

EV Electronic Valves

A-ET-2M-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.

| | |
|------------------------------------|---|
| 2D Drawings | 2D Files |
| Accessories | Installation Socket Torque Tool 30215 |
| Coil Resistance | 218 |
| Connection | Spade Terminal, 0.110" |
| Connector | ET-C48 or ET-C120 or 3831-1-PKG |
| Current | 0.05A |
| Cycles | Over 1 Billion |
| Data Sheet | Standard, N.O. Manifold |
| Data Sheet, Series | Analytical Data Sheet |
| Filtration | 40 micron (recommended) |
| Function | 2-Way Normally-Closed |
| Leak Rate | 0.1 sccm |
| Manifolds | Single & Multi-Station, Specialized |
| Material, Seals | FKM (O2 Clean/Analytical) |
| Material, Spring | Nickel Alloy |
| Material, Wetted | Nickel alloy, stainless steel, ENP steel |
| Max PSI | 105 (7.2 bar) |
| Medium | Clean, Dry Air and Compatible Liquids and Gases |
| Mount | Manifold |
| Operating Pressure | 25 psig (12 l/min @ 25 psig) |
| Operating Temperature Range | 32 to 180°F (0 to 82°C) |
| Operating Voltage Range | 90 to 150% |
| Poppet Travel | 0.007" |
| Product Line Brochure | Spider Valves |
| Response Time | 5 to 10 milliseconds (nominal) |
| Type | Analytical |
| Unit | Imperial |
| Voltage | 12 VDC |
| Wattage | 0.67 Watts (nominal) |
| Weight (lbs.) | 0.1700 |

