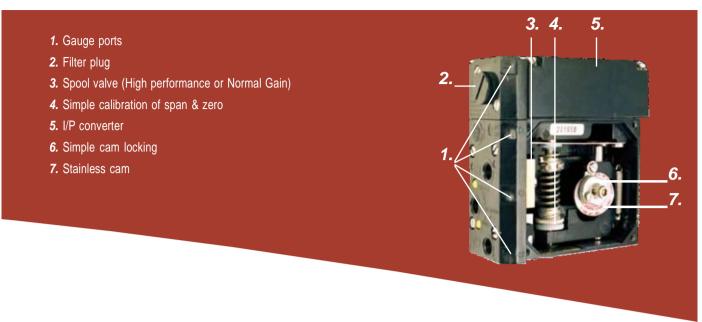


EP5 Electropneumatic positioner

Product Information





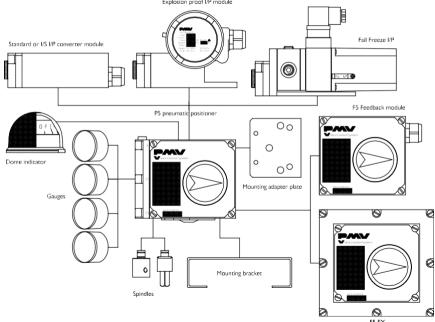


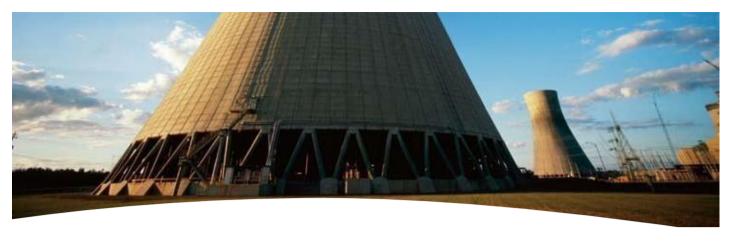
EP5 Electropneumatic Positioner

EP5

- Modular, sturdy, simple, reliable design.
- Tapped exhaust port.
- Easy to add on Feedback Unit F5.
- Simple calibration, external zero adjustment.
- High gain pilot valve.
- Built in gauge ports.
- Bright visible indicator, flat or Dome style.
- Stainless steel cam.







Technical data

Deadband	<u><</u> 0.15%
Input signal	4–20 mA
Linearity	<u>≤</u> 1%*
Hysteresis	≤ 0.75%*
Repeatability	≤ 0.5%*
Air supply	Max. 1 MPa/150 Psi, Oil, water and dustfree
	Min. 0.14 MPa/21 Psi
Connector threads	1/4" NPT or G (BSP)
Gauge threads	1/8" NPT or G (BSP)
Counduit entry	1/2" NPT or M20
Terminals	2.5 mm² (AWG 14) Screw terminals

Gain factor at: 600 KPa/87 Psi
High Performance Version
Min: 1000 KPa/KPa
Min: 450 KPa/KPa
Min: 450 KPa/KPa
Min: 30%/%
Min: 30%/%

Max. air consumption at supply pressure:

max. an consumption a	LSUPPIN	pi cooui c.		
0.2 MPa/29 Psi		6.1 nl/min (0.22 SCFM)	2.7 nl/min (0.1 SCFM)	
0.4 MPa/58 Psi		13.6 nl/min (0.48 SCFM)	6.1 nl/min (0.21 SCFM)	
0.6 MPa/87 Psi		22 nl/min (0.78 SCFM)	9.9 nl/min (0.35 SCFM)	
0.8 MPa/116 Psi		30.5 nl/min (1.08 SCFM)	13.7 nl/min (0.48 SCFM)	
1 MPa/145 Psi		39 nl/min (1.38 SCFM)	17.5 nl/min (0.62 SCFM)	

Min. air delivery at supply pressure:

0.2 MPa/29 Psi	200 nl/min (6.9 SCFM)	156 nl/min (5.5 SCFM)	
0.4 MPa/58 Psi	370 nl/min (12.8 SCFM)	288 nl/min (10.1 SCFM)	
0.6 MPa/87 Psi	540 nl/min (18.8 SCFM)	421 nl/min (14.8 SCFM)	
0.8 MPa/116 Psi	710 nl/min (24.7 SCFM)	553 nl/min (19.4 SCFM)	
1 MPa/145 Psi	880 nl/min (30.6 SCFM)	686 nl/min (24 SCFM)	

