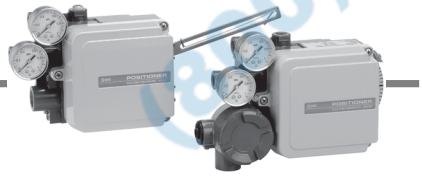
Electro-Pneumatic Positioner

Series IP8000/8100

How to Order



IP8 [000] – 0 [0] [0] [ ]

Type

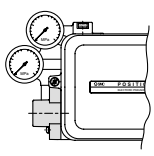
000	Lever type feedback
100	Rotary type

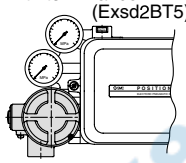
Pressure gauge

0	None
1	0.2MPa
2	0.3MPa
3	1.0MPa

Construction

0	1 Note 1)
No terminal box	With terminal box (Exsd2BT5)





Accessories Note 2)

Nil	None (Standard)	IP8000 has standard lever for stroke (10 to 85mm)
A Note 3)	ø0.7 Output restriction with pilot valve	Accessory for IP8000, 8100 small capacity actuator
B Note 3)	ø1.0 Output restriction with pilot valve	
C	Fork lever joint M	Accessory for IP8100
D	Fork lever joint S	
E Note 4)	For stroke 35 to 100mm with lever unit	Accessory for IP8000
F Note 4)	For stroke 50 to 140mm with lever unit	
G Note 5)	Compensation spring (A)	For IP8000, 8100
H	With external scale plate	Accessory for IP8100
J Note 6)	With opening current transmission (4 to 20mA DC)	Accessory for IP8100

Note 1) For construction No.1(with terminal box), the ambient and fluid temperatures are as follows:
- Exd2BT5 —— –20 to 60°C
- Non-explosion proof (non hazardous locations only) ———— –20 to 80°C

The positioner body is EXd2BT5 labeled.
Note 2) If two or more accessories are required, the part numbers should be made according to alphabetical order. (ex. IP8000-011-AG)
Note 3) "A" is applied to approx 90cm^3-capacity actuator.
"B" is applied to approx 180cm^3-capacity actuator.
Note 4) Standard lever is not attached.
Note 5) It is to be used together with "A" or "B" when tending to overshoot by the use of "A" or "B". It is mounted to the body as a replacement of the standard compensation spring.
Note 6) With terminal box, Non-explosion proof. Select "1" for the construction.

Specifications

Item \ Type	IP8000		IP8100	
	Lever type lever feedback		Rotary type cam feedback	
	Single action	Double action	Single action	Double action
Input current	4 to 20mADC Note 1)			
Input resistance	235±15Ω (4 to 20mADC)			
Supply air pressure	0.14 to 0.7MPa			
Standard stroke	10 to 85mm (Deflection angle 10 to 30°)		60 to 100° Note 2)	
Sensitivity	Within 0.1%F.S.	Within 0.5%F.S.		
Linearity	Within ±1%F.S.	Within ±2%F.S.		
Hysteresis	Within 0.75%F.S.	Within 1%F.S.		
Repeatability	Within 0.5%F.S.			
Coefficient of temperature	Within 0.1%F.S. / °C			
Supply pressure fluctuation	Within 0.3%F.S./0.01MPa			
Output flow	80ℓ/min (ANR) or more (SUP = 0.14MPa)			
	200ℓ/min (ANR) or more (SUP = 0.4MPa)			
Air consumption	5ℓ/min (ANR) or less (SUP = 0.14MPa)			
	11ℓ/min (ANR) or less (SUP = 0.4MPa)			
Ambient and fluid temperature	–20 to 80°C (Non-explosion proof) –20 to 60°C (Flame proof and explosion proof)			
Explosion proof construction	Flame proof and explosion proof construction: Exd2BT5 (Certificate number: C15916 of Technology Institution of Industrial Safety)			
Air port	Rc 1/4 female			
Electrial connection	G 1/2 female			
Wiring method	Flame proof packing system, Sealant fitting system (explosion-proof)			
	Resin G 1/2 connector (Non-Explosion proof, option)			
Exterior covering enclosure	JISF8007, IP65 (conforms to IEC Pub.529)			
Material	Aluminum diecast body / epoxy resin			
Weight	With terminal box 2.6kg (None 2.4kg)			

Note 1) 1/2 Sprit range (Standard)
Note 2) Stroke adjustment: 0 to 60°C, 0 to 100°C

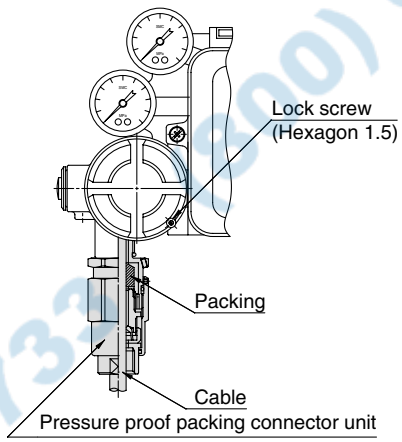
Explosion Proof

This product has the following approvals.
Exd2BT5: Newly established standard based on international (IEC 79)

Use as Exd2BT5

(A) Pressure-proof packing.
As shown below in the chart, use "Cable gland" (option).

(B) Metal Piping.
Attach the sealant fitting near the cable port.
(For details, refer to "The guideline on electric equipment explosion proof" published by the Technology Institution of Industrial Safety.)



Cable gland with flame proof packing (Option)

Part name	Part number	Suited cable outer diameter
Flame proof packing connector unit	P368010-32	ø7.0 to ø10.0
	P368010-33	ø10.1 to ø12.0