

FEATURES & BENEFITS

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 • Gas Chromatography Automotive • Dialysis • Blood Pressure Monitors Mass Flow Control • Respirators/Ventilators Patient Simulators • Precise Pressure Control Semiconductor-CMP • Gas Controllers Many more!

EVP Series Proportional Control Valves

Clippard is pleased to add the EVP series proportional control valve to our Electronic Valve 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 of 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 graph) 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.

Control voltage ranges include 0 - 5, 0 - 10 & -0 - 20 volts.

Adjusting ring may be loosened for positioning to orient connections

Small in size with a variety of mounting options.



Patented design uses single internal moving part for long life and precise control

Standard orifices are 0.009", 0.013", 0.025", 0.040" and 0.060"

Valve Type:	2-Way, Proportional				
Medium:	Air, 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 Standard; Viton®,				
	EPDM and others available				
Maximum Hysteresis:	10% of full current				

Orifice Diameter	Rated Pressure	Flov Maxii Current	v at num (±10%)
Inches	psig	slpm	scfh
0.009	100	2.7	5.7
0.013	100	6.7	14.2
0.025	100	23.5	50.0
0.040	50	19.0	40.0
0.060	25	14.0	30.0



Nominal Voltage	Input Current	Coil Resistance	Max. Voltage
Range at 23°C	Range	at 23°C	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 - 0.092 amps	218 ohms	24.8 vdc

Dimensions







Coil Styles



EC 0.025" Pin Connector

EV 18" Wire Leads, 26 Gauge



ET 0.110" x 0.020" Space Connector

All dimensions are stated in inches (millimeters)

Multi-Valve Manifolds



8 Valves Mounted on #15482-8





Dual Supply Manifold allows two EC, EV or ET valves to be mounted in a small space.



Models 15481-4 and 15482-8



15481-4 Mounts Four Valves on One Side Only15482-8 Mounts Eight Valves, Four Each on Opposite Sides

Models 15481-6 and 15482-12



15481-6 Mounts Six Valves on One Side Only15482-12 Mounts 12 Valves, Six Each on Opposite Sides

Single Supply Manifolds use a 1/8" NPT male inlet to allow for secure mounting. #10-32 port outlet.



All dimensions are stated in inches (millimeters)



ET-C48 ET-C120

Black molded lug connectors are available for easy push on connection. ET-C48 is 48" in length, ET-C120 is 120" in length. Insulated lug connectors are available for wiring up leads to connect electronic circuit to ET style valves. Accepts #22, #24 or #26 wire.





C2-RB18

AMP connector #103959-1 with 18" wire leads for EC valves.



All dimensions are stated in inches (millimeters)

3831

Order Information

Electrical Connection		Mounting		Voltage		Orifice Options		Maximum Pressure		Seal	
	Order No.		Order No.		Order No.		Order No.	*see note	Order No.		Order No.
Connector	С	Base	(blank)	0 to 5 vdc	05	0.009″ dia.	09	25 psig	25	Buna-N	(blank)
Terminal	Т	Mount		0 to 10 vdc	10			50 psig	50	EPDM	E
Spades		Manifold	M	0 to 20 vdc	20			100 psig	A0	Viton®	V
Wire Leads	V	V Mount			0.013″ dia.	13	25 psig 50 psig 100 psig	25 50 A0	1		
			0.025 01a.	25	50 psig 100 psig	23 50 A0					
						0.040″ dia.	40	25 psig 50 psig	25 50		V
Part Number		- P		-		0.060" dia.	60	25 psig	25	-	

* Note: 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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