Clippard

Analytical Series Electronic Solenoid Valves

Clippard Minimatic electronic valves are precision-built 2-way or 3-way control valves, utilizing a unique, patented valving principle. There are no sliding parts. Complete poppet travel is a mere 0.007". As a result, low power consumption, quiet operation and exceptionally long life are major benefits of this design.

The Analytical Series Valve (A-) combines the proven features of Clippard's "Mouse" series with the specific needs of the analytical industry, and for applications where cleanliness is especially important. Special materials, manufacturing and assembly processes make this valve perfectly-suited for applications where internal cleanliness, bubble-tight operation, and long life are imperative.

Medium: Clean, dry air or non-corrosive gas (40 micron filter)

Power Consumption: 0.67 watt

Temperature Range: 32 to 180°F (0 to 82°C)

Response: 5 to 10 milliseconds (nominal)

Operating Range: 90 to 150% of rated voltage
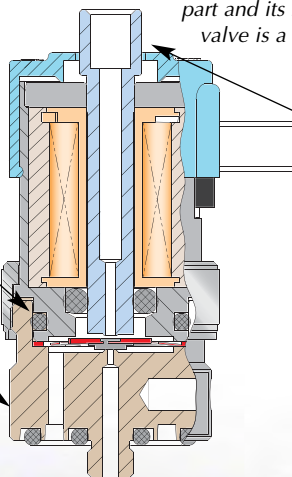
Voltage: 12 or 24 VDC

Mounting: Manifold only

- Industry standard for leak-free operation
- 1,000,000,000 cycles
- Design flexibility and fast response
- Low heat rise/low power
- Enhanced cleaning procedures

For additional valve specifications and order information, visit www.clippard.com or request a full-line catalog.

Clippard's "spider" is the only moving part and its motion to operate the valve is a mere 0.007" travel!

Larger cross section O-ring improves sealing

One-piece base eliminates many leak points

Integral fitting eliminates many leak points

No anaerobic sealant used

Electroless nickel-plated steel housing and core Buna-N seals standard

Cleaned per Clippard Standard ES-3.43

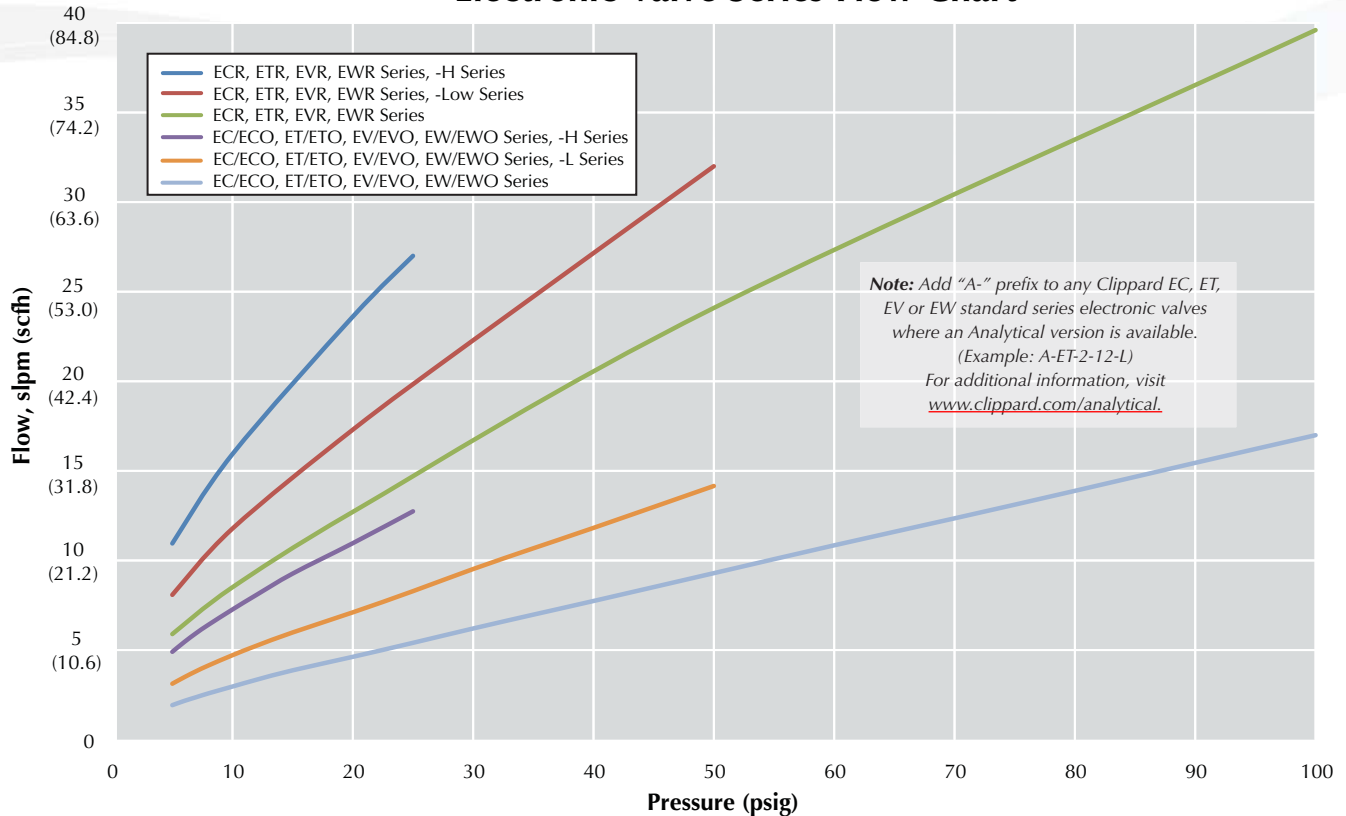(see details at www.clippard.com/analytical)

