

EVP Series Proportional Control Valves

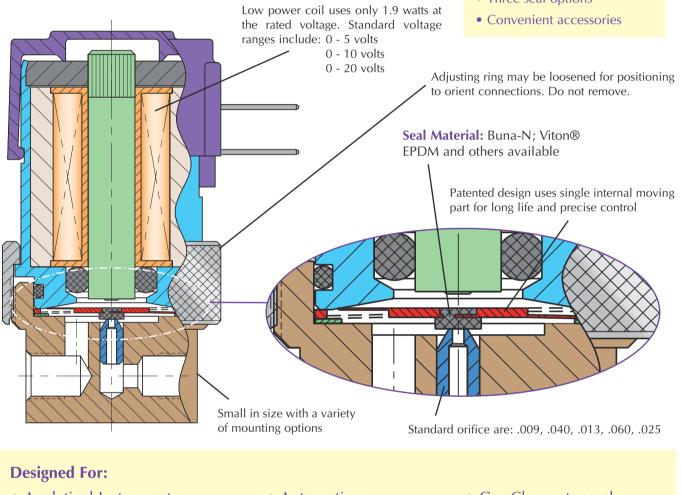




Clippard is pleased to add the EVP series proportional control valve to our electronic product line. This product combines the features of the existing EV series valve - long life, low power, and Clippard's reputation for high quality components - with the additional capability for proportional control.

The EVP series valve provides air or gas flow control, and varies the output flow based on the current input to the solenoid. The consistent gain (see chart) of this valve provides a high degree of control for many applications.

Controllability and overall value are the main features of the EVP Proportional Valve series. The valve may be controlled using DC current, open or closed-loop control, and even PWM (pulse width closed-loop control, to cover a broad range of applications.



- Analytical Instruments
- Blood pressure monitoring
- Precise pressure control
- Dialysis

- Automotive
- Gas Controllers
- Mass Flow Control
- Patient Simulators
- Gas Chromatography

Features

• Fast response

Small package

• Single moving part - low friction and wear

Five orifice sizes

• Three voltage ranges

• Two mounting types • Three seal options

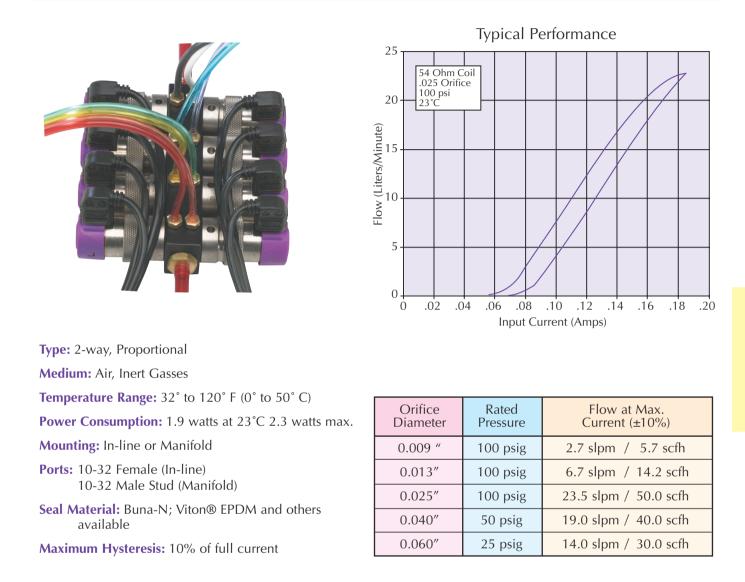
• Three connection styles

• Long life

- Respirators / Ventilators
- Semiconductor CMP and many more...

Clippard Instrument Laboratory, Inc. (513) 521-4261 www.clippard.com



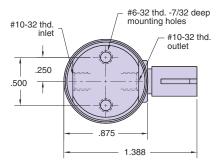


Nominal Voltage Range at 23°C	Input Current Range	Coil Resistance at 23°C	Max. Voltage Required
0 - 5 vdc	0 - 0.370 amps	13.5 ohms	6.2 vdc
0 - 10 vdc	0 - 0.185 amps	54 ohms	12.4 vdc
0 - 20 vdc	0 - 0.093 amps	218 ohms	24.8 vdc



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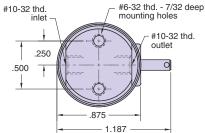






