**Series SX3000/5000/7000**

**Body Ported**

**Valve Single Unit**

---

**How to Order**

**Series**

<table>
<thead>
<tr>
<th>3</th>
<th>SX3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>SX5000</td>
</tr>
<tr>
<td>7</td>
<td>SX7000</td>
</tr>
</tbody>
</table>

**Type of actuation**

1. 2 position single
   - A: Push-turn locking slotted type
   - B: Nil: Non-locking push type
2. 2 position double
   - A (B): Nil: Without light/surge voltage suppressor
3. 3 position closed center
   - A: With surge voltage suppressor
   - B: With light/surge voltage suppressor
4. 3 position exhaust center
5. 3 position pressure center

**Rated voltage**

- 5: 24 VDC
- 6: 12 VDC
- V: 6 VDC
- S: 5 VDC
- R: 3 VDC

**Common specifications**

- Nil: Positive common
- N: Negative common

**Note:** Put nothing for single grommet style and single without indicator light and surge voltage suppressor.

**Light/Surge voltage suppressor**

- Nil: Without light/surge voltage suppressor
- S: With surge voltage suppressor
- Z: With light/surge voltage suppressor

**Electrical entry**

- G: Lead wire length 300 mm
- L: With lead wire (Length 300 mm)
- M: With lead wire (Length 300 mm)
- MN: Without lead wire
- LO: Without connector
- MO: Without connector

**Manual override**

- D: Push-turn locking slotted type

**Thread type**

<table>
<thead>
<tr>
<th>Nil</th>
<th>Rc</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>G</td>
</tr>
<tr>
<td>N</td>
<td>NPT</td>
</tr>
<tr>
<td>T</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

**A, B port size**

**Thread piping**

**One-touch fitting (Metric size)**

- Symbol | Port size | Applicable series
- M5     | M5 x 0.8 | SX3000
- 01     | ¼       | SX5000
- 02     | ⅜       | SX7000

**One-touch fitting (Inch size)**

- Symbol | Port size | Applicable series
- N3     | One-touch fitting for ø5/32" | SX3000
- N7     | One-touch fitting for ø1/4"   | SX5000
- N9     | One-touch fitting for ø5/16"  | SX7000
- N11    | One-touch fitting for ø3/8"   | SX7000

---

**Bracket**

- F1: With foot bracket
- F2: With side bracket

---

**With foot bracket**

**With side bracket**

---

**One-touch fitting**

- Symbol | Port size | Applicable series
- N3     | One-touch fitting for ø5/32" | SX3000
- N7     | One-touch fitting for ø1/4"   | SX5000
- N9     | One-touch fitting for ø5/16"  | SX7000
- N11    | One-touch fitting for ø3/8"   | SX7000

---

**For details about certified products conforming to international standards, visit us at www.smcworld.com.**

---

**Electrical entry**

- **Grommet**
  - H: Lead wire length 300 mm
  - LN: Without lead wire
- **L plug connector**
  - L: With lead wire (Length 300 mm)
  - LN: Without lead wire
- **M plug connector**
  - M: With lead wire (Length 300 mm)
  - LO: Without connector
- **Nil:** Without bracket
- **F1:** With foot bracket
- **F2:** With side bracket

---

**How to Order**

**Series SX3000/5000/7000**

**Body Ported**

**Valve Single Unit**

---

**Electrical entry**

- **Grommet**
  - H: Lead wire length 300 mm
  - LN: Without lead wire
- **L plug connector**
  - L: With lead wire (Length 300 mm)
  - LN: Without lead wire
- **M plug connector**
  - M: With lead wire (Length 300 mm)
  - LO: Without connector
  - MO: Without connector

---

**The LN or MN option includes 2 sockets for single solenoid valves and 3 sockets for double solenoid valves.**

---

**Common specifications**

- Nil: Positive common
- N: Negative common

**Note:** Put nothing for single grommet style and single without indicator light and surge voltage suppressor.

---

**Thread type**

- Nil | Rc |
- F   | G  |
- N   | NPT|
- T   | NPTF|

---

**A, B port size**

---

**Thread piping**

**One-touch fitting (Metric size)**

- Symbol | Port size | Applicable series
- M5     | M5 x 0.8 | SX3000
- 01     | ¼       | SX5000
- 02     | ⅜       | SX7000

---

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**Electrical entry**

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  - LN: Without lead wire
- **L plug connector**
  - L: With lead wire (Length 300 mm)
  - LN: Without lead wire
- **M plug connector**
  - M: With lead wire (Length 300 mm)
  - LO: Without connector
  - MO: Without connector

---

**How to Order**

**Series SX3000/5000/7000**

**Body Ported**

**Valve Single Unit**

---

**Electrical entry**

- **Grommet**
  - H: Lead wire length 300 mm
  - LN: Without lead wire
- **L plug connector**
  - L: With lead wire (Length 300 mm)
  - LN: Without lead wire
- **M plug connector**
  - M: With lead wire (Length 300 mm)
  - LO: Without connector
  - MO: Without connector

---

**The LN or MN option includes 2 sockets for single solenoid valves and 3 sockets for double solenoid valves.**

---

**Common specifications**

- Nil: Positive common
- N: Negative common

**Note:** Put nothing for single grommet style and single without indicator light and surge voltage suppressor.
## Specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>SX3000</th>
<th>SX5000</th>
<th>SX7000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal pilot</td>
<td>2 position single</td>
<td>0.15 to 0.7</td>
<td>0.15 to 0.7</td>
</tr>
<tr>
<td></td>
<td>2 position double</td>
<td>0.1 to 0.7</td>
<td>0.1 to 0.7</td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>0.2 to 0.7</td>
<td>0.2 to 0.7</td>
</tr>
<tr>
<td>Operating pressure range (MPa)</td>
<td>2 position single, double</td>
<td>Max. 10</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ambient and fluid temperature (°C)</td>
<td>Max. 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. operating frequency (Hz)</td>
<td>2 position single, double</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Manual override</td>
<td>Non-locking push type, Push-turn locking slotted type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pilot exhaust method</td>
<td>Common exhaust type for main and pilot valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting orientation</td>
<td>Unrestricted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact/Vibration resistance (m/s²)max</td>
<td>150/30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>Dusttight</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Made to Order Specifications

(For details, refer to pages 1-6-124 to 1-6-138.)

---

## Solenoid Specifications

<table>
<thead>
<tr>
<th>Electrical entry</th>
<th>Grommet (G)/(H), L plug connector (L), M plug connector (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil rated voltage (V)</td>
<td>DC</td>
</tr>
<tr>
<td>Allowable voltage fluctuation</td>
<td>±10% of rated voltage</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>DC</td>
</tr>
<tr>
<td>Surge voltage suppressor</td>
<td>Diode</td>
</tr>
<tr>
<td>Indicator light</td>
<td>LED</td>
</tr>
</tbody>
</table>

## Response Time

**Note:** Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage)

### SX3000

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Response time (ms) (at the pressure of 0.5 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without light/surge voltage suppressor</td>
<td>With light/surge voltage suppressor</td>
</tr>
<tr>
<td>S, Z type</td>
<td></td>
</tr>
<tr>
<td>2 position single</td>
<td>12 or less</td>
</tr>
<tr>
<td>2 position double</td>
<td>10 or less</td>
</tr>
<tr>
<td>3 position</td>
<td>15 or less</td>
</tr>
</tbody>
</table>

