

EV Electronic Valves

ECO-3-24-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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| 2D Drawings | 2D Files |
| Accessories | Installation Socket Torque Tool 30215 |
| Coil Resistance | 864 |
| Connection | Terminal Pin, 0.025" |
| Connector | C2-RB18 |
| Current | 0.028A |
| Cycles | Over 1 Billion |
| Data Sheet | Standard, N.O. Manifold |
| Filtration | 40 micron (recommended) |
| Function | 3-Way Universally Ported |
| Leak Rate | 0.1 sccm |
| Length | 1.810 |
| Material, Seals | Nitrile |
| Material, Spring | Nickel Alloy |
| Material, Wetted | ENP brass, nickel alloy, stainless steel, ENP steel |
| Max PSI | 105 (7.2 bar) |
| Medium | Clean, Dry Air and Compatible Liquids and Gases |
| Mount | In-Line |
| Mounting | #6-32 Thread |
| Operating Pressure | 50 psig (14 l/min @ 50 psig) |
| Operating Temperature Range | 32 to 180°F (0 to 82°C) |
| Operating Voltage Range | 90 to 150% |
| Poppet Travel | 0.007" |
| Port Size | #10-32 Female In-Line |
| Product Line Brochure | Spider Valves |
| Response Time | 5 to 10 milliseconds (nominal) |
| Type | Standard |
| Unit | Imperial |
| Voltage | 24 VDC |
| Wattage | 0.67 Watts (nominal) |
| Weight (lbs.) | 0.1700 |
| Wire Connector | AMP #103959-1 |

