

Electro-pneumatic positioners

EPL and EPR series

6.6.02-D

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EPL and EPR series are the rugged control devices which stand up to harsh environments and engineered to meet the highest and most demanding control performance that the process industries of today require.

Characteristics

- Easy maintenance
- Precise calibration with simple SPAN and ZERO adjustments
- Simple conversion to direct acting or reverse acting
- ½ split range available
- Rugged aluminium housing with corrosion-resistant coating
- Vibration resistant design
- Stainless steel gauges standard
- Restricted pilot valve orifice kit for small actuators included

Options available

- Position transmitter (4-20 mA output signal)
- Two limit switches (open and close) - only for EPR
- Certificate for ATEX Ex Eex md IIB T5 (05 ATEX 1076X) by NEMKO in conformance with EN 50014:1997, EN 50018:2000 and EN 50028:1987
- Certificate for EMC (K1046 / E04) in conformance with EN 61000-6-2:2001 and EN 61000-6-4:2001 by RWTUV
- Certificate for Ex md IIB T6 (99-1075-Q1), Ex md IIC T6 (2000-1057-Q1) and Ex ia IIB T6 (2000-1056-Q1) by KOSHA

EPL (Linear Type)



EPR (Rotary Type)



Specifications

	EPL		EPR	
	Linear type (lever feedback)		Rotary type (cam feedback)	
	Single	Double	Single	Double
Input signal	4-20 mA, 24 V DC ¹⁾			
Input resistance	235 ±15 Ω			
Supply air pressure	Max. 7.0 bar (100 psi)			
Standard stroke	10-80 mm ²⁾		60-100° ³⁾	
Pneumatic connections	Rc ¼ or NPT ¼			
Electrical connections	G½ or NPT ½			
Protection class	IP66			
Ambient temperature	-20° ... +70°			
Pressure gauge	Stainless Steel			
Output characteristics	Linear			
Linearity	Within ±1.0% F.S.		Within ±1.5% F.S.	
Sensitivity	Within ±0.2% F.S.		Within ±0.5% F.S.	
Hysteresis	Within ±0.5% F.S.		Within ±1.0% F.S.	
Repeatability	Within ±0.5% F.S.			
Air consumption	5 LPM (Sup. 1.4 kgf/cm ²)			
Flow capacity	80 LPM (Sup. 1.4 kgf/cm ²)			
Body material	Aluminium Diecast			
Weight	2.9 kg (with a terminal box)			

¹⁾ ½ split range can be adjusted.

²⁾ Feedback lever is available for strike 80-150 mm (EPL).

³⁾ Stroke can be adjusted to 0-60° or 0-100° (EPR).

Subject to changes without notice.

