



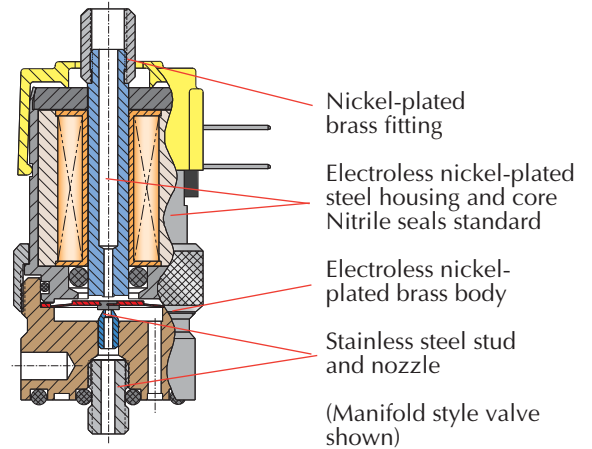
MOUSE VALVE SERIES DESCRIPTIONS



Standard Series

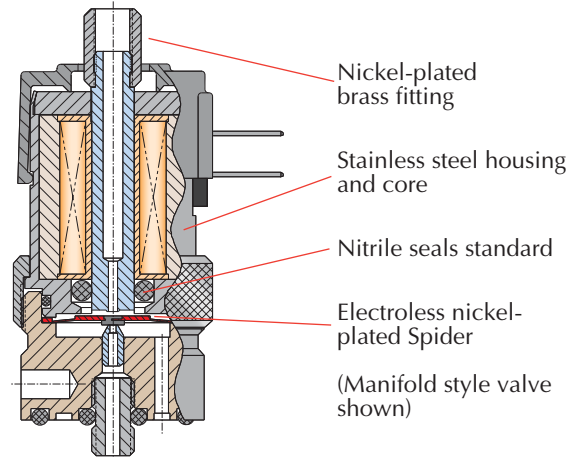
2- and 3-way manifold and in-line mounting. Normally-Closed and fully-ported versions.

Higher Flow 2-Way Version. The standard series also includes an option that provides higher flow for 2-way, Normally-Closed applications. Although manifold mounting is accomplished in the same fashion, the inlet is the annular port, and the outlet becomes the center port, through the convenient stud mount of the valve.



Corrosion-Resistant "CR-" Series

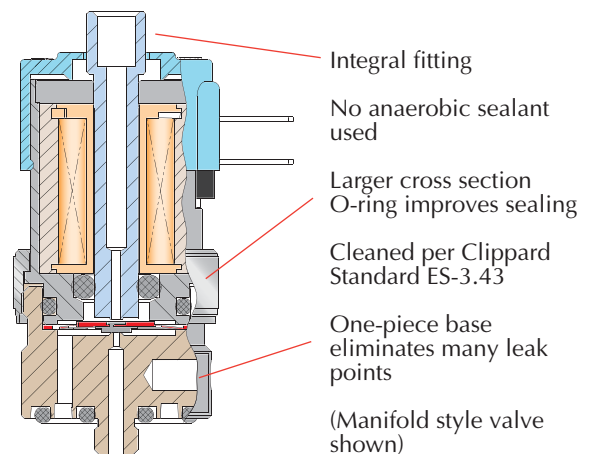
Clippard's Corrosion-Resistant Series (CR-) incorporates materials and construction that provides enhanced protection for valves used with mildly corrosive media such as moisture in air or gases. Where stainless steel is not possible, plating is incorporated to add life to wear components. A nickel-plated brass valve body is standard, but stainless steel may be substituted.



Analytical "A-" Series

Clippard's Electronic Analytical Valve (A-) series combines the proven features of the "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.

For more information, visit clippard.com/analytical

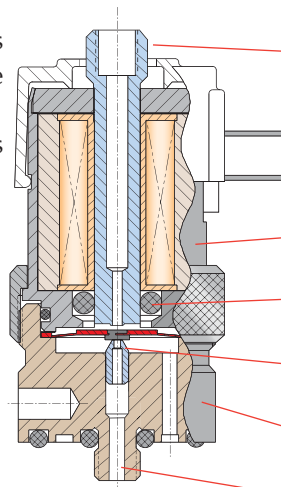




Oxygen Clean "O-" Series

All EV, ET, EC and EW series electronic valves with the "O-" part number option are available manufactured and assembled for use in Oxygen-enriched environments for applications that are extremely sensitive to contamination.

- Valves are ultrasonically cleaned, assembled, inspected and tested in an enclosed controlled area with a state-of-the-art positive pressure HEPA filtration system
- Both organic and inorganic contaminants such as particulate matter and Hydrocarbon oils are removed
- No organic sealants, adhesives or lubricants are used in the manufacturing process
- Component parts are lubricated with Oxygen-compatible PFPE (perfluoropolyether) grease, only as needed for assembly
- Individual testing and inspection is accomplished utilizing compressed Nitrogen and ultra-violet light

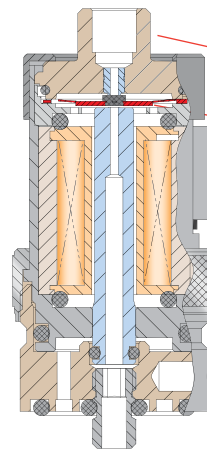


- Integral fitting
No thread sealant
- All wetted parts cleaned per Clippard Standard ES-3.41
- Electroless nickel-plated steel housing and core
- FKM seals
- Stainless steel nozzle
- Electroless nickel-plated brass body
- Integral stud
No thread sealant
- PFPE lubricant
(Manifold style valve shown)

For more information on the process, visit www.clippard.com/oxygen

ECN, EVN, ETN Mouse Valves

Normally-Open, manifold mount to allow Normally-Closed and Normally-Open valves on the same manifold. See page 187 for ordering information.



