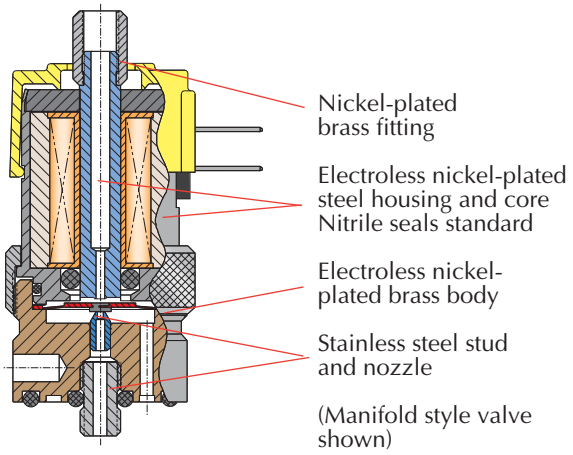
Mouse Valve Series Descriptions

Standard Series

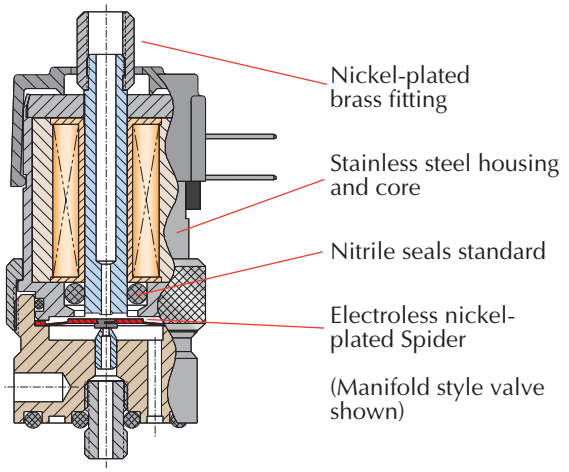
2- and 3-way manifold and in-line mounting. Normally-Closed and fully-ported versions.

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

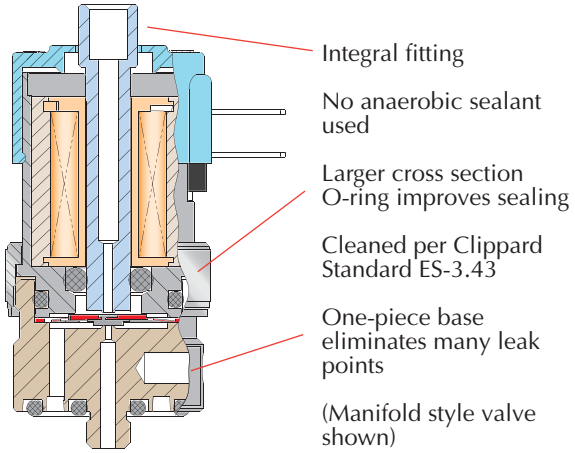
Clippard's Corrosion-Resistant Series (CR-) incorporates materials and construction that provides enhanced protection for valves used with mildly corrosive media such as moisture in air or gases. Where stainless steel is not possible, plating is incorporated to add life to wear components. A nickel-plated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

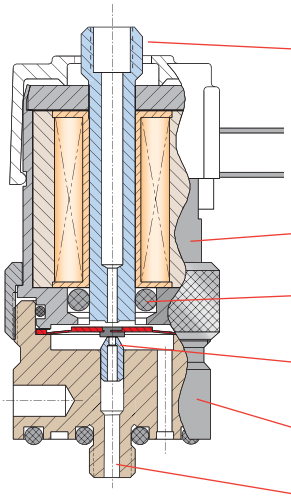
For more information, visit clippard.com/analytical



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.

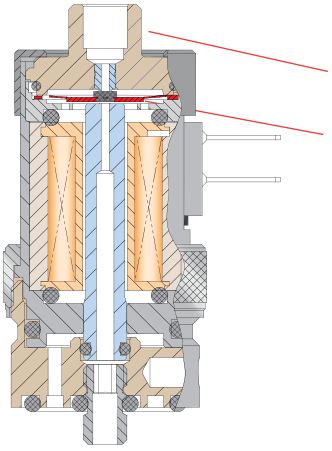
- Valves are ultrasonically cleaned, assembled, inspected and tested in an enclosed controlled area with a state-of-the-art positive pressure HEPA filtration system
- Both organic and inorganic contaminants such as particulate matter and Hydrocarbon oils are removed
- No organic sealants, adhesives or 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



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.



