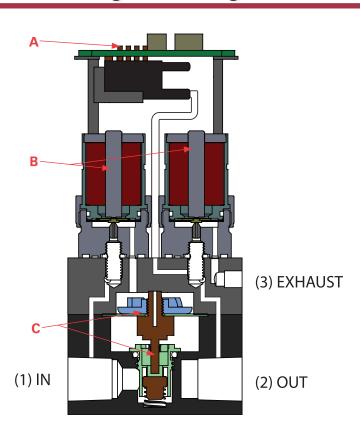


- A Analog control circuitry compensates for dynamic changes in output pressure, offering fast, accurate, closed-loop pressure control characteristics.
- B The incorporation of two proportional control valves offers fast and smooth pressure control, excellent resolution, as well as optimized response times when pressure venting, and reduced overall air (media) consumption.
- C Relief port can be plugged (with Humphrey PF fitting), allowing for non-relieving type function.





### **PCRH - High Flow Regulator**



- A Analog control circuitry compensates for dynamic changes in output pressure, offering fast, accurate, closed-loop pressure control characteristics.
- B The incorporation of two proportional control valves offers fast and smooth pressure control, excellent resolution, as well as optimized response times when pressure venting, and reduced overall air (media) consumption.
- C Utilizes a pilot operated configuration with an Internal Valve and Diaphragm. This offers high volume flow rates relative to size, while accurately controlling output pressure.

