BCV-980

Intelligent Pinch Control Valve

The BCV-980 is a compact, cost-effective, high performance pinch control valve designed for biotechnology and pharmaceutical industries. The intelligent control valves utilize PSG Biotech's proprietary integral PID control algorithms. The valve monitors up to four analog signals from external sensors or controllers and modulates the valve position accordingly.

BENEFITS

- Independently controls pressure or flow through TFF modules
- Integrated solution – single enclosure for valve and control electronics

FEATURES

- All exposed surfaces are 316L stainless steel for wash-down applications (IP65)
- ¼ DIN (88 mm x 88 mm) size panel mount for tubing sizes 1/8" through 1" ID
- Multiple 4–20 mA analog inputs and outputs
- Please refer to the product datasheet for more details

APPLICATIONS

- Tangential flow filtration
- Bio-pharmaceutical manufacturing
- Ultra-pure water production
- Liposome extrusion

PERFORMANCE SPECIFICATIONS

Flow Control Time	< 3 sec
Fluid Temperature	4° – 60°C[1]
Ambient: Temperature/Humidity	0° – 40°C / 30% – 80% RH, non-condensing
Maximum Expected Operating Pressure	6 bar (g)

ELECTRICAL SPECIFICATIONS

Power Supply Input	24 V DC ± 10%
Maximum Current Consumption	4.00 A (Typically 1.00 A)
Alarm Signals	Max 30 V DC, 200 mA NPN open collector
Control Signal In[2]	4 – 20 mA, 1–5 V DC, 0–5 V DC, 0 – 10 V DC
Signal Out (Valve Position)	4 – 20 mA

MATERIAL SPECIFICATIONS

Wetted Parts	None
Non Wetted Parts, Enclosure	Non-magnetic 316L stainless steel, Non-magnetic powder-coated stainless steel

PHYSICAL SPECIFICATIONS

Mounting Orientation	Performance unaffected by mounting orientation
Fluid Connections	1/8" – 1" ID flexible tube, braided or un-braided
Ingress Rating	IP65
Panel Mounting	Universal thickness — accommodates any panel thickness
Panel Cutout	1/4 DIN (88mm x 88mm)
Mass	2.6 kg – 3.3 kg

[1] **Consult the factory for higher temperature applications**
[2] **Up to four external analog signals. Implements standalone TFF control**

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WARNING: The customer is solely responsible for determining the necessary or most suitable product or service for any particular use case or application. All such risks are assumed by the customer. Specifications subject to change without notice.
WARRANTY: For product warranty information, please contact: info@cpc-bio.com or +1 800-519-7633.
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CPC BIOTECH
2820 Cleveland Ave. N.
Roseville, MN 55113
Phone: +1 800-519-7633
Email: info@cpc-bio.com