FlowMatrix FMC-2000 Liquid & Gas Mechanical Flow Controller

CVC Technology™ Mechanical Flow Controller

- Two stages of internal flow regulation for exceptional stability
- Immunity to upstream and downstream pressure or process transients
- Patented feedback loop eliminates backpressure effects
- Eliminates need for stable upstream pressures or regulators; *A fluid control system in a single device*
- Precision mechanical control ensures outstanding repeatability
- Pressure ranges from vacuum to 3000 psig
- Pressure differentials from low differentials up to 2500 psid
- User can specify for use in either liquid or gas applications
- Patented two-stage flow regulation for ensured stability
- Wide range of inlet and outlet pressures
- Saves money and reduces installation time and plumbing complexity
- Exotic materials available upon request

Specifications:

Property	FMC - 2000
Accuracy	+ / - 0.75% of Full Scale[1]
Repeatability	+/- 0.75% Full Scale[2]
Leak Integrity (External)	Helium Leak Test: $<1x10^{-7}$ atm x cc/sec He; bubble test at 1000 psi for liquid applications
Inlet Pressure Coefficient	.005% FS / PSI typical 0.010% Full Scale / PSI maximum
Minimum / Maximum Flow Range - Liquid	0 to 6 LPM H_2O equivilant
Minimum / Maximum Flow Range - Gas	0 to 100 LPM air equivilant
Flow Control Fluids	Liquid or Gas compatible with materials of construction

Property	FMC - 2000
Controllability	100:1 Typical
Differential Pressure Range	0.5 - 2500 psid[3]
Maximum Inlet Pressure	3000 PSI
Minimum Inlet Pressure	0.5 - 7 psig[3] (lower possible dependent on flow range, outlet pressure, and fluid type)
Wetted Materials	SS 316, Ti-6Al-4V Titanium alloy control valves (Inconel and 316 options), PCTFE seat, Viton® seals and diaphragms, Perlast™ option
Temperature Range	0 - 300 °C
Other Features	Integrated External Pressure Transducer calibrated for flow output

1 Accuracy is defined as the flow output stability over time once a manual adjustment is given

2 Repeatability is defined as the average deviation from setpoint as pressure is removed and reapplied over 1000 cycles

3 Dependant on fluid type, flow rate and inlet pressure

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