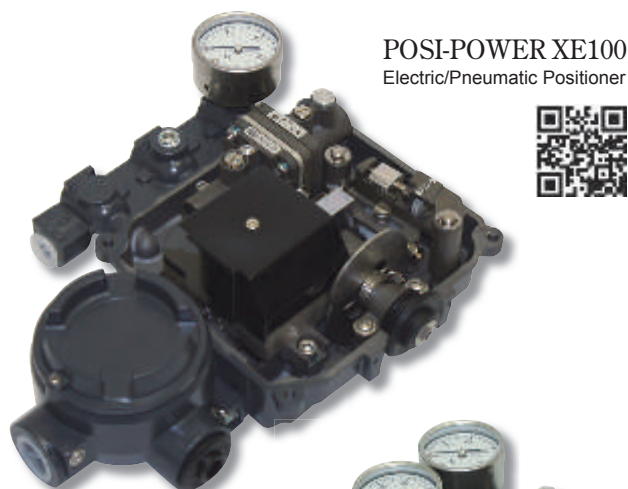


Xseries



POSI-POWER XE100
Electric/Pneumatic Positioner



POSI-POWER XP100
Pneumatic/Pneumatic Positioner



Features

Mounting kits interchangeable between E/P and P/P

Linear Motion and Rotary Motion are available

3 kinds of pilot relays. normal, stable and quick speed

No resonance 5 to 200 Hz (2G)

Innovative design supports various mounting position

4 types of characteristics are available with a single standard cam

Specification

XE

Specification	Single acting	Double acting
Input signal / Resistance	4 to 20 mA/250 Ω (1/2 split range adjustment is also available.)	
Supply air pressure	0.14 to 0.7 MPa	
Stroke / Open angle	Linear motion: 10 to 100 mm Rotary motion: 60 to 90°	
Air connection	Standard: Rc1/4 (Gauge Rc1/8) Option: 1/4 NPT (Gauge 1/8 NPT)	
Electrical connection	Standard: G1/2 (PF1/2) Option: 1/2 NPT	
Wiring method	Conduit method or Pressure-tight packing method	
*1 Pressure gauge (output pressure)	Standard: 0 to 0.2 MPa, 0 to 0.4 MPa, 0 to 1.0 MPa(R) Option: kPa (R, NPT), psi, bar (NPT)	
Protection of enclosure	IP65 (IEC 529-1989)	
*2 Construction	Standard: Non-explosion proof Flameproof: Ex d IIB T6 Flameproof H ₂ : Ex d IIB+H ₂ T6	
Cam	Standard: Linear characteristics Option: Eq%, (S3 model) reverse Eq%, square-law	
*3 Ambient temperature	Standard: (S) -20 to 83°C Low temp. construction: (L) -50 to 60°C High temp. construction: (H) 0 to 100°C Ex d IIB T6: -20 to 60°C Ex d IIB+H ₂ T6: -20 to 60°C	
Weight	Approx.2 to 2.6 kg	Approx.2.3 to 2.7 kg
Material	Base: Aluminium Diecasting Standard cover: PBT resin (Mixed Glass Fiber) Option cover: Aluminium Diecasting	

*1 Contact us for kPa, psi, bar displays.

*2 Type of certificates are listed on the page 21.

*3 The explosion proof type is only available for the standard products.

* Dry air (dew point -30°C) is required.

* Air filter 5 μm is required.

XP

Specification	Single acting	Double acting
Input signal	Standard: 20 to 100 kPa (1/2 split range adjustment is also available.)	
Supply air pressure	0.14 to 0.7 MPa	
Stroke	Linear motion: 10 to 100 mm Rotary motion: 60 to 90°	
Air connection	Standard: Rc1/4 (Gauge Rc1/8) Optional: 1/4 NPT (Gauge 1/8 NPT)	
*1 Pressure gauge (output pressure)	Standard: 0 to 0.2 MPa, 0 to 0.4 MPa, 0 to 1.0 MPa(R) Option: kPa (R, NPT), psi, bar (NPT)	
Construction	Non-explosion proof	
Cam	Standard: Linear characteristics Option: Non-linear characteristics	
Ambient temperature	Standard: (S) -20 to 83 °C Low temp. : (L) -50 to 60 °C High temp. : (L) 0 to 100 °C	
Weight	Approx. 1.3 kg	Approx. 1.4 kg
Material	Base: Aluminium Diecasting Standard cover: PBT resin (Mixed Glass Fiber) Option cover: Aluminium Diecasting	

*1 Contact us for kPa,psi,bar displays.