- Integral fitting
- Armature "spider" above coil
- Mounts side-by-side with Normally-Closed version
- (Manifold style valve shown)

Custom EV Valves

Don't see it here? Call us! Many people shy away from asking for customized products and fear increased price and lead times. Clippard's electronic valve production consist of nearly 50% customized product. From the simple tweaks to complex challenges, Clippard is your partner for finding the right solution to your needs.

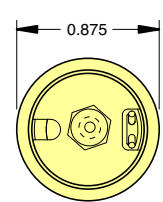
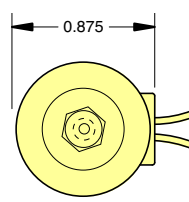
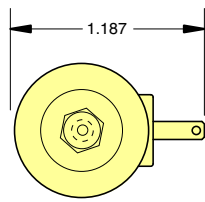
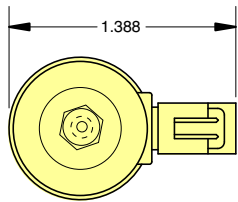


Metric line available. Visit www.clippard.com

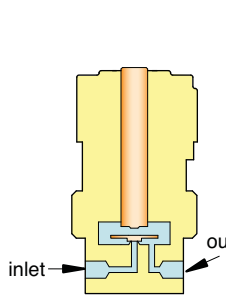


MOUNTING OPTIONS & FLOW DIAGRAMS

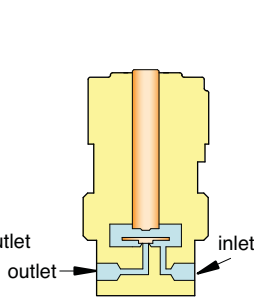
Electrical Connection Options



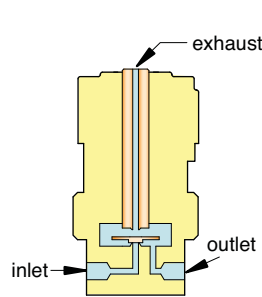
In-Line Mount



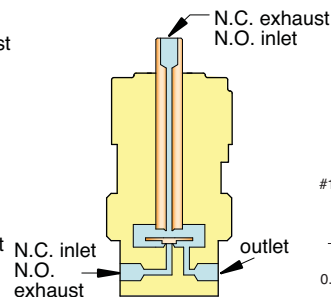
2-Way Normally-Closed In-Line Mount



2-Way Normally-Closed High Flow In-Line Mount

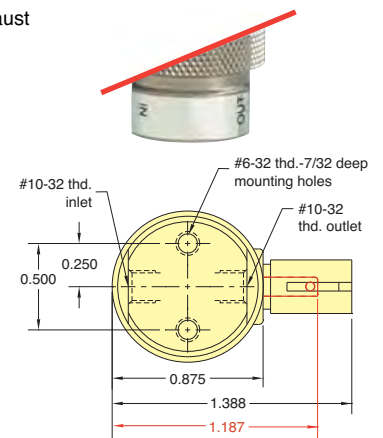


3-Way Normally-Closed In-Line Mount

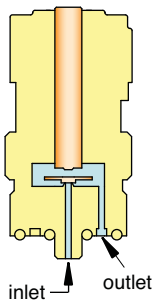


3-Way Fully-Ported In-Line Mount

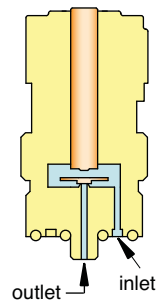
Mounting Options



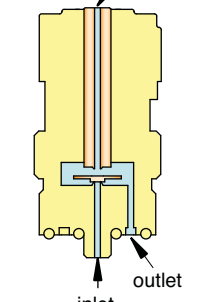
Manifold Mount



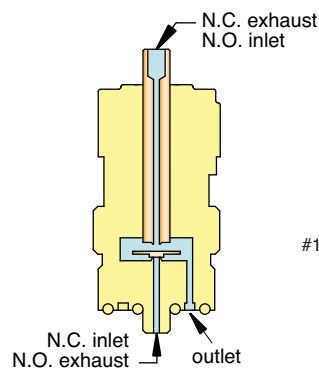
2-Way Normally-Closed Manifold Mount



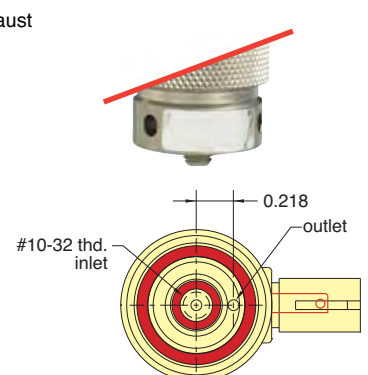
2-Way Normally-Closed High Flow Manifold Mount



