

ProControl™ Proportional Valves

PV3 & PV10 Series



Humphrey's ProControl™ proportional valves deliver variable flow control of compressed air or inert gas. Offered inline or manifold mount, miniature PV3 and PV10 series feature low hysteresis, excellent turn down ratios and repeatability. The design is flexible and, in certain applications, may be tailored at factory to meet unique requirements.

FEATURES

- Low hysteresis
- Excellent resolution
- Low power consumption
- Compact construction
- Up to 75 SLPM flow
- 2-PIN connector provided

USES

- Anesthesia gas delivery
- Oxygen delivery
- Sensor calibration
- Gas chromatography
- Pressure control via dump circuit
- Medical support equipment
- Industrial control circuit
- Inducing or mixing gases

INSTALLATION

- Installation instructions can be found in our online catalog in the Documentation section of each model's product detail page.



PV3P

2-Port, Inline

PV10PM

2-Port, Manifold Mount

ProControl™ Valve Family



How to Order

ProControl™ Proportional Valves || PV3 & PV10 Series

PV3	PM	12	032	A0
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MODEL

PV3
PV10

BODY

P: Inline
PM: Manifold
EP: Metric Inline

VOLTS

12: 12VDC
24: 24VDC

ORIFICE SIZE

032: 0.032" [0.8] (PV3)
080: 0.080" [2] (PV10)

MAXIMUM

PRESSURE SETTING

25: 25 PSI (1.7 bar) **75:** 75 PSI (5.2 bar)
50: 50 PSI (3.4 bar) **A0:** 100 PSI (6.9 bar)