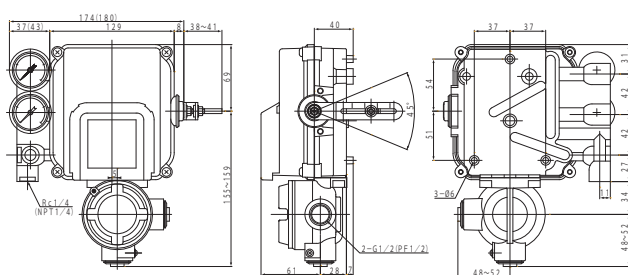
* Dry air (dew point -30°C) is required.

* Air filter 5 μm is required.

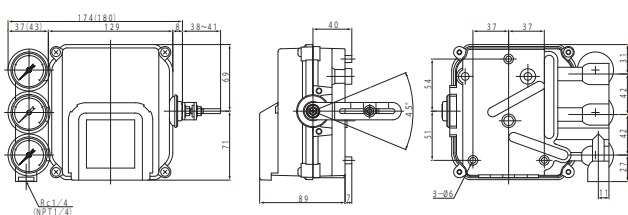
Dimension

Linear motion / Side lever type

XE1●●-SS1

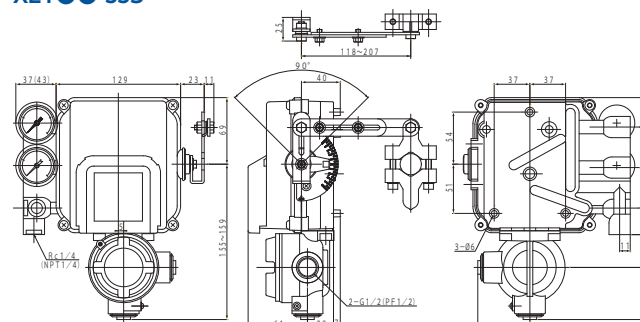


XP10●●-SS1

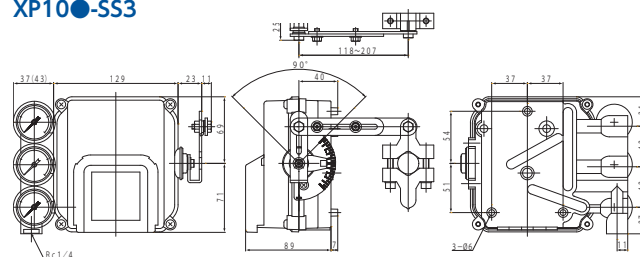


Rotary motion / Linkage lever type

XE1●●-SS3

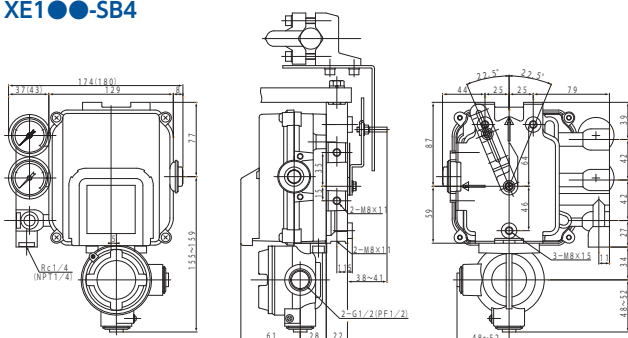


XP10●●-SS3

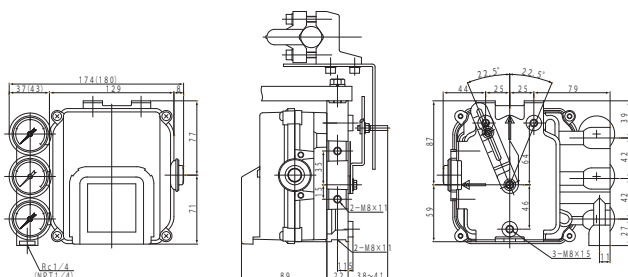


Linear motion / Back lever type

XE1●●-SB4

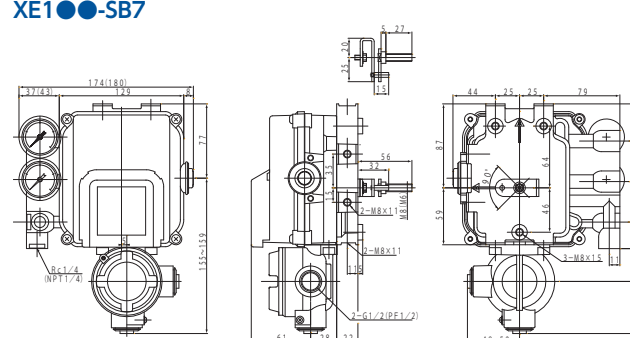


XP10●●-SB4

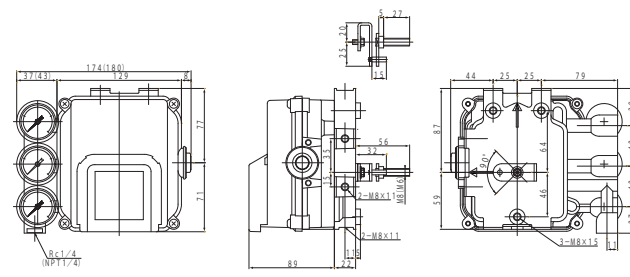


Concentric rotary motion / Back lever type

XE1●●-SB7



XP10●●-SB7



Notation table

1	2	3	-	4	5	/	6	7	8	9

Specification		Definition	Code	
1	Basic code	XE100 - I/P Positioner XP100 - P/P Positioner	XE 1	XP 1
2	Construction *	Non-explosion proof	0	0
		Flameproof IP65 Ex d IIB T6 (TIIS) enclosure	5	—
		Flameproof IP65 Ex d IIB+H ₂ T6 (TIIS) enclosure	6	—
3	Connection & acting	Single acting, Rc 1/4	1	
		Double acting, Rc 1/4	2	
		Single acting, 1/4 NPT	3	
		Double acting, 1/4 NPT	4	
4	Ambient temperature	Standard: -20 to 60 °C (Flameproof) Standard: -20 to 83 °C (Non-explosion proof)	S	
		Low temp construction: -50 to 60 °C	L	
		High temp construction: 0 to 100 °C	H	