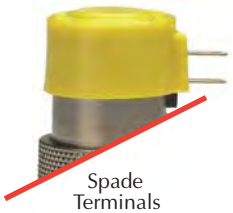
Custom EV Valves

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

Electrical Connection Options

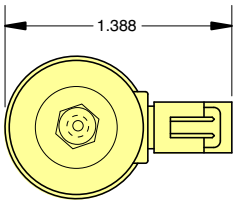
0.025″ Pin Connector

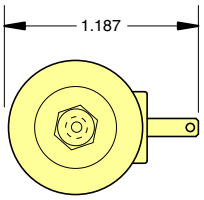


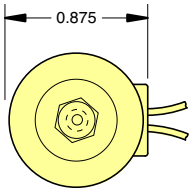
Spade Terminals

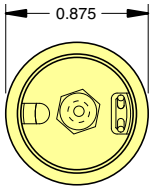
Wire Leads Side (Radial)

Wire Leads Top (Axial)

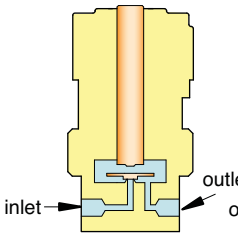




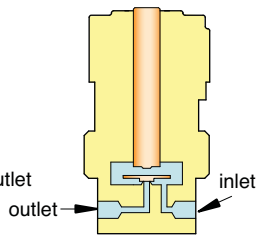




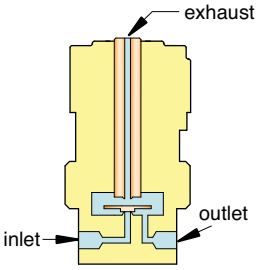
In-Line Mount



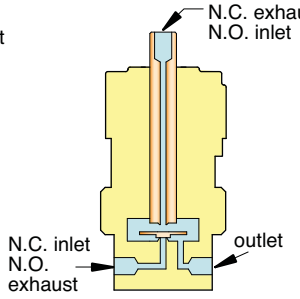
2-Way Normally-Closed In-Line Mount



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

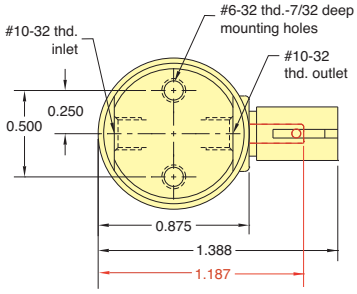


3-Way Normally-Closed In-Line Mount

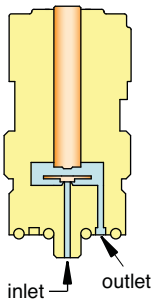


3-Way Fully-Ported In-Line Mount

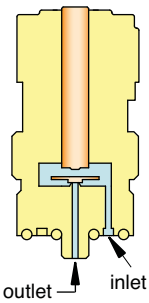
Mounting Options



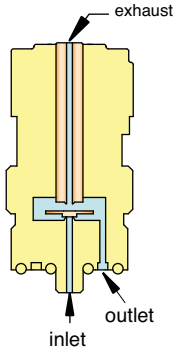
Manifold Mount



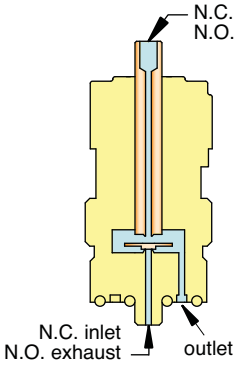
2-Way Normally-Closed Manifold Mount



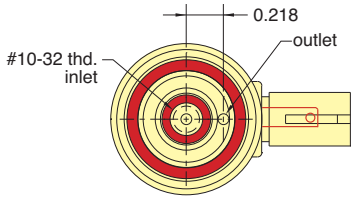
2-Way Normally-Closed High Flow Manifold Mount



