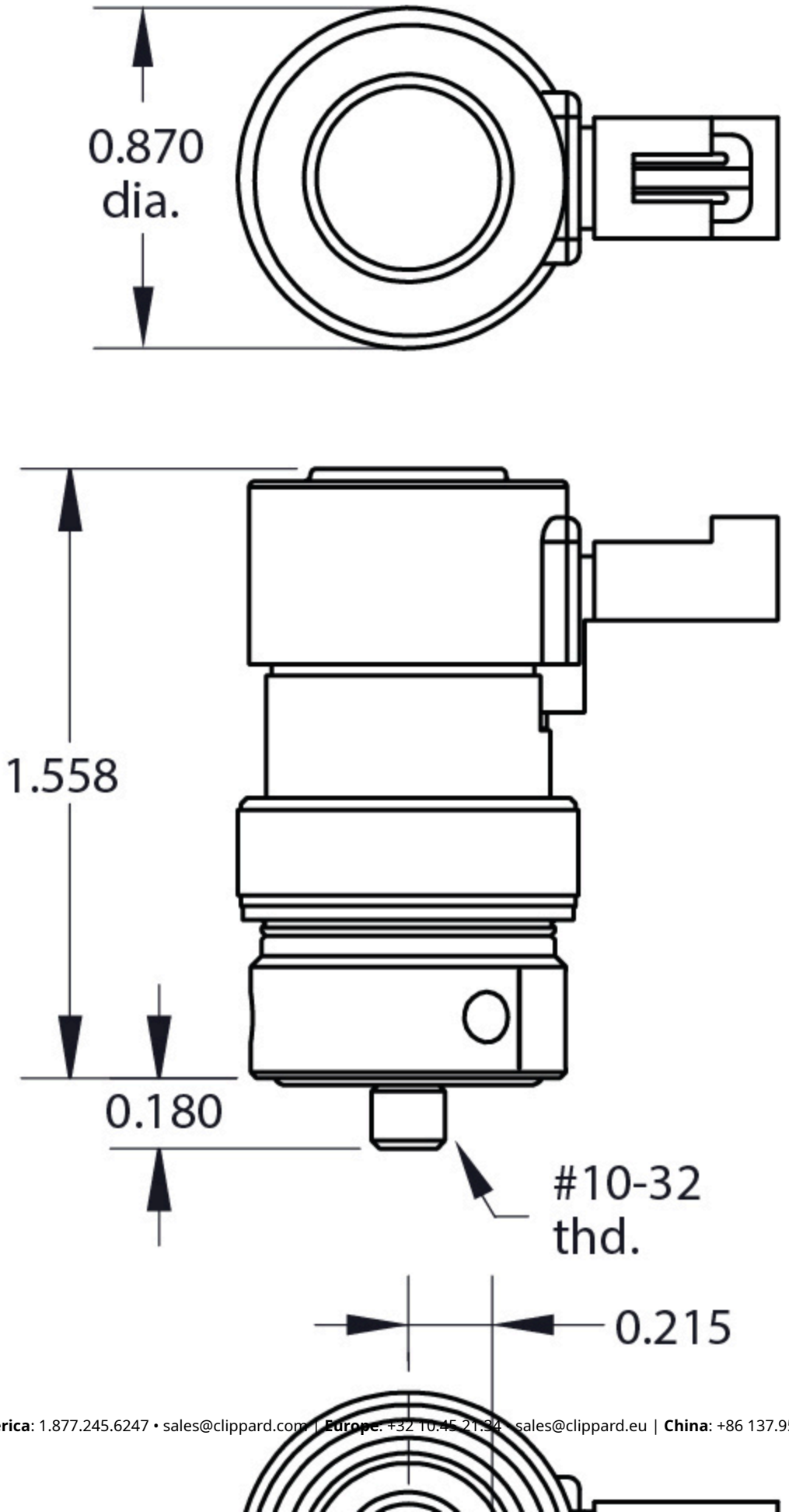
# EV Electronic Valves

## M-EHC-2M-12-R

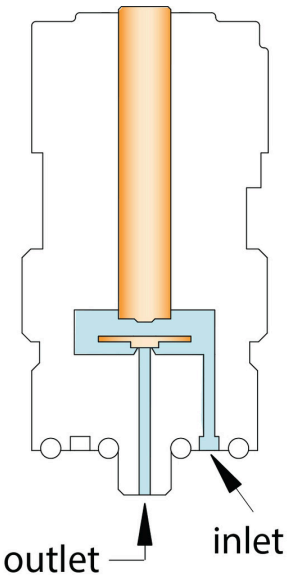



Clippard's original EV series valve design is a deceptively simple arrangement featuring a remarkably quiet, low power operation. The Clippard "spider" armature spring is the only moving part, and its motion to operate the valve is a mere 0.007" travel. As a result, this valve features an exceptionally 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 Torque Socket, Manifold Plug |
| **Coil Resistance** | 218 |
| **Connection** | Terminal Pin, 0.025" |
| **Connector** | C2-RB18 |
| **Current** | 0.05A |
| **Data Sheet** | Standard, N.O. Manifold |
| **Data Sheet, Series** | High Pressure Data Sheet (Metric) |
| **Filtration** | 40 micron (recommended) |
| **Flow Direction** | High-pressure models are factory-configured for reverse-flow orientation relative to standard configuration. The valve allows flow in both directions during actuation. When closed, outlet pressure must remain lower than inlet pressure to prevent unintended valve opening. |
| **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 and Compatible Liquids and Gases |
| **Mount** | Manifold |
| **Operating Pressure** | 500 psig (29 l/min @ 500 psig) |
| **Operating Temperature Range** | 32 to 180°F (0 to 82°C) |
| **Operating Voltage Range** | 90 to 150% |
| **Product Line Brochure** | Spider Valves |
| **Response Time** | 5 to 10 milliseconds (nominal) |
| **Type** | High Pressure |
| **Unit** | Metric |
| **Voltage** | 12 VDC |
| **Wattage** | 0.67 Watts (nominal) |
| **Weight (lbs.)** | 0.1700 |
| **Wire Connector** | AMP #103959-1 |


0.870
dia.
1.558
0.180
#10-32
thd.
0.215




outlet
inlet

