



# HIGH FLOW 2-WAY 10 MM MINIATURE VALVES

## Specifications

**Medium:** Air, Gas or other Compatible Fluids

**Working Pressure:** 0 to 30 psig

**Max. Flow Rate:** 28 lpm

**Orifice:** 0.055"

**Response Time:** 8 ms when energized; 10 ms when de-energized

**Electrical:** 12 VDC or 24 VDC

**Power Consumption:** 3.5 watts in rush phase; 15 ms/0.35 watts in maintenance phase

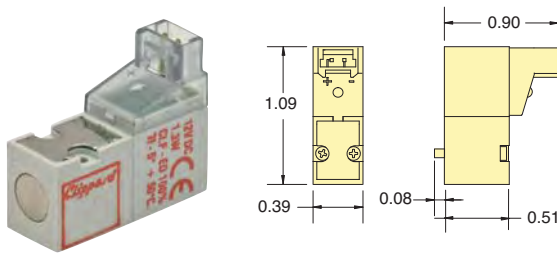
**Voltage Tolerance:** -5% to +10%

**Material:** Stainless steel core and springs, nylon body, FKM dynamic seals, and Nitrile gasket and static seals.

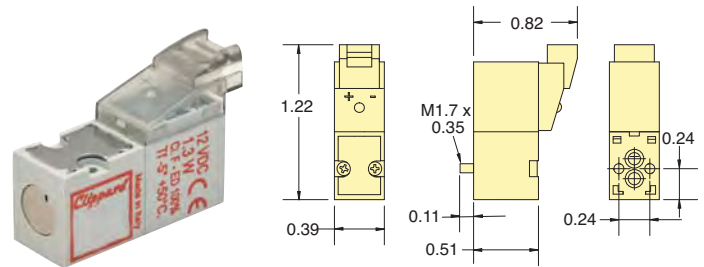
**Temperature Range:** 23 to 122°F. When below 32°F, must use clean, dry air



### 90° Connector with LED

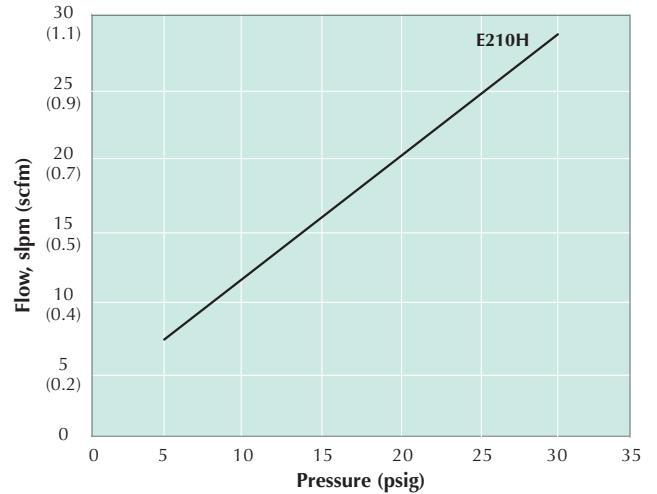


### In-Line Connector with LED

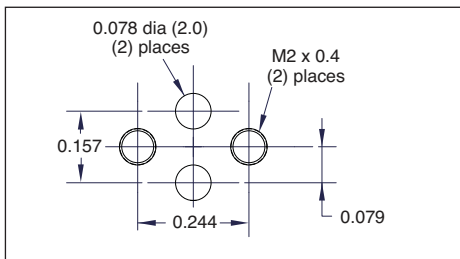


Part No.	Connector	Voltage
<a href="#">E210H-3L012</a>	90° Connector	12 VDC
<a href="#">E210H-3L024</a>	with LED	24 VDC
<a href="#">E210H-3C012</a>	In-Line Connector	12 VDC
<a href="#">E210H-3C024</a>	with LED	24 VDC

### Typical Air Flow

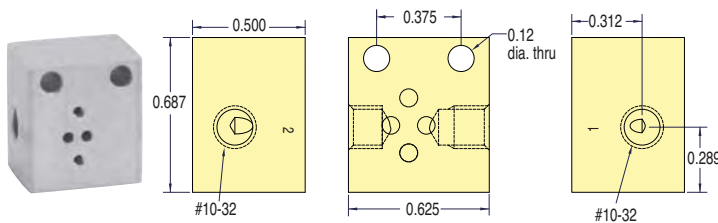


### Mounting Interface



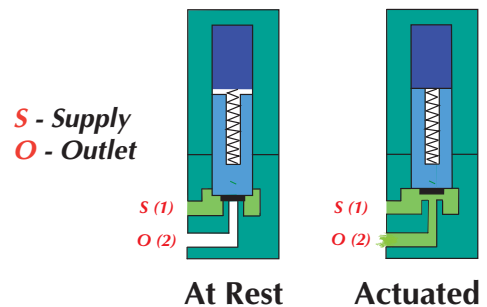
### 10 mm High Flow Single-Station Manifold

Spare hardware and closing plates available.



Part No.	Description
<a href="#">E10HM-01</a>	10 mm Single-Station Manifold

### Functional Schematics



## Specifications

**Medium:** Air, Gas, or other Compatible Fluids

**Working Pressure:** 0 to 102 psig

**Maximum Flow Rate:** 42 l/min

**Exhaust Flow:** 49 l/min

**Orifice:** 0.043"

**Response Time:** 8 ms when energized; 10 ms when de-energized

**Material:** Stainless steel core and springs, nylon body, FKM seals, and Nitrile gasket.

**Voltage:** 12-volt DC or 24-volt DC

**Voltage Tolerance:** -5% to +10%

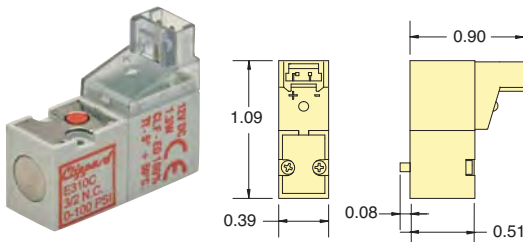
**Power Consumption:** 3.5 watts in rush phase; 15 ms/0.35 watts in maintenance phase

**Coil Insulation Class:** F 311°F

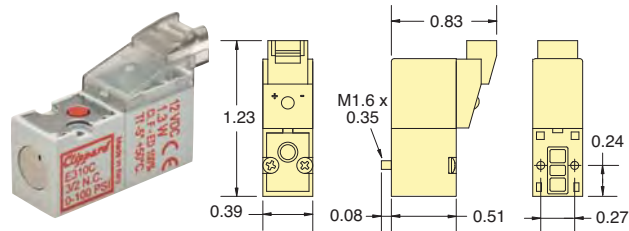
**Temperature Range:** 23 to 122°F



### 90° Connector with LED

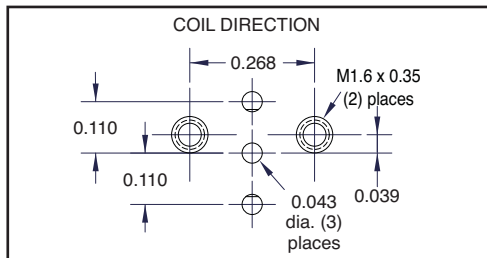


### In-Line Connector with LED

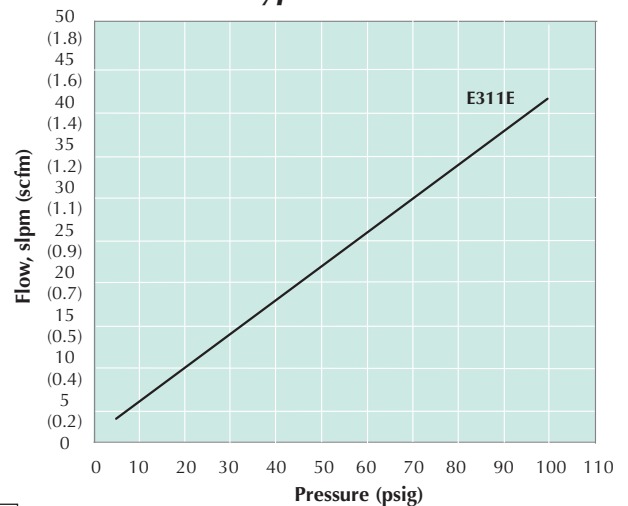


Part No.	Connector	Voltage
<a href="#">E311E-3L012</a>	90° Connector	12 VDC
<a href="#">E311E-3L024</a>	with LED	24 VDC
<a href="#">E311E-3C012</a>	In-Line Connector	12 VDC
<a href="#">E311E-3C024</a>	with LED	24 VDC