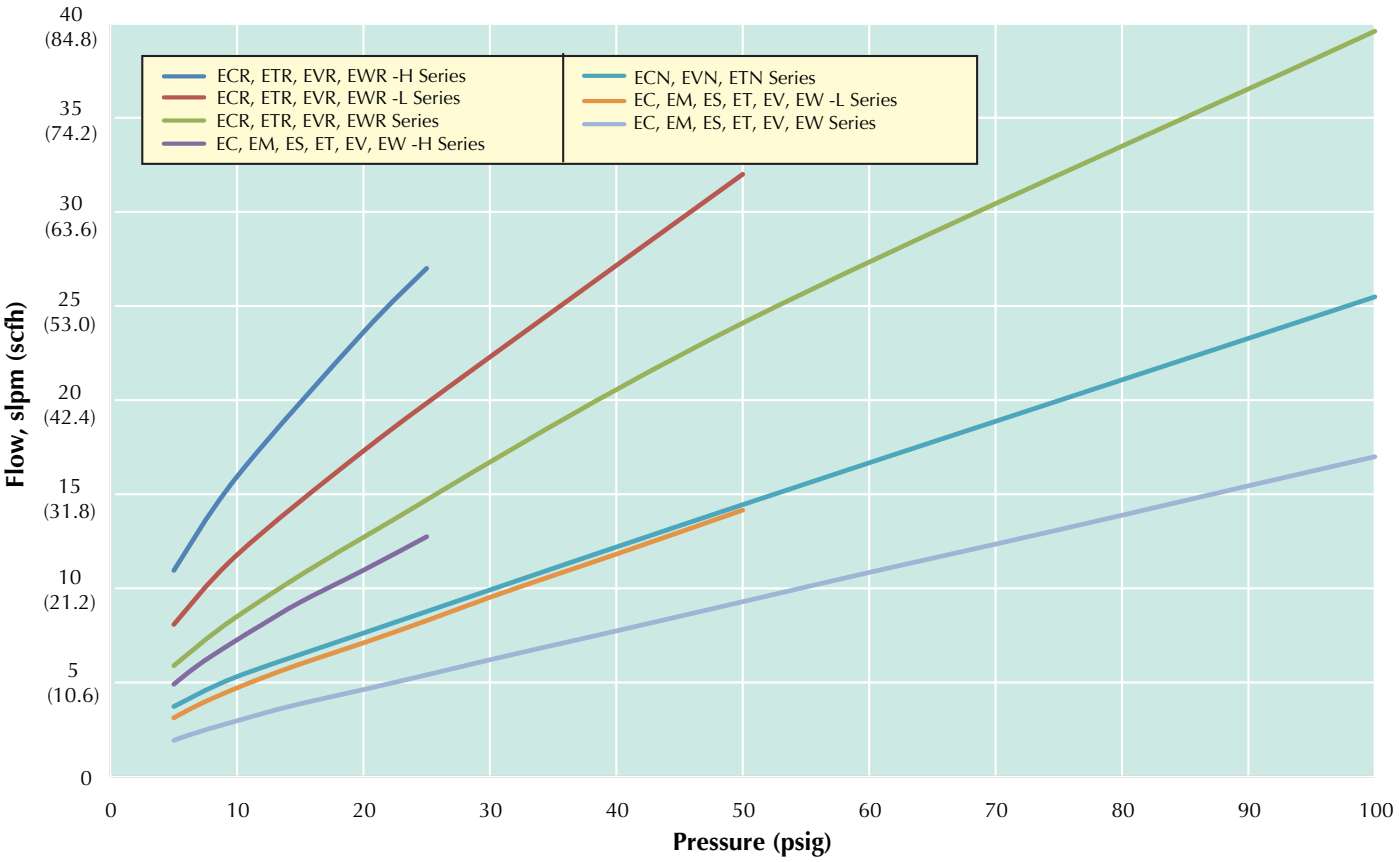
3-Way Normally-Closed Manifold Mount



3-Way Fully-Ported Manifold Mount



Typical Air Flow

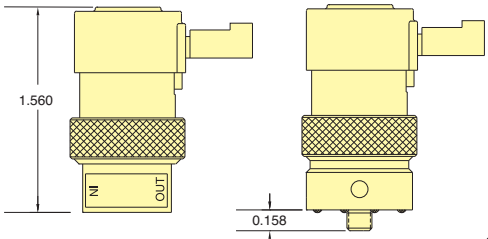


Electrical Specifications

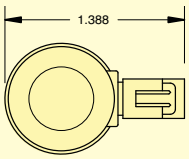
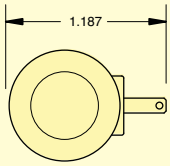
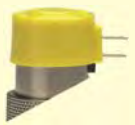
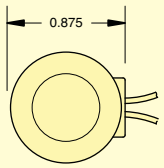
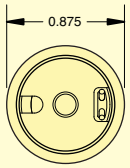
Nominal				Power (watts)	Working Range (cont. duty)
Series	Voltage	Current (amps)	Resistance (ohms)		
- Standard - Oxygen Clean - Analytical	12	0.055	218	0.67	90 to 150% of rated voltage
	24	0.028	864		
- Corrosion-Resistant	12	0.098	122	1.2	90 to 110% of rated voltage
	24	0.049	486		
- EM Series - ES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



