

## Cordis High Volume Booster

### CHV-HFE-F



Utilizing the same microcontroller, integrated pressure sensors, and two Clippard EVP proportional valves, Clippard's Cordis booster series provides precise linear pressure control similar to that of the CPC series with the added benefit of phenomenal forward and reverse flow characteristics. With the inlet and exhaust valves connected to the pilot area of the integral volume booster, the comparative circuit responds to the given command by referencing the on-board sensor located on the output control path of the booster. If at any point the on-board downstream sensor indicates a value higher or lower than the set point command, the comparative circuit immediately opens either the exhaust or inlet valve to maintain stable and accurate control pressure in the application process, but with significantly high flow capabilities.

|                             |                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories                 | Actuation Cable, 8-Pin, 6' (1800 mm): <a href="#">CPCH-C1</a> , 3.3 VDC Serial Cable, 3' (900 mm): <a href="#">CPCH-C2</a> , Mounting Bracket: <a href="#">CPCH-B3</a> |
| Accuracy                    | ±0.50% of Full Scale                                                                                                                                                   |
| Air Flow                    | 42.5 scfm @ 80 psig (5,5 bar) typical                                                                                                                                  |
| Applications Form           | <a href="#">Applications Form</a>                                                                                                                                      |
| Calibrated Pressure Range   | 0 to 100 psig                                                                                                                                                          |
| Current Draw                | <250 mA max.                                                                                                                                                           |
| Data Sheet                  | <a href="#">Data Sheet</a>                                                                                                                                             |
| Filtration                  | 40 micron filter (recommended)                                                                                                                                         |
| Function                    | Normally-Closed 2-Way Proportional                                                                                                                                     |
| Hysteresis                  | ±0.50% of Full Scale, Max.                                                                                                                                             |
| LED Indicators              | Power (red) and command mode (blue—solid indicates analog, flashing indicates serial)                                                                                  |
| Linearity                   | ±0.50% BFSL                                                                                                                                                            |
| Material, Wetted            | Aluminum, Nitrile, FKM, Brass                                                                                                                                          |
| Medium                      | Clean, dry, non-corrosive gases                                                                                                                                        |
| Monitor Signal Accuracy     | ±0.30% of full scale                                                                                                                                                   |
| Mounting Attitude           | Any                                                                                                                                                                    |
| Operating Instructions      | <a href="#">Operating Instructions</a>                                                                                                                                 |
| Operating Pressure          | Vac. to 150 psig (10 bar)                                                                                                                                              |
| Operating Temperature Range | Proportional Valve: 32 to 120°F (0 to 49°C)                                                                                                                            |
| Porting                     | 1/4" NPT                                                                                                                                                               |
| Product Line Brochure       | <a href="#">Cordis Electronic Controls</a>                                                                                                                             |
| Protection Rating           | IP65                                                                                                                                                                   |
| Resolution                  | ≤35 mV                                                                                                                                                                 |
| Response Time               | <20 ms typical (application dependent)                                                                                                                                 |
| Signal/Command              | 0 to 10 VDC                                                                                                                                                            |
| Supply Voltage              | 15 to 24 VDC                                                                                                                                                           |

