



## Proportional Electronic Valves

### ET-PM-10-4050



The EVP 2-Way proportional control valves combine the features of the existing EV series valve—long life, low power, and Clippard's reputation for high quality components—with the additional capability for proportional control. The EVP series valve provides air or gas flow control, and varies the output flow based on the current input to the solenoid.

Controllability and overall value are the main features of the EVP series. The consistent gain of this valve provides a high degree of control for many applications. The valve may be controlled using DC current, open- or closed-loop control, and even PWM to cover a broad range of applications.

| 2D File                     | <a href="#">2D File</a>                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accessories                 | Valve Driver in Enclosure <a href="#">EVPD-2</a> , Valve Driver Board <a href="#">EVPD-1</a> , DIN Rail Mounting Clip <a href="#">EVPD-2DIN</a> , Installation Socket Torque Tool <a href="#">30215</a> |
| Coil Resistance             | 54 $\Omega$ @ 73°F (23°C)                                                                                                                                                                               |
| Connection                  | 0.110" Terminal Spades                                                                                                                                                                                  |
| Connector P/N               | <a href="#">ET-C48</a> or <a href="#">ET-C120</a> or <a href="#">3831-1-PKG</a>                                                                                                                         |
| Data Sheet                  | <a href="#">Valve Data Sheet</a> , <a href="#">Driver Data Sheet</a>                                                                                                                                    |
| Flow Rate                   | 19 l/min +/- 10% @ 50 psig                                                                                                                                                                              |
| Function                    | 2-Way Normally-Closed Proportional                                                                                                                                                                      |
| Input Current Range         | 0 to 0.185 A                                                                                                                                                                                            |
| Manifolds                   | <a href="#">Manifolds</a>                                                                                                                                                                               |
| Material, Body              | Nickel Plated Brass                                                                                                                                                                                     |
| Material, Seals             | Nitrile                                                                                                                                                                                                 |
| Material, Seat              | Stainless Steel                                                                                                                                                                                         |
| Material, Wetted            | ENP Brass, ENP Steel, Stainless Steel                                                                                                                                                                   |
| Max Voltage Required        | 12.4 VDC                                                                                                                                                                                                |
| Max. Flow                   | $\pm 10\%$ of Target Flow                                                                                                                                                                               |
| Max. psig                   | 100 psig (7 bar)                                                                                                                                                                                        |
| Maximum Hysteresis          | 10% of Full Current                                                                                                                                                                                     |
| Medium                      | Clean, Dry Air or Inert Gases                                                                                                                                                                           |
| Mounting Holes              | Manifold                                                                                                                                                                                                |
| Number of Ports             | 2                                                                                                                                                                                                       |
| Operating Instructions      | <a href="#">Operating Instructions</a>                                                                                                                                                                  |
| Operating Pressure          | 50 psig (3,4 bar)                                                                                                                                                                                       |
| Operating Temperature Range | 32 to 120°F (0 to 48°C)                                                                                                                                                                                 |
| Orifice                     | 0.040" Orifice                                                                                                                                                                                          |
| Poppet Travel               | 0.007" (0.2 mm)                                                                                                                                                                                         |
| Porting                     | #10-32                                                                                                                                                                                                  |
| Ports                       | ENG Male Stud (Manifold)                                                                                                                                                                                |
| Price                       | 79.15                                                                                                                                                                                                   |
| Product Line Brochure       | <a href="#">Proportional Valves</a>                                                                                                                                                                     |
| Unit                        | Imperial                                                                                                                                                                                                |
| Voltage                     | 10 VDC                                                                                                                                                                                                  |
| Wattage                     | 1.9 Watts at 73°F (23°C), 2.4 Watts Max                                                                                                                                                                 |
| Weight (lbs.)               | 0.1700                                                                                                                                                                                                  |