### Mounting Interface

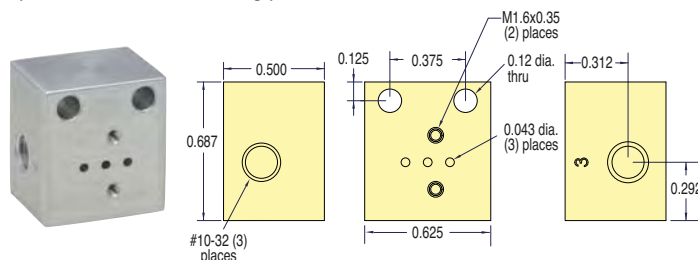


### Typical Air Flow



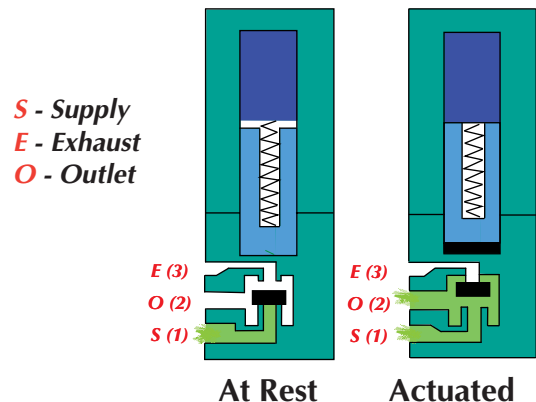
## ISO 15218 10 mm High Flow Single-Station Manifold

Spare hardware and closing plates available.



Part No.	Description
<a href="#">E10LM-01</a>	ISO 10 mm Single-Station Manifold

### Functional Schematics

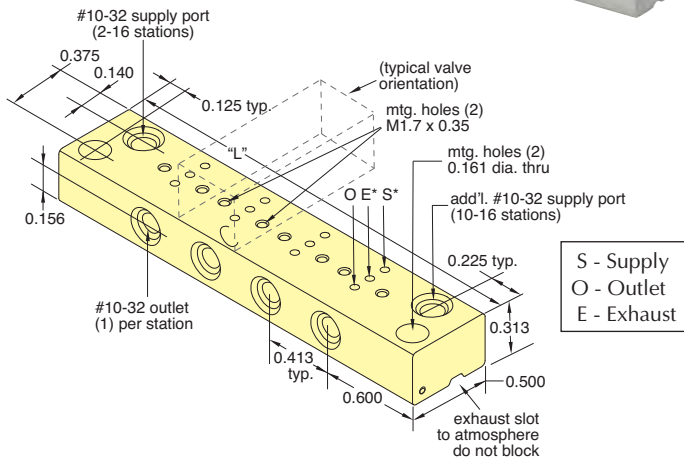




# 10 MM MINIATURE VALVE ACCESSORIES

## Sub-Miniature Manifolds

Small, compact manifolds offer the efficient grouping of 10 mm valves along with fast installation. Easy manifold features a common inlet, individually-ported outlets, and exhaust to atmosphere.



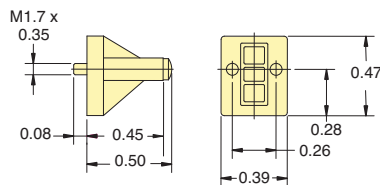
\* For Normally-Open valves, supply to "E" and "S" becomes exhaust.

Stations	Supply Ports	Part No.	Length "L"
2	1	<a href="#">E10SM-02</a>	1.61
4	1	<a href="#">E10SM-04</a>	2.44
6	1	<a href="#">E10SM-06</a>	3.27
8	1	<a href="#">E10SM-08</a>	4.09
10	2	<a href="#">E10SM-10</a>	4.92
12	2	<a href="#">E10SM-12</a>	5.74
14	2	<a href="#">E10SM-14</a>	6.57
16	2	<a href="#">E10SM-16</a>	7.40

## Cover Plate

Manifold Cover Plate includes plate, gasket and two screws.

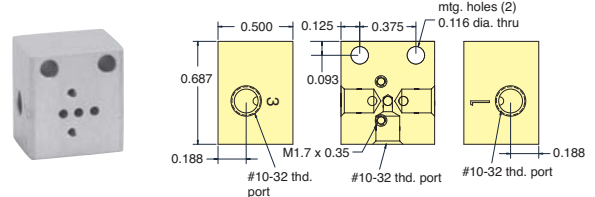
**Part No.**  
[E10M-CP](#) 10 mm Cover Plate



## Standard Manifolds

Standard manifolds are available for one to 12 valves with ported exhaust. Spare hardware and closing plates available.

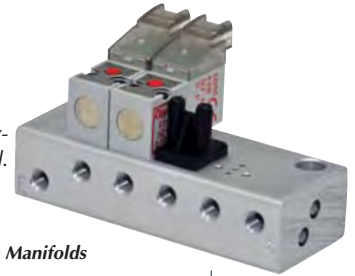
**Part No.**  
[E10M-01](#) Single-Station Manifold



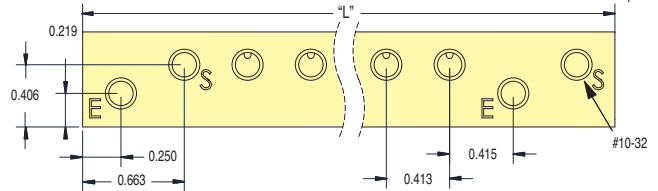
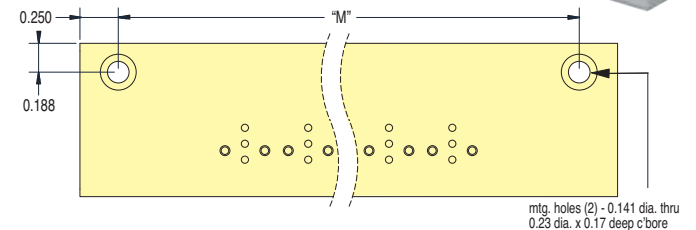
## Multi-Station Manifolds

When using these manifolds with Normally-Closed valve configurations:

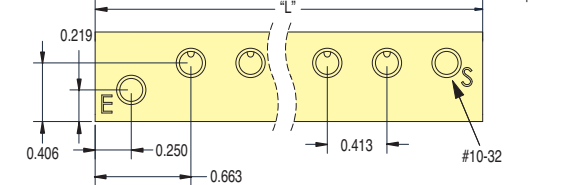
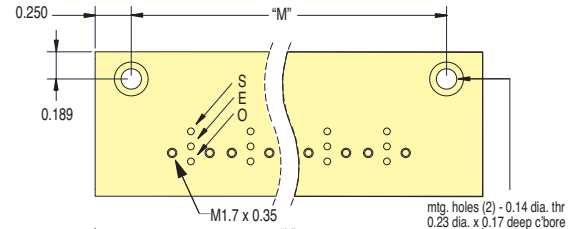
1. They cannot be used with Normally-Closed valves on the same manifold.
2. "E" becomes Supply, and "S" becomes Exhaust.