3-Way Normally-Closed Manifold Mount

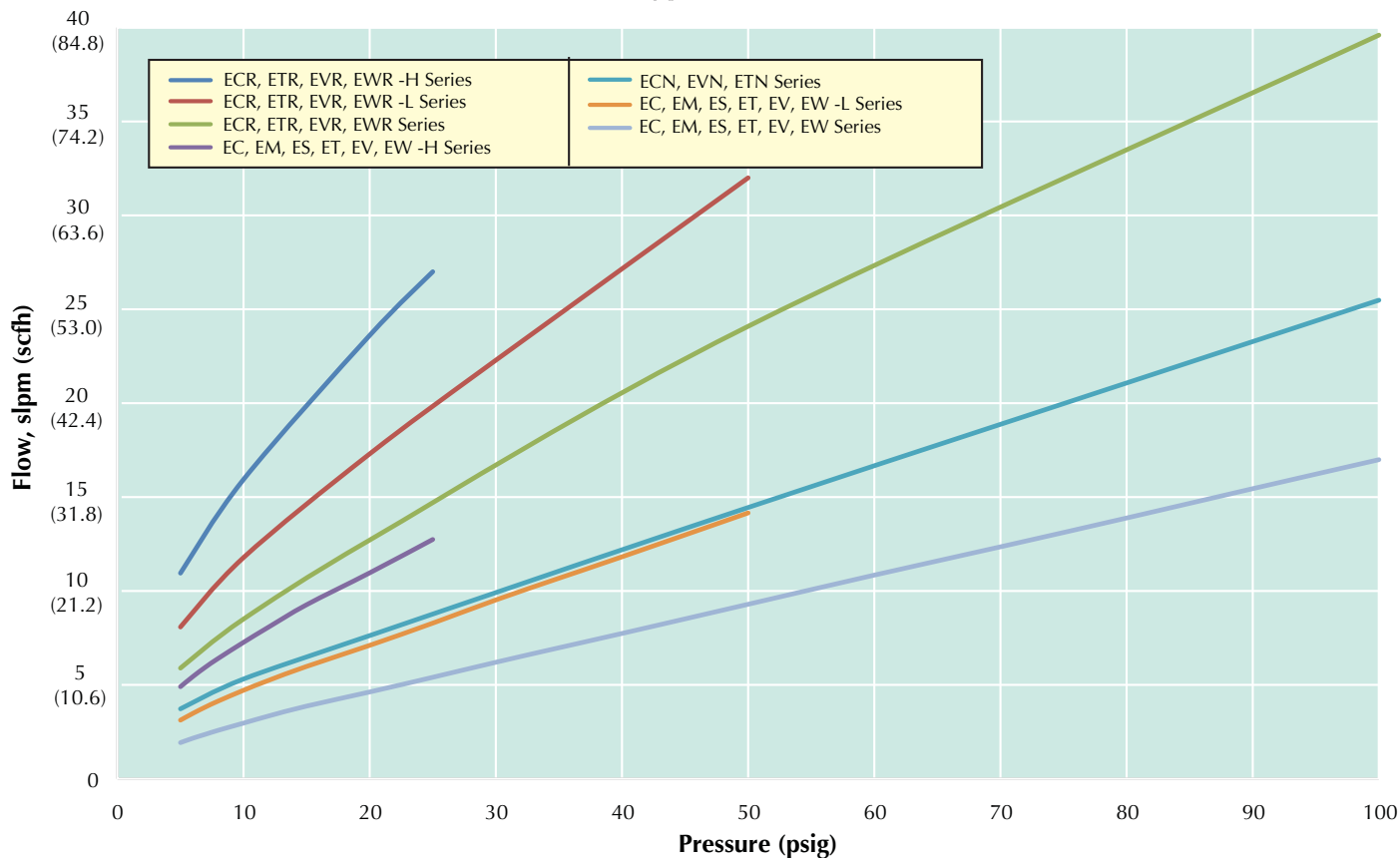


3-Way Fully-Ported Manifold Mount





Typical Air Flow



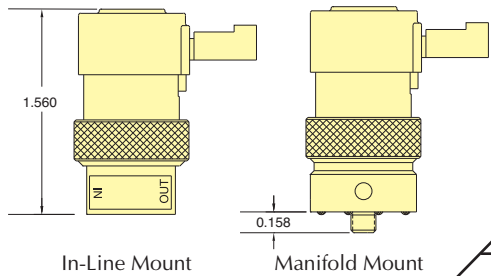
Electrical Specifications

| Series | Nominal | | | Power (watts) | Working Range (cont. duty) |
|--|---------|----------------|-------------------|---------------|--------------------------------|
| | Voltage | Current (amps) | Resistance (ohms) | | |
| - Standard - Oxygen Clean - Analytical | 12 | 0.055 | 218 | 0.67 | 90 to 150% of rated voltage |
| | 24 | 0.028 | 864 | | |
| - Corrosion-Resistant | 12 | 0.098 | 122 | 1.2 | 90 to 110% of rated voltage |
| | 24 | 0.049 | 486 | | |
| - EM Series - ES Series | 12 | 0.083 | 144 | 1.0 | 90 to 120% of rated voltage |
| | 24 | 0.042 | 576 | | |

Metric line available. Visit www.clippard.com



2-WAY NORMALLY-CLOSED VALVES, IN-LINE & MANIFOLD MOUNT



| | | Vac. to 105 psig | | Vac. to 50 psig | | Vac. to 25 psig | | 12 VDC | | 24 VDC | | Part No. | |
|--|------------------------------|------------------|---|-----------------|-------------|-----------------|-------------|----------------|--|--------|--|----------|--|
| | | Pressure Range | | Voltage | | In-Line Mount | | Manifold Mount | | | | | |
| | 0.025" Pin Connector | • | | • | • | *EC-2-12 | *EC-2M-12 | | | | | | |
| | | • | | • | • | *EC-2-24 | *EC-2M-24 | | | | | | |
| | | | • | • | • | *EC-2-12-L | *EC-2M-12-L | | | | | | |
| | | | • | • | • | *EC-2-24-L | *EC-2M-24-L | | | | | | |
| | | | | • | • | *EC-2-12-H | *EC-2M-12-H | | | | | | |
| | | • | • | *EC-2-24-H | *EC-2M-24-H | | | | | | | | |
| | Spade Terminals | • | | • | • | *ET-2-12 | *ET-2M-12 | | | | | | |
| | | • | | • | • | *ET-2-24 | *ET-2M-24 | | | | | | |
| | | | • | • | • | *ET-2-12-L | *ET-2M-12-L | | | | | | |
| | | | • | • | • | *ET-2-24-L | *ET-2M-24-L | | | | | | |
| | | | | • | • | *ET-2-12-H | *ET-2M-12-H | | | | | | |
| | | • | • | *ET-2-24-H | *ET-2M-24-H | | | | | | | | |
| | Wire Leads Side (Radial) | • | | • | • | *EV-2-12 | *EV-2M-12 | | | | | | |
| | | • | | • | • | *EV-2-24 | *EV-2M-24 | | | | | | |
| | | | • | • | • | *EV-2-12-L | *EV-2M-12-L | | | | | | |
| | | | • | • | • | *EV-2-24-L | *EV-2M-24-L | | | | | | |
| | | | | • | • | *EV-2-12-H | *EV-2M-12-H | | | | | | |
| | | • | • | *EV-2-24-H | *EV-2M-24-H | | | | | | | | |
| | Wire Leads Top (Axial) | • | | • | • | *EW-2-12 | *EW-2M-12 | | | | | | |
| | | • | | • | • | *EW-2-24 | *EW-2M-24 | | | | | | |
| | | | • | • | • | *EW-2-12-L | *EW-2M-12-L | | | | | | |
| | | | • | • | • | *EW-2-24-L | *EW-2M-24-L | | | | | | |
| | | | | • | • | *EW-2-12-H | *EW-2M-12-H | | | | | | |
| | | • | • | *EW-2-24-H | *EW-2M-24-H | | | | | | | | |

