

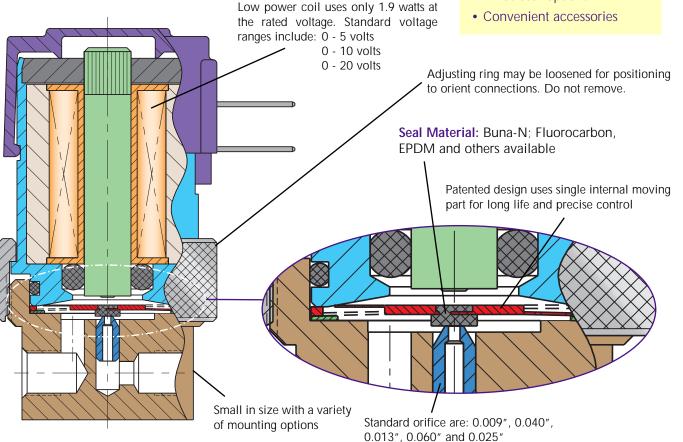
The EVP series Proportional Control Valves combine the features of the existing EV series valve - long life, low power, and Clippard's reputation for high guality components - with the additional capability for proportional control.

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 modulation) to cover a broad range of applications.

### **Features**

- Fast response
- Long life
- Small package
- Single moving part - low friction and wear
- Five orifice sizes
- Three voltage ranges
- Three connection styles
- Two mounting types
- Three seal options
- Convenient accessories



### **Designed For:**

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

- Automotive
- Gas Controllers
- Mass Flow Control
- Patient Simulators
- Gas Chromatography
- Respirators / Ventilators
- Semiconductor CMP and many more...





Based on Clippard's original spider design from 1973, the EVP's armature is the heart of the valve which provides precise flow control.



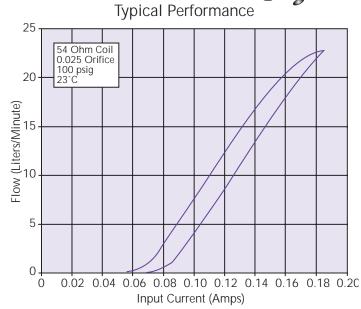
An introductory CD is available which highlights the features and specifications of the award-winning EVP Proportional Control Valves. Call and request one today!



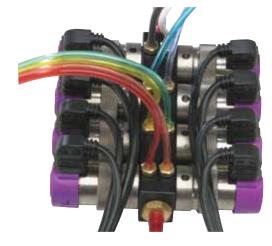
Type: 2-Way, Proportional Medium: Air, Inert Gases Temperature Range: 32° to 120° F (0° to 50° C) Power Consumption: 1.9 watts at 23°C 2.3 watts max. Mounting: In-line or Manifold Ports: #10-32 Female (In-line)

#10-32 Male Stud (Manifold)

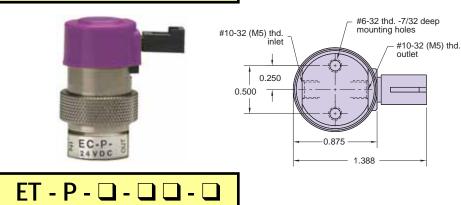
Seal Material: Buna-N; Fluorocarbon and EPDM. 186



Orifice Diameter	Rated Pressure	Flow at Max. Current (±10%)	
0.009″	100 psig	2.7 slpm / 5.7 scfh	
0.013″	100 psig	6.7 slpm / 14.2 scfh	
0.025″	100 psig	23.5 slpm / 50.0 scfh	
0.040″	50 psig	19.0 slpm / 40.0 scfh	
0.060″	25 psig	14.0 slpm / 30.0 scfh	



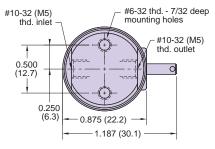




ET-P- 5 24 VDC 0

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EV-P-

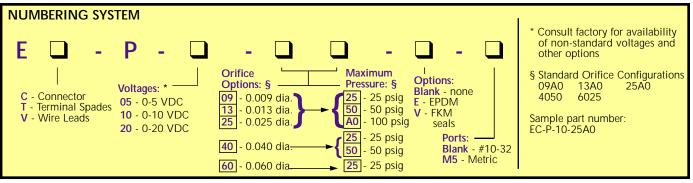


Type: 2-Way, Proportional Medium: Air, Inert Gases Temperature Range: 32° to 120° F Power Consumption: 1.9 watts at 23°C 2.3 watts max. Mounting: In-line

Ports: #10-32 (M5) Female

Orifice	Rated	Flow at Max.		
Diameter (in.)	Pressure (psig)	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	0 - 0.370	13.5	6.2	
0 - 10	0 - 0.185	54	12.4	
0 - 20	0 - 0.092	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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1.560 (39.6)

For Cable and Connectors, see Page 187.

