



# ENTECH CONTROLS

## ELECTRO PNEUMATIC POSITIONER



[www.entechcontrols.com](http://www.entechcontrols.com)



**Positioner design featuring better performance.**

## VP 2100 SERIES

### Features

- Compact design, rugged construction with rigid ISO 5211 Mounting
- Vibration resistant because of its unique design and construction
- Quick and ultra-precise response of the torque motor
- Special polymer shaft bush with built in grease reservoir to avoid shaft seizure due to formation of Aluminium oxide
- Split range control can be easily adopted by change in few internal components
- Simple to convert from direct acting to reverse acting or vice versa
- The springs exhibit a stable force along with a highly balanced diaphragm
- Low hysteresis due to lip seal instead of an O-ring which result in high gain and low friction
- Various orifice size option available for different volume of actuator to prevent from hunting and also for controlling speed
- Easy and precise calibration with Zero and Span adjustment
- All the internal parts are hard anodized
- Bright visual indicator on both flat and high dome type positioners
- Internal and external mounting of the position transmitter and limit switch made possible and easy
- No component is exposed, thus preventing from corrosion in hazardous environment
- IP66 protection

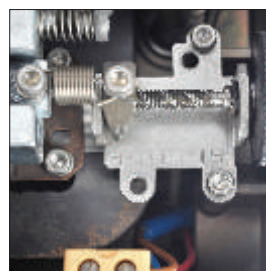


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### SPAN ADJUSTMENT

- Highly precise span adjustment
- Well designed spring force for uniform setting



### ZERO ADJUSTMENT

- Highly precise zero adjustment
- Ease of setting and calibration
- Wide range of zero setting



### HIGHLY BALANCED SPRING MECHANISM

- High repeatability and linearity
- Critically designed springs avail wide range of zero and span setting



### TRANSMITTER

- Spring loaded mechanism to give zero backlash
- Large zero and span setting available

## Electro-Pneumatic Valve Positioner Datasheet(VP 2100 Series)

The Electro-Pneumatic Positioner is used for operation of pneumatic linear/rotary valve actuators by mean of electrical controller or control system with an analog output signal of DC 4 to 20mA or split ranges.

### Features:

Simple zero and span adjustment

No resonance between 5-200Hz

Auto/Manual switch

Reverse Vs. Direct action and 1/2 split range setting by simple adjustment

Internal feedback signal is available (weather proof only)

### Specifications:

Input Signal	4~20mA DC
Impedance	250±15Ω
Supply Pressure	1.4~7.0kg/cm <sup>2</sup> (20-100psi)
Stroke	10~150mm/ 0-90 degree
Air Connection	NPT 1/4"
Gauge Connection	NPT 1/8"
Conduit Entry	NPT 1/2" or G 1/2"
Protection	IP66
Operating Temp.	-40°C to +120°C
Linearity	±1.0% F.S
Hysteresis	±1.0% F.S
Sensitivity	±0.2% F.S
Repeatability	±0.5% F.S
Flow Capacity	3 SCFM

Ordering Information : VP-2100



Model	Acting Type	EX-proof	Lever Type	Orifice Type	Option
<b>L</b> Linear	<b>S</b> Single	<b>m</b> Exd II BT6	Linear	<b>1</b> φ 1	<b>1</b> None
		<b>i</b> Exia II BT6	<b>1</b> 10-40mm	<b>2</b> φ 2	<b>2</b> +PTM(4-20ADC)
		<b>c</b> Exd II CT6	<b>2</b> 40-70mm	<b>3</b> None	<b>3</b> +L/S(2xSPDT)
<b>R</b> Rotary	<b>D</b> Double	<b>n</b> Non-Explosion	<b>3</b> 70-100mm		<b>4</b> +AFR
			<b>4</b> 100-130mm		
			<b>5</b> 130-150mm		
			Rotary		
			<b>1</b> M6x40L		
			<b>2</b> M6x63L		
			<b>3</b> M8x40L		
			<b>4</b> M8x63L		
			<b>5</b> NAMUR		

#### Nashik works:

95/7, Road No. 19, MIDC, Satpur,  
Nashik - 422007, Maharashtra, India.  
Tel: +91 253 2352773  
Mobile: +91-9867370512.  
sales@entechcontrols.com

#### Mumbai works:

122, Guru Gobind Singh Indl. Estate,  
Western Express Highway, Goregaon(E),  
Mumbai - 400063, Maharashtra, India.  
Tel: +91 22 26854196.  
sales@entechcontrols.com