

FlowPoint®

Automated Flow Control System

Say goodbye to process tuning time!

Tuning gas flow can be a time consuming chore for your mass-flow dependent CVD processes. Traditional manual metering valves require expensive tool downtime, multiple test runs, and great care from an operator to achieve critical specifications.

The flowPoint System is your process tuning solution! Applied Precision's patented micropositioning technology controls a high-purity diaphragm valve to provide high-resolution, repeatable process set points, and precision tuning of gas flows.

FlowPoint enables you to:

- Quickly tune gas flows to nominal specification and achieve higher process capability
- Eliminate down time, multiple test runs, and difficult adjustments required of manual valves
- Increase process repeatability, returning to previous flow rates within 1.0% of full-scale
- Improve operator safety with an easy-to-use operator interface from a handheld terminal, PC using an RS-232 port or a 0-10 Volt analog input
- Enhance reliability with a robust, easy to integrate modular system proven worldwide



SYSTEM		
Repeatability		< 1.0% Full Scale Output
Resolution		300 discrete set points between 5% and 100% flow with handheld terminal and RS-232 - or 256 discrete set points between 5% and 100% flow for 0-10 Volt analog input
Recommended Operating Pressure		30 psi
Life		500,000 cycles @ 30 psi
Certification		CE
Controller		
Power		100-240 VAC, 2A, 50-60 Hz
Valve Capacity		Up to six valves
Chassis Dimensions		13.5 in. x 5.25 in. x 19 in.
Chassis Mount		19" Rack Mount
Interface		Handheld Terminal, RS-232, 0-10 Volt Analog
Standard Valve Type		
Type		Diaphragm
Valve seat and body material		SS316L
Wetted surface finish		< 10 u in. Ra
Maximum Cv		0.30
Orifice Diameter		4.5 mm
Connection		9/16-18 UNF
Maximum Pressure		120 psi
External Leakage		< 5 x 10 ⁻⁹ atm-cc/sec (inboard)
Other Valve Types		
The flowPoint actuation technology can be applied to a variety of valve manufacturers and types. Contact Applied Precision for specific applications.		

* Specifications subject to change without notice.