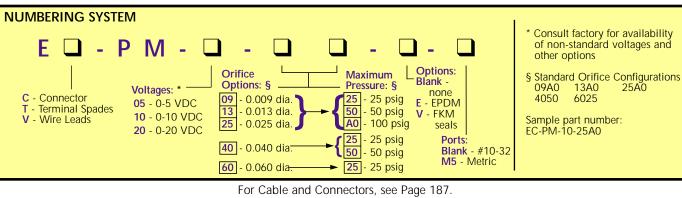


EC - PM - 🗆 - 🛄 - 🛄	
EC-PM-0	1.560 (39.6) 0.156 (4.0)
ET - PM - 🗆 - 🛄 - 🛄	
ET-PM-	#10-32 thd. inlet 0.875 (22.2) 1.187 (3.01)
EV - PM - 🗆 - 🖸 🗆 - 🖸	]
D EV-PM- 34 VDC	#10-32 thd. inlet 0.875(22.2)
NUMBERING SYSTEM	
Voltages: * Op	- Options: S Maximum pressure: S Blank - 0.009 dia. 25 - 25 psig E - EPDM

Type: 2-Way, Proportional Medium: Air, Inert Gases Temperature Range: 32° to 120°F Power Consumption: 1.9 watts at 23°C 2.3 watts max. Mounting: Manifold Ports: #10-32 male stud

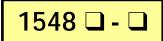
Orifice Diameter (in.)		Rated Pressure (psig)	Flow at Max. Current (scfh)	
0.009 0.013 0.025 0.040 0.060		100 100 100 50 25	14.2: 50.0: 40.0:	10% ±10% ±10% ±10% ±10%
Nominal Voltage Range at 23°C (vdc)		Input Current Range (amps)	Coil Resistance at 23°C (ohms)	Max. Voltage Required (vdc)
0 - 5 0 - 10 0 - 20	000000000000000000000000000000000000000	- 0.370 - 0.185 - 0.092	13.5 54 218	6.2 12.4 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.





# EV, ET, EC Series Manifolds



Multi-Valve Manifolds

Construction: Black anodized aluminum



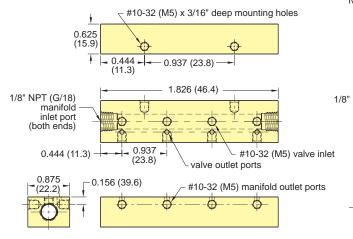
	# of		
Order No.	Valves	"A"	"B"
15481-4	4	1.875″	3.750″
15481-4-M5	4	42.6 mm	95.3 mm
15481-6	6	3.750″	5.625″
15481-6-M5	6	95.3 mm	142.9 mm



Eight ET valves mounted on a 15482-8

## 15481-2 & 15481-2-M5 (Metric)

Mounts two valves on one side only

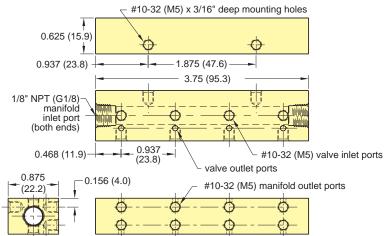


## 15481-4 & 15481-4-M5 (Metric)

15481-6 & 15481-6-M5 (Metric) Mounts six valves on one side only #10-32 (M5) x 3/16" deep mounting holes 0.625 (15.9) 4 ⊷0.937-(23.8) A В 1/8" NPT (G1/8) manifold inlet port (both ends) 0.937 0.411 (11.3) #10-32 (M5) valve inlet ports (23.8) valve outlet ports 0.875 0.156 (39.6) #10-32 (M5) manifold outlet ports

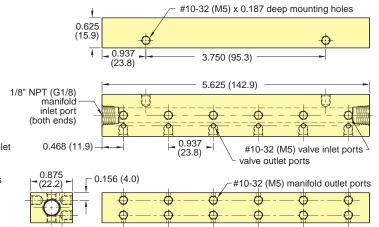
### 15482-8 & 15482-8-M5 (Metric)

Mounts eight valves, four each on opposite sides



### 15482-12 & 15482-12-M5 (Metric)

Mounts twelve valves, six each on opposite sides





# EV, ET, EC SERIES ACCESSORIES



Type: 3-Way Normally Closed, Pressure

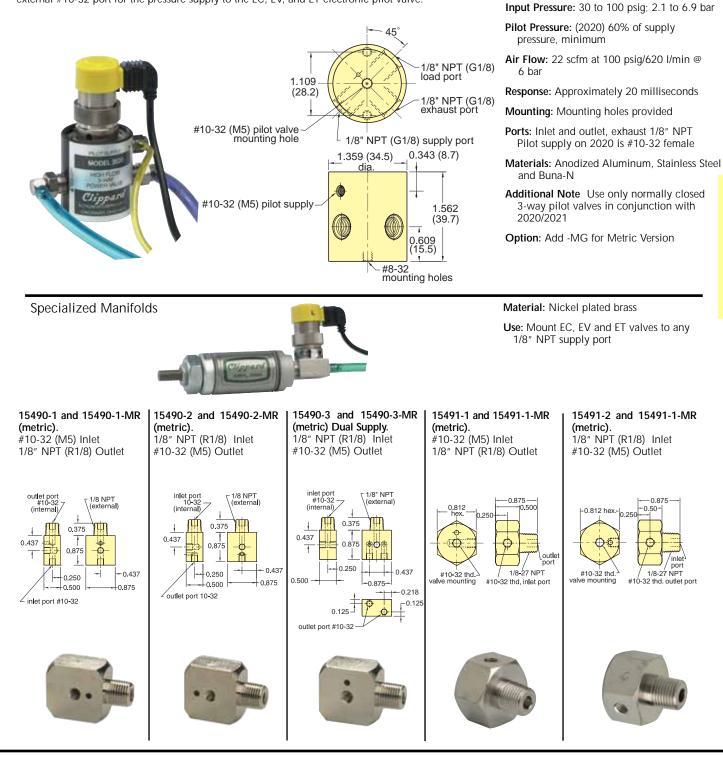
Piloted Valve

Medium: Air

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.



Clippard Instrument Laboratory, Inc. 877-245-6247 www.clippard.com