



### Apex DVPC in a Glance

The Apex Dual Valve Pressure Controllers are laminar flow controllers that use differential pressure measurements within the known volume to determine flow rates and keep pressure constant. Apex DVPC use a valve system up and downstream of the system, insuring pinpoint accuracy. 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 -15 psia to 500 psig
- ◆ Lifetime Warranty with calibrations
- ◆ Faster than 100 millisecond valve control
- ◆ Pinpoint accuracy at 0.5% 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	0.5% Full Scale
Repeatability	0.8% at Full Scale
Operating Range	1-200 % Measure and Control
Response Time	100 Milliseconds
Pressure Range	-15 psia to 500 psig
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



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### 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