



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

Why we Stand Out

- ◆ Controls ranges from 26,000 Torr to 8 Torr
- ◆ 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

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
Input / Output Signal	RS-232 Serial and 0-5 Vdc
Electrical Connections	8 Pin Mini Din, DB9, or DB15

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



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Accessories & Additions

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| <ul style="list-style-type: none"> - Local Set Point Module - Remote Digital Display - Assortment of Connecting Cables - Simple Power Cords - FlowVision - BB9 for Multi-Drop Ability - FlowVisionSC for Windows Users | <ul style="list-style-type: none"> - Totalizer - Additional Fittings - Orifice Sizing - Gas Blend Calibrations - Bi-Directional Flow Calibration - Larger Valves for Larger Loads |
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