### 10- to 16-Station Manifolds



### 2- to 8-Station Manifolds



Part No.	Stations	Length "L"	Length "M"
<a href="#">E10M-02</a>	2	1.74	1.24
<a href="#">E10M-04</a>	4	2.57	2.07
<a href="#">E10M-06</a>	6	3.39	2.89
<a href="#">E10M-08</a>	8	4.22	3.72
<a href="#">E10M-10</a>	10	5.87	5.37
<a href="#">E10M-12</a>	12	6.70	6.20
<a href="#">E10M-14</a>	14	7.52	7.02
<a href="#">E10M-16</a>	16	8.35	7.85

# 15 MM MINIATURE VALVES



- Multiple Connectors
- Snap-in Plugs
  - Wire Leads
  - DIN Connector
  - Spade Terminals
  - Custom Plugs

LED for confirmation of operation available

Internal diodes for current spike suppression and a power saving circuit is available



Mounting Screws

HIGHLY VISIBLE manual override provides valve actuation without power

High durability and corrosion-resistant glass filled nylon housing

FKM seals and Nitrile gasket

2- or 3-ported valves in Normally-Closed and Normally-Open

One-piece gasket for manifold mount and supply/exhaust port reversed for same manifold mounting of N.O. or N.C. valve



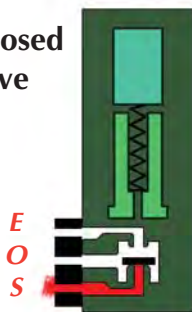
Encapsulated low wattage coils. Available in: 12 VDC, 24 VDC, 24 VAC, 110 VAC or 220 VAC. Special voltages available for OEMs.

Configuration	1	2	3
N.C. & N.O.	exhaust	outlet	supply

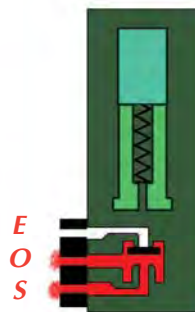
## Functional Schematics

### Normally-Closed 3-Way Valve

S - Supply  
E - Exhaust  
O - Outlet

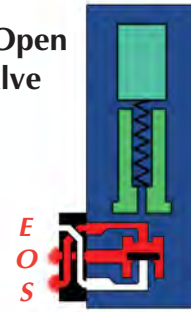


At Rest

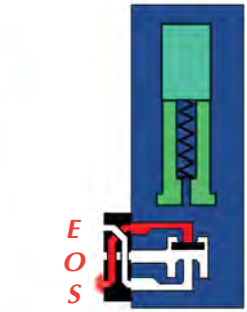


Actuated

### Normally-Open 3-Way Valve



At Rest

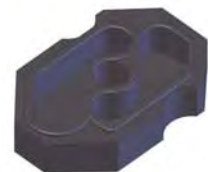


Actuated



### Porting Gasket

The Normally-Open and Normally-Closed configurations allow both models to be mounted on the same manifold.





# 15 MM MINIATURE VALVES

## Specifications

**Medium:** Air, Gas, or other Compatible Fluids

**Working Pressure:** See Chart below.

**Maximum Flow Rate:**  
 0.032" Orifice: 45 l/min  
 0.043" Orifice: 70 l/min  
 0.063" Orifice: 91 l/min

**Response Time:** 10 ms when energized; 12 ms when de-energized



**Material:** Stainless steel core and springs, springs, nylon body, FKM seals, and Nitrile gasket.

**Voltage:** 12-volt DC, 24-volt DC or 24-volt AC. 110-volt AC and 220-volt AC only available with DIN Connectors.

**Voltage Tolerance:** -5% to +10%

**Power Consumption:** 1.0 or 2.5 watts dependent on orifice size and pressure

**Coil Insulation Class:** F 311°F

**Temperature Range:** 23 to 122°F



## Order Information

Type	Base No.	Connector	12	24	24	110	220	Orifice	Wattage	Working Pressure
			VDC	VDC	VAC	VAC	VAC			
<b>2/2 Normally-Closed</b> 	E215D-1T*	Terminal	•	•				0.032"	1.0	0 to 150 psig
	E215E-2T*		•	•	•			0.043"	2.5	0 to 150 psig
	E215F-2T*		•	•	•			0.063"	2.5	0 to 110 psig
	E215D-1D*	DIN Connector	•	•				0.032"	1.0	0 to 150 psig
	E215E-2D*		•	•	•	•	•	0.043"	2.5	0 to 150 psig
	E215F-2D*		•	•	•	•	•	0.063"	2.5	0 to 110 psig
	E215D-1W*	Wire Leads, 11.8"	•	•				0.032"	1.0	0 to 150 psig
	E215E-2W*		•	•	•			0.043"	2.5	0 to 150 psig
	E215F-2W*		•	•	•			0.063"	2.5	0 to 110 psig
	E215D-1L*	90° Connector with LED	•	•				0.032"	1.0	0 to 150 psig
	E215E-2L*		•	•				0.043"	2.5	0 to 150 psig
	E215F-2L*		•	•				0.063"	2.5	0 to 110 psig
E215D-1C*	In-Line Connector with LED	•	•				0.032"	1.0	0 to 150 psig	
E215E-2C*		•	•				0.043"	2.5	0 to 150 psig	
E215F-2C*		•	•				0.063"	2.5	0 to 110 psig	
<b>3/2 Normally-Closed</b> 	E315D-1T*	Terminal	•	•				0.032"	1.0	0 to 150 psig
	E315E-2T*		•	•	•			0.043"	2.5	0 to 150 psig
	E315F-2T*		•	•	•			0.063"	2.5	0 to 110 psig
	E315D-1D*	DIN Connector	•	•				0.032"	1.0	0 to 150 psig
	E315E-2D*		•	•	•	•	•	0.043"	2.5	0 to 150 psig
	E315F-2D*		•	•	•	•	•	0.063"	2.5	0 to 110 psig
	E315D-1W*	Wire Leads, 11.8"	•	•				0.032"	1.0	0 to 150 psig
	E315E-2W*		•	•	•			0.043"	2.5	0 to 150 psig
	E315F-2W*		•	•	•			0.063"	2.5	0 to 110 psig
	E315D-1L*	90° Connector with LED	•	•				0.032"	1.0	0 to 150 psig
	E315E-2L*		•	•				0.043"	2.5	0 to 150 psig
	E315F-2L*		•	•				0.063"	2.5	0 to 110 psig
E315D-1C*	In-Line Connector with LED	•	•				0.032"	1.0	0 to 150 psig	
E315E-2C*		•	•				0.063"	2.5	0 to 150 psig	
E315F-2C*		•	•				0.063"	2.5	0 to 110 psig	
<b>3/2 Normally-Open (110 psig max.)</b> 	E3O15E-2T*	Terminal	•	•	•			0.043"	2.5	0 to 110 psig
	E3O15F-2T*		•	•	•			0.063"	2.5	0 to 75 psig
	E3O15E-2D*	DIN Connector	•	•	•	•	•	0.043"	2.5	0 to 110 psig
	E3O15F-2D*		•	•	•	•	•	0.063"	2.5	0 to 75 psig
	E3O15E-2W*	Wire Leads, 11.8"	•	•	•			0.043"	2.5	0 to 110 psig
	E3O15F-2W*		•	•	•			0.063"	2.5	0 to 75 psig
	E3O15E-2L*	90° Connector with LED	•	•				0.043"	2.5	0 to 110 psig
	E3O15F-2L*		•	•				0.063"	2.5	0 to 75 psig
E3O15E-2C*	In-Line Connector with LED	•	•				0.063"	2.5	0 to 110 psig	
E3O15F-2C*		•	•				0.063"	2.5	0 to 75 psig	

• Indicates standard items

\* Add Voltage Choice to the end of each Base Part Number. "012" (12 VDC), "024" (24 VDC) "24A" (24 VAC), "110" (110 VAC) or "220" (220 VAC). Example: **E315D-1C012**

# 15 MM MINIATURE VALVES



## Terminal Connector



Industrial Form C Connector ordered separately below.

