

PMV P5 & EP5 POSITIONERS

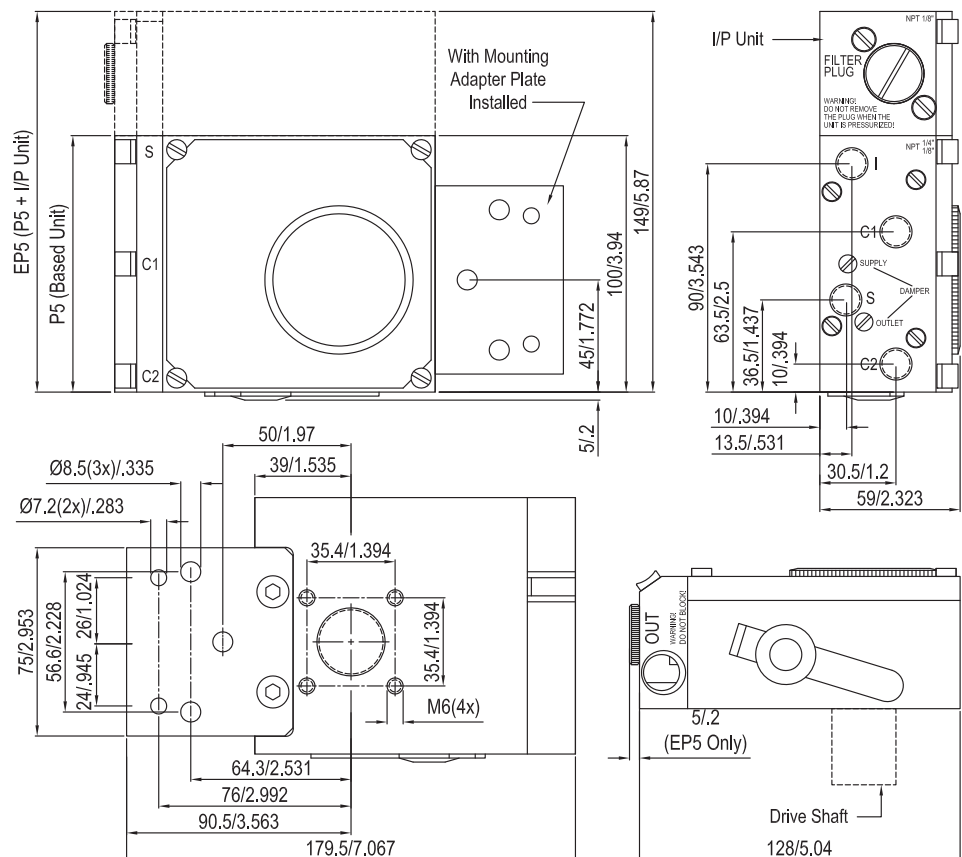
The foundation of the PMV positioner system is the P5 pneumatic positioner. Performance of this unit is enhanced with a special high gain, high capacity spool valve assembly providing quick and accurate actuator and valve response. For single and double-acting applications, the modular design allows for the simple addition of an I/P (4-20mA input) converter (such as the EP5) and/or a feedback unit with a variety of feedback options.

FNW supplies pneumatic and electro-pneumatic positioners for both quarter-turn and linear actuators. Contact FNW for optional positioner configurations such as low temp (-40°F/-40°C), reverse acting, feedback units, and characterized cams including split range, equal percent, and square root degree combinations.



Features:

- Sturdy Construction
- Force Balance Design
- High Gain Pilot Valve
- Bright Position Indicator
- Stainless Steel Cam
- Tapped Exhaust Port
- Modular Design
- Simple Calibration
- External Zero Adjustment
- Built-in Gauge Ports
- Sealed Cover
- Replaceable Drive Spindles



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Technical Specifications

SPECIFICATION	P5	EP5
Input Signal	3-15 PSI (20-1000 kPa)	4-20mA
Linearity	≤ 0.5%*	≤ 1.0%*
Hysteresis	≤ 0.5%*	≤ 0.75%*
Repeatability	≤ 0.5%*	
Gain Factor at 87 PSI (600 kPa)	Min. 1000 kPa/kPa	
	Max. 66%/100 ISA S75.13-1989	
Max. Air Consumption		
@ 29 PSI (0.2 MPa)	0.19 SCFM (5.4 nl/min)	0.22 SCFM (6.1 nl/min)
@ 58 PSI (0.4 MPa)	0.43 SCFM (12.3 nl/min)	0.48 SCFM (13.6 nl/min)
@ 87 PSI (0.6 MPa)	0.71 SCFM (20 nl/min)	0.78 SCFM (22.0 nl/min)
@ 116 PSI (0.8 MPa)	0.98 SCFM (27.8 nl/min)	1.08 SCFM (30.5 nl/min)
@ 145 PSI (1.0 MPa)	1.26 SCFM (35.7 nl/min)	1.38 SCFM (39.0 nl/min)
Min. Air Consumption		
@ 29 PSI (0.2 MPa)	6.9 SCFM (200 nl/min)	
@ 58 PSI (0.4 MPa)	12.8 SCFM (370 nl/min)	
@ 87 PSI (0.6 MPa)	18.8 SCFM (540 nl/min)	
@ 116 PSI (0.8 MPa)	24.7 SCFM (710 nl/min)	
@ 145 PSI (1.0 MPa)	30.6 SCFM (880 nl/min)	
Max. Supply Pressure	150 PSI (1.0 MPa)	
Temperature Range	-4°F to +185°F (-20°C to +85°C)	
Connector Threads	1/4" NPT	
Gauge Threads	1/8" NPT	
Weight	2.4 Lbs. (1.1 kg)	3.4 Lbs. (1.5 kg)
Housing	Die Cast Aluminum	
Surface Treatment	ED Epoxy Paint (Black)	
Fasteners	A2/A4 Stainless	
Ingress Protection	IP66 / NEMA4	
Deadband	-	≤ 0.15%
Min. Supply Pressure	-	21 PSI (0.14 MPa)
Conduit Entry	-	1/2" NPT pr PG 13.5 (M20)
Terminals	-	2.5mm (AVG 14) Screw Terminals
Input Impedance	-	170-260 Ohms at 71°F (20°C)
RFI Influence	-	Not Measurable
Capacitance	-	Negligible
Supply Pressure Effect	-	0.5%/15 PSI (0.1 MPa)
Cenelec Intrinsically Safe	-	Eex ia IIC T4-T6
FM Intrinsically Safe	-	Div 1, Class 1, Group ABCD
CSA Intrinsically Safe	-	Div 1, Class 1, Group ABCD

* Percent of full scale