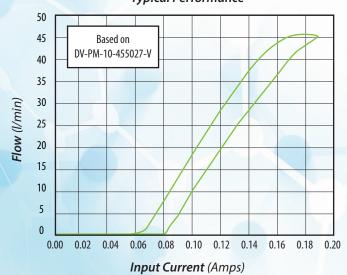
DVP PROPORTIONAL VALVES



Clippard's DVP series proportional solenoid valves are precision-built 2-way control valves. With its solid, compact dsign, long life, and exceptionally high flow rates, these valves are suitable for a wide variety of applications across many different industries.

The DVP valve provides air or gas flow control and varies the output flow based on the current input to the solenoid. The valve's consistent gain provides a high degree of control. It may be controlled using DC current, open or closed-loop control, and even pulse width modulation (PWM) to cover a large range of applications.





The above flow curve is a typical calibration record for the DVP. All proportional valves have a stored calibration data sheet readily available upon request.





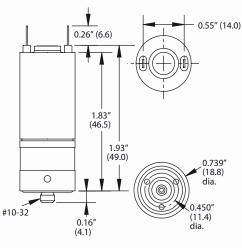






Coil Resistance	52.6, 210.5 Ω @ 72°F (22°C)		
Connection	Terminal spades or 18" (45.7 cm) wire leads		
Current	0 to 0.190 A, 0 to 0.095 A		
Cycle Life	1,000,000,000+		
Driver	EVPD (optional)		
Filtration	40 micron filter (recommended)		
Function	2-way normally-closed proportional		
Material, Body	Stainless steel		
Material, Seals	FKM, nitrile, EPDM, or silicone		
Material, Seat	Stainless steel		
Material, Wetted	304 stainless steel, PPS		
Max. Flow	+10%, -0%		
Medium	Air or compatible gases		
Mount	Manifold, #10-32 male stud		
Number of Ports	2		
Operating Pressure	Vac. to 100 psig (7 bar)		
Operating Temp. Range	32 to 120°F (0 to 49°C)		
Port, Inlet	Manifold stud		
Port, Outlet	Manifold outlet hole		
Voltage	10 or 20 VDC nominal		
Wattage	1.9 watts @ 72°F (22°C), 2.5 watts max.		
More Details	clippard.com/link/dvp-series		

Spade Terminals



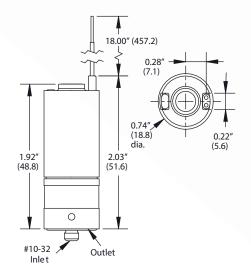
Clippard Clippard Clippard

Manifolds				
15490-5	Single-Station, ENP Brass			
15781-2	2-Station, Black Anodized Aluminum, 1/8" NPT			
15781-4	4-Station, Black Anodized Aluminum, 1/8" NPT			
15481-6	6-Station, Black Anodized Aluminum, 1/8" NPT			

Dimensions shown are in inches (millimeters listed in parentheses).

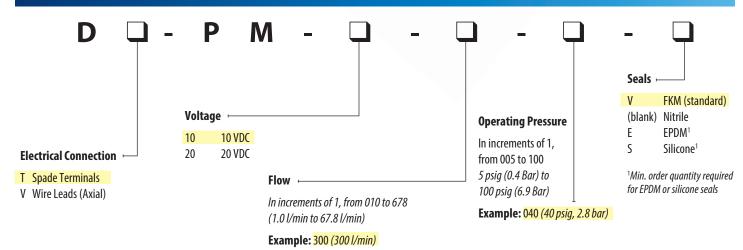
Visit clippard.com for more detailed 2D and 3D drawings.