## DIN Connector

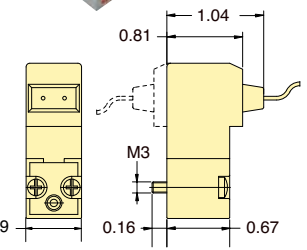
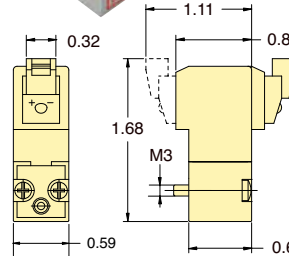
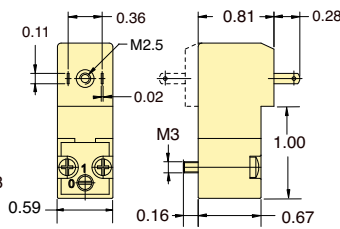
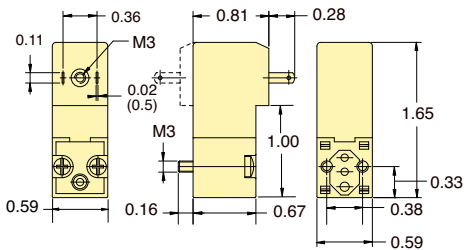


DIN Connector ordered separately below.

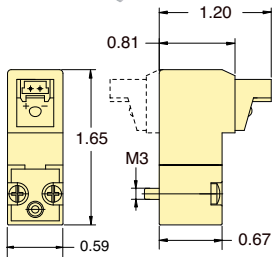
## In-Line Connector with LED



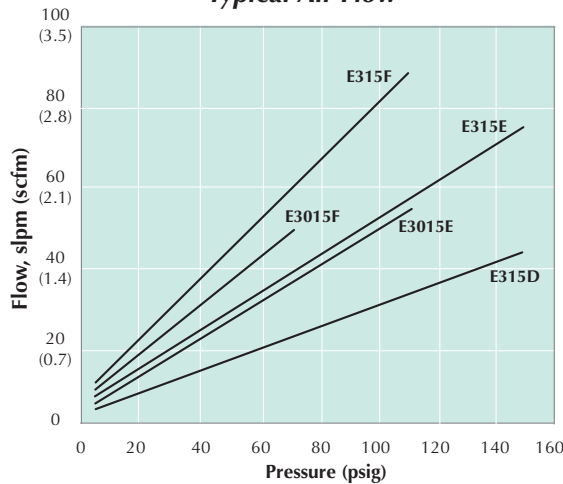
## Wire Leads



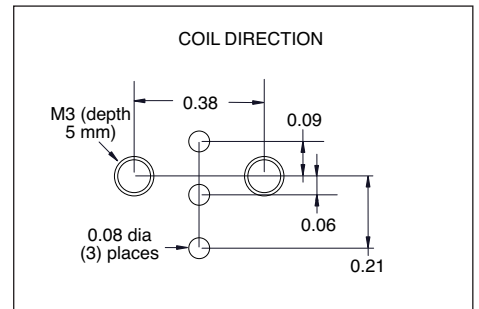
## 90° Connector with LED



## Typical Air Flow



## Mounting Interface



## DIN Connectors

### For Use with 15 mm Valves Only

DIN 43650 Form C Connectors with 8 mm spade center spacing mate with the 15 mm DIN connector coil. Industrial Form Connectors with 9.4 mm spade center spacing are designed to connect to 15 mm terminal coils. Both are available with or without surge suppression, and 152 or 381 mm PVC molded three-wire cord set.



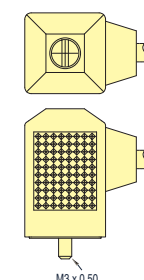
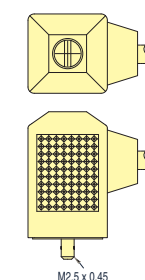
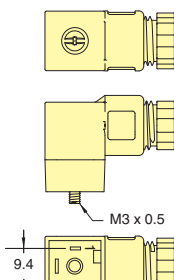
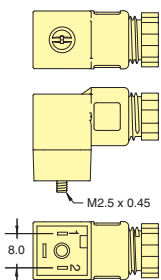
### Form C

### Industrial Form

### Molded 3-Wire Cord Set

### Form C

### Industrial Form



Used with "DIN Connector"

Used with "Terminal Connector"

Used with "DIN Connector"

Used with "Terminal Connector"

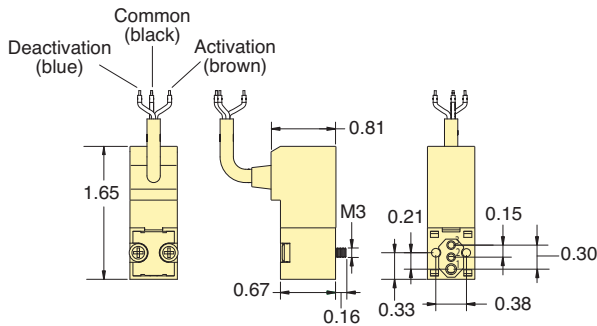
Form C Part No.	Industrial Form Part No.	Volts	LED	Cord
CC-C	CC-I	6-240	no	-
CC-C-P6	CC-I-P6	6-240	no	6'
CC-C-P15	CC-I-P15	6-240	no	15'
CC-CLL	CC-ILL	6-24	yes	-
CC-CLL-P6	CC-ILL-P6	6-24	yes	6'
CC-CLL-P15	CC-ILL-P15	6-24	yes	15'
CC-CLM	CC-ILM	48-110	yes	-
CC-CLM-P6	CC-ILM-P6	48-110	yes	6'
CC-CLM-P15	CC-ILM-P15	48-110	yes	15'



# LATCHING 15 MM MINIATURE VALVES



- 2-Way & 3-Way Normally-Closed configurations
- Pulse-actuated (on or off)
- 3-wire coil. No polarity reverse required
- Stable latch



Clippard's 15 mm Latching Valves have many of the same features as the popular 15 mm standard valve line including small, compact design, exceptional life and reliability, light-weight design and more. A careful balance of forces—through the precise placement of a permanent magnet in the valve core—produces a bi-stable valve. A short pulse of current opens the valve, which “latches” open indefinitely after the current stops. A subsequent pulse of current in the opposite direction closes the valve. The valve consumes less energy and produces less heat than a standard solenoid valve when used in extended duty cycle applications, since the coil is energized for only a small fraction of the total duty cycle.

**Medium:** Air, Gas or other Compatible Fluids

**Max. Flow Rate:** 0.043" Orifice: 59 l/min  
0.063" Orifice: 84 l/min

**Electrical Connection:** 3-Wire Molded Cord, 300 mm, 24 AWG 4.5 mm external jacket; tinned copper wires; silicone jacket and conductor insulation)

**Electrical:** 12 VDC ("-012") or 24 VDC ("-024"). 6 VDC also available. Call for further information.

**Electrical Tolerance:** -5 to +10%



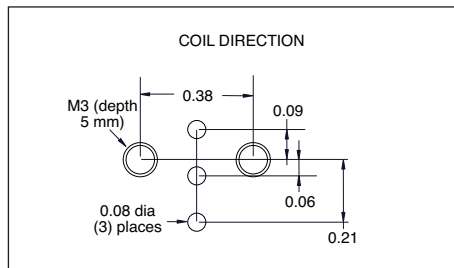
**Response Time:** 10 ms when energized; 12 ms when de-energized

**Copper Wire Isolation Class:** F 311°F

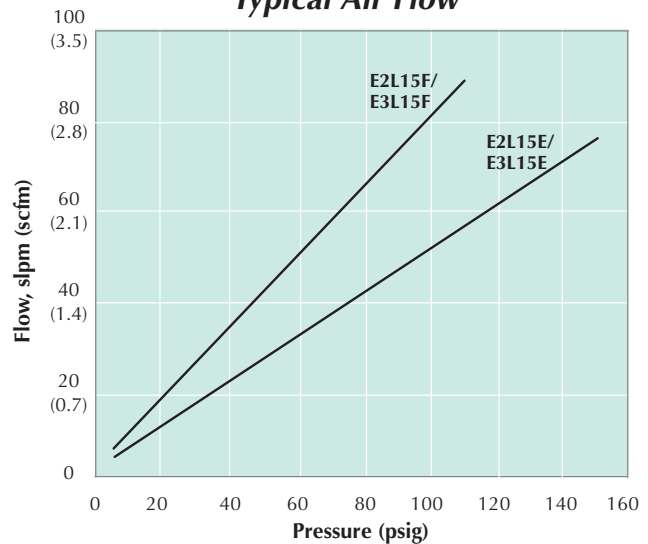
**Material:** Stainless steel core and springs, nylon body, FKM dynamic seals, and Nitrile gasket and static seals.

