



Why we Stand Out

- ◆ Controls ranges from 1000 Torr to 1 Millitorr
- ◆ 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	0.5% Full Scale
Repeatability	0.8% at Full Scale
Operating Range	1-200 % Measure and Control
Response Time	100 Milliseconds
Pressure Range	1000Torr to 1E-6 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

Apex DVPC in a Glance

The Apex Millitorr 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 upstream of the vacuum system along with a CDG, insuring pinpoint accuracy. The Apex PID loop allows for fast Controller to CDG communication. Pressure ranges for CDG vary depending on need.

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

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



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