### SX5000

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Response time (ms) (at the pressure of 0.5 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without light/surge voltage suppressor</td>
<td>With light/surge voltage suppressor</td>
</tr>
<tr>
<td>S, Z type</td>
<td></td>
</tr>
<tr>
<td>2 position single</td>
<td>19 or less</td>
</tr>
<tr>
<td>2 position double</td>
<td>18 or less</td>
</tr>
<tr>
<td>3 position</td>
<td>32 or less</td>
</tr>
</tbody>
</table>

### SX7000

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Response time (ms) (at the pressure of 0.5 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without light/surge voltage suppressor</td>
<td>With light/surge voltage suppressor</td>
</tr>
<tr>
<td>S, Z type</td>
<td></td>
</tr>
<tr>
<td>2 position single</td>
<td>31 or less</td>
</tr>
<tr>
<td>2 position double</td>
<td>27 or less</td>
</tr>
<tr>
<td>3 position</td>
<td>50 or less</td>
</tr>
</tbody>
</table>
## Model/Series SX7000

<table>
<thead>
<tr>
<th>Valve model</th>
<th>Type of actuation</th>
<th>Port size</th>
<th>Flow characteristics</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX7□□□□-□-□-02</td>
<td>Single</td>
<td>1, 5, 3 (P, EA, EB)</td>
<td></td>
<td>108</td>
</tr>
<tr>
<td></td>
<td>Double</td>
<td>4, 2 (A, B)</td>
<td></td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>Closed center</td>
<td>Rc 1/4</td>
<td></td>
<td>116</td>
</tr>
<tr>
<td></td>
<td>Exhaust center</td>
<td></td>
<td></td>
<td>117</td>
</tr>
<tr>
<td></td>
<td>Pressure center</td>
<td></td>
<td></td>
<td>125</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>126</td>
</tr>
<tr>
<td>SX7□□□□-□-□-C8</td>
<td>Single</td>
<td>1(P) port</td>
<td>Rc 1/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Double</td>
<td>5, 3 (EA, EB)</td>
<td>Port</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Closed center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exhaust center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pressure center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SX7□□□□-□-□-□-C10</td>
<td>Single</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Double</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Flow characteristics

<table>
<thead>
<tr>
<th>Port</th>
<th>Flow area (dm²/s/bar)</th>
<th>Cv</th>
<th>Flow area (dm²/s/bar)</th>
<th>Cv</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>4.1</td>
<td>0.23</td>
<td>3.3</td>
<td>0.33</td>
</tr>
<tr>
<td>1/4</td>
<td>2.9</td>
<td>0.31</td>
<td>2.4</td>
<td>0.38</td>
</tr>
<tr>
<td>1/4</td>
<td>2.5</td>
<td>0.39</td>
<td>2.6 [1.9]</td>
<td>0.42 [0.46]</td>
</tr>
<tr>
<td>1/4</td>
<td>4.3 [2.4]</td>
<td>0.23 [0.32]</td>
<td>0.97 [0.61]</td>
<td>2.2</td>
</tr>
<tr>
<td>1/4</td>
<td>3.2</td>
<td>0.26</td>
<td>0.77</td>
<td>0.37</td>
</tr>
<tr>
<td>1/4</td>
<td>2.6</td>
<td>0.24</td>
<td>0.63</td>
<td>0.31</td>
</tr>
<tr>
<td>1/4</td>
<td>2.4</td>
<td>0.25</td>
<td>0.57</td>
<td>0.34</td>
</tr>
<tr>
<td>1/4</td>
<td>3.3 [2.4]</td>
<td>0.28 [0.22]</td>
<td>0.78 [0.57]</td>
<td>0.34 [0.22]</td>
</tr>
<tr>
<td>1/4</td>
<td>3.8</td>
<td>0.26</td>
<td>0.86</td>
<td>0.34</td>
</tr>
<tr>
<td>1/4</td>
<td>2.8</td>
<td>0.27</td>
<td>0.87</td>
<td>0.21</td>
</tr>
<tr>
<td>1/4</td>
<td>2.5</td>
<td>0.25</td>
<td>0.59</td>
<td>0.38</td>
</tr>
<tr>
<td>1/4</td>
<td>3.8 [2.4]</td>
<td>0.25 [0.31]</td>
<td>0.89 [0.61]</td>
<td>2.3</td>
</tr>
</tbody>
</table>

### Notes
- [] Denotes normal position.

---

**Note:** [ ] Denotes normal position.
Series SX

JIS Symbol

2 position single

2 position double

3 position closed center/exhaust center/pressure center

Component Parts

No. Description Material Note

1 Body Aluminum die-casted [SX3000, Zinc die-casted] White
2 Adapter plate Resin White
3 End plate Resin White
4 Pilot body Resin White
5 Piston Resin —
6 Spool valve assembly Aluminum, HNBR —
7 Molded coil Resin Gray

Replacement Parts

No. Description Part no.

3 Port block assembly See “How to Order Port Block Assembly” on page 1-6-7.

Bracket Assembly No.

Description Part no.

Bracket (For F1) SX 000-16-1A (With mounting screw)
Bracket (For F2) SX 000-16-2A (With mounting screw)

How to Order Connector Assembly for L/M Plug Connector

Positive common specifications
For single solenoid: SX100-40-4S
For double solenoid, 3 position: SX100-40-4D

Negative common specifications
For single solenoid: SX100-41-4S
For double solenoid, 3 position: SX100-41-4D

Lead wire length

<table>
<thead>
<tr>
<th>Length</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>300</td>
</tr>
<tr>
<td>10</td>
<td>600</td>
</tr>
<tr>
<td>15</td>
<td>1500</td>
</tr>
<tr>
<td>20</td>
<td>2000</td>
</tr>
<tr>
<td>25</td>
<td>2500</td>
</tr>
<tr>
<td>30</td>
<td>3000</td>
</tr>
<tr>
<td>50</td>
<td>5000</td>
</tr>
</tbody>
</table>

For detailed information on connector assembly, refer to page 1-6-8.
How to Change Port Block Assembly

The cylinder port block assembly can easily be changed. When changing block assembly, correct screw torque must be achieved. Cut off the air supply to confirm that no air is left in the manifold before starting operation. Remaining air or inappropriate installation may cause an accident.

● For SX5000

Caution
Mounting screw tightening torques
SX3000(M2): 0.17 N·m  SX3000(M3): 0.8 N·m

* Refer to “How to Order Port Block Assembly” below for parts no.

How to Order Port Block Assembly

SY 000—6A

Series
Symbol  Series
3  SX3000
5  SX5000
7  SX7000

Thread type
Symbol  Port size  Applicable series
N  0.8  SX3000
F  1/8  SX5000
G  1/4  SX7000

One-touch fitting (Metric size)
Symbol  Port size  Applicable series
C4  One-touch fitting for ø4  SX3000
C5  One-touch fitting for ø6  SX5000
C6  One-touch fitting for ø8  SX7000
C8  One-touch fitting for ø8  SX7000
C10 One-touch fitting for ø10  SX5000

One-touch fitting (Inch size)
Symbol  Port size  Applicable series
N3  One-touch fitting for ø5/32"  SX3000
N7  One-touch fitting for ø1/4"  SX5000
N9  One-touch fitting for ø5/16"  SX7000
N11 One-touch fitting for ø3/8"  SX7000

* Only replacement of the fittings assembly is possible.