**Temperature Range:** 23 to 122°F. When below 32°F, must use clean, dry air

## Mounting Interface



## Typical Air Flow



Type	Part No.	Connector	Orifice	Voltage	Wattage	Pressure Range
2-Way	<a href="#">E2L15E-4W012</a>	3-Wire Molded Cord, 300 mm	0.043"	12 VDC	4.0	0 to 150 psig
	<a href="#">E2L15E-4W024</a>		0.043"	24 VDC		0 to 150 psig
	<a href="#">E2L15F-4W012</a>		0.063"	12 VDC		0 to 110 psig
	<a href="#">E2L15F-4W024</a>		0.063"	24 VDC		0 to 110 psig
3-Way	<a href="#">E3L15E-4W012</a>	3-Wire Molded Cord, 300 mm	0.043"	12 VDC	4.0	0 to 150 psig
	<a href="#">E3L15E-4W024</a>		0.043"	24 VDC		0 to 150 psig
	<a href="#">E3L15F-4W012</a>		0.063"	12 VDC		0 to 110 psig
	<a href="#">E3L15F-4W024</a>		0.063"	24 VDC		0 to 110 psig

See [page 214](#) for connectors and manifolds

# HIGH FLOW 2-WAY N.C. 15 MM VALVES



## Specifications

**Medium:** Air, Gas, or other Compatible Fluids

**Working Pressure:** 0 to 43 psig

**Maximum Flow Rate:** 120 l/min

**Orifice:** 0.118"

**Material:** Stainless steel core and springs, nylon body, FKM seals, and Nitrile gasket.

**Response Time:** 10 ms when energized; 12 ms when de-energized

**Voltage:** 12-volt DC or 24-volt DC

**Voltage Tolerance:** -5% to +10%

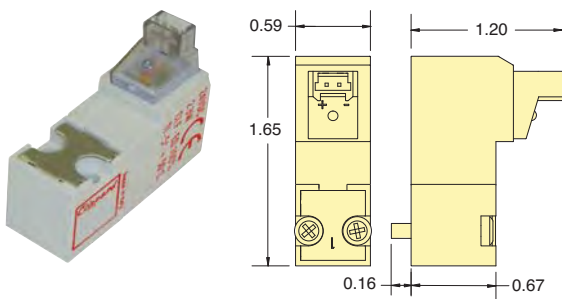
**Power Consumption:** 4.0 watts

**Coil Insulation Class:** F 311°F

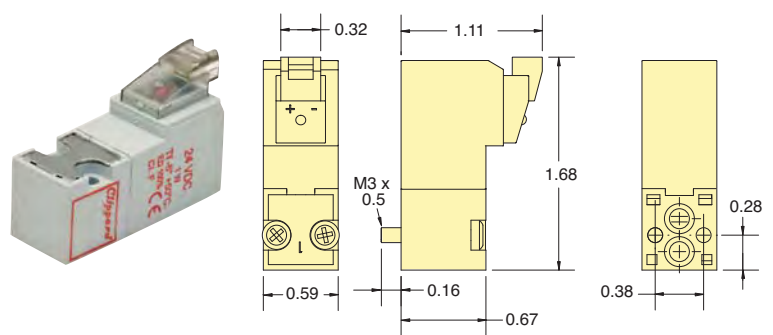
**Temperature Range:** 23 to 122°F



### 90° Connector with LED

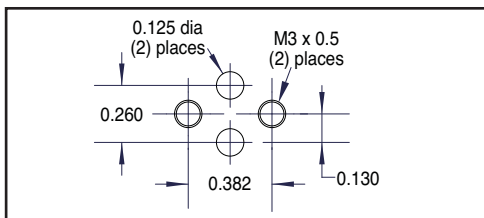


### In-Line Connector with LED

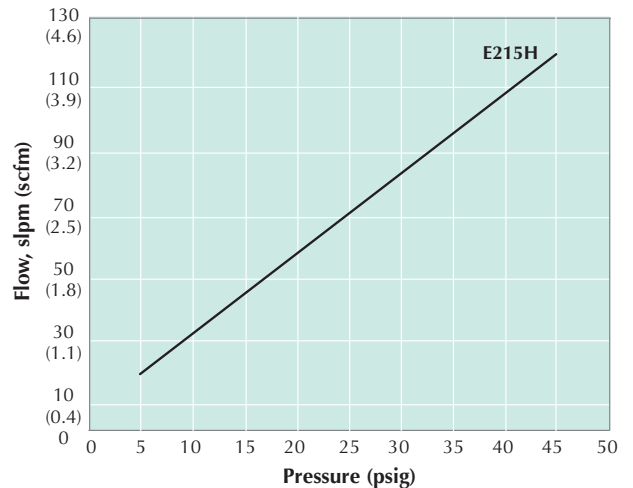


Part No.	Connector	Voltage
<a href="#">E215H-3L012</a>	90° Connector	12 VDC
<a href="#">E215H-3L024</a>	90° Connector with LED	24 VDC
<a href="#">E215H-3C012</a>	In-Line Connector	12 VDC
<a href="#">E215H-3C024</a>	In-Line Connector with LED	24 VDC

### Mounting Interface

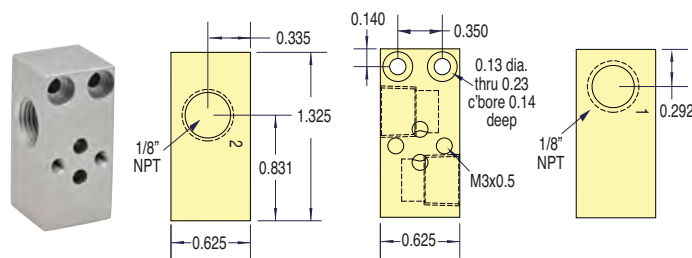


### Typical Air Flow



### 15 mm High Flow Single-Station Manifold

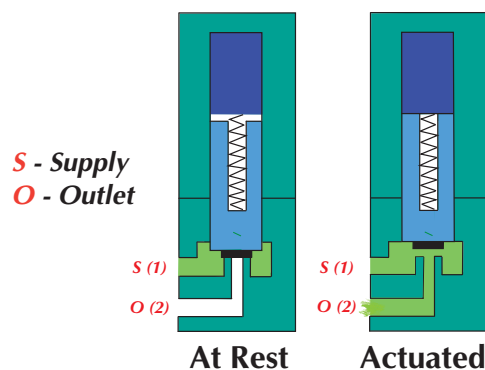
Spare hardware and closing plates available.



**Part No.**  
[E15HM-01](#) 15 mm Single-Station Manifold

Metric line available. Visit [www.clippard.com](http://www.clippard.com)

### Functional Schematics



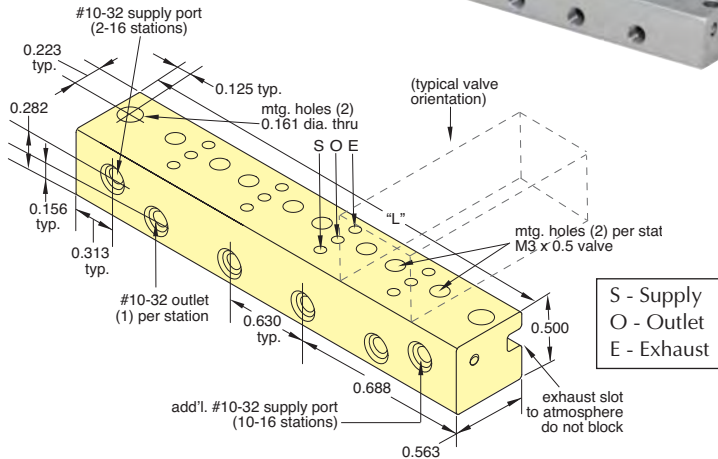
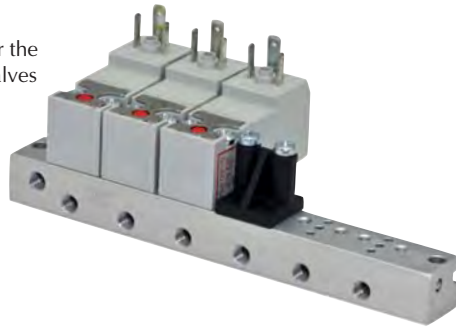




# 15 MM VALVE ACCESSORIES

## Sub-Miniature Manifolds

Small, compact manifolds offer the efficient grouping of 15 mm valves along with fast installation. Each manifold features a common inlet, individually-ported outlets, and exhaust to atmosphere.