- Medium:** Clean, dry air (40 micron filter)
- Power Consumption:** 0.67 watt (CR Series: 1.2 watt)
- Temperature Range:** 32 to 180°F; CR Series: 32 to 150°F
- Response:** 5 to 10 milliseconds (nominal)
- Operating Range:** 90 to 150% of rated voltage (CR Series: ±10%)
- Ports:** #10-32

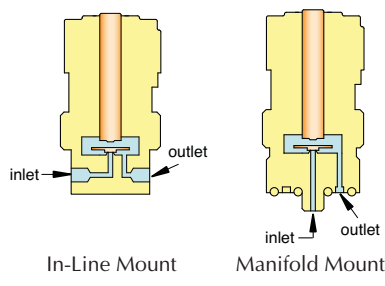


| Valve Series (*) | Standard | Non-Standard |
|---|----------|---|
| Standard | (blank) | |
| Oxygen Clean | O- | See Pages 179 & 180 for further information |
| Analytical Series** | A- | |
| Corrosion-Resistant (not std. on "EW") | CR- | |
| Options (add to end of Part No.) | | |
| FKM Seals | -V | |
| EPR Seals | | -E |
| Silicone Seals | | -S |
| Diode | | -D |

Example Part No's:
ET-2M-12-V
CR-ET-2-12

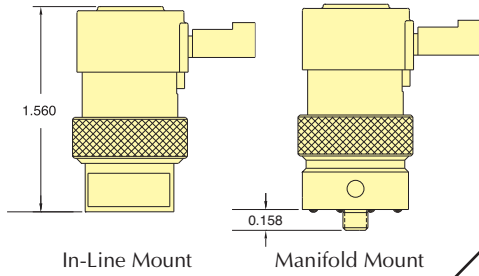
See Page 181 for mounting options

** Available on manifold mount valves only



| Pressure Range | Suffix | Air Flow |
|-------------------------|---------|---------------------|
| 28" Hg Vac. to 105 psig | (blank) | 0.6 scfm @ 100 psig |
| 28" Hg Vac. to 50 psig | -L | 0.5 scfm @ 50 psig |
| 28" Hg Vac. to 25 psig | -H | 0.45 scfm @ 25 psig |

2-WAY NORMALLY-CLOSED HIGH FLOW VALVES, IN-LINE & MANIFOLD MOUNT



Part No.

| | | Pressure Range | | | Voltage | | In-Line Mount | Manifold Mount |
|------------------------------|---|------------------|-----------------|-----------------|---------|--------|---------------|----------------|
| | | Vac. to 105 psig | Vac. to 50 psig | Vac. to 25 psig | 12 VDC | 24 VDC | | |
| 0.025" Pin Connector | • | | | | • | | *ECR-2-12 | *ECR-2M-12 |
| | • | | | | | • | *ECR-2-24 | *ECR-2M-24 |
| Spade Terminals | • | | | | • | | *ECR-2-12-L | *ECR-2M-12-L |
| | • | | | | | • | *ECR-2-24-L | *ECR-2M-24-L |
| Wire Leads Side (Radial) | • | | | | • | | *ECR-2-12-H | *ECR-2M-12-H |
| | • | | | | | • | *ECR-2-24-H | *ECR-2M-24-H |
| Wire Leads Top (Axial) | • | | | | • | | *ETR-2-12 | *ETR-2M-12 |
| | • | | | | | • | *ETR-2-24 | *ETR-2M-24 |
| | • | | | | • | | *ETR-2-12-L | *ETR-2M-12-L |
| | • | | | | | • | *ETR-2-24-L | *ETR-2M-24-L |
| | • | | | | • | | *ETR-2-12-H | *ETR-2M-12-H |
| | • | | | | | • | *ETR-2-24-H | *ETR-2M-24-H |
| | • | | | | • | | *EVR-2-12 | *EVR-2M-12 |
| | • | | | | | • | *EVR-2-24 | *EVR-2M-24 |
| | • | | | | • | | *EVR-2-12-L | *EVR-2M-12-L |
| | • | | | | | • | *EVR-2-24-L | *EVR-2M-24-L |
| | • | | | | • | | *EVR-2-12-H | *EVR-2M-12-H |
| | • | | | | | • | *EVR-2-24-H | *EVR-2M-24-H |
| | • | | | | • | | *EWR-2-12 | *EWR-2M-12 |
| | • | | | | | • | *EWR-2-24 | *EWR-2M-24 |
| | • | | | | • | | *EWR-2-12-L | *EWR-2M-12-L |
| | • | | | | | • | *EWR-2-24-L | *EWR-2M-24-L |
| | • | | | | • | | *EWR-2-12-H | *EWR-2M-12-H |
| | • | | | | | • | *EWR-2-24-H | *EWR-2M-24-H |