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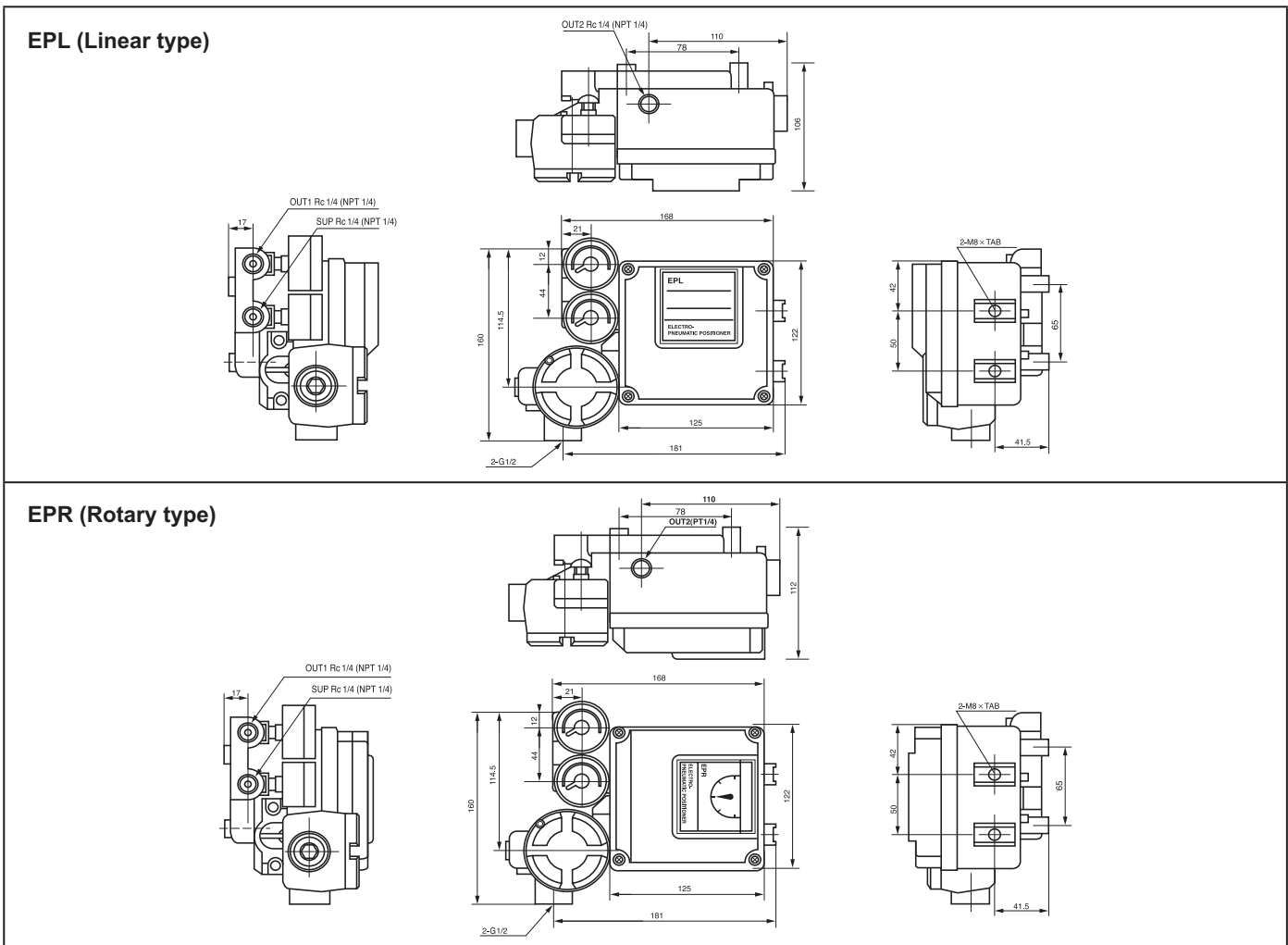
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How to order

EP	Actuator Operation	Protection Class	Feedback Lever	Pressure Gauge (SUP.OUT)	Pilot Valve Orifice	Position Feedback	Mounting Bracket
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Description	Code	Description	Code
Actuator operation:	L : Linear type R : Rotary type	Pilot valve orifice:	S : Standard (actuator volume over 180 cm ³) M : Small orifice (∅ 1.0 or ∅ 0.7) (actuator volume 90-180 cm ³)
Protection class:	F : Flameproof (Ex md IIB T6/Ex md IIC T6) I : Intrinsic Safety (Exia IIB T6) W : Weatherproof to IP66 A : Flameproof (Eex md IIB T5 for ATEX )	Position feedback: (only for weather-proof)	N : None O : Position transmitter (4-20 mA output signal) L : Two SPDT limit switches (only for EPR)
Feedback lever:	• Linear type A : Stroke (10-80 mm) B : Stroke (70-150mm)	Mounting bracket:	N : None L : DIN/IEC534 (for EPL) R : DIN VDI/VDE3845 (for EPR) F : DHCT bracket 80 × 30
• Rotary type A : Fork level M6 × 40L B : Fork level other size on request N : Namur Shaft (direct mounting)			
Pressure gauge:	1 : 6 bar (90 psi) 2 : 10 bar (150 psi)		

Dimensions (mm)



Subject to changes without