

Explosion-proof EP Positioners

Robust valve control device giving a confidence in reliable performance and outstanding durability under harsh working environments

Features

- Easy maintenance
- Precise calibration with simple SPAN and ZERO adjustments
- Simple conversion to direct acting or reverse acting
- 1/2 split range available
- Rugged aluminum housing with corrosion-resistant coating
- Vibration resistant design
- Stainless steel gauges standard
- Restricted pilot valve orifice kit for small actuators included
- UL-certified flameproof
Class 1, Division 1, Groups C, D T6, Type 4X

Options

- Position transmitter (4...20 mA output signal)
- High temperature (+120 °C)
- Low temperature (-40 °C)



Specifications

	EPL		EPR	
	Linear Type (Lever Feedback)		Rotary Type (Cam Feedback)	
	Single	Double	Single	Double
Input Signal	4~20 mA DC (Note. 1)		4~20 mA DC (Note. 1)	
Input Resistance	235 ± 15 Ω		235 ± 15 Ω	
Air Supply	Max. 7.0 bar (100 psi) free of oil, water, and moisture		Max. 7.0 bar (100 psi) free of oil, water, and moisture	
Standard Stroke	10~80mm (Note. 2)		60~100°	
Pneumatic Connections	NPT 1/4		NPT 1/4	
Electrical Connections	NPT 1/2		NPT 1/2	
Protection Class	Class 1, Division 1, Groups C, D T6 Type 4X		Class 1, Division 1, Groups C, D T6 Type 4X	
Ambient Temperature	-20 ~ +70 °C (Note. 3)		-20 ~ +70 °C (Note. 3)	
Pressure Gauge	Stainless steel		Stainless steel	
Output Characteristics	Linear		Linear	
Linearity	Within ±1.0 % F.S	Within ±1.5 % F.S	Within ±1.0 % F.S	Within ±1.5 % F.S
Sensitivity	Within ±0.2 % F.S	Within ±0.5 % F.S	Within ±0.5 % F.S	
Hysteresis	Within 1.0 % F.S		Within 1.0 % F.S	
Repeatability	Within ±0.5 % F.S		Within ±0.5 % F.S	
Air Consumption	5 LPM (Sup. 1.4 kgf/cm ²)		5 LPM (Sup. 1.4 kgf/cm ²)	
Flow Capacity	80 LPM (Sup. 1.4 kgf/cm ²)		80 LPM (Sup. 1.4 kgf/cm ²)	
Material	Aluminum die-cast		Aluminum die-cast	
Weight	3.3 kg (with terminal box) 3.0 kg (without terminal box)		3.5 kg (with terminal box) 3.2 kg (without terminal box)	

Note : 1) 1/2 split range is available for 4~12mA input signal or 12~20mA input signal
2) Feedback lever can be extended to stroke 80 ~ 150mm

3) Temperature option : up to +120 °C without feedback options
up to +85 °C with feedback options
up to -40 °C without feedback options

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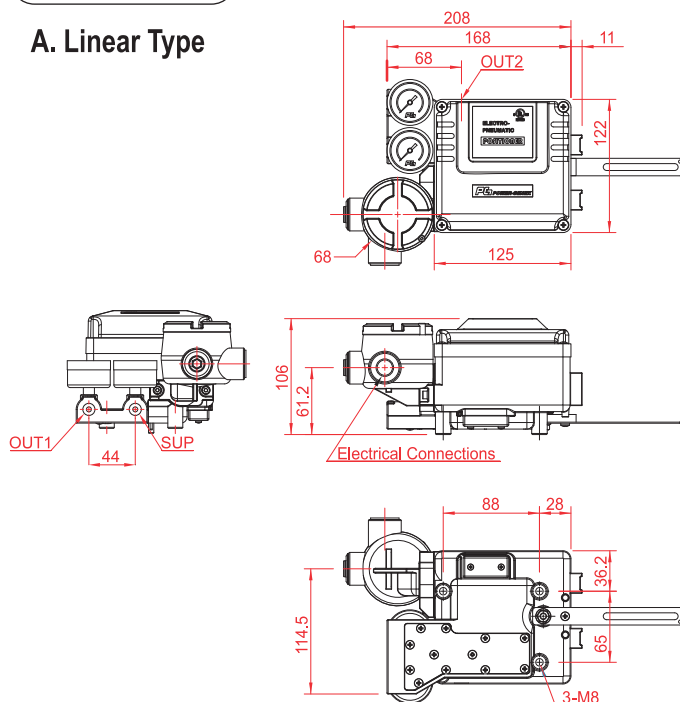


How to Order

EP	Operating Type	Protection Class	Feedback Shaft	Pressure Gauge (SUP. OUT)	Pilot Valve Orifice	Position Feedback	Connection Threads	Dome Indicator	Operating Temp.	Mounting Bracket
Description		Code								
Operating Type		L : Linear R : Rotary								
Protection Class :		U :  us Flameproof Class 1, Division 1, Groups C, D T6 W : Wetherproof Type 4X								
Feedback Shaft : - Linear type		A : Stroke 10 ~ 40mm B : Stroke 10 ~ 80mm C : Stroke 80 ~ 150mm								
- Rotary type		N : NAMUR shaft (direct mounting) A : Fork lever M6 x 40L B : Fork lever other size on request								
Presure Gauge :		1 : 6 bar (90 psi) 2 : 10 bar (150 psi)								
Pilot Valve Orifice :		S : Standard (Actuator volume over 180cm ³) M : Small orifice (φ1.0 or φ0.7) (Actuator volume over 90 ~ 180cm ³)								
Position Feedback : (only for weatherproof type)		N : None (standard) O : Analog position transmitter (4 ~ 20mA output signal) L : 2 x SPDT limit switch (only rotary) P : 2 x proximity sensor (only rotary) M : O + L (only rotary) Q : O + P (only rotary)								
Description		Code								
Connection Threads : (pneumatic - electrical)		4 : NPT 1/4 - NPT 1/2								
Dome Indicator : (only for weatherproof type)		Linear type is Blank N : Flat indicator (standard) D : Dome indicator								
Operating Temperature : (only for weatherproof type)		T : 70 °C (standard) H : 120 °C (without position feedback option) 85 °C (with position feedback option) L : - 40 °C (without position feedback option)								
Mounting Bracket : Linear type		N : None L : IEC 60534-6-1 bracket								
Rotary typ		N : None								
- NAMUR Shaft type :		R : Multi-size NAMUR bracket for IEC 60534-6-2 / VDI/VDE 3845 (130x30x50 bracket on request)								
- Fork Lever type :		F : PG bracket 80x30 for fork lever type E : Multi-size NAMUR bracket for fork lever type (130x30x50 bracket on request)								

Dimensions

A. Linear Type



A. RotaryType