Stations	Supply Ports	Part No.	Length "L"
2	1	<a href="#">E15SM-2</a>	2.01
4	1	<a href="#">E15SM-4</a>	3.27
6	1	<a href="#">E15SM-6</a>	4.53
8	1	<a href="#">E15SM-8</a>	5.79
10	2	<a href="#">E15SM-10</a>	7.05
12	2	<a href="#">E15SM-12</a>	8.31
14	2	<a href="#">E15SM-14</a>	9.57
16	2	<a href="#">E15SM-16</a>	10.82



## Connectors

Wire Connector must be ordered separately. 24 AWG. Stranding 7/32.

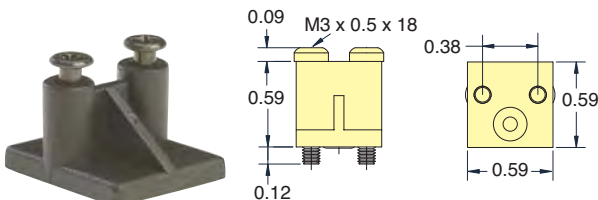
### Part No.

- [C2A-RB300](#) Connector with Cable, 11.8"
- [C2A-RB500](#) Connector with Cable, 19.69"
- [C2A-RB1000](#) Connector with Cable, 39.37"

Molex terminal insert #050013-8000, #28139 plug and 24 AWG wire.

## Cover Plate

Manifold Cover Plate includes plate, gasket and two screws.

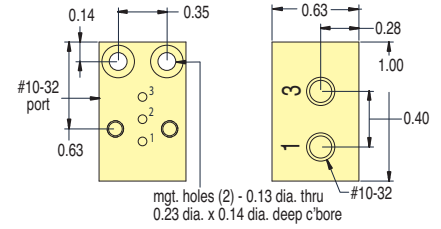


### Part No.

[E15M-CP](#) 15 mm Cover Plate

## Standard Manifolds

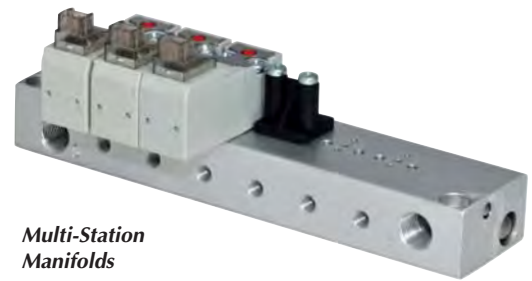
Standard manifolds are available for one to 16 valves with ported exhaust. Spare hardware and closing plates also available.



### Part No.

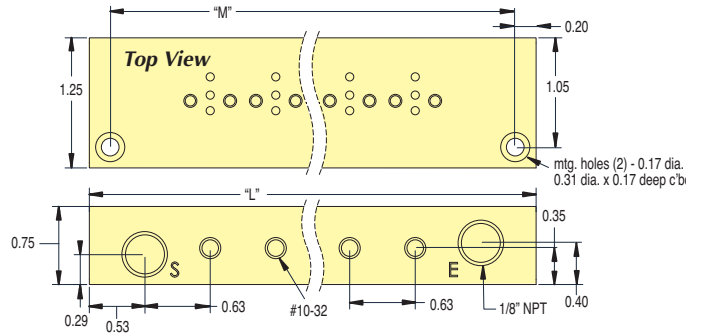
[E15M-01](#)

Single-Station Manifold

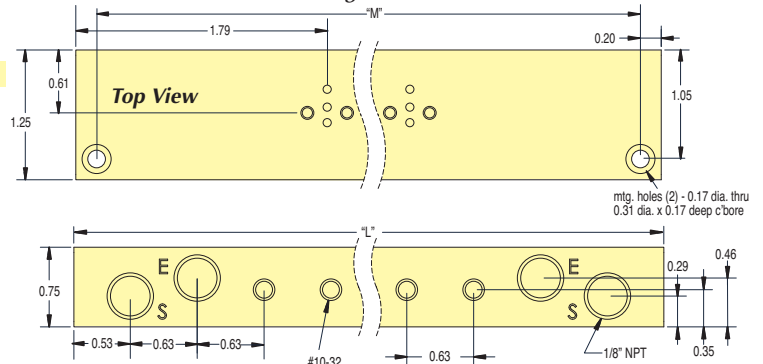


### Multi-Station Manifolds

#### 2- through 8-Station



#### 10- through 16-Station



Stations	Part No.	Length "L"	Length "M"
2	<a href="#">E15M-02</a>	2.95	2.55
4	<a href="#">E15M-04</a>	4.21	3.81
6	<a href="#">E15M-06</a>	5.47	5.07
8	<a href="#">E15M-08</a>	6.73	6.33
10	<a href="#">E15M-10</a>	9.25	8.85
12	<a href="#">E15M-12</a>	10.51	10.1
14	<a href="#">E15M-14</a>	11.77	11.4
16	<a href="#">E15M-16</a>	13.03	12.6



# Maximatic®



## Maximatic Solenoid Valves

Clippard's Maximatic Solenoid valves are available in 2-way, 3-way and 4-way configurations in port sizes from #10-32 to 1/2" NPT. Select either a direct-acting poppet or solenoid-controlled pilot operated balanced spool design. Spool valves are body ported but can be bolted to a parallel circuit manifold.

These electronic valves offer high flow in a small package, and are constructed of aluminum, stainless steel and thermoplastic materials. The 4-way valves are also available in 3 position versions with either pressure center, closed center or exhaust center spool options.

**Materials:** Aluminum, Stainless Steel, Thermoplastic

**Maximum Pressure:** 0 to 115 psig (direct-acting only); 30 to 125 on MME-41 Series, 20 to 125 psig on all others (spool valves)

**Response Time:** Less than 20 milliseconds

**Mounting:** Manifold standard. Actuator (1/4" only) or NAMUR (3/8" NPT only) available.

**Manual Override:** Locking or non-locking

**Electrical Connection:** DIN terminal with LED indicator, or 18" Wire Leads

**DIN Connector:** Plug-in electrical connector with LED. MME-31/41 models are DIN Industrial Form "C" (9.4 mm centers) 3 mm screw. All others are DIN 43650 Form "B" 3 mm screw. LED will not "light" if polarity is reversed.

**Wire Leads:** Not polarity sensitive

**Temperature Range:** 32 to 150°F

**Seals:** Nitrile

Conforms to ISO 19973-2 test standards.

3- & 4-Way Valves

Port	Cv	Flow Rate	
		@ 50 psig	@ 100 psig
#10-32	0.58	16 scfm	27 scfm
1/8" NPT	0.67	18 scfm	31 scfm
1/4" NPT	0.89	26 scfm	49 scfm
3/8" NPT	1.68	51 scfm	93 scfm
1/2" NPT	2.79	91 scfm	171 scfm

Metric line available. Visit [www.clippard.com](http://www.clippard.com)



## Maximum Value. Maximum Performance.

Choose either DIN connector with LED indicator or 18" Wire Lead connection. Both are rotatable and interchangeable.

