APEX

Pressure Controllers

One Instrument... Over 100 Gases

Why we Stand Out

- Controls ranges from 26,000 Torr to 8 Torr
- Lifetime Warranty with calibrations
- Faster than 100 millisecond valve control
- Pinpoint accuracy at 0.25% Full Scale
- 200-1 Turndown Ratio allows lower accurate flow readings
- Flexibility of 117+ selectable on-board gases
- Compatible with FlowVisionSC download on Windows
- No additional rack mount power or display supplies needed
- All units come with RS-232 and all Analog Communication
- Multiple unit control made easy with the BB9 Breakout Box

Apex DVPC in a Glance

The Apex Pressure Controllers are laminar flow controllers that use differential pressure measurements within the known volume to control process pressure. Apex PCs use a valve system upstream for vacuum applications and downstream for pressure applications, insuring pinpoint accuracy for both situations. The Dual Valve System replaces a bleed valve, potentially saving large amounts of expensive gas, and money.

Common Applications

Research and Development
Sputtering
Thin Film Deposition
Chemical Vapor Deposition
Plasma Production
Replacement for Valve Control
Vacuum Venting and Gassing
Fuel Cell Systems
Nitrogen Blanketing
Shaping Air in Paint Booths

Technical Information

Accuracy	0.25% Full Scale
Repeatability	0.8% at Full Scale
Operating Range	1-200 % Measure and Control
Response Time	100 Milliseconds
Pressure Range	26,000 Torr to 8 Torr
Operating Temp	-10°C to +50°
Humidity Range	Non-Condensing (0-100%)
Excess Pressure	128% Controllable Full Scale
Burst Pressure	3 Times Full Scale
Supply Voltage	12 to 30 Volts DC
Signal Options	RS-232 , RS-485, 0-5 Vdc, 0-10 Vdc, 4-20 mA
Electrical Connections	8 Pin, 9 Pin, 15 Pin, 6 Pin Industrial

Dimensions	Connections
Pressure Controller	1/8" NPT Female

Compatible with Swagelok® tube, Parker®, face seal, push connect and compression adapter fittings. Other Alternative available

Wetted Materials

302 and 303 Stainless Steel, Brass, Viton®, Silicone RTV, Silicon, Glass

Accessories & Additions

- Local Set Point Module
- Remote Digital Display
- Assortment of Connecting Cables
- Simple Power Cords
- FlowVision
- BB9 for Multi-Drop Ability
- FlowVisionSC for Windows Users
- Totalizer
- Additional Fittings
- Orifice Sizing
- Gas Blend Calibrations
- Bi-Directional Flow Calibration
- Larger Valves for Larger Loads

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