Metric size

<table>
<thead>
<tr>
<th>Series</th>
<th>One-touch fitting (Metric size)</th>
<th>Applicable series</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX3000</td>
<td>One-touch fitting for ø4</td>
<td>VVQ1000-50A-C4</td>
</tr>
<tr>
<td>SX4000</td>
<td>One-touch fitting for ø6</td>
<td>VVQ1000-50A-C6</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø6</td>
<td>VVQ1000-51A-C6</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø8</td>
<td>VVQ1000-51A-C8</td>
</tr>
<tr>
<td>SX7000</td>
<td>One-touch fitting for ø8</td>
<td>VVQ2000-51A-C8</td>
</tr>
<tr>
<td>SX7000</td>
<td>One-touch fitting for ø10</td>
<td>VVQ2000-51A-C10</td>
</tr>
</tbody>
</table>

Inch size

<table>
<thead>
<tr>
<th>Series</th>
<th>One-touch fitting (Inch size)</th>
<th>Applicable series</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX3000</td>
<td>One-touch fitting for ø5/32&quot;</td>
<td>VVQ1000-50A-N3</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø1/4&quot;</td>
<td>VVQ1000-50A-N7</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø5/32&quot;</td>
<td>VVQ1000-51A-N3</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø1/4&quot;</td>
<td>VVQ1000-50A-N7</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø5/16&quot;</td>
<td>VVQ1000-50A-N9</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø5/16&quot;</td>
<td>VVQ2000-51A-N9</td>
</tr>
<tr>
<td>SX5000</td>
<td>One-touch fitting for ø3/8&quot;</td>
<td>VVQ2000-51A-N11</td>
</tr>
</tbody>
</table>

* Only replacement of the fittings assembly is possible.
Dimensions: Series SX7000

2 position single
Grommet (G), (H): SX7120-□□□-□□□(F2)

Foot bracket
SX7120-□□□-□□□(F1)

Polarity indication

Foot bracket

SX7120-□□□-□□□-□□□-F1

2-ø4.2
(Mounting hole for manifold)

2-M4 x 0.7 depth 6.5
(For mounting bracket)

2-One-touch fittings
(A, B port)
Applicable tubing
O.D.: ø8
ø10

Manual override
(Press and turn for the locking type.)

2-One-touch fittings
(A, B port)
Applicable tubing
O.D.: ø8
ø10

2-Rc 1/8
(EA, EB port)

Polarity indication

2-ø2.2 die-cast hole
For manifold gasket positioning

L plug connector (L): SX7120-□□□-□□□-□□□(F2)

M plug connector (M): SX7120-□□□-□□□-□□□(F2)
2 position double Grommet (G), (H): SX7220-□□□□□□□(-F2)

Foot bracket SX7220-□□□□□□□-F1

L plug connector (L): SX7220-□□□□□□□

M plug connector (M): SX7220-□□□□□□□
Dimensions: Series SX7000

3 position closed center/exhaust center/pressure center
Grommet (G), (H): SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\) (-F2)

Manual override
(Push and turn for locking)
A: Orange
B: Green

Polarity indication
(Light/Surge voltage suppressor)

Applicable tubing O.D.: ø8 ø10

Mounting hole for manifold

Rc 1/4

2-ø 4.2
die-cast holes
For manifold gasket positioning

L plug connector (L): SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\)

M plug connector (M): SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\)

Foot bracket
SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\) -F1

Foot bracket
SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\) -F1

Manual override
(Press and turn for the locking type)
A: Orange
B: Green

Polarity indication
(Light/Surge voltage suppressor)

Mounting hole for manifold

Rc 1/4

2-ø 4.2
die-cast holes
For manifold gasket positioning

2-One-touch fittings
(A, B port)
Applicable tubing O.D.: ø8 ø10

(Mounting holes for manifold)

Foot bracket
SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\) -F1

Foot bracket
SX7\(\frac{3}{2}\) 20-□□□□□□□\(\frac{C_8}{C_{10}}\) -F1

Manual override
(Push and turn for locking)
A: Orange
B: Green

Polarity indication
(Light/Surge voltage suppressor)

Applicable tubing O.D.: ø8 ø10

Mounting hole for manifold

Rc 1/4

2-ø 4.2
die-cast holes
For manifold gasket positioning

2-One-touch fittings
(A, B port)
Applicable tubing O.D.: ø8 ø10

(Mounting holes for manifold)
Series **SX3000/5000/7000**

**Base Mounted**

**Valve Single Unit**

---

### How to Order

<table>
<thead>
<tr>
<th>SX</th>
<th>5</th>
<th>2</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>SX3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>SX5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>SX7000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of actuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

- **Series**
- **Type of actuation**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Applicable series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Without sub-plate</td>
<td>SX3000</td>
</tr>
<tr>
<td>01</td>
<td>1/8</td>
<td>SX5000</td>
</tr>
<tr>
<td>02</td>
<td>¼</td>
<td>SX5000/SX7000</td>
</tr>
<tr>
<td>03</td>
<td>¾</td>
<td>SX7000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
</tr>
<tr>
<td>F</td>
</tr>
<tr>
<td>N</td>
</tr>
<tr>
<td>T</td>
</tr>
</tbody>
</table>

### Manual override

- **Nil**: Non-locking push type
- **D**: Push-turn locking slotted type

### Thread type

- Nil
- Rc
- G
- N
- NPT
- T
- NPTF

### Port size

- Nil: Without sub-plate
- 01: 1/8
- 02: ¼
- 03: ¾

### Electrical entry

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Grommet</th>
<th>L plug connector</th>
<th>M plug connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>G</td>
<td>L: With lead wire (Length 300 mm)</td>
<td>M: With lead wire (Length 300 mm)</td>
</tr>
<tr>
<td>N</td>
<td>H</td>
<td>L: Without lead wire</td>
<td>M: Without lead wire</td>
</tr>
<tr>
<td>N</td>
<td>LN:</td>
<td>L: Without lead wire</td>
<td>M: Without lead wire</td>
</tr>
<tr>
<td>R</td>
<td>R</td>
<td>L: Without connector</td>
<td>M: Without connector</td>
</tr>
</tbody>
</table>

### Light/ Surge voltage suppressor

- **Nil**: Without light/surge voltage suppressor
- **S**: With surge voltage suppressor
- **Z**: With light/surge voltage suppressor

### Rated voltage

- Nil: 24 VDC
- 01: 12 VDC
- 02: 6 VDC
- 03: 5 VDC
- R: 3 VDC

### Pilot type

- Nil: Internal pilot
- 01: 1/8
- 02: ¼
- 03: ¾
- R: External pilot

### Common specifications

- Nil: Positive common
- N: Negative common

Note: Put nothing for single grommet style and single without indicator light and surge voltage suppressor.

