



CORDIS FLOW CONTROLLER



Precise, linear flow control within a closed-loop system with ultra high resolution and repeatability

Medium	Clean, dry, non-corrosive gases
Wetted Material	<i>Sensor: Polyamide, Manifold: Anodized Aluminum, Valves: DVP: Stainless Steel, PPS, EVP: ENP Brass, Regulated Supply: ENP Brass IP65 Housing: Polycarbonate</i>
Valve Type	Normally-Closed Proportional
Operating Flow Range	Minimum: 0 to 15 sccm Maximum: 0 to 6 l/min
Flow Range Sensors	0 to 0.03 l/min, 0 to 0.2 l/min, 0 to 0.5 l/min, 0 to 1 l/min, 0 to 4 l/min, 0 to 6 l/min
Max. Inlet	60 psig
Typical Response Time	<50 ms (application dependent)
Accuracy	≤2% of Full Scale
Resolution	≤25 mV
Max. Hysteresis	≤1%
Repeatability	≤1%
Linearity	≤1%
Pressure Drop	≤14" H2O
Port Size	1/8" NPT, G1/8
Temperature Range	<i>Proportional Valve: 32° to 120°F</i>
Mounting Attitude	Any
Filtration	40 micron
More Details	clippard.com/link/cordis

New to the Cordis family is the highly anticipated Electronic Flow Controller. Different from the Cordis Pressure Controller, the Flow Controller utilizes an extremely fast reacting mems technology sensor upstream of Clippard's proportional valve. Adding the optional DR-2 Regulator for accurate and precise pressure control makes for a very small, compact package by eliminating the need for an external regulated supply. Unlike other mass flow controllers that require a 30-minute warm-up period, large differential pressures, limited flow ranges, the Cordis Flow Controller requires less than one minute warm-up, Pressure drop is equal to or less than 14" H2O, and flow ranges as low as 0 to 30 sccm. The Cordis Flow Controller comes with standard control options such as 0.2 to 10 VDC, 4.32 to 20 mA and 3.3 VDC Serial. This flow controller allows for the same customer custom changes within their application as the Cordis Pressure Controller. This controller also comes in an IP65 housing for light industrial applications when needed.

The Cordis uses a micro-controller, integral flow sensor, DR-2 regulator and one proportional valve. Supply gas is connected to the regulator which accurately maintains pressure to the flow sensor and the Clippard EVP or DVP proportional valve. As command is increased, the comparative circuit opens the valve to allow flow to pass through the onboard flow sensor which in turn provides an active feedback signal for the micro-controller to satisfy the flow setpoint in the process. If at any point the flow sensor detects a value higher or lower than the setpoint command, the proportional valve will modulate more or less output to maintain a stable and accurate control of flow in the process.

- Compact size and weight
- ≤14" H2O pressure drop
- <50 ms response time
- ≤25 mV resolution
- Multiple low flow ranges
- OEM style card unit or IP65 housed

Voltage	15 to 24 VDC
Current Draw	≤250 mA max.
Protection Rating	IP65 (housed unit only)
Warm-Up Period	<1 minute
Signal/Command	<i>Electrical: 0.2 to 10 VDC or 4.32 to 20 mA Serial: 3.3 VDC</i>
Turndown Ratio	50:1



Clippard's proven DVP and EVP proportional valves provide fast, stable control of flow



