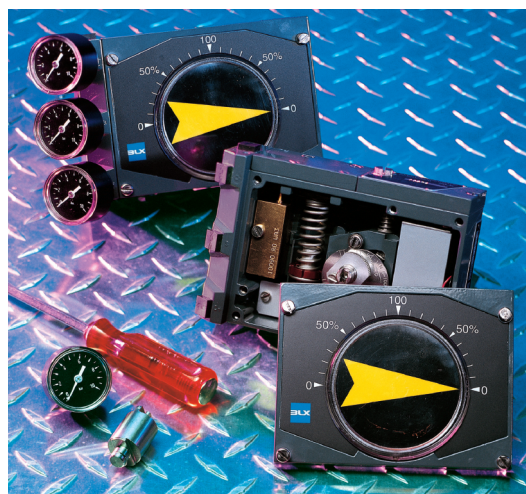


# V100 Positioner

## Pneumatic/Electro-pneumatic Control Valve Positioner



- ▶ **Pneumatic or electro-pneumatic**
- ▶ **Quick, simple calibration**
- ▶ **External zero adjustment**
- ▶ **Non-interactive zero and span**
- ▶ **NEMA 4x housing**
- ▶ **Stainless steel fasteners and cam**
- ▶ **Modular for easy updates/additions**



Red Valve's V100 Positioner is used on pneumatically-actuated valves to provide precise throttling control. All Red Valve Control Valves feature a direct, mechanical connection between valve and positioner for greater accuracy and repeatability.

The V100 is rugged, able to withstand operating temperatures from -40 to +185 °F standard. The V100 features a polyester-coated aluminum body that is NEMA 4x-approved, stainless steel fasteners with nylon washers and a thick, stainless steel cam. The gauge block is cast into the housing for strength, a large, well supported diaphragm is used to prevent wrinkling, and the I/P is protected with a restriction plug and dual solid filters.

The V100 is also easy to use, with an external zero adjustment, non-interactive zero and span and screwdriver slots provided for all adjustments.

The V100 is extremely flexible due to its modular construction and available options. I/P can be removed and replaced in minutes with no special tools. Options include a 4~20 ma feedback unit, 1000-ohm potentiometer, limit switches, and a raised visual position indicator. Explosion proof and fail-in-position options are also available.

### Technical Specifications

	V100P	V100E
<b>Input Range:</b>	3-15 PSI (20-100kPa)	4-20 mA ( $R_1 < 250\Omega$ )
<b>Supply Pressure:</b>	<145 PSI (<1MPa)	21.8-145 PSI (0.15-1MPa)
<b>Linearity error:</b>	<0.7% f.s.	<1.0% f.s.
<b>Hysteresis:</b>	<0.4% f.s.	<0.6% f.s.
<b>Repeatability:</b>	<0.3% f.s.	<0.5% f.s.
<b>Pressure Gain:</b>		
@87 PSI (600kPa)	750 $P_{out} / P_{in}$	
acc. to ISA S75.13	49% $P_{out} / \%P_{in}$	
<b>Air Capacity:</b>	SCFM (SLPM)	
@29 PSI (200kPa)	9.5 (270)	
@87 PSI (600kPa)	28.3 (800)	
<b>Bleed Rate:</b>	SCFM (SLPM)	SCFM (SLPM)
@29 PSI (200kPa)	0.18 (5)	0.2 (5.7)
@87 PSI (600kPa)	0.53 (15)	0.6 (17.0)
<b>Temp range:</b>	-40° to 185° F -40° to +85° C	
<b>Air connectors:</b>	1/4" NPT (optional G threads)	
<b>Cable entry:</b>	1/2" NPT (option M20x1.5 or PG 13.5)	
<b>Ingress &amp; corrosion protection:</b>	NEMA 4X and IP66	
<b>Coating:</b>	Powder Polyester	
<b>Weight:</b>	3.5 lbs (1.6kg)	3.8 lbs (1.7 kg)
<b>Weight w/Gauges:</b>	4.0 lbs (1.8kg)	4.2 lbs (1.9 kg)

