



## EV Electronic Valves

### ETO-3-12-H



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.

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| <b>2D Drawings</b>                 | <a href="#">2D Files</a>                                                        |
| <b>Accessories</b>                 | Installation Socket Torque Tool <a href="#">30215</a>                           |
| <b>Coil Resistance</b>             | 218                                                                             |
| <b>Connection</b>                  | Spade Terminal, 0.110"                                                          |
| <b>Connector</b>                   | <a href="#">ET-C48</a> or <a href="#">ET-C120</a> or <a href="#">3831-1-PKG</a> |
| <b>Current</b>                     | 0.05A                                                                           |
| <b>Cycles</b>                      | Over 1 Billion                                                                  |
| <b>Data Sheet</b>                  | <a href="#">Standard</a> , <a href="#">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>Material, Seals</b>             | Nitrile                                                                         |
| <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>                       | In-Line                                                                         |
| <b>Mounting</b>                    | #6-32 Thread                                                                    |
| <b>Operating Pressure</b>          | 25 psig (12 l/min @ 25 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>Port Size</b>                   | #10-32 Female In-Line                                                           |
| <b>Product Line Brochure</b>       | <a href="#">Spider Valves</a>                                                   |
| <b>Response Time</b>               | 5 to 10 milliseconds (nominal)                                                  |
| <b>Type</b>                        | Standard                                                                        |
| <b>Unit</b>                        | Imperial                                                                        |
| <b>Voltage</b>                     | 12 VDC                                                                          |
| <b>Wattage</b>                     | 0.67 Watts (nominal)                                                            |
| <b>Weight (lbs.)</b>               | 0.1700                                                                          |

