

## Pressure Controllers

One Instrument... 30 Gases



### Apex DVPC in a Glance

The Apex Pressure Controllers are laminar flow controllers that use differential pressure measurements within the known volume to determine flow rates and keep pressure constant. Apex Pressure Controllers use a valve system upstream of the vacuum system, insuring pinpoint accuracy for rough vacuum systems. 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



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### 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 30 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
- ◆ Multi-Drop 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

Pressure Controller

#### Connections

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

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### Additions

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