The LN or MN option includes 2 sockets for single solenoid valves and 3 sockets for double solenoid valves.
### Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Series</th>
<th>SX3000</th>
<th>SX5000</th>
<th>SX7000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal pilot</td>
<td>2 position single</td>
<td>0.15 to 0.7</td>
<td>0.1 to 0.7</td>
<td>0.2 to 0.7</td>
</tr>
<tr>
<td>Operating pressure range (MPa)</td>
<td>2 position double</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 position</td>
<td></td>
<td>0.25 to 0.7</td>
<td>0.25 to 0.7</td>
<td>0.25 to 0.7</td>
</tr>
<tr>
<td>External pilot</td>
<td>Operating pressure range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pilot pressure range</td>
<td>2 position single</td>
<td>0.25 to 0.7</td>
<td>0.25 to 0.7</td>
<td>0.25 to 0.7</td>
</tr>
<tr>
<td>3 position</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient and fluid temperature (°C)</td>
<td>Max. 50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. operating frequency (Hz)</td>
<td>2 position single, double</td>
<td>10</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>3 position</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Manual override</td>
<td>Internal pilot</td>
<td>Non-locking push type, Push-turn locking slotted type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pilot exhaust method</td>
<td>External pilot</td>
<td>Common exhaust type for main and pilot valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting orientation</td>
<td>Unrestricted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact/Vibration resistance (m/s²)</td>
<td>150/30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Solenoid Specifications

<table>
<thead>
<tr>
<th>Electrical entry</th>
<th>Grommet (G)/(H), L plug connector (L), M plug connector (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil rated voltage (V)</td>
<td>DC</td>
</tr>
<tr>
<td>Allowable voltage fluctuation</td>
<td>±10% of rated voltage</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>DC</td>
</tr>
<tr>
<td>Surge voltage suppressor</td>
<td>Diode</td>
</tr>
<tr>
<td>Indicator light</td>
<td>LED</td>
</tr>
</tbody>
</table>

### Response Time

**Note**: Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage)

#### SX3000

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Response time (ms) (at the pressure of 0.5 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without light/surge voltage suppressor</td>
<td>With light/surge voltage suppressor</td>
</tr>
<tr>
<td>S, Z type</td>
<td></td>
</tr>
<tr>
<td>2 position single</td>
<td>12 or less</td>
</tr>
<tr>
<td>2 position double</td>
<td>10 or less</td>
</tr>
<tr>
<td>3 position</td>
<td>15 or less</td>
</tr>
</tbody>
</table>

#### SX5000

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Response time (ms) (at the pressure of 0.5 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without light/surge voltage suppressor</td>
<td>With light/surge voltage suppressor</td>
</tr>
<tr>
<td>S, Z type</td>
<td></td>
</tr>
<tr>
<td>2 position single</td>
<td>19 or less</td>
</tr>
<tr>
<td>2 position double</td>
<td>18 or less</td>
</tr>
<tr>
<td>3 position</td>
<td>32 or less</td>
</tr>
</tbody>
</table>

#### SX7000

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Response time (ms) (at the pressure of 0.5 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without light/surge voltage suppressor</td>
<td>With light/surge voltage suppressor</td>
</tr>
<tr>
<td>S, Z type</td>
<td></td>
</tr>
<tr>
<td>2 position single</td>
<td>31 or less</td>
</tr>
<tr>
<td>2 position double</td>
<td>27 or less</td>
</tr>
<tr>
<td>3 position</td>
<td>50 or less</td>
</tr>
</tbody>
</table>
## Flow Characteristics/Weight

### Model/Series SX3000

<table>
<thead>
<tr>
<th>Valve model</th>
<th>Type of actuation</th>
<th>Port size</th>
<th>Flow characteristics</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX3□40□-01</td>
<td>Single 2 position</td>
<td>Rc 1/8</td>
<td>1.0 0.30 0.24</td>
<td>100 (66)</td>
</tr>
<tr>
<td></td>
<td>Double 3 position</td>
<td>Closed center</td>
<td>0.77 0.28 0.18</td>
<td>108 (74)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exhaust center</td>
<td>0.73 0.31 0.18</td>
<td>111 (76)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure center</td>
<td>1.2 [0.51] 0.24 [0.45] 0.29 [0.14] 0.89</td>
<td>111 (76)</td>
</tr>
</tbody>
</table>

**Note 1:** [ ] Denotes the normal position.

**Note 2:** ( ) Without sub-plate.

### Model/Series SX5000

<table>
<thead>
<tr>
<th>Valve model</th>
<th>Type of actuation</th>
<th>Port size</th>
<th>Flow characteristics</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX5□40□-02</td>
<td>Single 2 position</td>
<td>Rc 1/4</td>
<td>2.4 0.41 0.64</td>
<td>136 (74)</td>
</tr>
<tr>
<td></td>
<td>Double 3 position</td>
<td>Closed center</td>
<td>1.8 0.47 0.50</td>
<td>144 (82)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exhaust center</td>
<td>1.4 0.55 0.44</td>
<td>149 (87)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure center</td>
<td>3.3 [0.84] 0.36 [0.60] 0.85 [0.28] 1.8 0.40 0.48</td>
<td>151 (89)</td>
</tr>
</tbody>
</table>

**Note 1:** [ ] Denotes the normal position.

**Note 2:** ( ) Without sub-plate.

### Model/Series SX7000

<table>
<thead>
<tr>
<th>Valve model</th>
<th>Type of actuation</th>
<th>Port size</th>
<th>Flow characteristics</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SX7□40□-02</td>
<td>Single 2 position</td>
<td>Rc 1/4</td>
<td>4.1 0.41 1.1</td>
<td>222 (100)</td>
</tr>
<tr>
<td></td>
<td>Double 3 position</td>
<td>Closed center</td>
<td>3.0 0.43 0.80</td>
<td>229 (107)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exhaust center</td>
<td>2.6 0.42 0.71</td>
<td>238 (116)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure center</td>
<td>5.3 [2.3] 0.39 [0.49] 1.3 [0.65] 2.2 0.49 0.63</td>
<td>240 (118)</td>
</tr>
<tr>
<td>SX7□40□-03</td>
<td>Single 2 position</td>
<td>Rc 3/8</td>
<td>4.9 0.29 1.2</td>
<td>222 (100)</td>
</tr>
<tr>
<td></td>
<td>Double 3 position</td>
<td>Closed center</td>
<td>3.0 0.40 0.80</td>
<td>229 (107)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exhaust center</td>
<td>2.6 0.42 0.71</td>
<td>238 (116)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure center</td>
<td>5.3 [2.3] 0.31 [0.51] 1.3 [0.64] 2.3 0.45 0.66</td>
<td>240 (118)</td>
</tr>
</tbody>
</table>

**Note 1:** [ ] Denotes the normal position.

**Note 2:** ( ) Without sub-plate.
### Construction

#### Series SX

**JIS Symbol**
- 2 position single
- 2 position double
- 3 position closed center/exhaust center/pressure center

---

#### How to Order Connector Assembly for L/M Plug Connector

**Positive common specifications**
- For single solenoid: SX100-40-4S
- For double solenoid, 3 position: SX100-40-4D

**Negative common specifications**
- For single solenoid: SX100-41-4S
- For double solenoid, 3 position: SX100-41-4D

**Lead wire length**
- Nil: 300 mm
- 6: 600 mm
- 10: 1000 mm
- 15: 1500 mm
- 20: 2000 mm
- 25: 2500 mm
- 30: 3000 mm
- 50: 5000 mm

---

#### Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum die-casted (SX3000: Zinc die-casted)</td>
<td>White</td>
</tr>
<tr>
<td>2</td>
<td>Adapter plate</td>
<td>Resin</td>
<td>White</td>
</tr>
<tr>
<td>3</td>
<td>End plate</td>
<td>Resin</td>
<td>White</td>
</tr>
<tr>
<td>4</td>
<td>Pilot body</td>
<td>Resin</td>
<td>White</td>
</tr>
<tr>
<td>5</td>
<td>Piston</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Spool valve assembly</td>
<td>Aluminum, HNBR</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Molded coil</td>
<td>Resin</td>
<td>Gray</td>
</tr>
</tbody>
</table>

**Replacement Parts**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Sub-plate</td>
<td>SY3000-27-1</td>
<td>1/2: SY5000-27-1 HNBR Aluminum die-casted</td>
</tr>
<tr>
<td>9</td>
<td>Gasket</td>
<td>SY3000-11-25</td>
<td>SY5000-11-15 HNBR</td>
</tr>
<tr>
<td>10</td>
<td>Round head combination screw</td>
<td>SX3000-22-2 (M2 x 24)</td>
<td>M3 x 30, M4 x 35 For valve mounting (Matt nickel plated)</td>
</tr>
</tbody>
</table>

---

**Mounting Screw Tightening Torques**
- M2: 0.17 N·m
- M3: 0.8 N·m
- M4: 1.4 N·m

---

**Caution**

For detailed information on connector assembly, refer to page 1-6-8.
Base Mounted

Series SX3000/5000/7000

Dimensions: Series SX7000

2 position single
Grommet (G), (H): SX7140(R)-□□□□□

Polarity indication
(Press and turn for the locking type.)

