

ProControl™

Proportional Valves

PC30 Series



Humphrey's ProControl™ proportional valves deliver variable flow control of compressed air or inert gas from corresponding input current. Utilizing a frictionless, flat-spring armature, rugged PC30 Series achieves excellent flow control and long life in a simple, compact construction. Design is flexible and, in certain applications, may be tailored at factory to meet unique requirements.

FEATURES

- Low hysteresis
- Excellent resolution
- Inline or manifold mount
- Compact construction
- High flow, up to 225 SLPM

USES

- Dynamic control adjustments (closed loop systems)
- Predetermined low frequency adjustments with each cycle
- Selectable control, cycle-to-cycle
- Precise downstream pressure control

PC30
2-Port
Inline



PC30
2-Port
Manifold Mount

ProControl™ Valve Family



How to Order

ProControl™ Proportional Valves || PC30 Series

ORDER EXAMPLE

PC30	VPM	20	156	A0	PC30VPM20156A0
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MODEL

ELECTRICAL CONNECTION
V: Wire Leads
PORT TYPE
P: Inline
PM: Manifold

CURRENT
10 - 525mA
20 - 285mA

ORIFICE SIZE
156 - 0.156" (100 PSI max)
188 - 0.188" (50 PSI max)
250 - 0.250" (25 PSI max)

MAXIMUM PRESSURE SETTING
25: 25 PSI (1.7bar)
50: 50 PSI (3.4 bar)
A0: 100 PSI (6.9 bar)

*** CORRESPONDING MAXIMUM PSIG ORIFICE SIZE**
25, 50, A0 - 0.156" orifice
25, 50 - 0.188" orifice
25 - 0.250" orifice

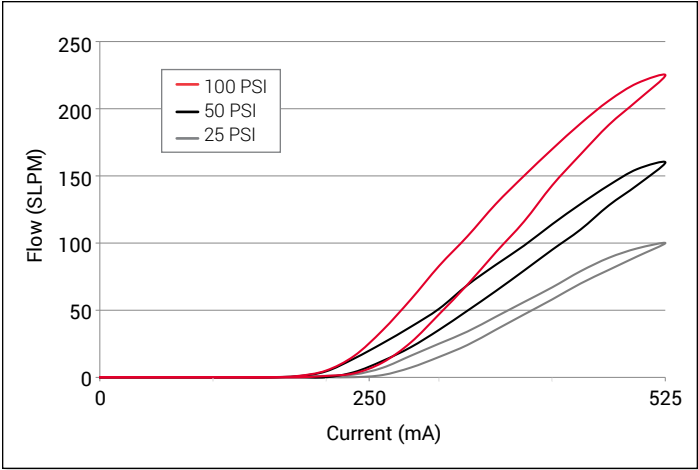
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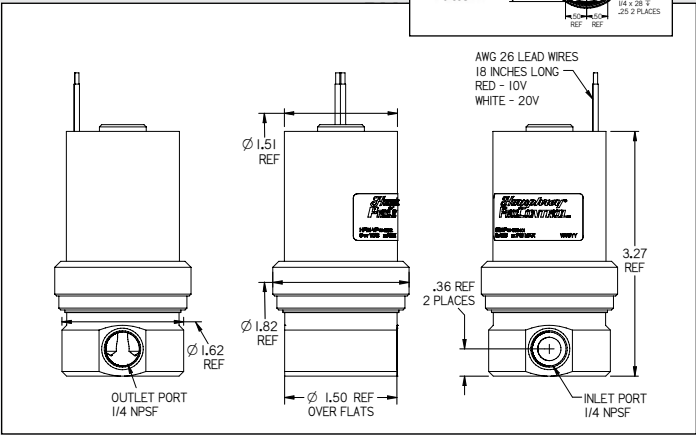
SPECIFICATIONS	PC30
TYPE OF OPERATION	Direct Solenoid
FUNCTION	2-Way, Normally Closed
MEDIA	Air (Vacuum), Inert Gas
MOUNTING	Refer to Manifold Mount Drawing Below.
PRESSURE SETTINGS - PSI (BAR)	25 (1.7), 50 (3.4), 100 (6.9)
HYSTERESIS (TYP)	<15%
MAXIMUM FLOW (TYP)	225* SLPM
AMBIENT TEMPERATURE	32-125° F (0-52° C)
POWER CONSUMPTION (WATTS)	
AT RATED CURRENT	5.8
MAXIMUM	7.7
NORMAL RESISTANCE (OHMS)	
10V MODEL @72°F (22°C)	19
20V MODEL @72°F (22°C)	70
OPERATING CURRENT RANGE	
10V MODEL (mA)	0-525
20V MODEL (mA)	0-285
WETTED MATERIALS	Aluminum, Stainless Steel, Nickel plated steel, FKM
WEIGHT – OZ (GRAMS)	14 (408)
COMPLIANCE	RoHS

* Build configuration determines max flow of each valve.

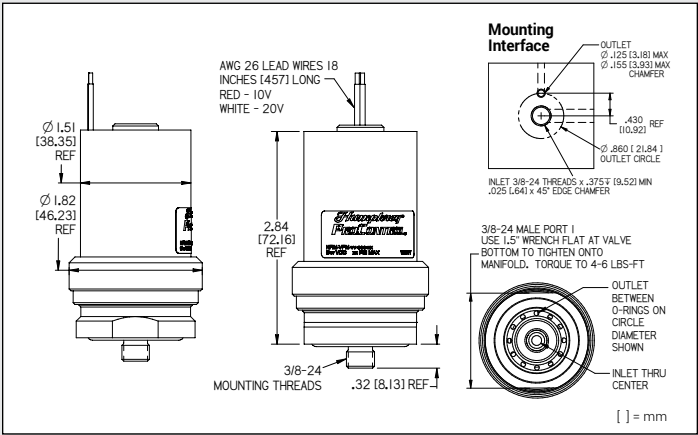
PC30 10V FLOW VS CURRENT



INLINE DIMENSIONAL DRAWINGS



MANIFOLD MOUNT DIMENSIONAL DRAWINGS



Certified to the ISO9001:2015 Standard.