In-Line Mount Manifold Mount

		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-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)

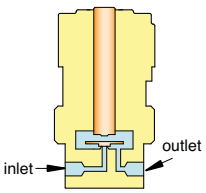
Temperature Range: 32 to 180°F; CR Series: 32 to 150°F

Response: 5 to 10 milliseconds (nominal)

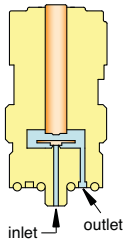
Operating Range: 90 to 150% of rated voltage (CR Series: ±10%)

Ports: #10-32

RoHS



In-Line Mount



Manifold Mount

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

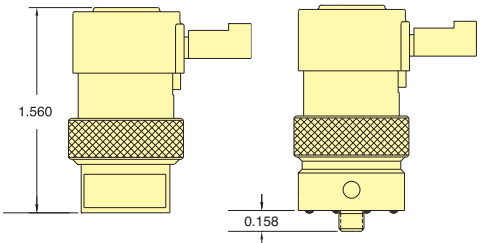
Pressure Range	Suffix	Air Flow
28″ Hg Vac. to 105 psig	(blank)	0.6 scfm @ 100 psig
28″ Hg Vac. to 50 psig	-L	0.5 scfm @ 50 psig
28″ Hg Vac. to 25 psig	-H	0.45 scfm @ 25 psig

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

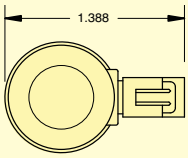
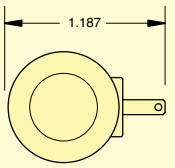
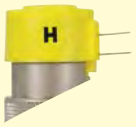
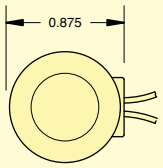
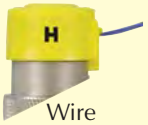
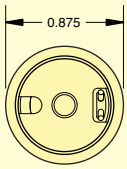
See Page 181 for mounting options

** Available on manifold mount valves only

2-Way Normally-Closed High Flow Valves, In-Line & Manifold Mount



In-Line Mount Manifold Mount

		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	•			•		*ECR-2-12	*ECR-2M-12
		•				•	*ECR-2-24	*ECR-2M-24
			•		•		*ECR-2-12-L	*ECR-2M-12-L
			•			•	*ECR-2-24-L	*ECR-2M-24-L
				•	•		*ECR-2-12-H	*ECR-2M-12-H
				•		•	*ECR-2-24-H	*ECR-2M-24-H
	 Spade Terminals	•			•		*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
	 Wire Leads Side (Radial)	•		•	•		*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
	 Wire Leads Top (Axial)	•			•		*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

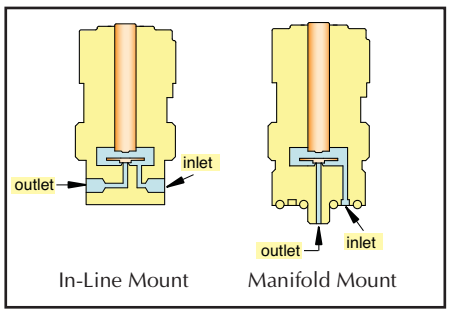
RoHS

Valve Series (*)	Standard	Non-Standard
Standard	(blank)	*See Pages 179 & 180 for further information*
Analytical Series**	A-	
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

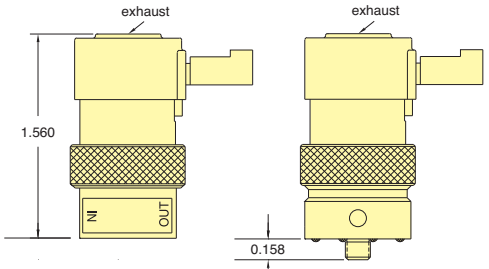
Pressure Range	Suffix	Air Flow
28″ Hg Vac. to 100 psig	(blank)	1.4 scfm @ 100 psig
28″ Hg Vac. to 50 psig	-L	1.1 scfm @ 50 psig
28″ Hg Vac. to 25 psig	-H	0.95 scfm @ 25 psig



