Known for reliability, innovation and focus on miniature pneumatics, Clippard’s new Cordis controls utilize the proven EV line of electronic valves allowing for steady, repeatable downstream pressure under static conditions. The result, a precise linear pressure control within a closed-loop system.

The Cordis uses a microcontroller, integrated pressure sensor, and two Clippard EV electronic 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 only pressure.

Consult Clippard for application specifications to confirm viability.

- Smooth linear control
- Integrated internal or external sensor feedback
- Static applications
- Customizable pressure ranges and mounting options

Equipment used for test and calibration is NIST Traceable

**Medium**
Clean, dry, non-corrosive gases

**Wetted Material**
Sensor: Stainless Steel, Manifold: Anodized Aluminum, Valves: Nickel-Plated Brass
Body & Viton Core

**Valve Type**
Normally-Closed

**Operating Pressure Range**
0 to 34 bar

**Max. Inlet**
38 bar

**Typical Response Time**
<20 ms (application dependent)

**Accuracy**
±0.5% of Full Scale

**Resolution**
≤50 mV

**Max. Hysteresis**
≤0.25%

**Linearity**
≤0.2%

**Port Size**
1/8” NPT, G1/8

**Temperature Range**
0° to 82°C

**Mounting Attitude**
Any

**Filtration**
40 micron

**More Details**
clippard.com/link/cordis

**Voltage**
15 to 24 VDC

**Current Draw**
<250 mA

**Protection Rating**
IP65

**Signal/Command**
Electrical: 0 to 10 VDC or 4 to 20 mA
Serial: 3.3 VDC

Clippard’s newly-designed high pressure electronic valves provide fast, stable control of pressure
### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Porting</th>
<th>Signal/Command</th>
<th>Calibrated Pressure Range</th>
<th>Min. Volume/Flow @ Max. Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHP-</td>
<td>Cordis Pressure Control</td>
<td>H Housed Unit</td>
<td>F 1/8&quot; NPT</td>
<td>E 0 to 10 VDC</td>
<td>G 0 to 200 psig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>G G1/8</td>
<td>R 3.3 VDC Serial</td>
<td>G ≥0.75 in³ / 3.0 l/min</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>I 4 to 20 mA</td>
<td>H ≥1.00 in³ / 6.5 l/min</td>
</tr>
</tbody>
</table>

**Example Part No.** CHP-HFE-3GH

*All flow ranges are factory tested at 7 bar on the process side*

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

### Accessories

- CPCH-C1 Actuation Cable, 8-Pin, 6'
- CPCH-C2 3.3 VDC Serial Cable, 3'
- CPCH-B2 Mounting Bracket

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**For Manifold Mount dimensions**

visit [www.clippard.com/link/cordis](http://www.clippard.com/link/cordis)

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