Medium: Clean, dry air (40 micron filter)

Power Consumption: 1.2 watt

Temperature Range: 32 to 150°F

Response: 10 milliseconds (nominal)

Operating Range: ±10% of rated voltage

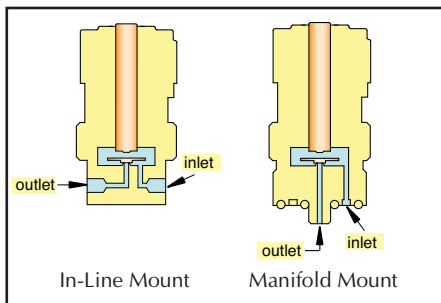
Ports: #10-32



| Valve Series (*) | Standard | Non-Standard |
|---|---------------|---|
| Standard Analytical Series** | (blank) A- | See Pages 179 & 180 for further information |
| Options (add to end of Part No.) | | |
| FKM Seals | -V | |
| EPR Seals | | -E |
| Silicone Seals | | -S |
| Diode | | -D |

See Page 181 for mounting options

** Available on manifold mount valves only

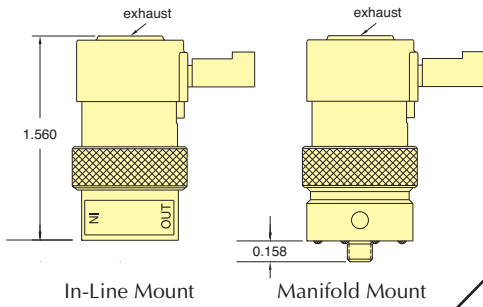


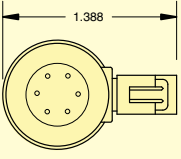

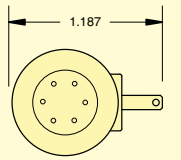
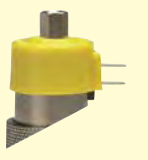
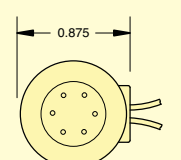

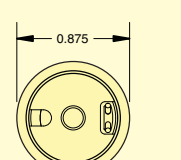

| Pressure Range | Suffix | Air Flow |
|-------------------------|---------|---------------------|
| 28" Hg Vac. to 100 psig | (blank) | 1.4 scfm @ 100 psig |
| 28" Hg Vac. to 50 psig | -L | 1.1 scfm @ 50 psig |
| 28" Hg Vac. to 25 psig | -H | 0.95 scfm @ 25 psig |

Metric line available. Visit www.clippard.com



3-WAY NORMALLY-CLOSED VALVES, IN-LINE & MANIFOLD



| | | Pressure Range | | Voltage | | Part No. | |
|--|---|------------------|---|-----------------|-------------|-----------------|----------------|
| | | Vac. to 105 psig | | Vac. to 50 psig | | Vac. to 25 psig | |
| | | 12 VDC | | 24 VDC | | In-Line Mount | Manifold Mount |
|  0.025" Pin Connector |  | • | | • | • | *EC-3-12 | *EC-3M-12 |
| | | • | | • | • | *EC-3-24 | *EC-3M-24 |
| | | | • | | • | *EC-3-12-L | *EC-3M-12-L |
| | | | • | | • | *EC-3-24-L | *EC-3M-24-L |
| | | | | • | • | *EC-3-12-H | *EC-3M-12-H |
| | | | • | *EC-3-24-H | *EC-3M-24-H | | |
|  Spade Terminals |  | • | | • | • | *ET-3-12 | *ET-3M-12 |
| | | • | | • | • | *ET-3-24 | *ET-3M-24 |
| | | | • | | • | *ET-3-12-L | *ET-3M-12-L |
| | | | • | | • | *ET-3-24-L | *ET-3M-24-L |
| | | | | • | • | *ET-3-12-H | *ET-3M-12-H |
| | | | • | *ET-3-24-H | *ET-3M-24-H | | |
|  Wire Leads Side (Radial) |  | • | | • | • | *EV-3-12 | *EV-3M-12 |
| | | • | | • | • | *EV-3-24 | *EV-3M-24 |
| | | | • | | • | *EV-3-12-L | *EV-3M-12-L |
| | | | • | | • | *EV-3-24-L | *EV-3M-24-L |
| | | | | • | • | *EV-3-12-H | *EV-3M-12-H |
| | | | • | *EV-3-24-H | *EV-3M-24-H | | |
|  Wire Leads Top (Axial) |  | • | | • | • | *EW-3-12 | *EW-3M-12 |
| | | • | | • | • | *EW-3-24 | *EW-3M-24 |
| | | | • | | • | *EW-3-12-L | *EW-3M-12-L |
| | | | • | | • | *EW-3-24-L | *EW-3M-24-L |
| | | | | • | • | *EW-3-12-H | *EW-3M-12-H |
| | | | • | *EW-3-24-H | *EW-3M-24-H | | |

- Medium:** Clean, dry air (40 micron filter)
- Power Consumption:** 0.67 watt (CR Series: 1.2 watt)
- Temperature Range:** 32 to 180°F, CR Series: 32 to 150°F
- Response:** 5 to 10 milliseconds (nominal)
- Operating Range:** 90 to 150% of rated voltage (CR Series: ±10%)
- Ports:** #10-32