In-Line Mount Manifold Mount

Metric line available. Visit www.clippard.com

3-Way Normally-Closed Valves, In-Line & Manifold



In-Line Mount Manifold Mount

Pressure Range: Vac. to 105 psig	Pressure Range: Vac. to 50 psig	Pressure Range: Vac. to 25 psig	Voltage: 12 VDC	Voltage: 24 VDC	Part No. In-Line Mount	Part No. 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)

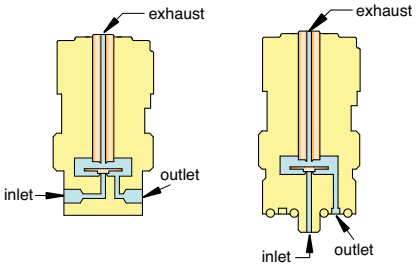
Temperature Range: 32 to 180°F, CR Series: 32 to 150°F

Response: 5 to 10 milliseconds (nominal)

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

Ports: #10-32

RoHS



In-Line Mount Manifold Mount

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

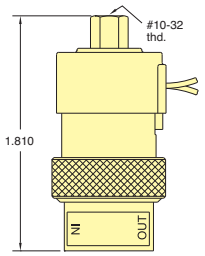
Pressure Range	Suffix	Air Flow
28″ Hg Vac. to 105 psig	(blank)	0.6 scfm @ 100 psig
28″ Hg Vac. to 50 psig	-L	0.5 scfm @ 50 psig
28″ Hg Vac. to 25 psig	-H	0.45 scfm @ 25 psig

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

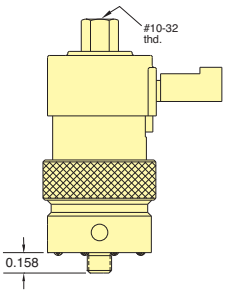
See Page 181 for mounting options

** Available on manifold mount valves only

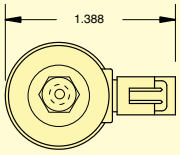
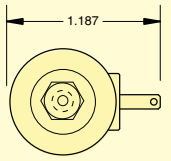
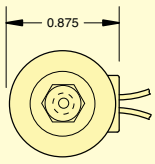
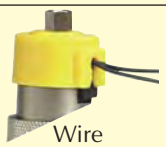
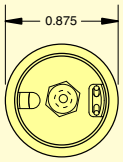
3-Way Fully-Ported Valves, In-Line & Manifold



In-Line Mount



Manifold Mount

		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	•			•		*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)

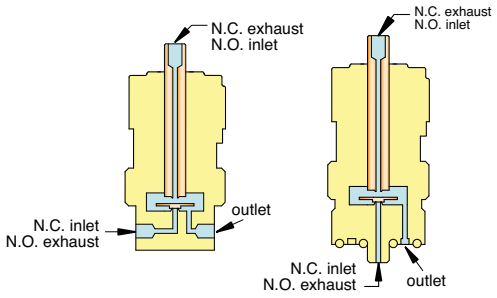
Temperature Range: 32 to 180°F, CR Series: 32 to 150°F

Response: 5 to 10 milliseconds (nominal)

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

Ports: #10-32

RoHS



In-Line Mount Manifold Mount

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 "EWO")*	CR-	
Options *(add to end of Part No.)*		
FKM Seals	-V	
EPR Seals		-E
Silicone Seals		-S
Diode		-D

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

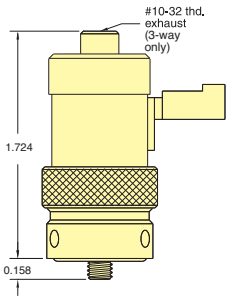
Example Part No's:
ETO-3M-24-D
CR-EVO-3-12

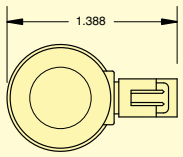
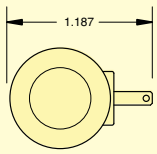
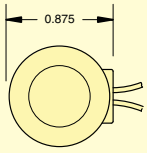
See Page 181 for mounting options

