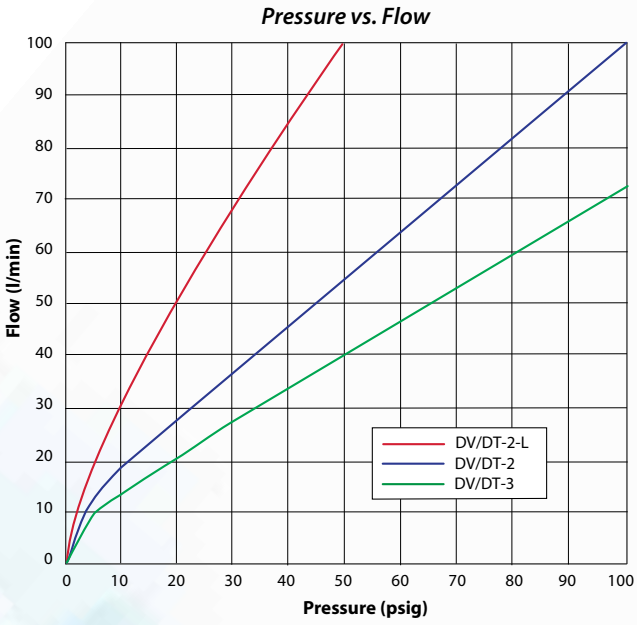
DV SERIES HIGH FLOW VALVES

2-WAY & 3-WAY HIGH FLOW VALVES

- **Industry standard for leak-free operation**
- **Design flexibility and fast response**
- **Designed to accommodate large flows with more stroke**
- **Robust stainless steel "spider"**



QUICK CONNECT

Clippard DT Series valves feature spade lugs for simple, quick secure low voltage connections. The DV type valves are available in popular voltages with 18" wire leads.

Clippard DV series electronic valves are high flow, precision-built control valves. This powerful series was designed as the next generation of the well-known and trusted original EV series valves. With a life of over a billion cycles, a solid, compact design, and extremely high flow rates, these valves are suitable for many applications across numerous diverse industries. A variety of voltage, connector and mounting options are available.

Proportional version also available—*See p. 58-59*

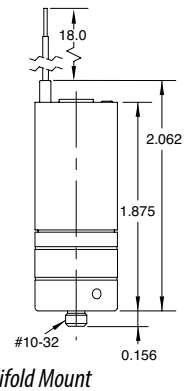
- **Fast response**
- **Low heat rise/low power**
- **Small package**
- **Single moving part for low friction and wear**
- **Two orifice sizes**
- **Two connection styles**
- **Two mounting types**

Medium	Air or compatible gases (40 micron filter)
Air Flow	**DV-2/DT-2:** 100 l/min @ 100 psig **DV-2-L/DT-2-L:** 100 l/min @ 50 psig **DV-3/DT-3:** 70 l/min @ 100 psig
Power Consumption	1.9 watts
Ports	#10-32 (on manifold mount valve)
Temperature Range	32 to 130˚F
Response	10 to 15 ms
Electrical Connection	Spade terminals or wire leads
Operating Range	95 to 125% of rated voltage
Mounting	Manifold or cartridge *(inserts into a 3/4" bore)*
Wetted Materials	PPS, PEI, stainless steel
Seal Material	FKM standard Nitrile, EPDM[1], and silicone[1] available
More Details	clippard.com/link/dv

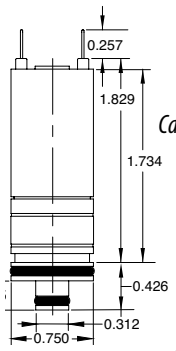
Customizable to the specifications of the application. Call **1-877-245-6247.*
[1]Minimum order quantity required for EPDM or silicone seals

DV SERIES HIGH FLOW VALVES

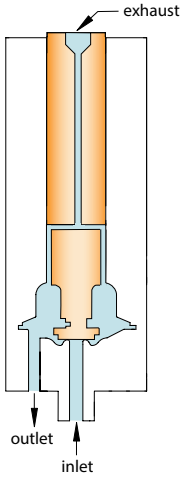
2-WAY & 3-WAY VALVES, MANIFOLD & CARTRIDGE MOUNT

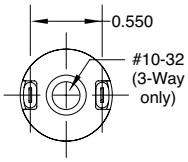
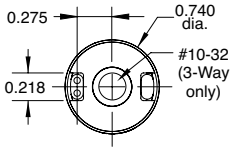


Manifold Mount



Cartridge Style



		Vac. to 100 psig	Vac. to 50 psig	12 VDC	24 VDC	2-Way In-Line	2-Way Cartridge	3-Way In-Line	3-Way Cartridge
	 Spade Terminals	•		•		DT-2M-12	DT-2C-12	DT-3M-12	DT-3C-12
		•			•	DT-2M-24	DT-2C-24	DT-3M-24	DT-3C-24
			•	•		DT-2M-12-L	DT-2C-12-L		
			•		•	DT-2M-24-L	DT-2C-24-L		
	 Wire Leads Top (Axial)	•		•		DV-2M-12	DV-2C-12	DV-3M-12	DV-3C-12
		•			•	DV-2M-24	DV-2C-24	DV-3M-24	DV-3C-24
			•	•		DV-2M-12-L	DV-2C-12-L		
			•		•	DV-2M-24-L	DV-2C-24-L		