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EV-P-



Type: 2-way, Proportional

Medium: air, Inert Gasses

Temperature Range: 32° to 120° F (0° to 50° C)

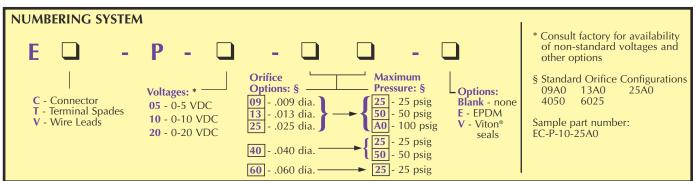
Power Consumption: 1.9 watts at 23°C 2.3 watts max.

Mounting: In-line

Ports: 10-32 Female

Orifice	Rated	Flow at Max.	Flow at Max.	
Diameter (in.)	Pressure (psi)		Current (scfh)	
0.009	100	5.7±10%		
0.013	100	14.2±10%		
0.025	100	50.0±10%		
0.040	50	40.0±10%		
0.060	25	30.0±10%		
Nominal Voltage	Input Current	Coil Resistance	Max. Voltage	
Range at 23°C (vdc)	Range (amps)	at 23°C (ohms)	Required (vdc)	
0 - 5	0370	13.5	6.2	
0 - 10	0185	54	12.4	
0 - 20	0092	218	24.8	

The EVP Proportional Valve can be calibrated for pressures less than the maximum shown here. Lower pressures may be substituted, and will be used for calibration. The pressures shown above are standard options. For pressures less than 10 psig, please consult factory.



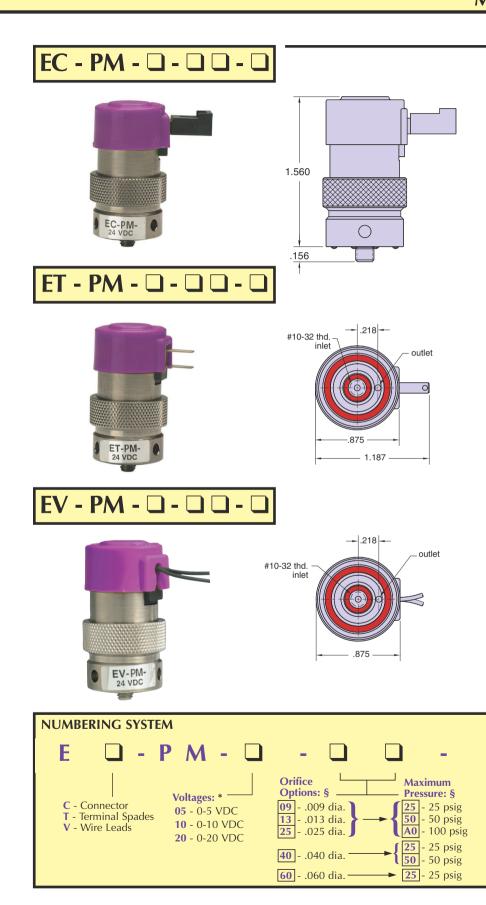
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Clippard Minimatic[®]

EVP SERIES PROPORTIONAL CONTROL VALVES MANIFOLD MOUNT



Medium: air, Inert Gasses

Temperature Range: 32° to 120° F (0° to 50° C)

Power Consumption: 1.9 watts at 23°C 2.3 watts max.

Mounting: Manifold

Ports: 10-32 male stud

Orifice	Rated	Flow at Max.	Flow at Max.	
Diameter (in.)	Pressure (psi)		Current (scfh)	
0.009 0.013 0.025 0.040 0.060	100 100 100 50 25	14.2: 50.0: 40.0:	5.7±10% 14.2±10% 50.0±10% 40.0±10% 30.0±10%	
Nominal Voltage	Input Current	Coil Resistance	Max. Voltage	
Range at 23°C (vdc)	Range (amps)	at 23°C (ohms)	Required (vdc)	
0 - 5	0370	13.5	6.2	
0 - 10	0185	54	12.4	
0 - 20	0092	218	24.8	

The EVP Proportional Valve can be calibrated for pressures less than the maximum shown here. Lower pressures may be substituted, and will be used for calibration. The pressures shown above are standard options. For pressures less than 10 psig, please consult factory.