Wire Leads



- Extremely low hysteresis
- · Low heat rise / low power
- · Flow proportional to input current
- Robust stainless steel spring, base, and housing
- · Industry standard for leak-free operation
- Over 1,000,000,000 cycles

ORDERING INFORMATION



Example Part Number:

DT-PM-10-300-040-V

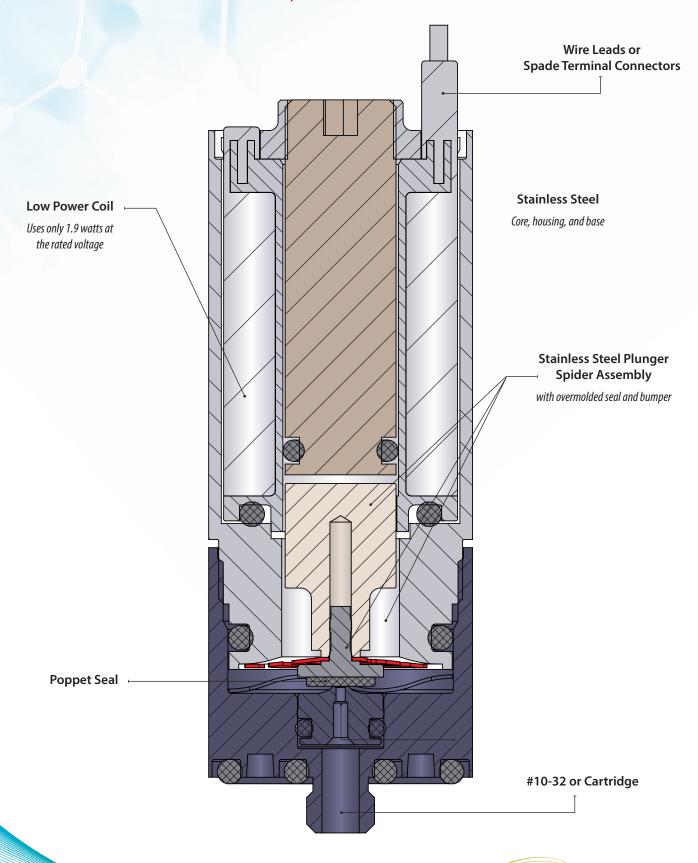
For more info, scan the QR code or visit

clippard.com/link/dvp-series



TDS DVP-01, Rev. 011624 (2/4) **877-245-6247** | **clippard.com**

A Close-Up of the DVP Series



How to Select Your DVP Proportional Valve

Proportional flow is achieved by varying the current input to the valve. It is crucial to specify and use a calibrated valve that matches your application. To ensure you have a valve that will perform well for your specific requirements, be sure to use a valve set to your operating pressure.

The flow capabilities shown below in green are standard configurable options. The flow capabilities shown in blue are available as a special custom option. Contact Clippard for more details.

To select your valve, reference the flow chart and list your operating pressure in a 3-digit format (065 = 65 psig). Next, specify your desired maximum flow rate for your pressure (500 = 50.0 l/min). Accurately specify your nominal operating pressure and flow to ensure the best performance and resolution for your application.

For nominal operating pressures under 5 psig, use a 005 designator for pressure. For vacuum applications, use the positive pressure equivalent and reverse the ports.

When choosing your valve, there are many variables to consider. To select the best valve for your application, focus on:



Control Signal



Operating Pressure

Please Note: It is important to specify and use a calibrated valve that matches your application. Be sure to use a valve set to your operating pressure. Otherwise, the required power for opening the valve will be high and the resolution to set your flow proportional will be poor.



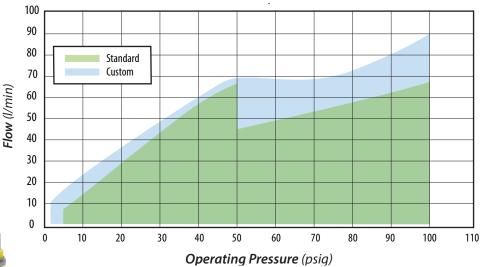
Voltage Range	Input Current Range	Coil Resistance	Max. Voltage Required
0 to 10 VDC @ 72°F	0 to 0.190A	52.6 ohms @ 72°F	13 VDC
0 to 20 VDC @ 72°F	0 to 0.095A	210.5 ohms @ 72°F	26 VDC

Note: Do not exceed input current range

CONTROL SIGNAL



OPERATING PRESSURE - Flow vs. Operating Pressure





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