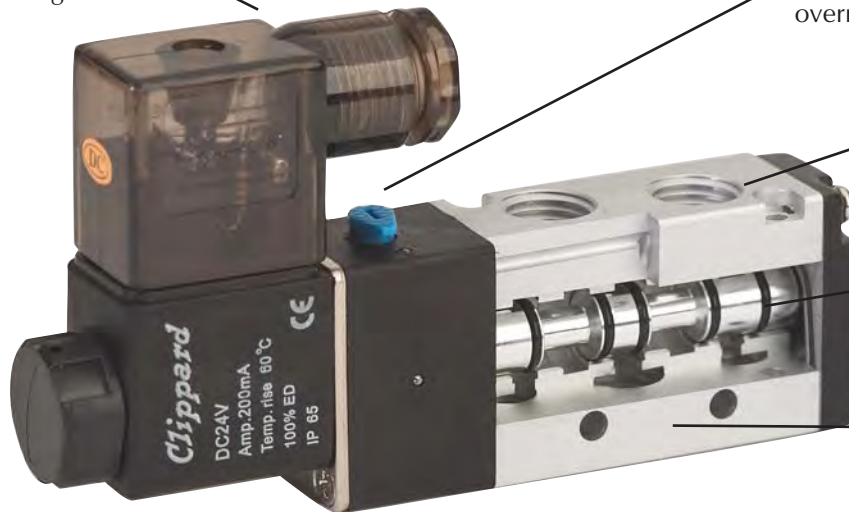
2-Way, 3-Way & 4-Way Designs

For side ported manifold mount, the Maximatic line of valves offers both 1/4" actuator mount and 3/8" NAMUR mount

Easily accessible locking or non-locking manual override switch

Port sizes from #10-32 to 1/2" NPT

Small size makes valves ideal for use in compact applications



Nitrile Seals

Sturdy aluminum body withstands rough environments

Operating ranges to 125 psig

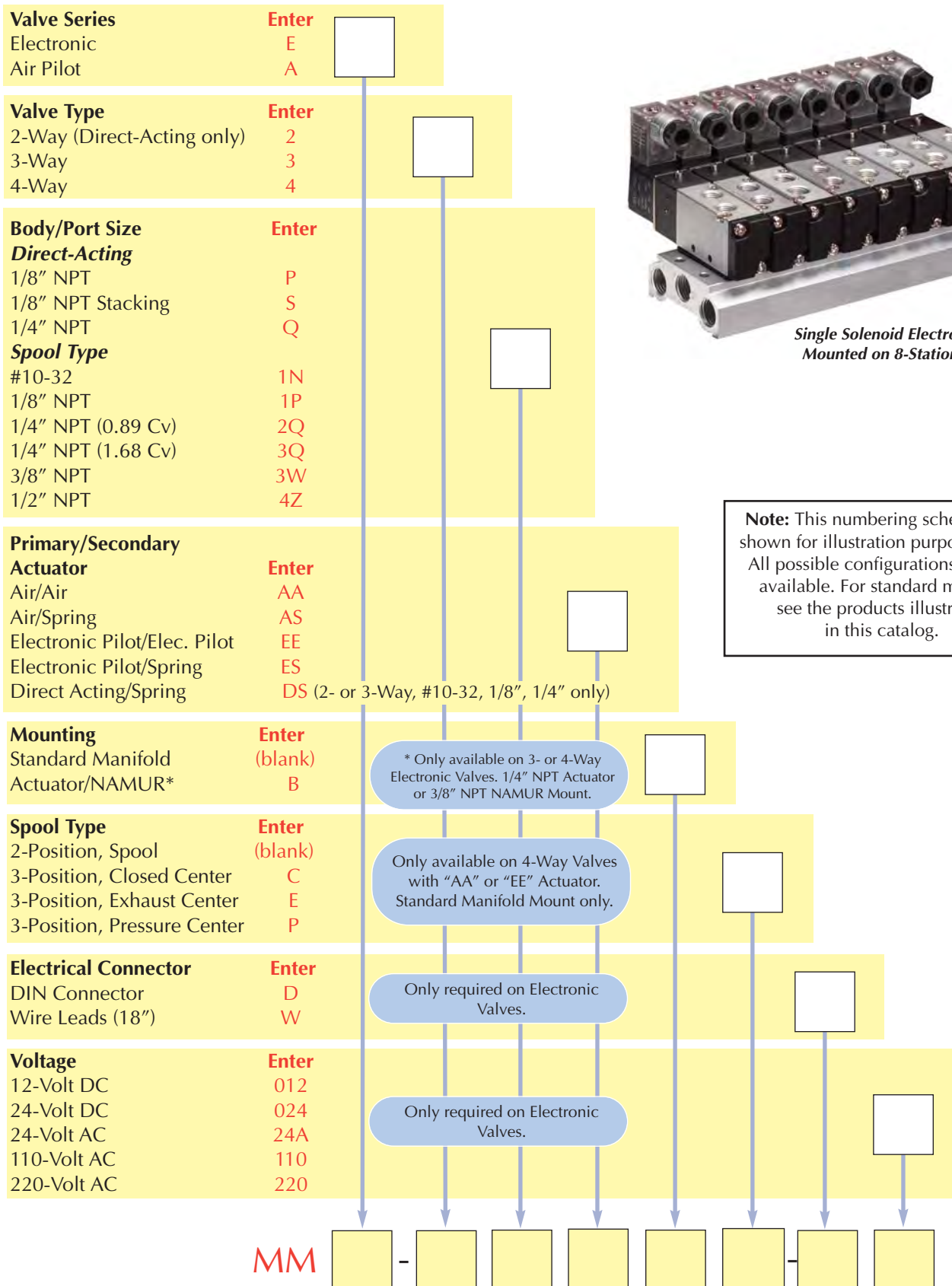
Closed Center, Pressure Center and Exhaust Center Models Available

Maximatic® Valves are available as body ported, manifold mount, NAMUR (3/8" NPT only), and Actuator (1/4" NPT only) mounting. Standard models include a base that permits fast, secure mounting of electronic valves to a manifold for grouping in compact assemblies.

A wide variety of voltage options are available including 12 VDC, 24 VDC, 24 VAC, 110 VAC and 220 VAC. Consult factory for other voltages.

All Maximatic® Solenoid Valves are IP 65 CE Rating

# MAXIMATIC® SOLENOID VALVES



Single Solenoid Electronic Valves Mounted on 8-Station Manifold

**Note:** This numbering schematic is shown for illustration purposes only. All possible configurations are not available. For standard models, see the products illustrated in this catalog.

Metric line available. Visit [www.clippard.com](http://www.clippard.com)

