



## CORDIS HIGH RESOLUTION ELECTRONIC PROPORTIONAL PRESSURE CONTROLS

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

<b>Medium</b>	Clean, dry, non-corrosive gases
<b>Wetted Material</b>	<i>Sensor:</i> Polyamide, <i>Manifold:</i> Anodized Aluminum, <i>Valves:</i> please refer to the DVP or EVP specifications
<b>Valve Type</b>	Normally-Closed Proportional
<b>Operating Pressure Range</b>	0 to 150 psig (vacuum)
<b>Typical Flow</b>	2.7 to 65 l/min ( $\pm 10\%$ @ 100 psig)
<b>Typical Response Time</b>	<20 ms (application dependent)
<b>Accuracy</b>	$\pm 0.25\%$ of Full Scale
<b>Resolution</b>	$\leq 5$ mV
<b>Max. Hysteresis</b>	$\pm 0.05\%$ of Full Scale
<b>Linearity</b>	$\pm 0.05\%$ BFSL
<b>Port Size</b>	1/8" NPT, G1/8
<b>Temperature Range</b>	<i>Proportional Valve:</i> 32° to 120°F
<b>Mounting Attitude</b>	Any
<b>Filtration</b>	40 micron
<b>More Details</b>	<a href="http://clippard.com/link/cordis">clippard.com/link/cordis</a>

**Equipment used for test and calibration is NIST Traceable**



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

Known for reliability, innovation and focus on miniature pneumatics, Clippard's new Cordis controls utilize the proven EVP and DVP lines of proportional valves allowing for steady, repeatable downstream pressure as demand or processes change. The result, a precise linear pressure control within a closed-loop system with ultra high resolution and repeatability.

The Cordis uses a microcontroller, integrated pressure sensor, and two Clippard proportional valves. The inlet valve is connected to the moderately regulated supply pressure and the exhaust valve is connected to a port that vents excess pressure to atmosphere. Once a command is increased, the inlet valve opens up to allow supply pressure to pass over the sensor element which provides an active feedback for the microcontroller to satisfy the set point in the process. If at any point the sensor detects a value higher than the set point, the exhaust valve will modulate open to vent off the excess pressure to maintain a stable and accurate control pressure in the process.

The Cordis is adaptable to a variety of sensors that can close the loop around not only pressure, but vacuum or flow.

*Consult Clippard for application specifications to confirm viability.*

- Smooth linear control
- Integrated internal or external sensor feedback
- Multiple flow configurations
- Static or dynamic applications with the same proportional control
- Proportional fill and bleed control
- Customizable pressure ranges and mounting options
- No integral bleed required

<b>Voltage</b>	15 to 24 VDC
<b>Current Draw</b>	<250 mA max.
<b>Protection Rating</b>	IP65 version available
<b>Signal/Command</b>	<i>Electrical:</i> 0 to 10 VDC or 4 to 20 mA <i>Serial:</i> 3.3 VDC



ORDERING INFORMATION

Model		Type	Porting	Signal/Command	Calibrated Pressure Range		Min. Volume/Flow @ Max. Pressure*
CPC-	Pressure Control	C Card Unit	F 1/8" NPT	E 0 to 10 VDC	-A 0 to 1 psig	-M 0 to 7 bar	A ≥0.25 in <sup>3</sup> / 2.7 l/min
		H Housed Unit	G G1/8	R 3.3 VDC Serial	-B 0 to 5 psig	-N 0 to 10 bar	B ≥0.50 in <sup>3</sup> / 6.7 l/min
			M Manifold	I 4 to 20 mA	-C 0 to 15 psig	-O 0 to 15 psia	C ≥1.00 in <sup>3</sup> / 25.0 l/min
							-D 0 to 30 psig
				-E 0 to 60 psig	-Q 0 to 100 psia	F ≥1.00 in <sup>3</sup> / 32.0 l/min	
				-F 0 to 100 psig	-R -5 to +5 psid		
				-G 0 to 150 psig	-S -15 to +15 psid		
				-H 0 to 0,1 bar	-T 0 to 10" H2O		
				-I 0 to 0,5 bar	-U -10" to +10" H2O		
				-J 0 to 1 bar	-V 0 to 4" H2O		
				-K 0 to 2 bar	-W -1 to +1 psid		
				-L 0 to 4 bar	-Z Remote Sensor (consult Clippard)		

Consult Clippard for availability of non-standard commands and other options.

Example Part No. CPC-CFE-GA

Accessories

CPCH-C1 Actuation Cable, 8-Pin, 6'

CPCH-C2 3.3 VDC Serial Cable, 3'

CPCH-B1 Mounting Bracket

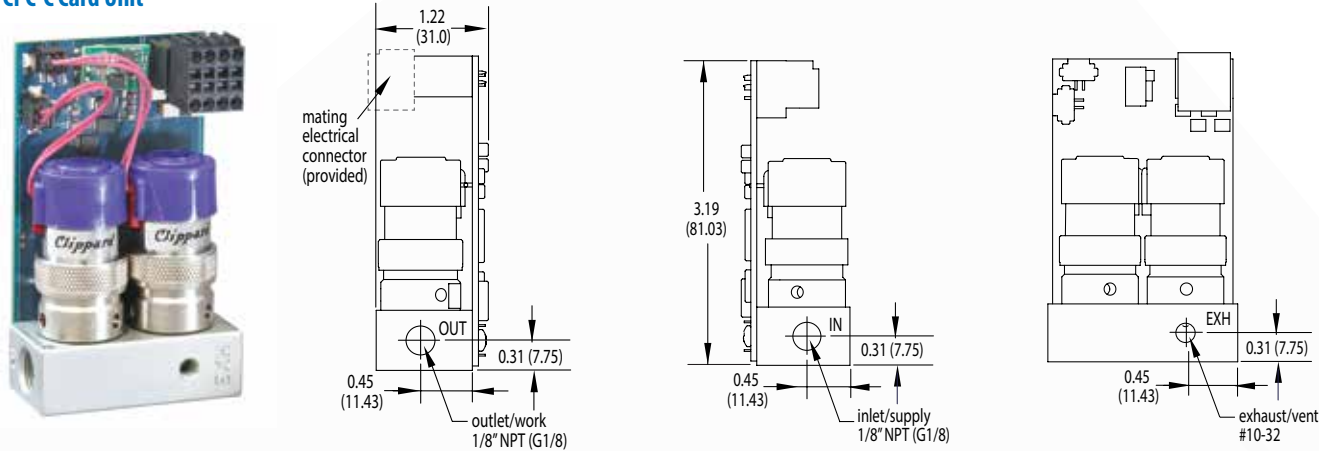
CA6 Power Cord, 6' (card unit only)

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\* All flow ranges are factory tested at 100 psig on the process side

CPC-C Card Unit



CPC-H Housed Unit