L plug connector (L): SX7140(R)-□□□□□

M plug connector (M): SX7140(R)-□□□□□

A: Orange
B: Green

Manual override
(Press and turn for the locking type.)

Piping port
M5 x 0.8
(Pilot EXH port)

Light/Surge voltage suppressor

Mounting hole

Lead wire length
≅ 300

Series SX3000/5000/7000
2 position double
Grommet (G), (H): SX7240(R)-□□□<sup>②</sup>-□□□<sup>②</sup>

2 position double
Polarity indication
Press and turn for the locking type.
A: Orange
B: Green

M5 x 0.8
(Pilot EXH port)
<in the case of external pilot type>
(Light/Surge voltage suppressor)

M5 x 0.8
(Pilot EXH port)
<in the case of external pilot type>
(Light/Surge voltage suppressor)

M5 x 0.8
(Pilot EXH port)
<in the case of external pilot type>
(Light/Surge voltage suppressor)

M5 x 0.8
(Pilot EXH port)
<in the case of external pilot type>
(Light/Surge voltage suppressor)

L plug connector (L): SX7240(R)-□□□<sup>②</sup>-□□□<sup>②</sup>

M plug connector (M): SX7240(R)-□□□<sup>②</sup>-□□□<sup>②</sup>

Manual override
(Piping port)
5-Rc 3/8, 1/4
(Light/Surge voltage suppressor)

Polarity indication
(Piping port)
5-Rc 3/8, 1/4
(Piping port)
Series SX3000/5000/7000

Dimensions: Series SX7000

3 position closed center/exhaust center/pressure center
Grommet (G), (H): SX7 \( \frac{3}{5} \) 40(R)-L50132

- Manual override
  (Press and turn for the locking type.)
  A: Orange
  B: Green

- Lead wire length
  \( \approx 300 \) (Piping port)

- Grommet:
  \( \approx 300 \)

- H:
  \( \approx 600 \)

Pilot EIH port:
- In the case of external pilot type
- Light/Surge voltage suppressor

Mounting hole:
- \( 5-Rc 3/8, 1/4 \)

- Manual override
  (Press and turn for the locking type.)
  A: Orange
  B: Green

- Lead wire length
  \( \approx 300 \)

Polarity indication

M plug connector (M): SX7 \( \frac{3}{5} \) 40(R)-M5 x 0.8

- Manual override
  (Press and turn for the locking type.)
  A: Orange
  B: Green

- Lead wire length
  \( \approx 300 \)

L plug connector (L): SX7 \( \frac{3}{5} \) 40(R)-L50132

- Manual override
  (Press and turn for the locking type.)
  A: Orange
  B: Green

- Lead wire length
  \( \approx 300 \)

Polarity indication

- Mounting hole
  \( 5-Rc 3/8, 1/4 \)

- Piping port
  \( \approx 105 \)

- Pilot EIH port:
  - In the case of external pilot type
  - Light/Surge voltage suppressor

M5 x 0.8

In the case of external pilot type:
- Pilot EXH port
- Light/Surge voltage suppressor
### How to Order Valve Manifold Assembly

#### Ordering example

<table>
<thead>
<tr>
<th>Cylinder port size</th>
<th>Single solenoid (24 VDC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SX3120-5G-C6 (2 sets)</td>
</tr>
<tr>
<td></td>
<td>SX3220-5G-C6 (2 sets)</td>
</tr>
</tbody>
</table>

* The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

### How to Order Valves

<table>
<thead>
<tr>
<th>Series</th>
<th>SX3000</th>
<th>SX5000</th>
<th>SX7000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>2 position single</td>
<td>2 position double</td>
<td>3 position closed center</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>24 VDC</td>
<td>12 VDC</td>
<td>6 VDC</td>
</tr>
</tbody>
</table>

#### Electrical entry

<table>
<thead>
<tr>
<th>Grommet</th>
<th>L plug connector</th>
<th>M plug connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>G: Lead wire length 300 mm</td>
<td>L: With lead wire (Length 300 mm)</td>
<td>M: With lead wire (Length 300 mm)</td>
</tr>
<tr>
<td>H: Lead wire 600 mm</td>
<td>LN: Without lead wire</td>
<td>MN: Without lead wire</td>
</tr>
</tbody>
</table>

#### Thread type

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Applicable series</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>M5 x 0.8</td>
<td>SX3000</td>
</tr>
<tr>
<td>C4</td>
<td>One-touch fitting for ø4</td>
<td>SX5000</td>
</tr>
<tr>
<td>C6</td>
<td>One-touch fitting for ø6</td>
<td>SX7000</td>
</tr>
<tr>
<td>01</td>
<td>1/4</td>
<td></td>
</tr>
<tr>
<td>C4</td>
<td>One-touch fitting for ø4</td>
<td></td>
</tr>
<tr>
<td>C6</td>
<td>One-touch fitting for ø6</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>1/4</td>
<td></td>
</tr>
<tr>
<td>C6</td>
<td>One-touch fitting for ø6</td>
<td></td>
</tr>
<tr>
<td>C10</td>
<td>One-touch fitting for ø10</td>
<td></td>
</tr>
</tbody>
</table>

#### Light/Surge voltage suppressor

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Without light/surge voltage suppressor</td>
</tr>
<tr>
<td>S</td>
<td>With surge voltage suppressor</td>
</tr>
<tr>
<td>Z</td>
<td>With light/surge voltage suppressor</td>
</tr>
</tbody>
</table>

### Note

- Connector assembly for L and M types Refer to page 1-6-8.
- Common connector assembly for manifold Refer to page 1-6-9.
- Non-locking push type Pull-turn locking slotted type
Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SS5X3-20</th>
<th>SS5X5-20</th>
<th>SS5X7-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable valve</td>
<td>SX3:20</td>
<td>SX5:20</td>
<td>SX7:20</td>
</tr>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P (SUP)/R (EXH)</td>
<td>Common SUP/Common EXH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve stations (A, B)</td>
<td>2 to 20 stations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A, B port location</td>
<td>P, EA, EB port</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Port size</td>
<td>1 8 Rc</td>
<td>1 4 Rc</td>
<td></td>
</tr>
<tr>
<td>RC</td>
<td>1 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manifold base weight W (g) n: Stations
- W = 19n + 45
- W = 43n + 77
- W = 51n + 81

Note) For more than 10 stations, supply pressure to P port on both sides and exhaust from EA and EB port on both sides.

