

## ANALYTICAL EV SERIES

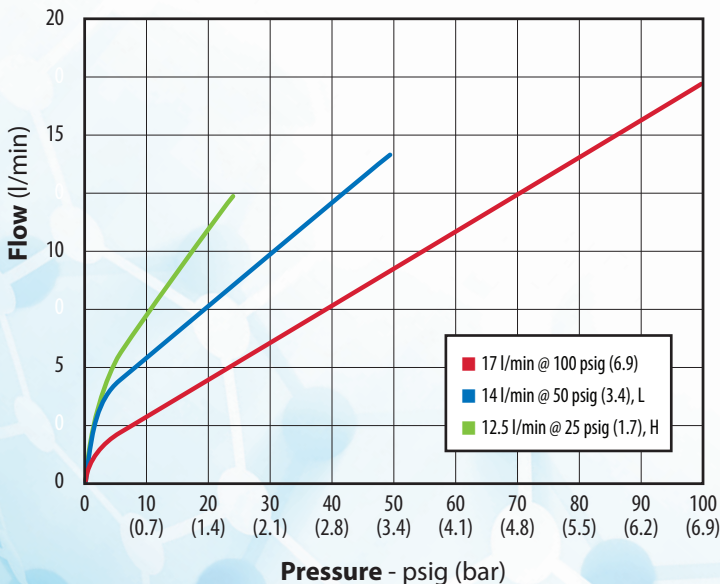


Clippard's EV series valves are also available in an analytical version that is ideal for applications that are particularly sensitive to cleanliness and outgassing from the valve. Analytical series EV valves are manufactured and assembled using an optimized process which includes:

- Ultrasonic cleaning, assembly, inspection, and testing in one of Clippard's ISO 7 (class 10,000) rated clean rooms
- Cleaned to meet and/or exceed ASTM G93 Level E NVR and Level 500 Particulate and Fibers
- No sealants used in the assembly
- Parts lubed with isopropyl alcohol only for assembly
- Individual testing with bottled nitrogen

**Also available in high flow, oxygen clean, corrosion-resistant, N.O. manifold, and proportional versions.**

**TYPICAL FLOW**



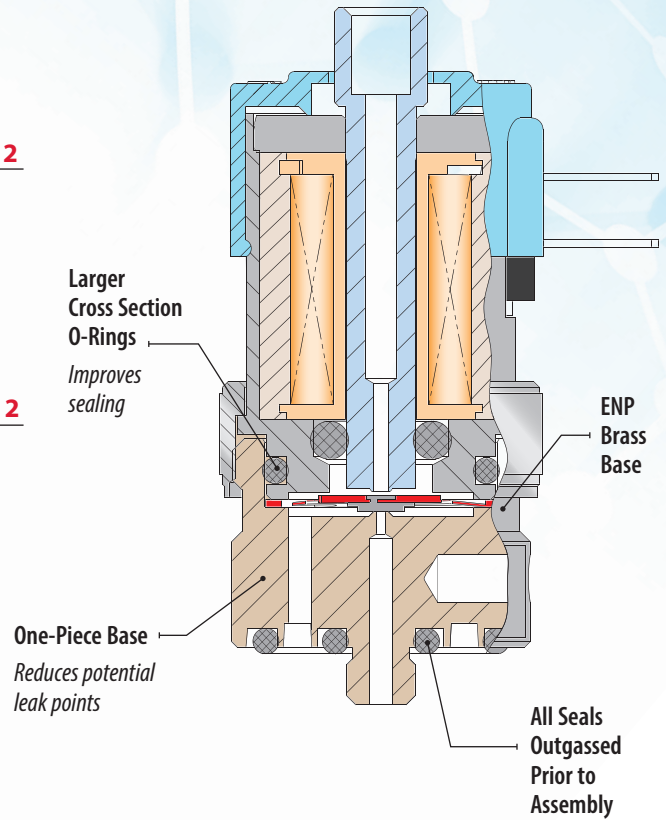
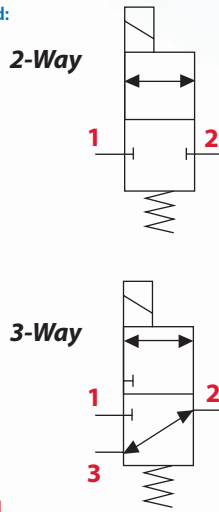
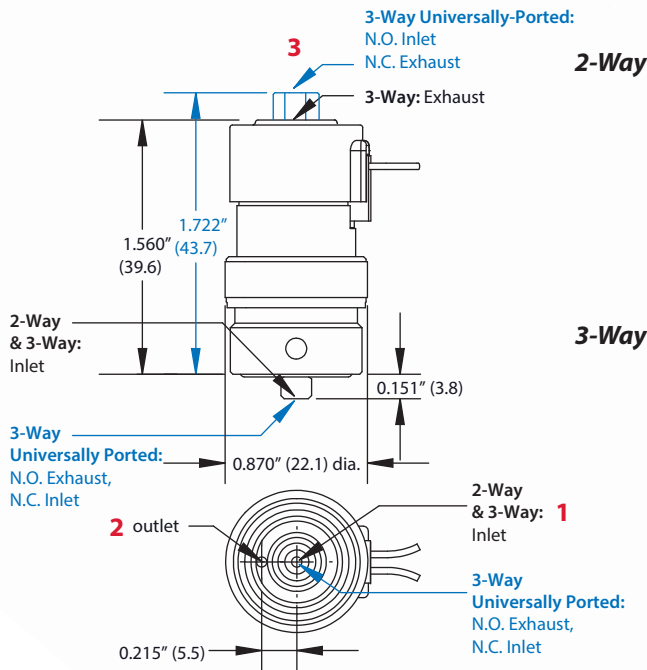
<b>Coil Resistance</b>	218 (12V), 864 (24V)
<b>Connection</b>	Pin connector, spade terminals, radial wire leads, or axial wire leads
<b>Current</b>	0.055A (12V), 0.028A (24V)
<b>Cycle Life</b>	>1,000,000,000 ( <i>ideal applications</i> )
<b>Filtration (recommended)</b>	40 micron filter ( <i>recommended</i> )
<b>Function</b>	2-way normally-open or normally-closed; 3-way normally-open, normally-closed, or universally ported
<b>Leak Rate</b>	0.1 sccm
<b>Material, Body</b>	Nickel-plated brass, ENP carbon steel, nickel iron alloy
<b>Material, Seals</b>	FKM standard, EPDM <sup>1</sup> and silicone <sup>1</sup> available
<b>Material, Spring</b>	Nickel alloy
<b>Material, Wetted</b>	ENP brass, nickel alloy, ENP steel
<b>Max. Flow</b>	17 l/min @ 100 psig (7 bar), 14 l/min @ 50 psig (3.4 bar), or 12.5 l/min @ 25 psig (1.7 bar)
<b>Max. psig</b>	105 (7.2 bar)
<b>Medium</b>	Clean, dry air and compatible gases
<b>Mount</b>	Manifold
<b>Number of Ports</b>	2 or 3
<b>Operating Pressure</b>	28" Hg to 25, 50, or 100 psig (1.7, 3.4, or 7 bar)
<b>Operating Range</b>	90 to 150% of rated voltage
<b>Operating Temp. Range</b>	32 to 180°F (0 to 82°C)
<b>Orifice</b>	0.060", 0.040", or 0.025" (1.52, 1.02, or 0.64 mm)
<b>Port, Exhaust</b>	#10-32 or M5
<b>Port, Inlet</b>	<b>Manifold:</b> #10-32 male or M5 <b>In-Line:</b> #10-32 female or M5
<b>Port, Outlet</b>	#10-32 or M5 (in-line)
<b>Response Time</b>	5 to 10 ms (nominal)
<b>Voltage</b>	12 or 24 VDC
<b>Voltage Operating Range</b>	90 to 150%
<b>Wattage</b>	0.67 watts (nominal)
<b>More Details</b>	<a href="http://clippard.com/link/ev-series">clippard.com/link/ev-series</a>

