

Positioners

- ▶ Sturdy, simple, reliable design
- ▶ High gain pilot valve
- ▶ Bright visible indicator
- ▶ Stainless steel cam
- ▶ Tapped exhaust port
- ▶ Easy-to-add feedback unit
- ▶ Simple calibration, external zero adjustment
- ▶ Built-in gauge ports



Materials of Construction

- ▶ Die-cast aluminum body with black epoxy finish
- ▶ Stainless steel fasteners
- ▶ NEMA 4/IP66 ingress protection

Red Valve Company offers simplified pneumatic and electropneumatic positioners to meet the increasing need for complete automation.

Pneumatic Positioner

The foundation of the Red Valve Company valve control system is the P5 Pneumatic Positioner. Performance of this unit has been enhanced with the special high gain/high capacity spool valve assembly providing very quick and accurate actuator/valve response. For single or double acting applications, this new modular design allows for the simple addition of I/P converters and/or a feedback unit with a variety of feedback options.

Other features include: gauge ports, stainless steel cam with a simple cam locking device, tapped exhaust port for venting supply media, external zero adjustment and completely sealed cover.

Electropneumatic Positioner

The Red Valve EP5 Electropneumatic Positioner is adapted from the P5. This compact and sturdy unit is designed for maximum performance in all types of environments. The EP5 is available in standard, intrinsically safe and explosion-proof designs. A modular feedback unit F5 allows for the addition of limit switches and/or position transmitters without additional mounting brackets.

Other features include: replaceable filter, gauge ports, dampers, tapped exhaust port for venting of supply media, external zero adjustment and completely sealed cover.

Options

These positioners can be fitted with an array of control options, such as gauges, disk or dome type indicators, mechanical switches and proximity switches. A simple, trouble-free modular design allows these positioners to be upgraded to meet any process control system requirement.

Specifications

Function	P5 Pneumatic	EP5 Electropneumatic
Input Signal	3-15 or 6-30 psi	4-20 mA
Linearity	≤0.5%	≤0.75%
Hysteresis	≤0.75%	≤1.0%
Repeatability	≤0.5%	≤0.5%
Supply Pressure	Max. 145 psi	Max. 145 psi
Air Consumption @ 80 psi Supply Pressure	0.64 scfm	0.64 scfm
Air Delivery @ 80 psi Supply Pressure	17.3 scfm	17.3 scfm
Supply Pressure Effect	—	0.5% (15 psi)
Input Resistance	—	260 Ohms @ 71 °F (20°C)
RFI Influence	—	Not measurable
Capacitance	—	Negligible
Position Sensitivity	—	None
Connections	1/4" NPT	1/4" NPT Supply, 1/2" NPT Electrical
Gauge Threads	1/8" NPT	1/8" NPT
Temperature Range	-4°F to 185°F/-20°C to +85°C	- 4F to 185°F/-20°C to 85°C
Weight	2.4 lbs	3.4 lbs