EV Electronic Valves

A-EV-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.

2D Drawings	2D Files
Accessories	Installation Torque Socket, Manifold Plug
Coil Resistance	218
Connection	Wire Leads Side (Radial), 18"
Current	0.05A
Cycles	Over 1 Billion
Data Sheet	Standard, N.O. Manifold
Data Sheet, Series	Analytical Data Sheet
Filtration	40 micron (recommended)
Function	3-Way Normally-Closed
Leak Rate	0.1 sccm
Length	1.716
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	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"
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
Wire Size	26 Gauge