SV100 series

5-PORT / 2-POSITION

SV110

5-PORT / 3-POSITION

SV130

SV140

SV150

5-PORT / 3-POSITION

(A) Closed center

(B) Exhaust center

(C) Pressure center

- Width 18 mm
- Large flow capacity - (Cv0.53)
- Effective area 9.5 mm²
- Low power consumption - 1.7W (DC)
- Various electrical entries

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SV110</th>
<th>SV120</th>
<th>SV130</th>
<th>SV150</th>
<th>SV140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Air or Inert Gases</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Pressure range (kgf/cm²)</td>
<td>0.15<del>0.7 (1.5</del>7)</td>
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</tr>
<tr>
<td>Effective area (mm²)</td>
<td>9.5 (0.53)</td>
<td>8.5 (0.48)</td>
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<tr>
<td>Ambient and media temp.</td>
<td>Max. 50°C</td>
<td></td>
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<tr>
<td>Response time (Sec/cm³)</td>
<td>20 ms or less</td>
<td>35 ms or less</td>
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<tr>
<td>Max. Cycles/Second</td>
<td>10 C/S</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lubrication</td>
<td>Not required</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Manual override operation</td>
<td>Non-locking push type</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Shock/Vibration resistance</td>
<td>30G / 5G (5~2,000 Hz)</td>
<td></td>
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<tr>
<td>Protective structure</td>
<td>Dust-proof</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coil rated voltage</td>
<td>AC 50 / 60 Hz 110V, 220V DC 12V, 24V</td>
<td></td>
<td></td>
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<tr>
<td>Allowable voltage tolerance</td>
<td>–15%~+10% of rated voltage</td>
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<td></td>
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<tr>
<td>Coil insulation</td>
<td>Class B or equivalent (130°C)</td>
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<tr>
<td>Power consumption</td>
<td>DC 1.7W</td>
<td></td>
<td></td>
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<tr>
<td>Weight (kg)</td>
<td>0.1</td>
<td>0.15</td>
<td>0.16</td>
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<tr>
<td>Surge suppressor</td>
<td>AC Varistor, DC Diode</td>
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<td></td>
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<tr>
<td>Indicator lamp</td>
<td>LED</td>
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</tbody>
</table>

HOW TO ORDER

SV 1 1 0 - 2 L

- PORT SIZE RC(PT) 1/8
- ELECTRICAL ENTRY

- CONFIGURATION
  1. Single solenoid
  2. Double solenoid
  3. Closed center
  4. Exhaust center
  5. Pressure center

- COIL RATED VOLTAGE
  1. AC 110V
  2. AC 220V
  3. DC 12V
  4. DC 24V

- Without sub-base
- Plug connector with lamp
- Plug connector with lamp & surge suppressor
- DIN terminal
- DIN terminal with lamp
- DIN terminal with lamp & surge suppressor

* Only PS types are available for plug connector for DC.
### CONSTRUCTION/PARTS

#### 2-position Single Solenoid

![Diagram of 2-position Single Solenoid]

#### 2-position Double Solenoid

![Diagram of 2-position Double Solenoid]

#### 3-position Double Solenoid

![Diagram of 3-position Double Solenoid]

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<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>①</td>
<td>BODY</td>
<td>ADC-12</td>
<td>⑤</td>
<td>END COVER</td>
<td>PLASTIC</td>
</tr>
<tr>
<td>②</td>
<td>PISTON PLATE</td>
<td>POLYACETAL</td>
<td>⑥</td>
<td>O-RING</td>
<td>NBR</td>
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<tr>
<td>③</td>
<td>PISTON</td>
<td>POLYACETAL</td>
<td>⑦</td>
<td>SPRING</td>
<td>SUS</td>
</tr>
<tr>
<td>④</td>
<td>SPOOL</td>
<td>AI NBR</td>
<td>⑧</td>
<td>COIL ASS'Y</td>
<td></td>
</tr>
</tbody>
</table>
SV110-□L
Lead Wire (L)

SV110-□PL/PS
Plug Connector (PL, PS)

SV110-□D/DL/DS
DIN Terminal (D, DL, DS)
SV120-□L
Lead Wire (L)

SV120-□PL/PS
Plug Connector (PL, PS)

SV120-□D/DL/DS
DIN Terminal (D, DL, DS)
SV130/140/150-□L
Lead Wire (L)

SV130/140/150-□PL/PS
Plug Connector (PL, PS)

SV130/140/150-□D/DL/DS
DIN Terminal (D, DL, DS)