	* Consult factory for availability of non-standard voltages and other options
ne	§ Standard Orifice Configurations 09A0 13A0 25A0 4050 6025
	Sample part number: EC-PM-10-25A0

Options:

Blank - no

E - EPDM

V - Viton®

seals

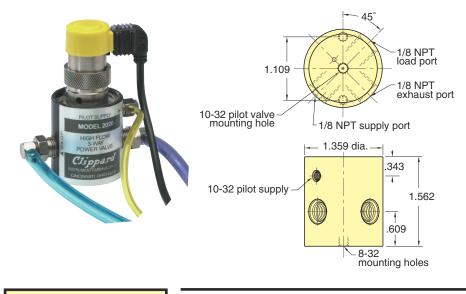


2020/2021

High Flow EC, EV, and ET Piloted 3-way valves

Designed to be piloted by a Clippard EC, EV and ET manifold mount electronic valve. 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 port for the pressure supply to the EC, EV, and ET electronic pilot valve.



Specialized Manifolds



Type: 3-way normally closed, pressure piloted valve

Medium: air

Input Pressure: 30 to 100 psig

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

Air Flow: 22 scfm at 100 psig

Response: approx. 20 ms

Mounting: Mounting holes provided

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

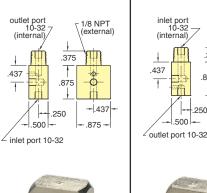
Materials: Anodized Aluminum, Stainless Steel and Buna-N

Additional Note Use only normally closed 3-way pilot valves in conjunction with 2020/2021

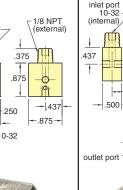
Material: Nickel plated brass Ports: 1/8" NPT thread stud, 10-32 body ports

15490-1 Pilot manifold allows, EC, EV, and ET, controlled by electronic signal, to pilot through 1/8" NPT outlet a much larger air-piloted valve.

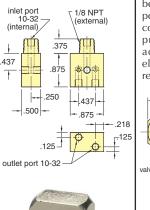
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15490-2 Single supply manifold with 1/8" NPT inlet securely connected to air source, manifold provides rigid mounting for EC, EV and ET valve, 10-32 port outlet.



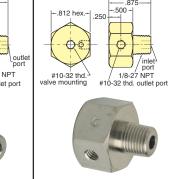
15490-3 Dual supply manifold allows two EC, EV or ET 3-way valves to be used as a 4-way by controlling them with a single pole double throw switch.



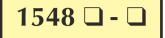
15491-1 Valve pilot adaptor may be used with a pneumatic cylinder to provide a complete system for efficient interface with electric or electronic circuits. This adaptor may be installed in any 1/8 NPT port and with supply air connected to the inlet port, provide air to a single acting cylinder when an electronic signal is received.

*10-32 thd. inlet port

15491-2 Inline manifold may be installed in any 1/8 NPT supply port and provides rigid mounting for an EC, EV, or ET valve with a #10-32 threaded outlet port. With this manifold, an EC, EV, or ET valve controlled by an electronic signal, can pilot a much larger air-piloted valve through a #10-32 threaded outlet port.







Multi-Valve Manifolds

Construction: Black anodized aluminum

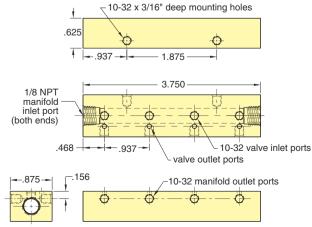


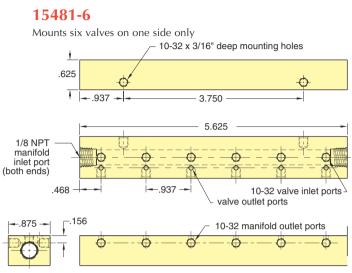


Eight ET valves mounted on a 15482-8

15481-4

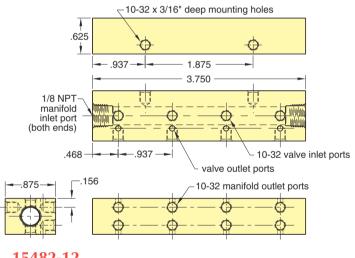
Mounts four valves on one side only





Mounts eight valves, four each on opposite sides

15482-8



15482-12