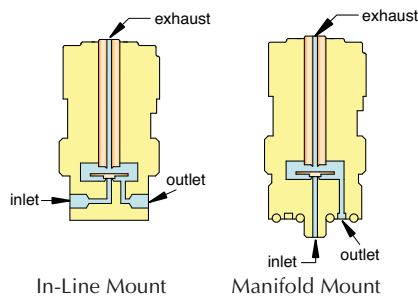
| Valve Series (*) | Standard | Non-Standard |
|---|----------|---|
| Standard | (blank) | |
| Oxygen Clean | O- | See Pages 179 & 180 for further information |
| Analytical Series** | A- | |
| Corrosion-Resistant (not std. on "EW") | CR- | |
| Options (add to end of Part No.) | | |
| FKM Seals | -V | |
| EPR Seals | | -E |
| Silicone Seals | | -S |
| Diode | | -D |

Example Part No's:
ET-3-12-S
O-EW-3-24

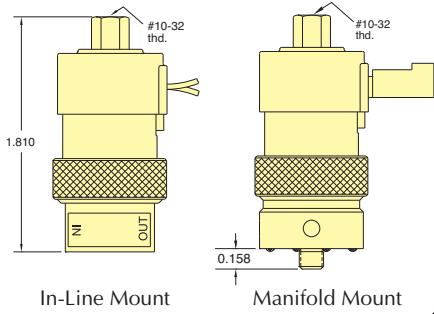
See Page 181 for mounting options

** Available on manifold mount valves only

| Pressure Range | Suffix | Air Flow |
|-------------------------|---------|---------------------|
| 28" Hg Vac. to 105 psig | (blank) | 0.6 scfm @ 100 psig |
| 28" Hg Vac. to 50 psig | -L | 0.5 scfm @ 50 psig |
| 28" Hg Vac. to 25 psig | -H | 0.45 scfm @ 25 psig |



3-WAY FULLY-PORTED VALVES, IN-LINE & MANIFOLD



Part No.

| | | Pressure Range | | Voltage | | In-Line Mount | Manifold Mount |
|------------------------------|---|------------------|-----------------|-----------------|--------|---------------|----------------|
| | | Vac. to 105 psig | Vac. to 50 psig | Vac. to 25 psig | 12 VDC | 24 VDC | |
| 0.025" Pin Connector | • | | | | • | *ECO-3-12 | *ECO-3M-12 |
| | • | | | | • | *ECO-3-24 | *ECO-3M-24 |
| | | • | | | • | *ECO-3-12-L | *ECO-3M-12-L |
| | | • | | | • | *ECO-3-24-L | *ECO-3M-24-L |
| | | | • | | • | *ECO-3-12-H | *ECO-3M-12-H |
| | | | • | • | | *ECO-3-24-H | *ECO-3M-24-H |
| Spade Terminals | • | | | | • | *ETO-3-12 | *ETO-3M-12 |
| | • | | | | • | *ETO-3-24 | *ETO-3M-24 |
| | | • | | | • | *ETO-3-12-L | *ETO-3M-12-L |
| | | • | | | • | *ETO-3-24-L | *ETO-3M-24-L |
| | | | • | | • | *ETO-3-12-H | *ETO-3M-12-H |
| | | | • | • | | *ETO-3-24-H | *ETO-3M-24-H |
| Wire Leads Side (Radial) | • | | | | • | *EVO-3-12 | *EVO-3M-12 |
| | • | | | | • | *EVO-3-24 | *EVO-3M-24 |
| | | • | | | • | *EVO-3-12-L | *EVO-3M-12-L |
| | | • | | | • | *EVO-3-24-L | *EVO-3M-24-L |
| | | | • | | • | *EVO-3-12-H | *EVO-3M-12-H |
| | | | • | • | | *EVO-3-24-H | *EVO-3M-24-H |
| Wire Leads Top (Axial) | • | | | | • | *EWO-3-12 | *EWO-3M-12 |
| | • | | | | • | *EWO-3-24 | *EWO-3M-24 |
| | | • | | | • | *EWO-3-12-L | *EWO-3M-12-L |
| | | • | | | • | *EWO-3-24-L | *EWO-3M-24-L |
| | | | • | | • | *EWO-3-12-H | *EWO-3M-12-H |
| | | | • | • | | *EWO-3-24-H | *EWO-3M-24-H |

Medium: Clean, dry air (40 micron filter)

Power Consumption: 0.67 watt (CR Series: 1.2 watt)

Temperature Range: 32 to 180°F, CR Series: 32 to 150°F

Response: 5 to 10 milliseconds (nominal)

Operating Range: 90 to 150% of rated voltage (CR Series: ±10%)

Ports: #10-32

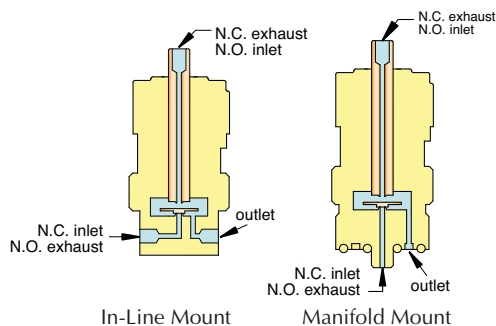


| Valve Series (*) | Standard | Non-Standard |
|----------------------------------|----------|---|
| Standard | (blank) | |
| Oxygen Clean | O- | See Pages 179 & 180 for further information |
| Analytical Series** | A- | |
| Corrosion-Resistant | CR- | |
| <i>(not std. on "EWO")</i> | | |
| Options (add to end of Part No.) | | |
| FKM Seals | -V | |
| EPR Seals | | -E |
| Silicone Seals | | -S |
| Diode | | -D |

Example Part No's:
ETO-3M-24-D
CR-EVO-3-12

See Page 181 for mounting options

** Available on manifold mount valves only



| Pressure Range | Suffix | Air Flow |
|-------------------------|---------|---------------------|
| 28" Hg Vac. to 105 psig | (blank) | 0.6 scfm @ 100 psig |
| 28" Hg Vac. to 50 psig | -L | 0.5 scfm @ 50 psig |
| 28" Hg Vac. to 25 psig | -H | 0.45 scfm @ 25 psig |