Example: MM  E - 4 2Q ES - D 110



# MAXIMATIC® SOLENOID VALVES

2-Way Valves										
Series No.	Style	Inlet	Ports Outlet	Exhaust	Function	Cv	Flow @ 100 psig			
MME-2PDS	Poppet	1/8" NPT	1/8" NPT	1/8" NPT	2/2	0.12	6.7 scfm			
MME-2QDS	Poppet	1/4" NPT	1/4" NPT	1/4" NPT	2/2	0.12	6.7 scfm			
MME-2SDS	Poppet	1/8" NPT	1/8" NPT	1/8" NPT	2/2	0.05	2.3 scfm			
3-Way Valves										
MME-3PDS	Poppet	1/8" NPT	1/8" NPT	1/8" NPT	3/2	0.12	6.7 scfm			
MME-3QDS	Poppet	1/4" NPT	1/4" NPT	1/4" NPT	3/2	0.12	6.7 scfm			
MME-3SDS	Poppet	1/8" NPT	1/8" NPT	1/8" NPT	3/2	0.05	2.3 scfm			
MME-31NES	Spool	#10-32	#10-32	#10-32	3/2 NC	0.58	27 scfm			
MME-31PES	Spool	1/8" NPT	1/8" NPT	1/8" NPT	3/2 NC	0.67	31 scfm			
MME-32QES	Spool	1/4" NPT	1/4" NPT	1/8" NPT	3/2 NC	0.89	49 scfm			
MME-33WES	Spool	3/8" NPT	3/8" NPT	1/4" NPT	3/2 NC	1.68	93 scfm			
MME-34ZES	Spool	1/2" NPT	1/2" NPT	1/2" NPT	3/2 NC	2.79	171 scfm			
MME-31NEE	Spool	#10-32	#10-32	#10-32	3/2	0.58	27 scfm			
MME-31PEE	Spool	1/8" NPT	1/8" NPT	1/8" NPT	3/2	0.67	31 scfm			
MME-32QEE	Spool	1/4" NPT	1/4" NPT	1/8" NPT	3/2	0.89	49 scfm			
MME-33WEE	Spool	3/8" NPT	3/8" NPT	1/4" NPT	3/2	1.68	93 scfm			
MME-34ZEE	Spool	1/2" NPT	1/2" NPT	1/2" NPT	3/2	2.79	171 scfm			
4-Way Valves										
Series No.	Style	Inlet	Ports Outlet	Exhaust	Function	Cv	Flow @ 100 psig	Spool Configuration		
								Flow @ 100 psig	Center	Exhaust Center
MME-41NES	Spool	#10-32	#10-32	#10-32	5/2	0.58	27 scfm			
MME-41PES	Spool	1/8" NPT	1/8" NPT	1/8" NPT	5/2	0.67	31 scfm			
MME-42QES	Spool	1/4" NPT	1/4" NPT	1/8" NPT	5/2	0.89	49 scfm			
MME-43WES	Spool	3/8" NPT	3/8" NPT	1/4" NPT	5/2	1.68	93 scfm			
MME-44ZES	Spool	1/2" NPT	1/2" NPT	1/2" NPT	5/2	2.79	171 scfm			
MME-41NEE	Spool	#10-32	#10-32	#10-32	5/2	0.58	27 scfm			
MME-41PEE	Spool	1/8" NPT	1/8" NPT	1/8" NPT	5/2	0.67	31 scfm			
MME-42QEE	Spool	1/4" NPT	1/4" NPT	1/8" NPT	5/2	0.89	49 scfm			
MME-43WEE	Spool	3/8" NPT	3/8" NPT	1/4" NPT	5/2	1.68	93 scfm			
MME-44ZEE	Spool	1/2" NPT	1/2" NPT	1/2" NPT	5/2	2.79	171 scfm			
MME-41NEEC	Spool	#10-32	#10-32	#10-32	5/3	0.50	23 scfm		•	
MME-41PEEC	Spool	1/8" NPT	1/8" NPT	1/8" NPT	5/3	0.50	23 scfm		•	
MME-42QEEC	Spool	1/4" NPT	1/4" NPT	1/8" NPT	5/3	0.67	49 scfm		•	
MME-43WEEC	Spool	3/8" NPT	3/8" NPT	1/4" NPT	5/3	1.00	72 scfm		•	
MME-44ZEEC	Spool	1/2" NPT	1/2" NPT	1/2" NPT	5/3	1.68	93 scfm		•	
MME-41NEEP	Spool	#10-32	#10-32	#10-32	5/3	0.50	23 scfm			•
MME-41PEEP	Spool	1/8" NPT	1/8" NPT	1/8" NPT	5/3	0.50	23 scfm			•
MME-42QEEP	Spool	1/4" NPT	1/4" NPT	1/8" NPT	5/3	0.89	49 scfm			•
MME-43WEEP	Spool	3/8" NPT	3/8" NPT	1/4" NPT	5/3	1.00	72 scfm			•
MME-44ZEEP	Spool	1/2" NPT	1/2" NPT	1/2" NPT	5/3	1.68	93 scfm			•
MME-41NEEE	Spool	#10-32	#10-32	#10-32	5/3	0.50	23 scfm		•	
MME-41PEEE	Spool	1/8" NPT	1/8" NPT	1/8" NPT	5/3	0.50	23 scfm		•	
MME-42QEEE	Spool	1/4" NPT	1/4" NPT	1/8" NPT	5/3	0.89	49 scfm		•	
MME-43WEEE	Spool	3/8" NPT	3/8" NPT	1/4" NPT	5/3	1.00	72 scfm		•	
MME-44ZEEE	Spool	1/2" NPT	1/2" NPT	1/2" NPT	5/3	1.68	93 scfm		•	

## Direct-Acting 2-Position Solenoid Valves



Maximatic® Direct-Acting Valves are single solenoid spring return poppet type valves available as either 2-way or 3-way configurations in ports sizes 1/8" NPT and 1/4" NPT. Hardware to stack multiple valves included with each stacking valve (MME-3SDS and MME-2SDS).

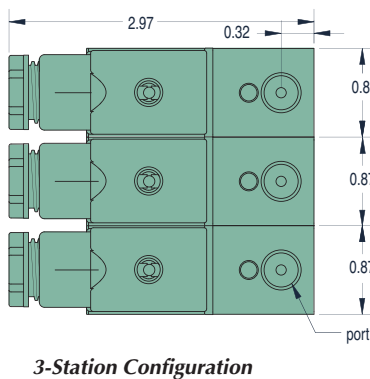
Includes two long screws, two short screw, one gasket, and two nuts.

**Medium:** Air (40 micron filtration), Inert Gas or Liquid  
**Operating Range:** 0 to 115 psig  
**Flow:** 2.3 scfm @ 100 psig  
**Electrical Connection:** DIN connector with LED indicator ("D"), or 18" Wire Lead ("-W")  
**Voltage:** 12-volt DC ("-012"), 24-volt DC ("-024"), 24-volt AC ("-24A"), 110-volt AC ("-110"), or 220-volt AC ("-220")  
**Power Consumption:** 6.5 Watt  
**Number of Ports:** 2 or 3  
**Mounting:** Body Ported or Stacking

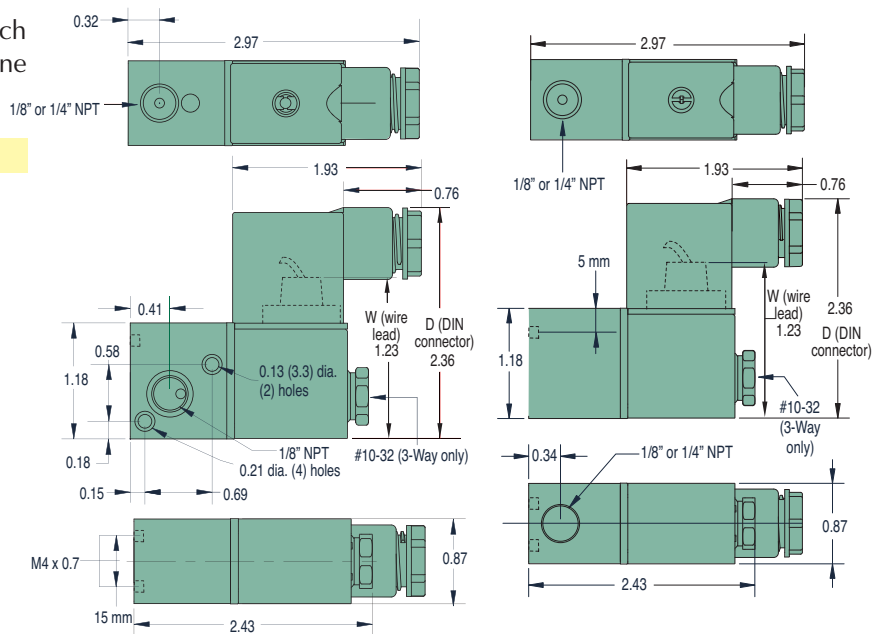
### Replacement Stacking Kit

Replacement Stacking Kits are available which include two long screws, two short screws, one gasket and two nuts.

Part No.	Description
<u>27048</u>	Replacement Stacking Kit



### 2-Way & 3-Way Valves (stacking)      2-Way & 3-Way Valves (non-stacking)



2-Way Valves	Cv/scfm*	3-Way Valves	Inlet	Outlet	Exhaust	Cv/scfm*
MME-2PDS- A	0.12/6.7	MME-3PDS- A	1/8" NPT	1/8" NPT	#10-32	0.10/2.3
MME-2SDS-** W	0.05/2.3	MME-3SDS-** W	1/8" NPT	1/8" NPT	#10-32	0.10/2.3
MME-2QDS- P	0.12/6.7	MME-3QDS- P E	1/4" NPT	1/4" NPT	#10-32	0.10/2.3

\*\* Stacking Valve

\* scfm based on flow @ 100 psig

Add Electrical Connection and Voltage Choices to the end of each Base Part Number - Example: MME-2QDS-W220