

## EV Electronic Valves

### O-ECO-3M-12-L



Clippard's original EV series valve design is a deceptively simple arrangement featuring a remarkably quiet, low power operation. The Clippard "spider" armature spring is the only moving part, and its motion to operate the valve is a mere 0.007" travel. As a result, this valve features an exceptionally long life—proven to last more than 1,000,000,000+ cycles! Low voltage DC inputs move the spider, generating extremely fast response times of 5 to 10 milliseconds while using only 0.67 watts of power. The EV series is cool running and its compact, lightweight design makes it easy to mount in small spaces.

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|------------------------------------|---|
| <b>2D Drawings</b>                 | <a href="#">2D Files</a>  |
| <b>Accessories</b>                 | <a href="#">Installation Socket Torque Tool 30215</a>   |
| <b>Coil Resistance</b>             | 218   |
| <b>Connection</b>                  | Terminal Pin, 0.025"  |
| <b>Connector</b>                   | <a href="#">C2-RB18</a>   |
| <b>Current</b>                     | 0.05A   |
| <b>Cycles</b>                      | Over 1 Billion  |
| <b>Data Sheets</b>                 | <a href="#">Standard, High Pressure, Oxygen Clean, Analytical, Corrosion-Resistant, N.O. Manifold</a> |
| <b>Filtration</b>                  | 40 micron (recommended)   |
| <b>Function</b>                    | 3-Way Universally Ported  |
| <b>Leak Rate</b>                   | 0.1 sccm  |
| <b>Length</b>                      | 1.810   |
| <b>Manifolds</b>                   | <a href="#">Single &amp; Multi-Station, Specialized</a>   |
| <b>Material, Seals</b>             | FKM (O2 Clean/Analytical)   |
| <b>Material, Spring</b>            | Nickel Alloy  |
| <b>Material, Wetted</b>            | ENP brass, nickel alloy, stainless steel, ENP steel   |
| <b>Max PSI</b>                     | 105 (7.2 bar)   |
| <b>Medium</b>                      | Clean, Dry Air and Compatible Liquids and Gases   |
| <b>Mount</b>                       | Manifold  |
| <b>Operating Pressure</b>          | 50 psig (14 l/min @ 50 psig)  |
| <b>Operating Temperature Range</b> | 32 to 180°F (0 to 82°C)   |
| <b>Operating Voltage Range</b>     | 90 to 150%  |
| <b>Poppet Travel</b>               | 0.007"  |
| <b>Product Line Brochure</b>       | <a href="#">Spider Valves</a>   |
| <b>Response Time</b>               | 5 to 10 milliseconds (nominal)  |
| <b>Type</b>                        | Oxygen Clean  |
| <b>Unit</b>                        | Imperial  |
| <b>Voltage</b>                     | 12 VDC  |
| <b>Wattage</b>                     | 0.67 Watts (nominal)  |
| <b>Weight (lbs.)</b>               | 0.1700  |
| <b>Wire Connector</b>              | AMP #103959-1   |