** Available on manifold mount valves only

Metric line available. Visit www.clippard.com

2-Way & 3-Way Normally-Open Valves, Manifold



		12 VDC	24 VDC	Part No. 2-Way	Part No. 3-Way
		Voltage			
	 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

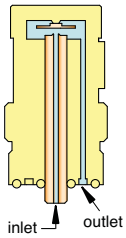
RoHS

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

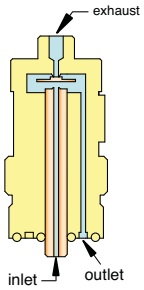
Example Part No's:
EVN-2M-12-V
ETN-3M-24

See Page 181 for mounting options

Pressure Range	Air Flow
28″ Hg Vac. to 105 psig	0.9 scfm @ 100 psig

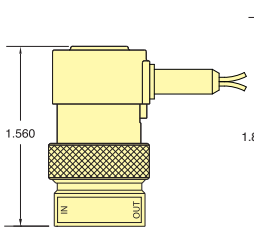


2-Way Valve

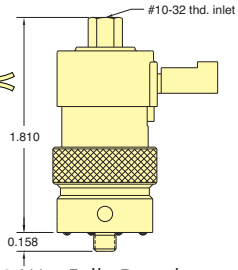


3-Way Valve

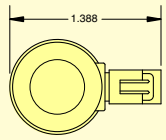
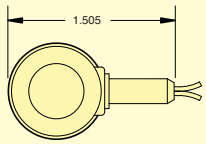
2-Way Intrinsically Safe Normally-Closed Valves, In-Line & Manifold Mount



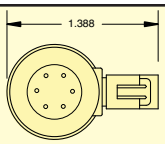
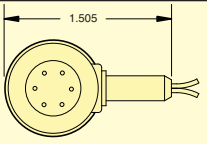
2-Way N.C.
In-Line Mount



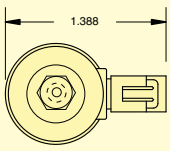
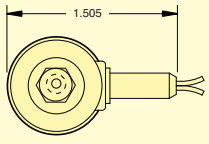
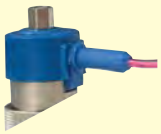
3-Way Fully-Ported
Manifold Mount

		Vac. to 105 psig	Vac. to 50 psig	Vac. to 25 psig	Part No. In-Line Mount	Part No. Manifold Mount
		Pressure Range				
	 0.025″ Pin Connector	•			EI-2-15.5	EI-2M-15.5
			•		EI-2-15.5-L	EI-2M-15.5-L
				•	EI-2-15.5-H	EI-2M-15.5-H
	 18 Gauge Leads	•			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

	 0.025″ Pin Connector	•			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
	 18 Gauge Leads	•			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

	 0.025″ Pin Connector	•			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
	 18 Gauge Leads	•			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

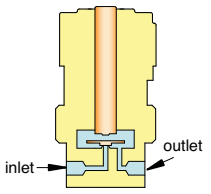
RoHS

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

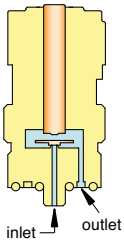
See Page 181 for mounting options

Other seal materials optional

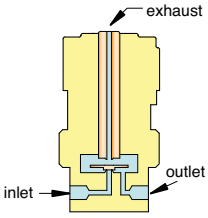
See www.clippard.com for more information



