7 MM VALVES

2-WAY & 3-WAY SUBMINIATURE VALVES



Valve Type	2-Way and 3-Way Normally-Closed
Medium	Air, water, gas, or compatible fluids
Nominal Power	0.5 to 1.2 watts
Response Time	<5 ms*
Temperature Range	32 to 122°F
Electrical Connection	3" Wire Leads
Voltage	12 VDC or 24 VDC
Mounting	Cartridge
Wetted Materials	Stainless Steel
Seal Material	FKM standard, EPDM available
More Details	clippard.com/link/sv

^{*}Customizable to the specifications of the application. Call 877-245-6247.

Туре	Pressure	Orifice	Part No.	Voltage
2-Way	0 to 145 psig 0 to 45 psig	0.012" 0.039"	SV-2C-12-3-V SV-2C-24-3-V SV-2C-12-10-V	12 VDC 24 VDC 12 VDC
			SV-2C-24-10-V	24 VDC
3-Way	0 to 144 psig	0.012"	SV-3C-12-3-V SV-3C-24-3-V	12 VDC 24 VDC
	0 to 22 psig	0.039"	SV-3C-12-10-V SV-3C-24-10-V	12 VDC 24 VDC



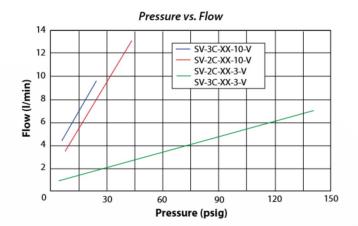
Other materials available.

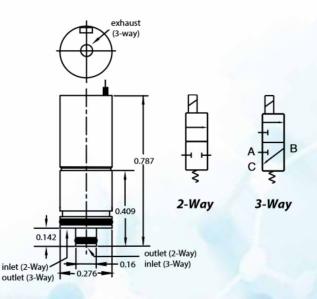
iption
-Station Manifold, #10-32
-Station Manifold, M5
ting Clip & Screw Only

These direct actuating valves offer an extremely fast response time for accurate dosing of minute volumes with the same long life you expect from the original Clippard EV line of electronic valves, in a 7 mm cartridge package. Due to very low moving weights, they are extremely quiet and emit very low vibration. Subminiature size and low energy consumption make them ideal for transportable and mobile systems, among others.

Standard products offered will fit the needs of most applications, however this series can be fully customized according to the user's unique requirements.

- 1,000,000,000+ cycle life
- · Extremely minimal dead volume
- · Low vibration and noise
- 100% tested



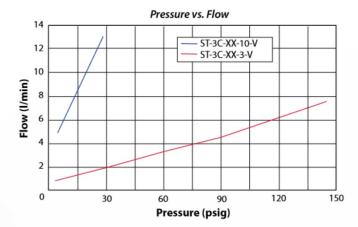


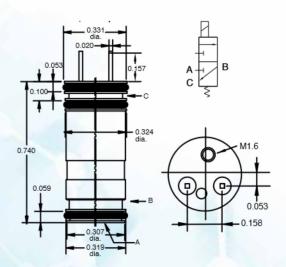
8 MM VALVES

3-WAY SUBMINIATURE VALVES



- · 1,000,000,000+ cycle life
- · Extremely small dead volume
- · Low vibration and noise
- · Exceptional repeatability and reliability
- Compact and ideal for sub-assemblies
- 100% tested





These direct actuating valves offer an extremely fast response time for accurate dosing of minute volumes with the same long life you expect from the original Clippard EV line of electronic valves, in a 8 mm cartridge package. Due to very low moving weights, they are extremely quiet and emit very little vibration. Subminiature size and low energy consumption make them ideal for many medical and diagnostic applications.

Standard products offered will fit the needs of most applications, however this series can be fully customized according to the user's unique requirements. Consult Clippard with your specific application.

3-Way, Normally-Closed
Air, water, gas, or compatible fluid
0.55 watts*
<5 ms*
32 to 122°F
Terminal pins
12 VDC or 24 VDC*
Cartridge
Stainless steel
FKM standard; EPDM available
clippard.com/link/st

^{*}Customizable to the specifications of the application. Call 877-245-6247.

Part No.	Pressure	Orifice	Voltage
ST-3C-12-3-V ST-3C-24-3-V	0 to 145 psig	0.012"	12 VDC 24 VDC
ST-3C-12-10-V ST-3C-24-10-V	0 to 29 psig	0.039"	12 VDC 24 VDC

SINGLE-STATION MANIFOLD

Part No.	Description
STM-01	Single-Station Manifold, #10-32
M-STM-01	Single-Station Manifold, M5

Black anodized aluminum manifold comes with mounting screw. Other materials available.



PROBLEM

Highly specialized equipment often presents very specific design challenges. This can be especially true in laboratory or analytical environments where the optimization of new equipment requires special components that are able to meet unique demands such as specific pressure, flow, and heat requirements. This OEM's system was leaking, but the fix would not be simple. Their application included a long list of critical specifications. On top of needing to maintain an existing footprint, the system also needed to minimize internal volume, could not generate much heat, and had to control a precise flow at a very specific pressure.



While the requirements may seem daunting, this is just the type of problem that Clippard excels at solving. Our subminiature 8 mm valves provide precise, accurate flow control and generate very little heat—they were perfectly suited for this application. The OEM's existing system was leaking, so Clippard closely examined factors which could be contributing to this. Replacing the valves was a step forward, but Clippard also found that the gaskets in the existing manifold were leak points as well.

To ensure the fewest possible leak points, Clippard designed an acrylic diffusion-bonded manifold which not only eliminated the need for gaskets, but also allowed critical passages at tight tolerances. The special manifold allowed the new valves to be mounted together tightly and compactly, providing a leakproof solution with an even smaller footprint than the OEM had previously.





"When our engineering team is working directly with the customer's engineering team—that is when Clippard's experience, creativity, and expertise are of most benefit to all involved."

JERRY GROTELUESCHEN

ENGINEERING MANAGER,
APPLICATION ENGINEERING GROUP

WHAT CAN CLIPPARD DO FOR YOU?

877-245-6247