Manifold Option

- **Blanking plate assembly**
- **Individual EXH spacer assembly**
- **Individual SUP spacer assembly**

### Flow Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 5, 3</td>
<td>1 → 4/2 (P → A/B)</td>
</tr>
<tr>
<td>4, 2</td>
<td>4/2 → 5/3 (A/B → EA/EB)</td>
</tr>
<tr>
<td>A (A, B)</td>
<td>C (dm³/s·bar)</td>
</tr>
<tr>
<td>C6</td>
<td>0.72</td>
</tr>
<tr>
<td>C8</td>
<td>1.9</td>
</tr>
<tr>
<td>C10</td>
<td>3.6</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Applicable fitting</th>
<th>Model</th>
<th>A</th>
<th>L</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>K02P-04</td>
<td>16</td>
<td>32</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>K02P-06</td>
<td>18</td>
<td>35</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>K02P-08</td>
<td>20.5</td>
<td>39</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>K02P-10</td>
<td>22</td>
<td>43</td>
<td>12</td>
</tr>
<tr>
<td>5/32&quot;</td>
<td>K02P-03</td>
<td>16</td>
<td>32</td>
<td>6</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>K02P-07</td>
<td>18</td>
<td>35</td>
<td>8.5</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>K02P-09</td>
<td>20.5</td>
<td>39</td>
<td>10</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>K02P-11</td>
<td>22</td>
<td>43</td>
<td>11.5</td>
</tr>
</tbody>
</table>

**Warning**

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-44 to 1-6-46, and then mount it.
Type 20

SX7000: SS5X7-20- Stations

Grommet (G)

2n2-One-touch fittings
(A, B port)
Applicable tubing O.D.: ø8
ø10

Manual override
(Press and turn for the locking type.)
A: Orange
B: Green

(Station n) ——— ——— (Station 1)

Light/Surge voltage suppressor

Individual EXH spacer mounting size
(SUP port is mounted on the end plate side of single solenoid.)

Individual SUP spacer mounting size

L plug connector (L)

M plug connector (M)

<table>
<thead>
<tr>
<th>Stations n</th>
<th>L1</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20 stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>66</td>
<td>85</td>
<td>104</td>
<td>123</td>
<td>142</td>
<td>161</td>
<td>180</td>
<td>199</td>
<td>218</td>
<td>237</td>
<td>256</td>
<td>275</td>
<td>294</td>
<td>313</td>
<td>332</td>
<td>351</td>
<td>370</td>
<td>389</td>
<td>408</td>
</tr>
<tr>
<td>L2</td>
<td>46</td>
<td>65</td>
<td>84</td>
<td>103</td>
<td>122</td>
<td>141</td>
<td>160</td>
<td>179</td>
<td>198</td>
<td>217</td>
<td>236</td>
<td>255</td>
<td>274</td>
<td>293</td>
<td>312</td>
<td>331</td>
<td>350</td>
<td>369</td>
<td>388</td>
</tr>
</tbody>
</table>

n: Stations (n1 + n2)
Series SX3000/5000/7000
Body Ported Manifold
Bar Stock Type
Flat Ribbon Cable

How to Order Manifold

SS5X 5 20 P 05

Stations
3 5 stations
12 12 stations
Note) For SS5X: 4 to 12 stations.

Common specifications
P Positive common
N Negative common

How to Order Valves

SX 5 1 20 5 N MOZ 01

Rated voltage
5 24 VDC
6 12 VDC

Type of actuation
1 2 position single
2 2 position double
3 3 position closed center
4 3 position exhaust center
5 3 position pressure center

Common specifications
Nil Positive common
N Negative common

How to Order Connector Assembly

• Positive common specifications
  For single solenoid: SX3000-23-1A
  For double solenoid: SX3000-23-2A

• Negative common specifications
  For single solenoid: SX3000-24-1A
  For double solenoid: SX3000-24-2A

How to Order Valve Manifold Assembly

Ordering example

Cylinder port size
C6 With One-touch fittings for ø6

Single solenoid (24 VDC)
SX3120-5MOZ-C6 (3 set)

Blanking plate assembly
SY3000-26-10A (1 set)

Double solenoid (24 VDC)
SX3220-5MOZ-C6 (2 set)

Manifold base (6 stations)
SSSX3-20P-06

For detailed information on connector assembly, refer to page 1-6-9.
• Multiple valve wiring is simplified through the use of the flat cable connector.
• Clean appearance

In the case of a flat cable style, each valve is wired on the print board of manifold base to allow the external wiring to be piped all together with 26 pins MIL connector.

### Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SSX3-20P</th>
<th>SSX5-20P</th>
<th>SSX7-20P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable valve</td>
<td>SX3-20</td>
<td>SX5-20</td>
<td>SX7-20</td>
</tr>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td>Common SUP/Common EXH</td>
<td></td>
</tr>
<tr>
<td>Valve stations (Note 1)</td>
<td>4 to 12 stations</td>
<td>3 to 12 stations</td>
<td></td>
</tr>
<tr>
<td>A, B port location</td>
<td>P, EA, EB port</td>
<td>Valve</td>
<td></td>
</tr>
<tr>
<td>Port size</td>
<td>A, B port</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P, EA, EB port</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
</tr>
<tr>
<td>A, B port</td>
<td>⅜ (One-touch fitting for ø4)</td>
<td>⅜ (One-touch fitting for ø4)</td>
<td>⅜ (One-touch fitting for ø8)</td>
</tr>
<tr>
<td>C4</td>
<td>C6 (One-touch fitting for ø8)</td>
<td>C8 (One-touch fitting for ø10)</td>
<td></td>
</tr>
<tr>
<td>C6</td>
<td>C8 (One-touch fitting for ø10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manifold base weight W (g)</td>
<td>W = 19n + 45</td>
<td>W = 43n + 77</td>
<td>W = 51n + 81</td>
</tr>
<tr>
<td>n: Stations</td>
<td>+COM (Type 20P), –COM (Type 20N)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal wiring</td>
<td>Socket: 26 pins MIL with strain relief (Conforming to MIL-C-83503)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>12, 24 VDC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1) For more than 10 stations (more than 5 stations in case of SSX7), supply pressure to P port on both sides and exhaust from EA and EB port on both sides.

Note 2) The withstand voltage specification for the wiring unit section is JIS C 0704, Grade 1 or its equivalent.

### Flow Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow characteristics 1 → 4/2 (P → A/B)</th>
<th>4/2 → 5/3 (A/B → EA/EB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 5, 3 (P, EA, EB)</td>
<td>C</td>
<td>b</td>
</tr>
<tr>
<td>1, 5, 3 (P, EA, EB)</td>
<td>0.72</td>
<td>0.29</td>
</tr>
<tr>
<td>4, 2 (A, B)</td>
<td>1.9</td>
<td>0.28</td>
</tr>
<tr>
<td>4, 2 (A, B)</td>
<td>3.6</td>
<td>0.31</td>
</tr>
</tbody>
</table>

Note) The value is for manifold base with 5 stations and individually operated 2 position type.