ORDER EXAMPLE

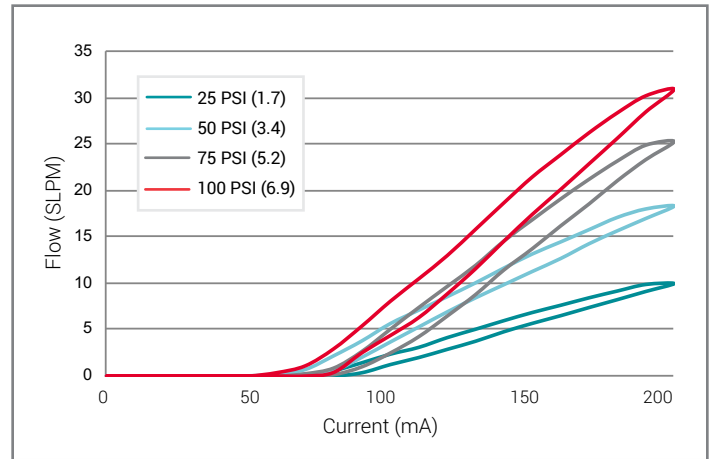
PV3PM12032A0

ProControl™ Proportional Valves

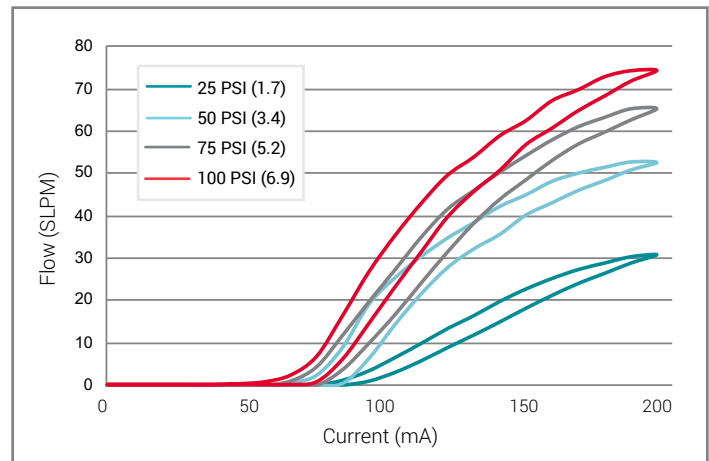
PV3 & PV10 Series

SPECIFICATIONS	PV3	PV10
TYPE OF OPERATION	Direct Solenoid	
FUNCTION	2-Way, Normally Closed	
MEDIA	Air, Inert Gas	
MOUNTING	Refer to Manifold Mount drawing below.	
PRESSURE SETTINGS - PSI (BAR)	25 (1.7), 50 (3.4), 75 (5.2), 100 (6.9)	
HYSTERESIS (TYP)	8%	
MAXIMUM FLOW (TYP)	30 SLPM	75 SLPM
AMBIENT TEMPERATURE	32-125° F (0-52° C)	
POWER CONSUMPTION (WATTS)		
AT RATED CURRENT	2	4
MAXIMUM	2.4	4.8
NORMAL RESISTANCE (OHMS)		
12V MODEL @72°F (22°C)	50	25
24V MODEL @72°F (22°C)	200	100
OPERATING CURRENT RANGE		
12V MODEL (MA)	0-200	0-400
24V MODEL (MA)	0-100	0-200
WETTED MATERIALS	ENP Brass, SST, Nickel plated, FKM	
ELECTRICAL ENTRY – PLUG-IN	ZHR-3 connector, 26 AWG x 18" wire supplied. Positions 1 & 3 are used.	
WEIGHT – OZ (GRAMS)	3 (93)	
COMPLIANCE	RoHS, REACH	

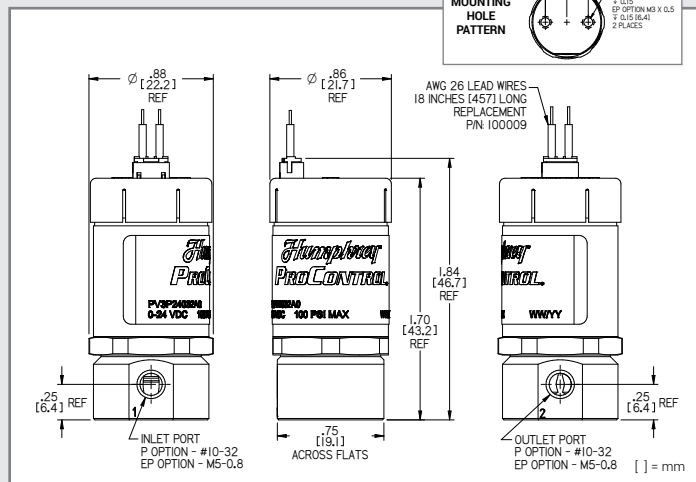
PV3 12V OPTIMIZED FOR FLOW VS CURRENT



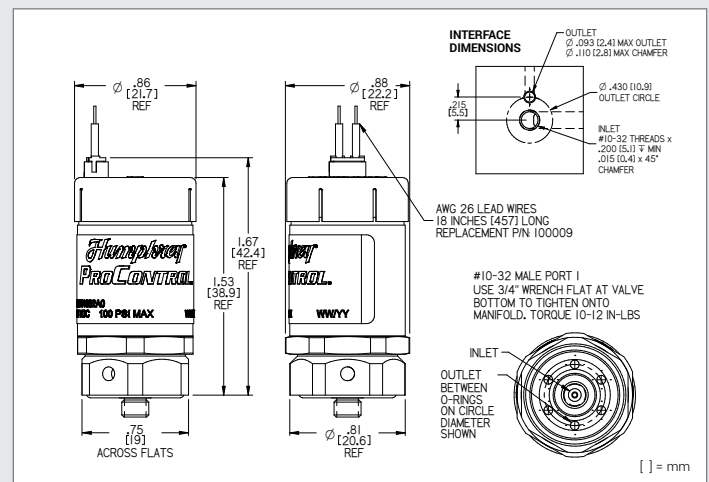
PV10 24V OPTIMIZED FOR FLOW VS CURRENT



INLINE DIMENSIONAL DRAWINGS



MANIFOLD MOUNT DIMENSIONAL DRAWINGS



Certified: ISO 9001:2015

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