Metric line available. Visit www.clippard.com



2-WAY & 3-WAY NORMALLY-OPEN VALVES, MANIFOLD

| | | Voltage | | Part No. | |
|------------------------------|---|---------|-----------|-----------|-------|
| | | 12 VDC | 24 VDC | 2-Way | 3-Way |
| 0.025" Pin Connector | • | | ECN-2M-12 | ECN-3M-12 | |
| | | • | ECN-2M-24 | ECN-3M-24 | |
| Spade Terminals | • | | ETN-2M-12 | ETN-3M-12 | |
| | | • | ETN-2M-24 | ETN-3M-24 | |
| Wire Leads Side (Radial) | • | | EVN-2M-12 | EVN-3M-12 | |
| | | • | EVN-2M-24 | EVN-3M-24 | |

- Medium:** Clean, dry air (40 micron filter)
- Power Consumption:** 0.67 watt
- Temperature Range:** 32 to 180°F
- Response:** 5 to 10 milliseconds (nominal)
- Operating Range:** 90 to 150% of rated voltage
- Voltage:** 12 VDC or 24 VDC. Other voltages available upon request.
- Ports:** #10-32

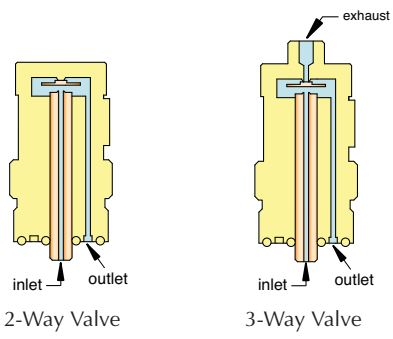


| Valve Series (*) | Standard | Non-Standard |
|---|----------|--------------|
| Standard | (blank) | |
| Options (add to end of Part No.) | | |
| FKM Seals | -V | |
| EPR Seals | | -E |
| Silicone Seals | | -S |
| Diode | | -D |

Example Part No's:
EVN-2M-12-V
ETN-3M-24

See Page 181 for mounting options

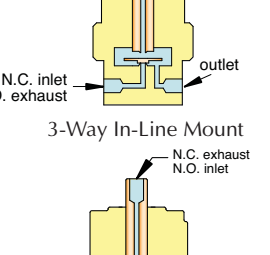
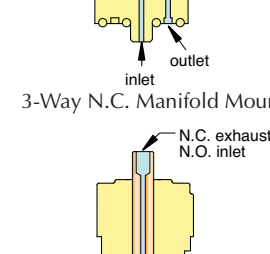
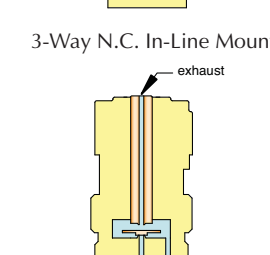
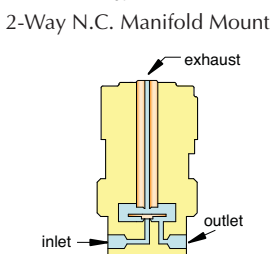
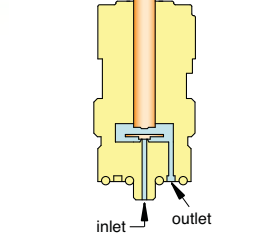
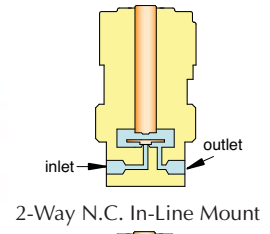
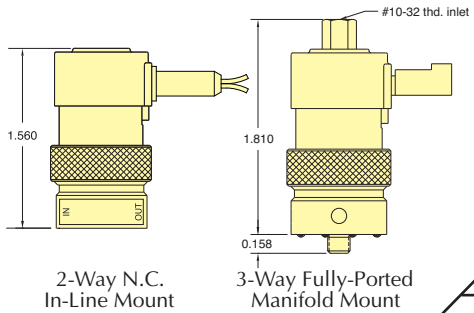
| Pressure Range | Air Flow |
|-------------------------|---------------------|
| 28" Hg Vac. to 105 psig | 0.9 scfm @ 100 psig |



2- & 3-WAY INTRINSICALLY SAFE VALVES



2-WAY INTRINSICALLY SAFE NORMALLY-CLOSED VALVES, IN-LINE & MANIFOLD MOUNT



| Pressure Range | Part No. | |
|--------------------|---------------|----------------|
| | In-Line Mount | Manifold Mount |
| • Vac. to 105 psig | EI-2-15.5 | EI-2M-15.5 |
| • Vac. to 50 psig | EI-2-15.5-L | EI-2M-15.5-L |
| • Vac. to 25 psig | EI-2-15.5-H | EI-2M-15.5-H |
| • | EI-2-15.5-C | EI-2M-15.5-C |
| • | EI-2-15.5-LC | EI-2M-15.5-LC |
| • | EI-2-15.5-HC | EI-2M-15.5-HC |

3-WAY INTRINSICALLY SAFE NORMALLY-CLOSED VALVES, IN-LINE & MANIFOLD MOUNT

| | | |
|---|--------------|---------------|
| • | EI-3-15.5 | EI-3M-15.5 |
| • | EI-3-15.5-L | EI-3M-15.5-L |
| • | EI-3-15.5-H | EI-3M-15.5-H |
| • | EI-3-15.5-C | EI-3M-15.5-C |
| • | EI-3-15.5-LC | EI-3M-15.5-LC |
| • | EI-3-15.5-HC | EI-3M-15.5-HC |