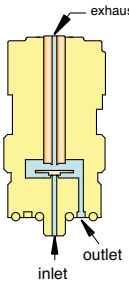
2-Way N.C. In-Line Mount



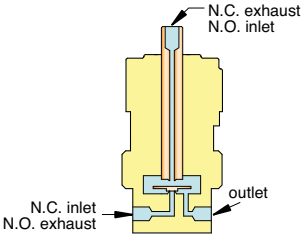
2-Way N.C. Manifold Mount



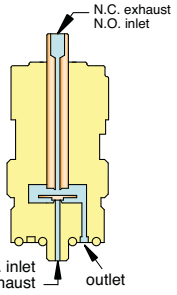
3-Way N.C. In-Line Mount



3-Way N.C. Manifold Mount



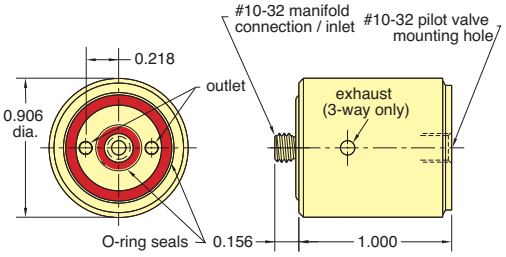
3-Way In-Line Mount



3-Way Manifold Mount

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

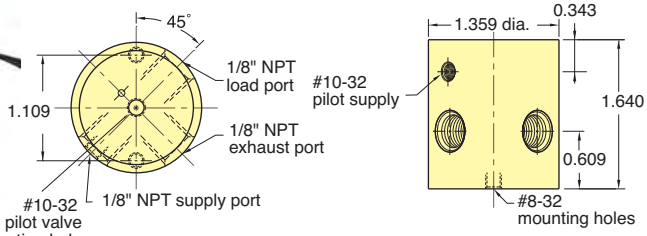
Material: Nickel-plated brass, acetal, stainless steel and Nitrile

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



Electrical Data

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

Medium: Air

Filtration: 10 micron

Ports: 1/8" NPT female

Switching Speed: 10 milliseconds

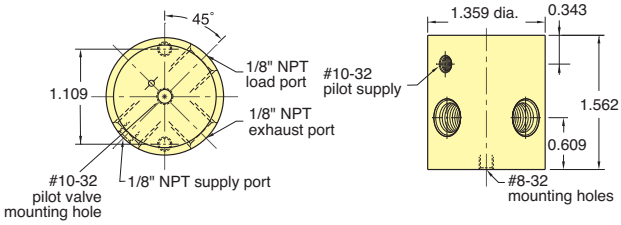
Bleed Flow: 0.10 scfm @ 100 psig

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

Input Pressure	Air Flow
30 to 100 psig *call for special configurations*	22 scfm @ 100 psig

3-Way Normally-Closed, Pressure Piloted Valves



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.

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

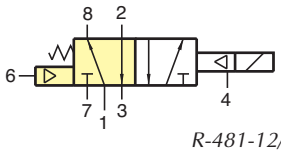
Materials: Anodized Aluminum, Stainless Steel and Nitrile

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

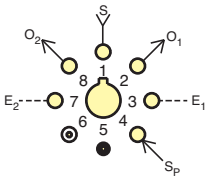
Part No.	
2020	External Piloted Valve with #10-32 Port
2021	Internal Piloted Valve

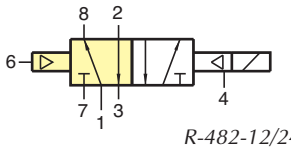
Input Pressure	Air Flow
30 to 100 psig *call for special configurations*	22 scfm @ 100 psig

4-Way Piloted Valves

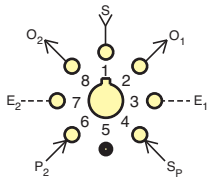


R-481-12/24





R-482-12/24



Type: 4-way combination electronic and modular spool type interface valve. Fully-ported ET-3 & R-401 (R-481)/R-402 (R-482) hybrid

Medium: Air, water, or oil; pilot - air only

Mounting: Uses Octoport base and two captivated screws

Ports: Valve has patented Octoport system

Note: Supply pressure must be applied to both ports 1 and 4. Minimum pressure on port 4 should be 40 psig.

Part No.	
R-481-12	ET-3/R-401, 12 VDC
R-481-24	ET-3/R-401, 24 VDC
R-482-12	ET-3/R-402, 12 VDC
R-482-24	ET-3/R-402, 24 VDC

Input Pressure	Air Flow
Pilot: 40 psig min. Working: 0 to 150 psig	9 scfm @ 100 psig

For more information please see Page 270 in the Modular Valve section of this catalog.

ET Valve Connectors

Black molded lug connectors are available for easy push-on connection ET-C48 is 48″ in length, ET-C120 is 120″ in length.

Part No.	
ET-C48	48″ Connector
ET-C120	120″ Connector

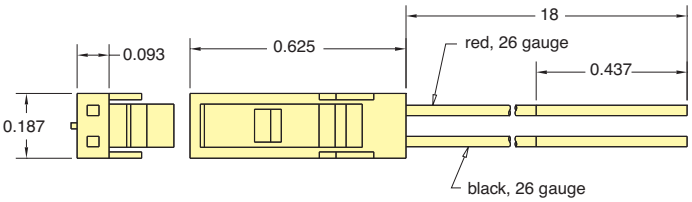
Insulated crimp-on spade lug connectors are available for wiring up leads to connect an electronic circuit to ET style valves. Accepts #22, #24, or #26 wire.

