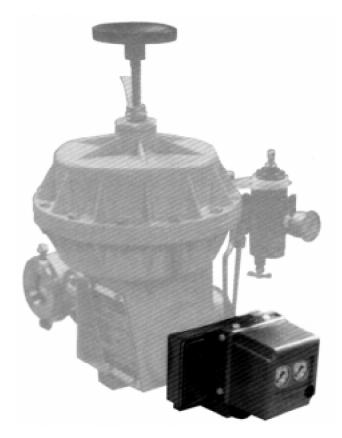
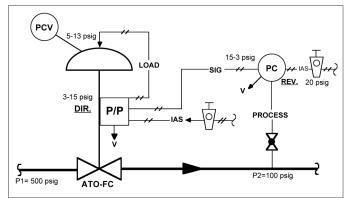


#### **TECHNICAL BULLETIN**



Model 9540R Mounted on Cashco Ranger QCT Control Valve



Typical Pressure Reducing Pneumatic Control Loop -PCV with P/P Positioner

## MODEL 9540R PNEUMATIC POSITIONER FOR ROTARY VALVES

Model 9540R is a single acting, compact, force-balance, 90° rotary positioner. This positioner is utilized to characterize the relationship between valve stem rotational position and the system's control signal, and to precisely position the valve stem. An internal 2-gauge cluster indicating input signal and output loading pressures is standard with this positioner.

### **FEATURES**

- Adjustable gain.
- Adjustable stroking speed.
- Direct or reverse action with simple field reversibility.
- Easy change to split range operation.
- Two pressure gauges standard.
- High capacity relay.
- Negligible effects from vibration.
- · Built-in bypass.
- Multiple characterization cams.
- Totally enclosed linkage.
- Integral travel indicator.

### **APPLICATIONS**

Cashco Ranger QCT, Premier EZO and Premier rotary stem control valves.

# MODEL 9540R P/P POSITIONER - ROTARY

### **SPECIFICATIONS**

Input Signal:	3-15 psig standard. Split ranges: 2-way — 3-9 or 9-15 psig.	Relative Humidity:	≤100%.
	3-way — 3-7, 7-11 or 11-15 psig.	Vibration Effect:	Immune up to 100 Hz and four g's in any direction.
Supply Pressure:	Max. Supply Pressure (psig)Bench Set (psig)205-13277.5-19.53610-264414-30NOTE: Requires oil-free, desiccant-dried, instrument quality, compressed air.	Air Consump- tion:	Air Requirement, SCFHSupply Pressure (psig)Air Requirement, SCFHSteady State 
Hysteresis:	$\leq$ 0.5% of span.	Stroking Time:	See Technical Bulletin STKSP-TB.
Linearity:	$\leq \pm 1.0\%$ of span.	Materials:	Cover - Impact resistant polyester with clear plastic gauge window.
Sensitivity:	$\leq$ 0.1% of span.		Baseplate, Housing, Connection Mani- fold - Aluminum with polyurethane
Operating Influ- ence (Supply Pressure):	$\leq$ 0.135% stroke change per one psi change in supply pressure.		paint. Position Indicator Lens - Plastic.
,		Connections:	1/4" NPT female.
Open Loop Gain:	Supply Pressure (psig) Adjustable Range   20 150:1   27 140:1   36 124:1   44 113:1	Gauges:	Two - one input signal, one output load. Internally mounted under cover, viewed thru window. SST case, dual scales in PSIG and BARG.
Ambient Temperature:	-40 to +175°F	Valve Stem Rotation:	90°.
Temperature Effect:	$\leq$ 0.017% stroke change per °F ambient temperature change.	Characterization Cams:	Ranger QCTPremier EZO/ Premier=%=%