### Internal Wiring of Manifold

- For more than 9 stations, both poles of the common should be wired.
- For single solenoid, connect to the solenoid A side.
- The maximum number of stations is 12. If more than 12 stations are required, please consult with SMC.
- +COM and –COM specifications are available. (Diagram above is for +COM specifications.)
Manifold Option

**Blanking plate assembly**
- Series SX3000: SY3000-26-10A
- Series SX5000: SY5000-26-21A
- Series SX7000: SY7000-26-23A

**Individual EXH spacer assembly**
- EXH port (both sides)

**Individual SUP spacer assembly**
- SUP port

**Cable assembly**
- Connector Assembly for Flat Ribbon Cable
- Cable length (L) | Assembly part no. | Note
  | 1.5 m | AXT100-FC26-1 | Cable 26 cores x 28AWG
  | 3 m  | AXT100-FC26-2 |
  | 5 m  | AXT100-FC26-3 |

* For other commercial connectors, use a 26 pins type with strain relief conforming to MIL-C-83503.

**Connector manufacturers’ example**
- Hirose Electric Co., Ltd.
- Japan Aviation Electronics Industry, Ltd.
- Sumitomo 3M Limited
- J.S.T. Mfg. Co., Ltd.
- Fujitsu Limited

**Plug**
- These are inserted in cylinder ports or SUP/EXH ports which are not being used.
- Purchasing order is available in units of 10 pieces.

**Dimensions**

### Applicable fittings fitting ød

<table>
<thead>
<tr>
<th>ød</th>
<th>Model</th>
<th>A</th>
<th>L</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/32</td>
<td>KQ2P-04</td>
<td>16</td>
<td>32</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>KQ2P-05</td>
<td>18</td>
<td>35</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>KQ2P-06</td>
<td>20.5</td>
<td>39</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>KQ2P-07</td>
<td>22</td>
<td>43</td>
<td>12</td>
</tr>
<tr>
<td>5/16</td>
<td>KQ2P-07</td>
<td>18</td>
<td>35</td>
<td>8.5</td>
</tr>
<tr>
<td>3/8</td>
<td>KQ2P-08</td>
<td>20.5</td>
<td>39</td>
<td>10</td>
</tr>
</tbody>
</table>

**Caution**

Mounting screw tightening torques
- M2: 0.17 N·m
- M3: 0.8 N·m
- M4: 1.4 N·m

**Warning**

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-51 to 1-6-53, and then mount it.
SX7000: SS5X7-20P - Stations

### SS5X7-20N

<table>
<thead>
<tr>
<th>Stations n</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>88</td>
<td>108.5</td>
<td>129</td>
<td>149.5</td>
<td>170</td>
<td>190.5</td>
<td>211</td>
<td>231.5</td>
<td>252</td>
<td>272.5</td>
</tr>
<tr>
<td>L2</td>
<td>68</td>
<td>88.5</td>
<td>109</td>
<td>129.5</td>
<td>150</td>
<td>170.5</td>
<td>191</td>
<td>211.5</td>
<td>232</td>
<td>252</td>
</tr>
</tbody>
</table>

- **Mounting hole**: M4-ø 4.5
- **Pitch**: P = 20.5, 13.5
- **Manual override**: Press and turn for the locking type.
- **Applicable connector**: 26 pins MIL with strain relief (Conforming to MIL-C-83503)
- **Applicable tubing O.D.**: ø 8, ø 10
- **2n2-One-touch fitting** (A, B port)
- **Applicable tubing O.D.**: ø 8, ø 10
- **Connector polarity indication**
Add the valve and option part number under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet.

SS5X3-41-05-C6······ 1 set (Type 41, 5-station manifold base part no.)
SX3240-5G ··········· 2 sets (Double solenoid part no.)
SX3140-5G ·········· 2 sets (Single solenoid part no.)
SY3000-26-9A······· 1 set (Blanking plate assembly part no.)

The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Ordering example

**Double solenoid (24 VDC)**
SS3240-5G (2 set)
Blanking plate assembly
SY3000-26-2A (1 set)

**Single solenoid (24 VDC)**
SS3140-5G (2 set)

* The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Add the valve and option part number under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet.

How to Order Manifold

**Type 41 (Compact type)**

**SS5X 5 41 05 C8**

<table>
<thead>
<tr>
<th>Series</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>SX3000</td>
</tr>
<tr>
<td>5</td>
<td>SX5000</td>
</tr>
<tr>
<td></td>
<td>02</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type 42 (Common external pilot type)**

**SS5X 5 42 05 C8**

<table>
<thead>
<tr>
<th>Series</th>
<th>Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>SX3000</td>
</tr>
<tr>
<td>5</td>
<td>SX5000</td>
</tr>
<tr>
<td>7</td>
<td>SX7000</td>
</tr>
<tr>
<td></td>
<td>02</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How to Order Valve Manifold Assembly

**Ordering example**

**Double solenoid (24 VDC)**
SX3240-5G (2 set)
Blanking plate assembly
SY3000-26-2A (1 set)

**Single solenoid (24 VDC)**
SX3140-5G (2 set)

Add the valve and option part number under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet.

• Connector assembly for L and M types .................. Refer to page 1-6-9.
• Common connector ass’y for manifold ...................... Refer to page 1-6-9.
### How to Order Valves

**Series**
- 3: SX3000
- 5: SX5000
- 7: SX7000

**Type of actuation**
1. 2 position single
2. 2 position double
3. 3 position closed center
4. 3 position exhaust center
5. 3 position pressure center

**Pilot type**
- Nil: Internal pilot
- R: External pilot

**Rated voltage**
- 5: 24 VDC
- 6: 12 VDC
- V: 6 VDC
- S: 5 VDC
- R: 3 VDC

**Manual override**
- Nil: Non-locking push type
- D: Push-turn locking slotted type

**Light/Surge voltage suppressor**
- Nil: Without light/surge voltage suppressor
- S: With surge voltage suppressor
- Z: With light/surge voltage suppressor

**Electrical entry**
- G: Lead wire length 300 mm
- H: Lead wire length 600 mm
- L: With lead wire (Length 300 mm)
- LN: Without lead wire
- LO: Without connector
- M: With lead wire (Length 300 mm)
- MN: Without lead wire
- MO: Without connector

**Common specifications**
- N: Positive common
- N: Negative common

- Note: Put nothing for single grommet style and single without indicator light and surge voltage suppressor.

- The LN or MN option includes 2 sockets for single solenoid valves and 3 sockets for double solenoid valves.
### Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SSX5X3-41</th>
<th>SSX5X3-42</th>
<th>SSX5X7-41</th>
<th>SSX5X7-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable valve</td>
<td>SX3-40</td>
<td>SX3-40(R)</td>
<td>SX5-40</td>
<td>SX5-40(R)</td>
</tr>
<tr>
<td>Model type</td>
<td>Single base/b mount</td>
<td>Common SUP/Common EXH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P(SUP)/R(EXH)</td>
<td>Base</td>
<td>Base</td>
<td>Base</td>
<td>Base</td>
</tr>
<tr>
<td>Valve stations</td>
<td>2 to 20 stations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A, B Porting specifications</td>
<td>Location</td>
<td>Direction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Port size</td>
<td>A, B port</td>
<td>Rc 1/8</td>
<td>Rc 1/8</td>
<td>Rc 1/8</td>
</tr>
</tbody>
</table>

### Flow Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Port size</th>
<th>Flow characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 → 4/2 (P → A/B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C (dm³/(s·bar))</td>
</tr>
</tbody>
</table>

### Manifold Option

#### Blanking plate assembly

- **Series**: SX3000, SX5000, SX7000
- **Assembly part no.** SY3000-26-9A, SY5000-26-20A, SY7000-26-22A

