



EV Electronic Valves

EHC-2M-12-J



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.

Accessories	Installation Socket Torque Tool 30215
Coil Resistance	218
Connection	Terminal Pin, 0.025"
Connector	C2-RB18
Current	0.05A
Data Sheet	Data Sheet
Data Sheets	Standard , High Pressure , Oxygen Clean , Analytical , Corrosion-Resistant , N.O. Manifold
Filtration	40 micron (recommended)
Flow Direction	High pressure models are configured for reverse flow operation.
Function	2-Way Normally-Closed
Leak Rate	0.1 sccm
Manifolds	Single & Multi-Station , Specialized
Material, Seals	Nitrile
Material, Spring	Nickel Alloy
Material, Wetted	ENP brass, nickel alloy, stainless steel, ENP steel
Max PSI	500 (34.5 bar)
Medium	Clean, Dry Air & Compatible Gases
Mount	Manifold
Operating Pressure	500 psig (12 l/min @ 500 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	High Pressure
Unit	Imperial
Voltage	12 VDC
Wattage	0.67 Watts (nominal)
Weight (lbs.)	0.1700
Wire Connector	AMP #103959-1