<sup>1</sup>Minimum order quantity required

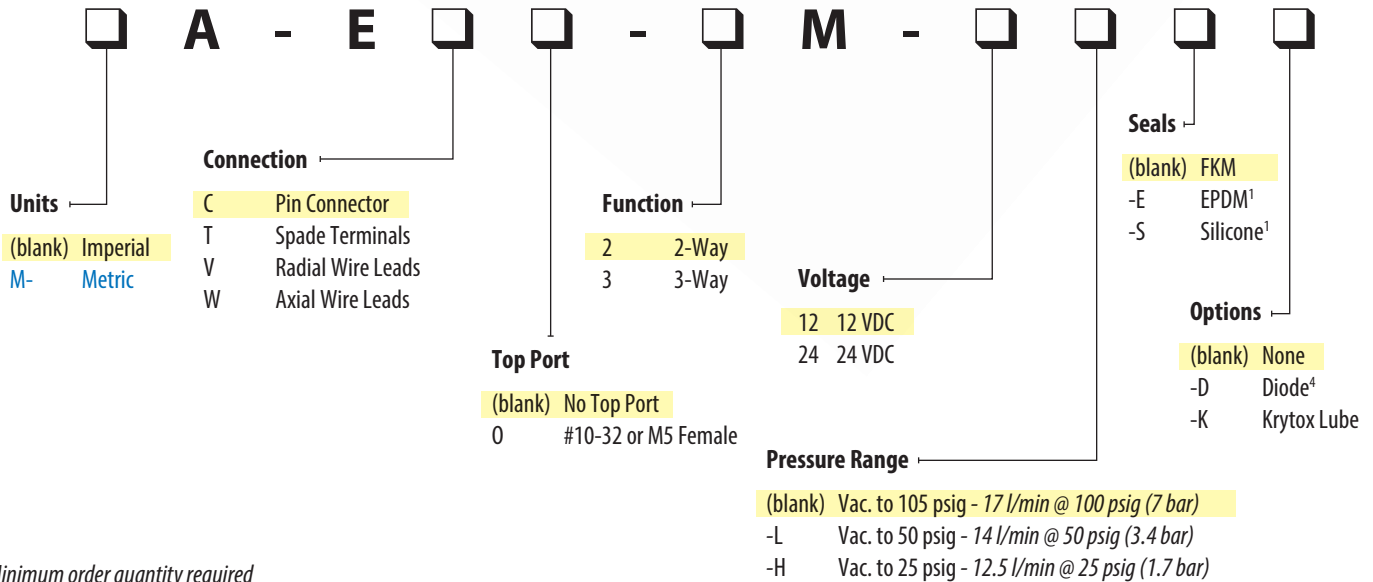
**Does your application have requirements beyond what is listed? Contact Clippard to discuss how this valve can be modified to meet your specific needs.**

## Manifold Mount

2-Way, 3-Way, and 3-Way Universally Ported



## ORDERING INFORMATION



<sup>1</sup>Minimum order quantity required  
<sup>4</sup>Available on pin connector (EC) models only

**Example Part Number:**  
A-EC-2M-12

For more info, scan the QR code or visit  
[clippard.com/link/ev-series](http://clippard.com/link/ev-series)

