

C. Clippard make Electronic Manifold Card (EMC 08 24 30) – 2 sets

1	EMC	Electronic Manifold Card	
2	08	8 Valves	
3	24	24 VDC	
4	30	ET-3M-24 (3-Way Normally-Closed Valves, Manifold mount, Spade terminal, Vac to 105 PSI)	



Auxiliary Power Input

Power to operate the valves may be provided through two sources: ONE, through the 25-pin connector if your signal source also has sufficient power to operate the bank of valves, or TWO, through a separate auxiliary power input connection built into the board. To isolate power from the 25-pin connector, use the power source selector switch.

NOTE: In applying power on a temporary basis, use care to observe proper circuit polarity.

Reverse Polarity Protection

Circuit using diodes and capacitor provides input voltage protection against reverse polarity.

Resistor-Diode-LED Circuit

Individual circuit to each valve provides protection against shut-off spikes. LED is illuminated when valve is actuated.

Printed Circuit Board

Durable laminated fiberglass

3-Position Detented Switches

Three position slide switch provides for: ON - Power "ON"; valve is activated; OFF - Power "OFF"; valve not connected; CONN - Valve connected to 25-pin connector, and will be controlled through it.

Power Selector Switch

Two-position selector switch enables choice of power input source (25-pin connector or auxiliary).

25-Pin Connector

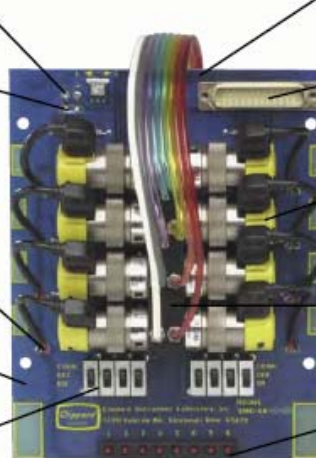
Clippard Electronic Valves

Clippard Valve Manifold

Compact, efficient mounting of the valves is by Clippard multi-valve manifolds.

LED Bank

Illuminated LED signals that the valve is actuated.



Clippard Electronic Manifold Cards

Now you can direct low-voltage DC signals from controllers, systems, computers or other sources to operate powerful pneumatic valves with a minimum of piping and hook-up.

Convenience in interfacing electronics and pneumatics . . . completely assembled, manifolded valve cards.

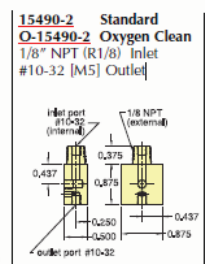
D. Single manifolds – 12 nos.

15490-2 Standard 1/8" NPT (R1/8) Inlet #10-32 [M5] Outlet



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

Specialized Manifolds



E. Single sided 6 station valve manifolds – 3 nos.

15481-6 Single sided 1/8" NPT (R1/8) Inlet #10-32 [M5] outlet

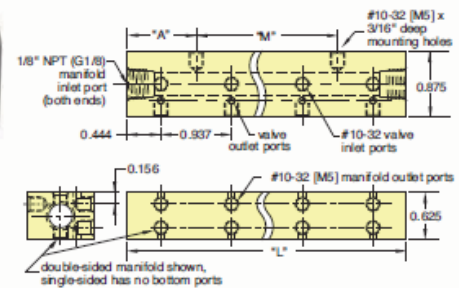
Multi-Valve Manifolds

Construction: Black anodized aluminum

Option: Add -M5 for Metric version



Single-Sided		Double-Sided		"A"	Length "L"	Mtg. "M"
Part No.	Stations	Part No.	Stations			
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



F. 3-Way Fully-Ported Manifold Valves – 6 nos.

Part No: **EWO – 3M – 24** (3-Way Fully-Ported, Wire Leads (Top Axial), Manifold Valve, with 24 VDC operating voltage)

G. 3-Way Fully-Ported Inline Valves – 6 nos.

Part No: **EWO – 3 – 24** (3-Way Fully-Ported, Wire Leads (Top Axial), Inline Valve, with 24 VDC operating voltage)

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

In-Line Mount

Manifold Mount

Wire Leads
Top (Axial)

Part No.

	Pressure Range	Voltage	In-Line Mount	Manifold Mount
Vac. to 105 psig *			*EWO-3-12	*EWO-3M-12
Vac. to 50 psig			*EWO-3-24	*EWO-3M-24
Vac. to 25 psig			*EWO-3-12-L	*EWO-3M-12-L
12 VDC			*EWO-3-24-L	*EWO-3M-24-L
24 VDC			*EWO-3-12-H	*EWO-3M-12-H
			*EWO-3-24-H	*EWO-3M-24-H

Mediums: Clean, dry air (40 micron filter)

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

Temperature Ranges: 32 to 180°F (0 to 82°C)
CR Series: 32 to 150°F (0 to 64°C)

Response: 5 to 10 milliseconds (nominal)

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

Ports: #10-32 (M5 optional), In-line only

Valve Series (*)	Standard	Non-Standard
Standard	(blank)	
Oxygen Clean	O.	
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
Metric Ports (in-line)	-M5	

Pressure Range	Orifice	Air Flow
28" Hg Vac. to 105 psig	0.025"	0.6 scfm @ 100 psig (1.7 l/min @ 7 bar)
*all for spaced configurations		
28" Hg Vac. to 50 psig	0.040"	0.5 scfm @ 50 psig (1.4 l/min @ 3.5 bar)
28" Hg Vac. to 25 psig	0.060"	0.45 scfm @ 25 psig (1.3 l/min @ 1.8 bar)

Example Part No's:
ETO-3M-34-D
CR-EWO-3-12

See Page 175 for mounting options

** Available on manifold mount valves only

H. Clippard make MAXIMATIC series, 3-Way, 2-Position Spring Return & Air Pilot Valves – 6 nos.

Part No: MMA – 34 – ZAS (½ inch NPT inlet, outlet & exhaust, 1/8 inch air pilot)



Spring Return Valves		Inlet	Outlet	Exhaust	Cv/scfm*
<u>MMA-31NAS</u>		#10-32	#10-32	#10-32	0.58/27
<u>MMA-31PAS</u>		1/8" NPT	1/8" NPT	1/8" NPT	0.67/31
<u>MMA-32QAS</u>		1/4" NPT	1/4" NPT	1/4" NPT	0.89/49
<u>MMA-33WAS</u>		3/8" NPT	3/8" NPT	3/8" NPT	1.68/93
<u>MMA-34ZAS</u>		1/2" NPT	1/2" NPT	1/2" NPT	2.79/171

* scfm based on flow @ 100 psig