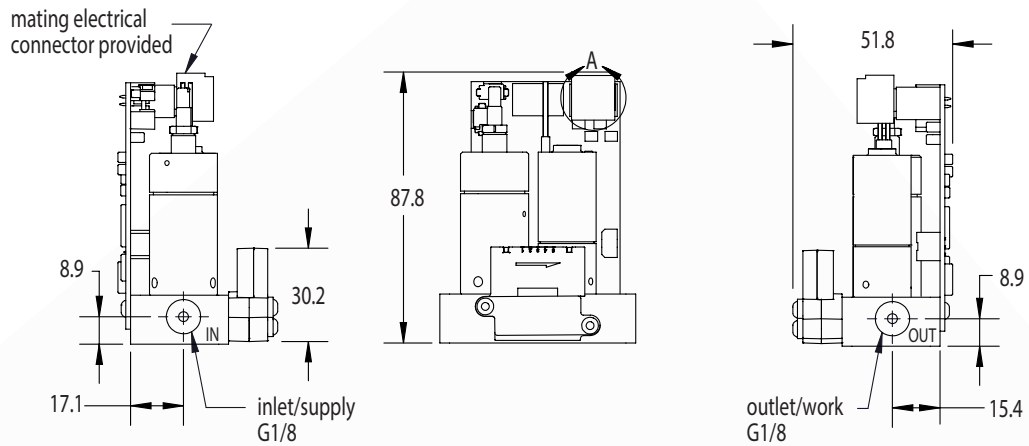
ORDERING INFORMATION

Model	Type	Porting	Signal/Command	Regulated Supply	Supply Pressure	Calibrated Flow Range
CFC- Flow Control	C Card Unit	F 1/8" NPT	E 0.2 to 10 VDC	-A No Regulator	A 5 to 10 psig	A 0 to 0.03 l/min
	H Housed Unit	G G1/8	R 3.3 VDC Serial	-B Clippard DR-2 Regulator	B 11 to 20 psig	B 0 to 0.2 l/min
			I 4.32 to 20 mA		C 21 to 30 psig	C 0 to 0.5 l/min
			Example Part No. CFC-CFE-BAC		D 31 to 40 psig	D 0 to 1 l/min
					E 41 to 50 psig	E 0 to 4 l/min
					F 51 to 60 psig	F 0 to 6 l/min

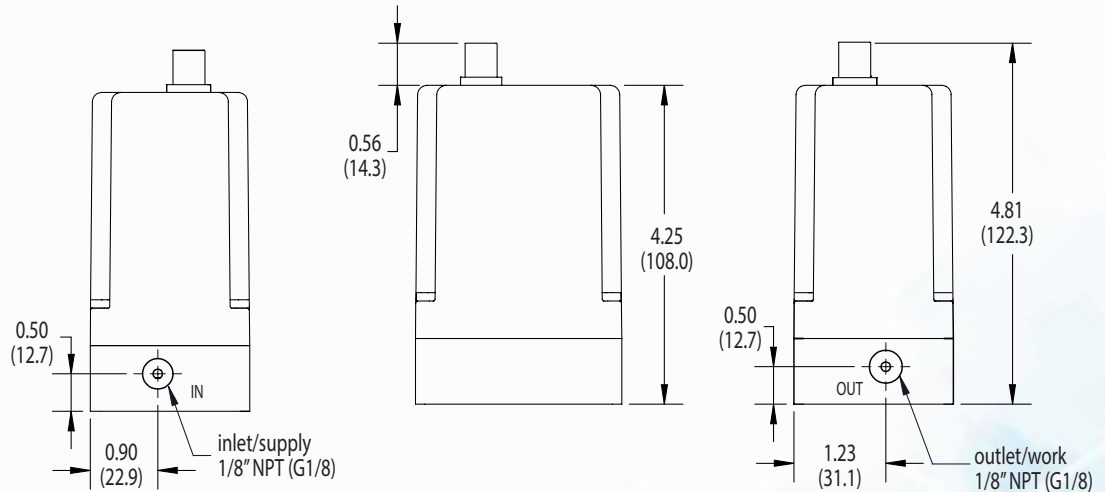
Accessories

- CPCH-C1** Actuation Cable, 8-Pin, 6'
- CPCH-C2** 3.3 VDC Serial Cable, 3'
- CPCH-CA6** Power Cord, 6' (*card unit only*)

CFC-C Card Unit



CFC-H Housed Unit



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For warranty and disclaimer information, visit clippard.com/warranty

