L-39

3- AND 4-WAY SOLENOID VALVES
DIRECT-ACTING OR PILOT-OPERATED, NORMALLY OPEN
OR CLOSED, BRASS VALVE BODY

SV240 Series 3-Way General Purpose
SV250 Series 3-Way Switchable NO/NC
SV260 Series 3-Way Quick Exhaust
SV270 Series 4-Way General Purpose

- General Purpose, Quick Exhaust, and Selectable NO/NC Models
- Rugged NEMA 4 (IP65) Housing
- Mounts in Any Position
- Rated for Continuous Duty

TYPICAL APPLICATIONS
- Mobile Equipment
- Gas Sampling
- Compressors
- Ball Valve Actuators
- Cylinders
- Dispensing
- Laundry Equipment
- Machine Tool Equipment

The SV241, SV242, and SV261 Series valves are 3-way, direct-acting, and normally closed. The SV241 and SV242 can be used for liquids or gases, while the SV261 offers a quick-exhaust feature and is limited to air use. The most common application for these 3-way valves is the control of single-acting cylinders or spring-return actuators. The pressure inlet port is blocked in the de-energized position.

A 3-way normally closed valve has 3 ports labeled 1, 2, and 3. When de-energized, no flow occurs from port 1, but there is flow from port 2 to 3. When energized, flow occurs from port 1 to 2, but no flow occurs from port 3. Usually, 3-way valves are used to control larger pneumatically activated valves. Port 1 is connected to the pressure source, port 2 is connected to the cylinder controlling the pneumatic activation, and port 3 is the exhaust port vented to the room.

The SV251 is a multipurpose 3-way valve and can be used as normally open or normally closed. During installation, for normally closed select port 1 as supply pressure. Port 2 is connected to the pneumatic cylinder, and port 3 is the exhaust port. To configure as normally open, select port 3 as supply pressure. Port 2 is connected to the pneumatic cylinder, and port 1 is the exhaust port. The SV251 can be used for liquids or gases.

The SV271 is a 4-way, 5-ported solenoid valve, rated for air applications only. It is a 2-position, pilot-operated valve typically used to control double-acting cylinders or pneumatic actuators. A 4-way valve has ports labeled 1, 2, 3, 4, and...
5. When de-energized, pressure is supplied to port 1, which is open to cylinder port 4 and closed to cylinder port 2. Port 4 is closed to exhaust port 3. When energized, pressure port 1 is closed to cylinder port 4 and open to cylinder port 2. Cylinder port 2 is closed to exhaust port 3. Cylinder port 4 is open to exhaust port 5.

**SPECIFICATIONS**

**Operation:**
- SV241, SV242 and SV251: Direct acting
- SV261, SV271: Pilot operated

**Wetted Parts:** Brass, stainless steel, copper and seal
- SV241: Also Delrin
- SV271: Aluminum, Delrin, stainless steel, copper and seal

**Medium:** Liquid or gases as specified in “To Order” chart
**Max Static Pressure:** 5 times max psid
**Ambient Temp:** -9 to 50°C (15 to 122°F)
**Mounting:** Pipe mounting, any direction
**Power:** 10 W, 120 Vac coils, 50 to 60 Hz

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**ACCESSORIES**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>SVCOIL-110AC</td>
<td>Replacement coil, 110 Vac</td>
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<tr>
<td>SVCOIL-220AC</td>
<td>Replacement coil, 220 Vac</td>
</tr>
<tr>
<td>SVCOIL-24VDC</td>
<td>Replacement coil, 24 Vdc</td>
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</tbody>
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**Note:** Some solenoid valves are available with 24 Vdc coils. Five piece minimum order. UL approval is not available with 24 Vdc coils.
Specifications affected; pressure rating may decrease; coil wattage ratings may increase. Consult Engineering.

**Ordering Examples:** SV251, 3-way direct-acting valve, user-selectable NO/NC with brass body and 1/8 NPT fitting with FKM seal.
SV271, 4-way general purpose, pilot operated, NC with aluminum body 1/8 NPT fitting and Buna-N seal.