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Valcor Scientific

Subminiature Valves

2-Way and 3-Way Poppet Solenoid Valves

Model: SV24



INTRODUCTION

Valcor Scientific, A Division of Valcor Engineering, has designed and engineered rugged, reliable solenoid operated valves for more than 40 years.

The Model SV24 was specifically engineered to provide small valve control for a wide range of liquids and gases.

DESCRIPTION

The SV24 Series are direct acting, poppet solenoid valves which are available as either 2-way or 3-way.

The normally open port in the 3-way valve is located at the opposite end of the solenoid and requires a separate external connection, or may be vented to the atmosphere. Two orifice sizes are available.

The 3-way valves have elastometric discs at both ends of the solenoid plunger. These discs seal against a seat in the body when the solenoid is de-energized, and seal against a seat in the stop when the solenoid is energized. 2-way valves have no upper port and are normally closed in configuration. De-energized, the seal disc seats on

the body orifice and when energized, unseats to permit flow.

APPLICATIONS

Its fast response time and long life make the Model SV24 ideally suited for a broad range of biological, medical and analytical equipment applications, as well as industrial usage. These valves are also ideal as pilot valves for larger valves and actuators. Typical applications utilizing the Model SV24 are:

- Air control for medical dialysis
- Pneumatic controls for surgical instruments
- Water control for ice makers
- Blowing tape off the head for computer tape drives
- Pneumatic controls in wafer processing for semiconductors
- Solvent replenishment in ink jet printing

FEATURES

- Life-tested to 250 million cycles
- Fast response time
- Rapid cycle capability to 20+ cycles/sec.
- Small, physical size
- Lightweight
- Wide pressure and vacuum range
- Bubble-tight sealing

SPECIFICATIONS

Size:81" Dia. 1.97" (max) lg.

Weight: 2.0 oz. (62 g)

Body Materials: Acetal

Seal Materials: Buna N

Others available upon request

Other Materials in Contact

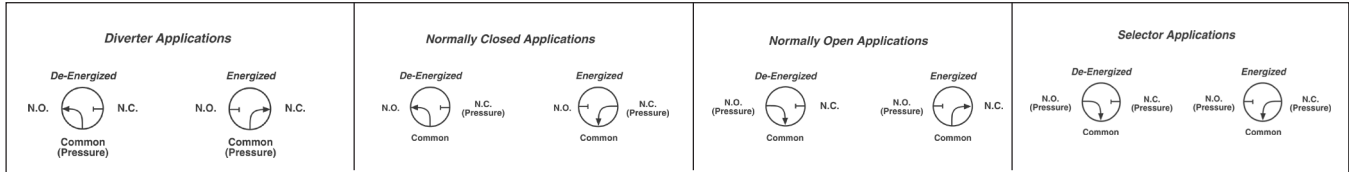
with Fluid: Stainless Steel, Polyester

Power: 2 Watts

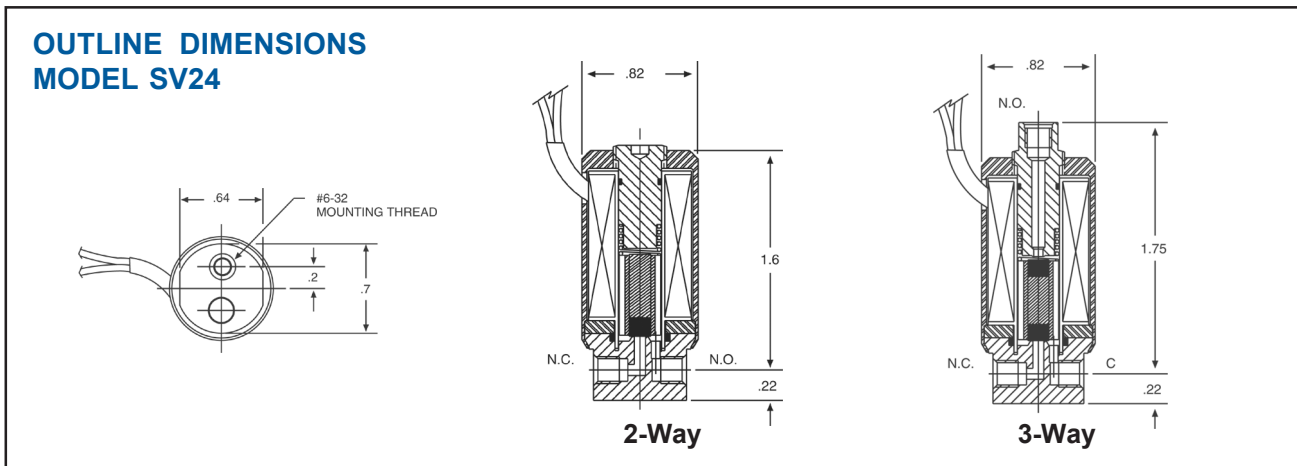
Ports: 10-32 Thread

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PERFORMANCE SPECIFICATIONS



Model No.	Volts VDC	Orifice Size	C _v	Configuration	Pressure	Vacuum
SV2412DB12	12	.055	.05	2-way N.C	100	28in. Hg
SV2412DB22	12	.078	.11	2-way N.C.	35	28in. Hg
SV2424DB12	24	.055	.05	2-way N.C.	100	28in. Hg
SV2424DB22	24	.078	.11	2-way N.C.	35	28in. Hg
SV2412DB13	12	.055	.05	3-way N.C/NO.	100	28in. Hg
SV2412DB23	12	.078	.11	3-way NC/NO	35	28in. Hg
SV2424DB13	24	.055	.05	3-way NC/NO	100	28in. Hg
SV2424DB23	24	.078	.11	3-way NC/NO	35	28in. Hg



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