

BP-1000 Electro-Pneumatic Valves Positioner

<http://www.belef.cn>

1. GENERAL

The BP-1000 Series Positioner, mounted on a pneumatic actuator, moves the actuator by receiving DC 4~20mA signals from a controller. Also, the function of detecting and returning the actuator displacement provides accurate positioning in response to DC 4~20mA signals. The BP-1000 can be used with both spring return and double acting actuators.

2. FEATURES

- High anti-vibration (none effective in 5~200Hz)
- The linking of air duct is perforated form, convenient for the linking in all direction.
- Convenient for the transform of positive action and counteraction.
- 1/2 split range available by simple adjustments without changing parts.
- Simple structure for feedback connection.
- Economical energy saving.



3. TECHNICAL DATA

Description	Model	BP-1000L		BP-1000R	
		Linear		Rotary	
		Single	Double	Single	Double
Input signal	4~20mA DC				
Impedance	250±15Ω				
Supply pressure	1.4~77kgf/cm ² (20~100psi)				
Stroke	10~150mm		0~90°		
Air connection	PT(NPT)1/4				
Gauge connection	PT(NPT)1/8				
Conduit	PF1/2(G1/2)				
Explosion proof	Exdm II B(C)T6 Exia II BT6				
Protection	IP66				
Ambient temperature	-20℃~70℃ (-4~158℉)				
Linearity	±1%F.S. ±2%F.S.				
Hysteresis	±1%F.S.				
Sensitivity	±0.2%F.S. ±0.5%F.S.				
Repeatability	±0.5%				
Air consumption	3LPM (Sup=1.4kgf/cm ² , 20psi)				
Flow capacity	80LPM (Sup=1.4kgf/cm ² , 20psi)				
Material	Aluminum alloy				
Weight	2.7kg (6lb)		2.8kg (6.2lb)		



PTM

Input type	2Wire
Input Signal	0~90°
Output Signal	4-20mA DC
Load Resistance	0~600 Ohm
Noise Range	50mVp.p
Linearity	±1%
Sensitivity	±0.2%
Hysteresis	0.20%
Supply Voltage	15~30V DC

4. ORDERING SYMBOLS

BP-1000 □ □ □ □ □

	Actuator	Acting type	Explosion proof	Lever type		pilot valve vent	Option
				Linear	Rotary		
BP-1000	L Linear	S Single	M Exdm II BT6	① 10~40mm	① M6×40L	① < 90cm ²	(0) None
		D Double	C Exdm II CT6	② 40~70mm	② M6×63L	② 90~180cm ²	① +PTM (Internal)
	R Rotary		I Exia II BT6	③ 70~100mm	③ M8×40L	③ > 180cm ²	② +L/S (External)
			N Non-Explosion	④ 100~130mm	④ M8×63L		③ +PTM+L/S (Internal)
				⑤ 130~150mm	⑤ NAMUR		