5&9	Mounting & Cam	Linear motion / side lever type / 4 phases cam: linear & near equal %	S1 / C1a	
		Rotary motion / linkage lever type / 2 phases cam: linear	S3 / C3L	
		Rotary motion / linkage lever type / 2 phases cam: near equal %	S3 / C3E	
		Rotary motion / linkage lever type / 2 phases cam: square-law	S3 / C3B	
		Rotary motion / linkage lever type / 2 phases cam: near reverse equal %	S3 / C3P	
		Linear motion / back lever type / 4 phases cam: linear & near equal %	B4 / C4La	
6	Outlet pressure gauge	Rotary motion / top mount type / 2 phases cam: linear	B7 / C7L	
		0.2 MPa, 0.4 MPa, 1.0 MPa	M2, M4, M0	
		200 kPa, 400 kPa, 1000 kPa	K2, K4, K0	
		30 psi, 60 psi, 150 psi	P2, P4, P0	
7	Pilot relay	2 bar, 4 bar, 10 bar	B2, B4, B0	
		Standard: with filter mesh protector	F1 - F6	
		Standard: with cleaning pin	Q1 - Q6	
		Stable: with filter mesh protector	G1 - G6	
		Stable: with cleaning pin	J1 - J6	
		Quick speed: with filter mesh protector	R1	
8	Input signal	Quick speed: with cleaning pin	T1	
		*Number represents orifice size: 1= ϕ 5.0 2= ϕ 2.0 4= ϕ 1.0 5= ϕ 0.7 6= ϕ 0.45		
		4 to 20 mA	M1	—
		4 to 12 mA	M2	—
		12 to 20 mA	M3	—
		20 to 100 kPa	—	B1
		20 to 60 kPa	—	B2
		60 to 100 kPa	—	B3

*Type of certificates are listed on the page 21.