3-WAY INTRINSICALLY SAFE FULLY-PORTED VALVES, IN-LINE & MANIFOLD MOUNT

| | | |
|---|---------------|----------------|
| • | EIO-3-15.5 | EIO-3M-15.5 |
| • | EIO-3-15.5-L | EIO-3M-15.5-L |
| • | EIO-3-15.5-H | EIO-3M-15.5-H |
| • | EIO-3-15.5-C | EIO-3M-15.5-C |
| • | EIO-3-15.5-LC | EIO-3M-15.5-LC |
| • | EIO-3-15.5-HC | EIO-3M-15.5-HC |

Medium: Clean, dry air (40 micron filter)

Power Consumption: 0.67 watt

Temperature Range: 32 to 180°F

Response: 5 to 10 milliseconds (nominal)

Operating Range: 90 to 150% of rated voltage

Voltage: 15.5 VDC

Ports: #10-32 and manifold mount



| Pressure Range | Suffix | Air Flow |
|-------------------------|---------|---------------------|
| 28" Hg Vac. to 105 psig | (blank) | 0.6 scfm @ 100 psig |
| 28" Hg Vac. to 50 psig | -L | 0.5 scfm @ 50 psig |
| 28" Hg Vac. to 25 psig | -H | 0.45 scfm @ 25 psig |

See Page 181 for mounting options

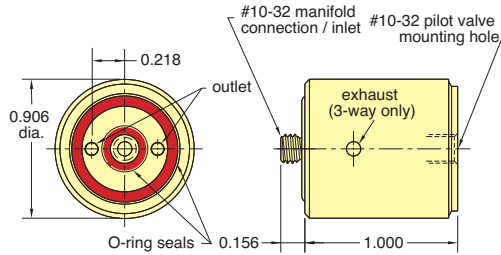
Other seal materials optional

See www.clippard.com for more information



EV, ET, EC, EW SERIES HIGHER FLOW VALVES

EC, EV, ET & EW PILOTED 2-WAY & 3-WAY NORMALLY-CLOSED, PRESSURE PILOTED VALVES, MANIFOLD MOUNT



Medium: Air

Materials: Nickel-plated brass, acetal, stainless steel and Nitrile

Response: 20 milliseconds @ 20 psig;
13 milliseconds @ 100 psig nominal

Ports: Inlet and outlet through manifold

Material: Nickel-plated brass, acetal, stainless steel and Nitrile

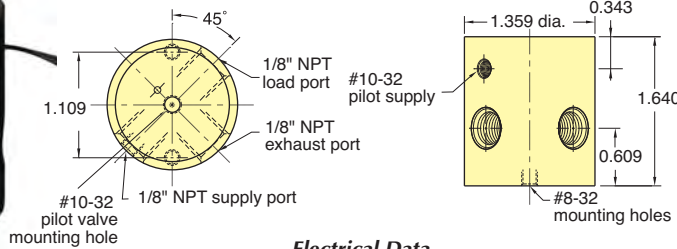
Note: Use only Normally-Closed 3-Way Pilot valves in conjunction with EVB-2/EVB-3

Part No.

- EVB-2 2-Way Valve Booster
- EVB-3 3-Way Valve Booster

| Input Pressure | Air Flow |
|----------------|---------------------|
| 20 to 150 psig | 6.1 scfm @ 100 psig |

ELECTRONIC INTERFACE 3-WAY NORMALLY-CLOSED VALVE



Medium: Air

Filtration: 10 micron

Ports: 1/8" NPT female

Switching Speed: 10 milliseconds

Bleed Flow: 0.10 scfm @ 100 psig

Frequency Response: 50 Hz @ 100 psig;
70 Hz @ 30 psig

Part No.

- 2013-6 Interface Valve, 6 VDC
- 2013-12 Interface Valve, 12 VDC
- 2013-24 Interface Valve, 24 VDC

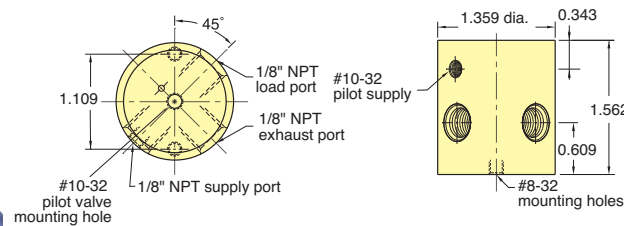
Continuous Overload: 350% @ 25°C ambient; 250% @ 50°C ambient

Power Consumption: Less than 0.50 watts @ rated voltage (80 ma. @ 6 VDC, 40 ma. @ 12 VDC 20 ma. @ 24VDC)

Leads: 28 gauge stranded PVC insulated

| Input Pressure | Air Flow |
|--|--------------------|
| 30 to 100 psig <i>call for special configurations</i> | 22 scfm @ 100 psig |

3-WAY NORMALLY-CLOSED, PRESSURE PILOTED VALVES



Medium: Air

Pilot Pressure: (2020) 60% of supply pressure, minimum

Response: Approximately 20 milliseconds

Mounting: Mounting holes provided

Ports: Inlet and outlet, exhaust 1/8" NPT Pilot supply on 2020 is #10-32 female

Materials: Anodized Aluminum, Stainless Steel and Nitrile

Additional Note: Use only Normally-Closed 3-way pilot valves in conjunction with 2020/2021

Designed to be piloted by a Clippard EC, EV and ET manifold mount electronic valve (not included). Output from the EC, EV and ET actuates the valve to produce outputs up to 22 scfm at 100 psig. Combines low wattage, long life and cool running of the EC, EV and ET valves with quick response and high flow of Clippard "Fluidamp" type valves. The 2020 and 2021 are identical in all respects except one. The 2020 has an external #10-32 pilot port.

Part No.

- 2020 External Piloted Valve with #10-32 Port
- 2021 Internal Piloted Valve

| Input Pressure | Air Flow |
|--|--------------------|
| 30 to 100 psig <i>call for special configurations</i> | 22 scfm @ 100 psig |