A-ET-3M-24

One-piece base and one-piece core combine with specific design enhancements to create the "industry standard for leak-free operation" in analytical and other scientific applications. Coil housing o-ring cross sections are also increased from Clippard's standard valve to add compression to these static seals. Elastomeric seals undergo special procedure for outgassing. These features and the removal of all anaerobic sealants and grease in the assembly process result in a valve uniquely suited for gas analytical systems and any application where leakage is a vital concern.

Electronic Valve Series Flow Chart

Flow, slpm (scfh) vs **Pressure (psig)**

Legend:
- ECR, ETR, EVR, EWR Series, -H Series
- ECR, ETR, EVR, EWR Series, -Low Series
- ECR, ETR, EVR, EWR Series
- EC/ECO, ET/ETO, EV/EVO, EW/EWO Series, -H Series
- EC/ECO, ET/ETO, EV/EVO, EW/EWO Series, -L Series
- EC/ECO, ET/ETO, EV/EVO, EW/EWO Series

Note: Add "A-" prefix to any Clippard EC, ET, EV or EW standard series electronic valves where an Analytical version is available. (Example: A-ET-2-12-L) For additional information, visit www.clippard.com/analytical.

Manifolds

Material: ENP brass   **Option:** Add -MR for metric version

#10-32 [M5] Inlet
1/8" NPT (R1/8) Outlet

outlet port #10-32 (internal)
1/8" NPT (external)
0.375
0.437
0.875
0.250
0.500
0.437
0.875
inlet port #10-32
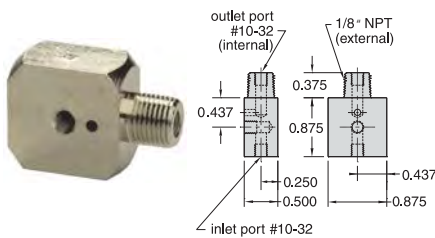
Part No.	
15490-1	Single Outlet Manifold

1/8" NPT (R1/8) Inlet
#10-32 [M5] Outlet

inlet port #10-32 (internal)
1/8" NPT (external)
0.375
0.437
0.875
0.250
0.500
0.437
0.875
outlet port #10-32
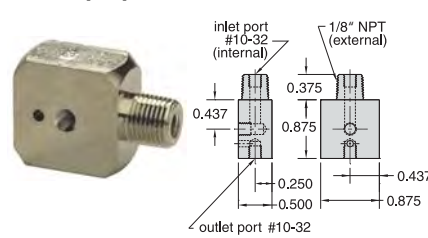
Part No.	
15490-2	Single Outlet Manifold

Dual Outlet
1/8" NPT (R1/8) Inlet
#10-32 [M5] Outlet

inlet port #10-32 (internal)
1/8" NPT (external)
0.375
0.437
0.875
0.250
0.500
0.437
0.218
0.125
0.125
0.875
outlet port #10-32
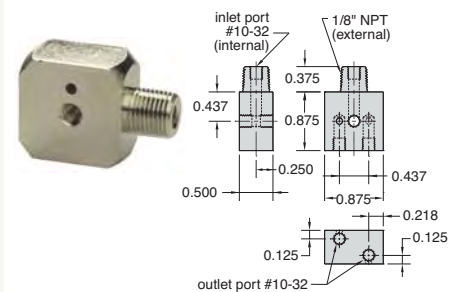
Part No.	
15490-3	Dual Outlet Manifold

Distributed by: