

PRESSURE VOLUME CONTROLLERS

**Vacuum to 1000 or
Vacuum to 3000 psi**

**AVC-1000
and AVC-3000**

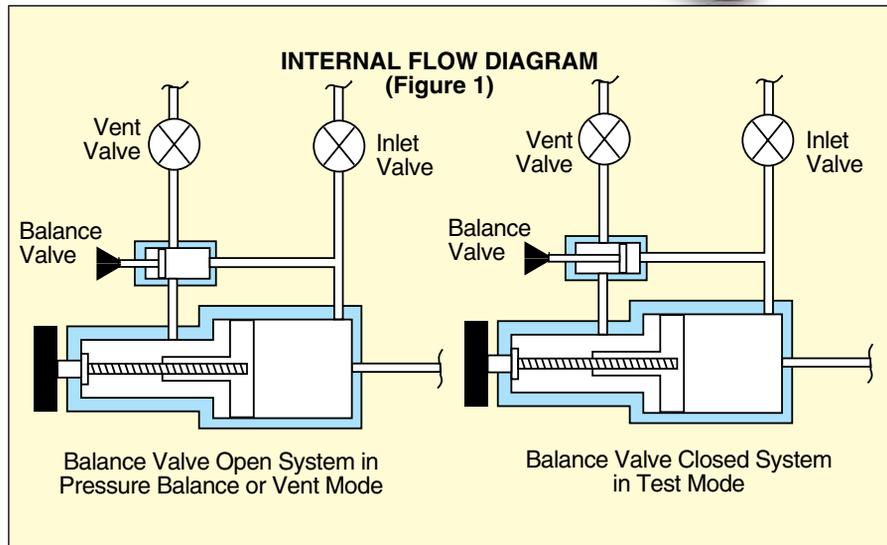
AVC-1000, shown
smaller than
actual size.



TRODEX® pressure volume controllers provide an easy means of rapidly and accurately adjusting the pressure in a closed system to within 0.00025 psi. They can be used with digital pressure gauges, dial gauges, transducers, pressure switches, air deadweight testers, manometers, and similar devices. OMEGA® pneumatic controllers are available for use with pressures up to 3000 psi.

Engineered to provide superior performance and safety, these devices incorporate a unique pressure balance valve. This valve is opened during initial system pressurization. When opened, the valve provides equal pressure to both sides of the piston assembly (see Figure 1). After the system has been pressurized, the valve is closed. Once the valve is closed, a change in piston position will change the pressure within the system. Simply turning the large pressure adjust knob repositions the piston to increase or decrease the pressure.

Equalization of pressure on both sides of the piston ensures ease of pressure setting. In addition, the valve performs a safety function. The balance valve will open automatically if an excessive pressure differential is generated across the piston. In essence, the valve serves as a safety relief valve and protects the controller from damage due to excessive pressure differentials within the unit.



SPECIFICATIONS	To Order	
	MODEL NO.	
	AVC-1000	AVC-3000
Range (psi)	Vacuum to 1000	Vacuum to 3000
Proof (psi)	2000	6000
Burst (psi)	6000 min	12,000 min
Resolution (psi)	0.00025	0.0005
Volume Change (Cubic Inches)	57.35 mL (3.5 cubic in)	40.97 (2.5 cubic in)
Mechanical Rotation (Total Turns)	31	61
Connection (Female)	1/8 NPT	1/8 NPT
Operating Temp Range	-18 to 49°C (20 to 120°F)	
Construction	Aluminum body, stainless steel, brass, PTFE, Acetal and Buna-N	

Comes complete with operator's manual.

Ordering Example: AVC-1000, pressure volume controller, vacuum to 1000 psig.