Medium	Air or compatible gases (40 micron filter)
Materials, Seals	FKM standard; nitrile, EPDM[1], and silicone[1] available
Materials, Wetted	PPS, PEI, stainless steel
Mounting	Manifold or cartridge
Operating Range	95 to 125% of rated voltage
Ports	#10-32 (on manifold mount valve)
Power Consumption	1.9 watts
Response Time	10 to 15 ms
Temperature Range	32 to 130˚F
More Details	clippard.com/link/dv

See p. 10 for mounting option schematics

[1]*Minimum order quantity required for EPDM or silicone seals*

Pressure Range	Version	Air Flow	Options Suffix
28" Hg Vac. to 100 psig	2-Way	100 l/min @ 100 psig	(blank)
	3-Way	70 l/min @ 100 psig	(blank)
28" Hg Vac. to 50 psig	2-Way	100 l/min @ 50 psig	-L

Options Suffix	
Nitrile seals	(blank)
FKM seals	-V
EPDM seals[1]	-E
Silicone seals[1]	-S

Example Part Numbers:
DV-2M-12-V

MULTI-STATION MANIFOLDS

Black anodized aluminum;
1/8" NPT ports

Part No.	Description
15781-2	2-Station
15781-4	4-Station
15781-6	6-Station

SINGLE-STATION MANIFOLDS

ENP brass standard

Other materials also available, call 877-245-6247.

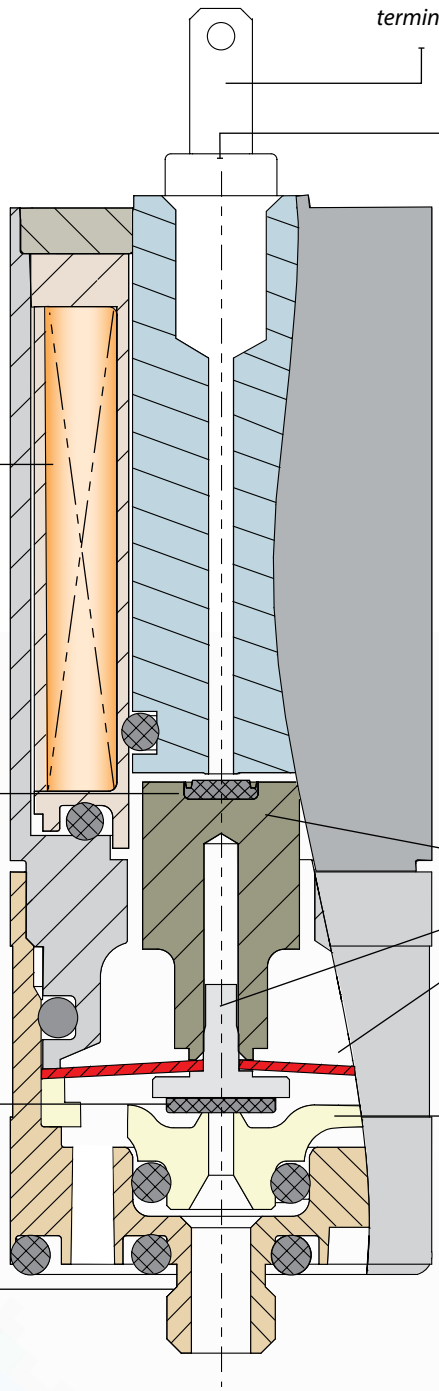
Cartridge style shown

Part No.	Description
15490-5	Manifold Mount
15492-1	Cartridge Manifold

Clippard's Next Generation DV Series Valve

Clippard DV series electronic valves feature the same exceptional long life as the trusted EV series, but with even more flow! Proportional version also available *(see pp. 58-59)*.

For more details, visit clippard.com/link/dv



Wire leads or spade terminal connectors

#10-32

Low power coil uses only 1.9 watts at the rated voltage. Standard voltages include 12 or 24 VDC

Over 1,000,000,000 cycles

Stainless steel core, housing, and base

Stainless steel plunger spider assembly with overmolded seal and bumper

Bumper

Also available in proportional version *(pp. 58-59)*

Poppet Seal

Ultem™ Nozzle

#10-32 or cartridge

RoHS 100% TESTED made in the USA

PROBLEM

Any component which fails prematurely presents obvious problems. Therefore, in an effort to reduce down time and costly maintenance, manufacturers often seek components with longer lifespans. In this case, the equipment required numerous high flow valves which were failing to provide sufficient longevity. Maintenance was becoming prohibitively costly as technicians were having to routinely replace valves, a process which, due to the size of the equipment, had to be performed on-site.

SOLUTION

The OEM's primary concern was to reduce the costs required to maintain their equipment. The first step towards solving this was to replace the existing valves with Clippard DV valves. With a lifespan of over a billion cycles, this switch significantly reduced the number of service calls technicians had to make. As an added bonus, the new valves also provided lower power consumption and higher flow rates.

Along with the new DV valves, Clippard designed a special new manifold. With all the valves mounted together in a single, compact block, it became much quicker and easier to remove the entire valve system. This further reduced maintenance time by enabling technicians easier access to other components within the system.

WHAT CAN CLIPPARD DO FOR YOU?

877-245-6247

"The world is changing so fast now that you need the engineering support. And once you are in contact with Clippard's engineering team, Clippard is probably the most supportive engineering staff we deal with."

CUSTOMER TESTIMONIAL