

## V100E Control Pinch Valve Positioners



- 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 V100E Positioners are 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 V100E is rugged, able to withstand operating temperatures from -40 to 185°F (-40 to 86°C) standard. They feature 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 positioners are easy to use, with an external zero adjustment, non-interactive zero and span and screwdriver slots provided for all adjustments.

V100E are extremely flexible due to their 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.

### SPECIFICATIONS

V100E ELECTRO PNEUMATIC	
Input Range:	4-20 mA ( $R_i$ , <25 Ohms)
Supply Pressure:	21.8-145 psi (0.15-1 MPa)
Linearity Error:	1.0% f.s.
Hysteresis:	0.6% f.s.
Repeatability:	0.5% f.s.
Pressure Gain: @87 psi (600 kPa) acc. to ISA S75.13	750 $P_{out}/P_{in}$ 49% $P_{out}/P_{in}$
Air Capacity: @29 psi (200 kPa) @87 psi (600 kPa)	SCFM (SLPM) 9.5 (270) 28.3 (800)
Bleed Rate: @29 psi (200 kPa) @87 psi (600 kPa)	SCFM (SLPM) 0.2 (5.7) 0.6 (17.0)
Temperature Range:	-40° to 185°F (-40° to 85°C)
Air Connectors:	1/4" NPT (Optional G Threads)
Cable Entry:	1/2" NPT (Optional M20x1.5 or PG 13.5)
Ingress & Corrosion Protection:	NEMA 4X and IP66
Coating:	Powder Polyester
Weight:	3.8 lbs (1.7 kg)
Weight with Gauges:	4.2 lbs(1.9 kg)