Input impedance	170–260 Ohms at 20°C (71°F)
RFI influence	Not measureable
Capacitance	Negligible
Position sensivity	None
Supply pressure effect	0.5%/0.1 MPa (15 Psi)
Temperature range	-20°C to +85°C/(-4°F to +185°F)
Low temp option	-40°C to +85°C/(-40°F to +185°F)
Weight	1.5 kg/3.4 lbs
Housing	Die cast aluminum
Surface treatment	ED Epoxy paint, black
Fasteners	A2/A4 Stainless
Ingress protection	IP 66/NEMA 4

Approvals

Appioraio			
ATEX	Intrinsically safe	EEX ia IIC T4-T6 (Ex) II 1 G	
	Flameproof**	EEX d IIC T4-T6(Ex) II 2 G	Non-electrical device P5 🖘 II 1 G
FM	Intrinsically safe	Div.1, Class 1 Group ABCD	
	Explosion proof**	Div.1, Class 1 Group BCD	
CSA	Intrinsically safe	Div.1, Class 1 Group ABCD	
	Explosion proof**	Div.1, Class 1,2,3 Group BCDEFG	

^{*} Percent of full scale

^{**} I/P in round housing





Modular

- EP5 For all normal applications
- EP5-EX Explosion proof
- EP5-FS Fail freeze
- EP5-IS Intrinsically safe





EP5 Series Coding

Model

EP5XX EP5 Double acting pneumatic EP5FS Fail freeze function

Intrinsically safe, ATEX, FM, CSA Explosion proof ATEX EP5IS EP5EX Explosion proof CSA, FM EP5US

Spool valve

HP High performance LB Normal Gain

Connections

NPT ¼" , El. ½" NPT G G 1/4" air, M20 x 1,5 electric M NPT 1/4" air, M20 x 1,5 electric

Surface treatment

U Epoxy coating Tufram

Spindle

01, 23 etc 01 to 39. See dwg SPNDLS_P5

Cam

K01, K08 etc K01 to K34

Front cover

PV9DA* 90°, Direct, arrow indicator

Input signal 4-20 input

Temperature

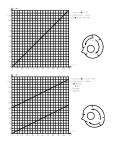
Nitrile seals -20°C to +85°C Silicon seals, -40°C to +85°C Q

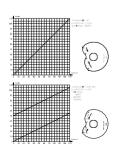
*For 30, 45, 60 deg rotation, change PV9 to PV3, PV4 or PV6

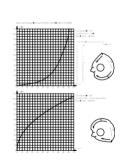
EP5XX-HPNU-23K01-PV9DA-4Z

Cams

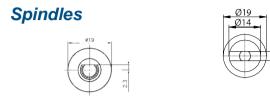


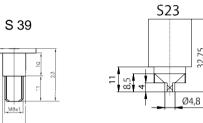


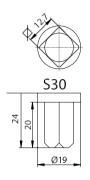


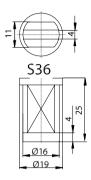


K1 K8 K3

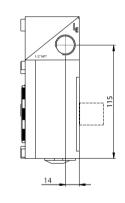


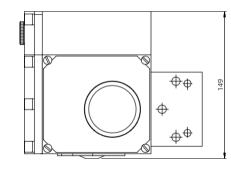


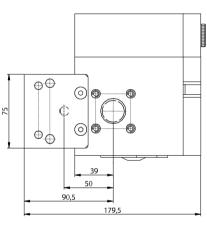




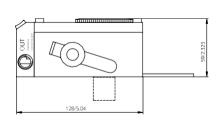
Dimensions drawings (mm)

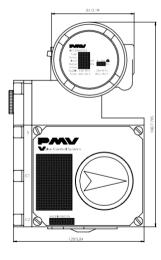


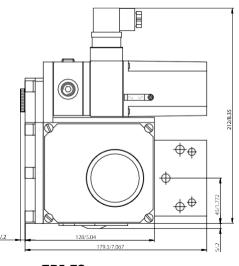




EP5







EP5

EP5 EX

EP5-FS





p/n: FCD PMENBR0006-02









Intrinsically safe

ATEX EEX ia IIC T4-T6 🕟 II 1 G CSA, FM Class 1, Div 1, Group ABCD

ATEX EEX d IIB+H2, T4-T6 $\langle x \rangle$ II 2 G CSA, FM Div 1, Class 1,2 & 3

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