Part No.	
3831	Spade Lug Connector

EC & EI Valve Connectors

TE Connectivity #5-103956-1 with 18″ or 120″ wire leads for EC/ECO and EI/EIO valves.

Part No.	
C2-RB18	18″ Connector
C2-RB120	120″ Connector



Custom Ports & Connectors

CUSTOMer solutions

If you need a product that fits your application perfectly, Clippard has the capability to design or modify one of its products to suit your exact needs.

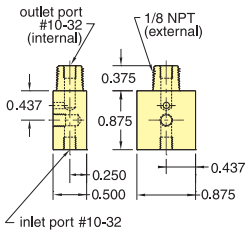
This application requires a special connection to a MAPP gas canister. The valve is tested for response time and flow rate, which delivers a consistent amount of gas each cycle.

Metric line available. Visit www.clippard.com

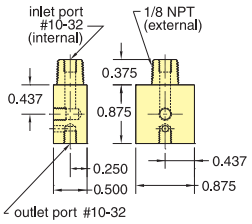
Specialized Manifolds

Material: ENP brass **Option:** Oxygen Clean version (add O-)

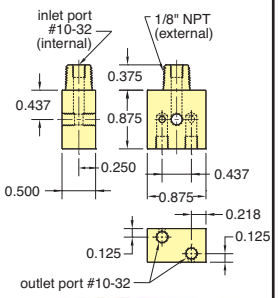
15490-1
#10-32 Inlet
1/8″ NPT Outlet



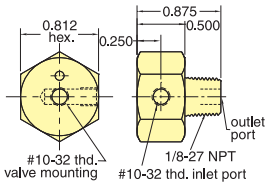
15490-2
1/8″ NPT Inlet
#10-32 Outlet



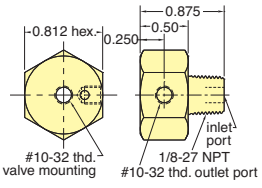
15490-3 Dual Outlet
1/8″ NPT Inlet
#10-32 Outlet



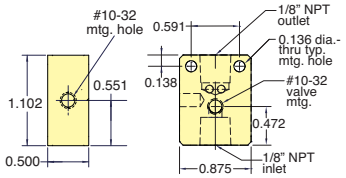
15491-1
#10-32 Inlet
1/8″ NPT Outlet



15491-2
1/8″ NPT (R1/8) Inlet
#10-32 Outlet



Use: Mount EV, ET, EC, and EW valves to any 1/8″ NPT supply port



15490-5
1/8″ NPT Inlet
1/8″ NPT Outlet

Oxygen Clean Manifolds

Multi-station manifolds are available for use with Clippard's Oxygen Clean series electronic valves. These manifolds offer either single-sided or double-side mounting in Oxygen-compatible ENP brass material.

The Oxygen series products are manufactured and assembled for applications in Oxygen-enriched environments which are extremely sensitive to contamination. Each manifold is cleaned according to Clippard Specification #ES-3.41, and double bagged in heat-sealed polyethylene bags.

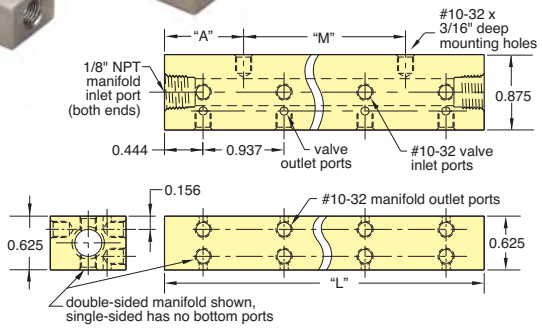
Input Ports: In-line 1/8″ NPT

Outlet Ports: #10-32

Mounting: #10-32 tapped holes

Materials: ENP Brass

Single-Sided		Double-Sided		Length	Mtg.	
Part No.	Stations	Part No.	Stations	"A"	"L"	"M"
O-15581-2*	2			0.444	1.826	0.937
O-15581-4*	4	O-15582-8*	8	0.913	3.702	1.875
O-15581-6*	6	O-15582-12*	12	0.913	5.577	3.750



Multi-Valve Manifolds

Construction: Black anodized aluminum

Single-Sided		*Double-Sided*			Length	Mtg.
Part No.	Stations	Part No.	Stations	"A"	"L"	"M"
15481-2	2			0.444	1.826	0.937
15481-4	4	15482-8	8	0.913	3.702	1.875
15481-6	6	15482-12	12	0.913	5.577	3.750