#### Individual EXH spacer assembly

- **Series**: SX3000, SX5000, SX7000
- **Port size**: SX3000-39-2A, SX5000-39-16A, SX7000-39-16A

#### Individual SUP spacer assembly

- **Series**: SX3000, SX5000, SX7000
- **Port size**: SX3000-38-2A, SX5000-38-16A, SX7000-38-16A

#### Bolt and gasket part no.

- **Series**: SX3000, SX5000, SX7000
- **Assembly part no.** SY3000-26-9A, SY5000-26-20A, SY7000-26-22A
- **Port size**: SX3000-39-2A, SX5000-39-16A, SX7000-39-16A

#### Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-57 to 1-6-63, and then mount it.
Grommet (G)

L plug connector (L)

M plug connector (M)

<table>
<thead>
<tr>
<th>Stations n</th>
<th>L1</th>
<th>L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 stations</td>
<td>61</td>
<td>49</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>68</td>
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<tr>
<td>4</td>
<td>118</td>
<td>106</td>
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<td>5</td>
<td>137</td>
<td>125</td>
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<tr>
<td>6</td>
<td>156</td>
<td>144</td>
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<tr>
<td>7</td>
<td>175</td>
<td>163</td>
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<tr>
<td>8</td>
<td>194</td>
<td>182</td>
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<tr>
<td>9</td>
<td>213</td>
<td>201</td>
</tr>
<tr>
<td>10</td>
<td>251</td>
<td>239</td>
</tr>
<tr>
<td>11</td>
<td>289</td>
<td>277</td>
</tr>
<tr>
<td>12</td>
<td>308</td>
<td>296</td>
</tr>
<tr>
<td>13</td>
<td>327</td>
<td>315</td>
</tr>
<tr>
<td>14</td>
<td>346</td>
<td>334</td>
</tr>
<tr>
<td>15</td>
<td>365</td>
<td>353</td>
</tr>
<tr>
<td>16</td>
<td>384</td>
<td>372</td>
</tr>
<tr>
<td>17</td>
<td>403</td>
<td>391</td>
</tr>
</tbody>
</table>

1-6-63
**Series SX3000/5000/7000**

**Base Mounted Manifold**

**Bar Stock Type**

**Flat Ribbon Cable**

---

**How to Order Manifold**

**Type 41P (Compact type)**

**SS5X 5 41 P 05 C8**

- **Common specifications**
  - P: Positive common
  - N: Negative common

- **A/B port size**
  - Symbol: Port size
  - Applicable series
  - M5: M5 x 0.8 SX3000
  - 01: 1/8 SX3000
  - C4: One-touch fitting for ø4 SX3000
  - C6: One-touch fitting for ø6 SX3000
  - C8: One-touch fitting for ø8 SX5000

- **One-touch fitting (Metric size)**
  - Symbol: Port size
  - Applicable series
  - N3: One-touch fitting for ø5/32" SX3000
  - N7: One-touch fitting for ø1/4" SX3000
  - N7: One-touch fitting for ø1/4" SX5000
  - N9: One-touch fitting for ø5/16" SX7000

---

**Type 42P (Common external pilot type)**

**SS5X 5 42 P 05 C8**

- **Common specifications**
  - P: Positive common
  - N: Negative common

- **A/B port size**
  - Symbol: Port size
  - Applicable series
  - 01: 1/8 SX3000
  - 02: 1/6 SX7000

- **One-touch fitting (Inch size)**
  - Symbol: Port size
  - Applicable series
  - N3: One-touch fitting for ø5/32" SX3000
  - N7: One-touch fitting for ø1/4" SX3000
  - N7: One-touch fitting for ø1/4" SX5000
  - N9: One-touch fitting for ø5/16" SX7000

---

**How to Order Valve Manifold Assembly**

**Ordering example**

- **Single solenoid (24 VDC)**
  - SX3140-5MOZ (3 set)

- **Double solenoid (24 VDC)**
  - SX3240-5MOZ (2 set) (For double solenoid)
  - SX3000-23-2A (2 sets) (Connector assembly no.)

- **Blanking plate assembly**
  - SY3000-26-10A (1 set)

- **Connector assembly**
  - SX3000-23-1A

- **Manifold base (6 stations)**
  - SSX3-41P-06-C6

---

*The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.*

Add the valve and option part number under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet.
How to Order Connector Assembly

- Positive common specifications
  For single solenoid: SX3000-23-1A
  For double solenoid, 3 position: SX3000-23-2A
- Negative common specifications
  For single solenoid: SX3000-24-1A
  For double solenoid, 3 position: SX3000-24-2A

For detailed information on connector assembly, refer to page 1-6-9.
Flat Ribbon Cable Manifold Specifications

- Multiple valve wiring is simplified through the use of the flat cable connector.
- Clean appearance

In case of a flat cable style, each valve is wired on the print board of manifold base to allow the external wiring to be piped all together with 26 pins MIL connector.

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SS5X3-41</th>
<th>SS5X3-42</th>
<th>SS5X5-41</th>
<th>SS5X5-42</th>
<th>SS5X7-42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable valve</td>
<td>SX3-40</td>
<td>SX3-40(R)</td>
<td>SX5-40</td>
<td>SX5-40(R)</td>
<td>SX7-40(R)</td>
</tr>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td>Common SUP/Common EXH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve stations</td>
<td>4 to 12 stations</td>
<td>3 to 12 stations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A, B port specifications</td>
<td>Location</td>
<td>Base</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Port size</td>
<td>A, B port</td>
<td>P, EA, EB port</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W (g) n: Stations</td>
<td>40</td>
<td>40(R)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow characteristics</td>
<td>12, 24 VDC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Flow Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Port size</th>
<th>Flow characteristics</th>
<th>1 → 4/2 (P → A/B)</th>
<th>4/2 → 5/3 (A/B → EA/EB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C [dm³/(s·bar)]</td>
<td>b</td>
<td>Cv</td>
<td>C [dm³/(s·bar)]</td>
</tr>
<tr>
<td>SS5X3-41</td>
<td>Rc 1/8</td>
<td>C6</td>
<td>0.75</td>
<td>0.19</td>
</tr>
<tr>
<td>SS5X3-42</td>
<td>Rc 1/8</td>
<td>C6</td>
<td>0.75</td>
<td>0.20</td>
</tr>
<tr>
<td>SS5X5-41</td>
<td>Rc 1/4</td>
<td>C8</td>
<td>1.0</td>
<td>0.23</td>
</tr>
<tr>
<td>SS5X5-42</td>
<td>Rc 1/4</td>
<td>C8</td>
<td>1.9</td>
<td>0.20</td>
</tr>
<tr>
<td>SS5X7-42</td>
<td>Rc 1/4</td>
<td>C10</td>
<td>3.0</td>
<td>0.25</td>
</tr>
</tbody>
</table>

Note: The value is for manifold base with 5 stations and individually operated 2 position type.

### Internal Wiring of Manifold

- For more than 9 stations, both poles of the common should be wired.
- For single solenoid, connect to the solenoid A side.
- The maximum number of stations is 12. If more than 12 stations are required, please consult with SMC.
- –COM and +COM specifications are available. (Diagram above is for +COM specifications.)
Manifold Option

- **Blanking plate assembly**

- **Individual EXH spacer assembly**

- **Individual SUP spacer assembly**

- **Cable assembly**
  
  AXT100-FC26-1 to 3

- **Connector Assembly for Flat Ribbon Cable**
  
<table>
<thead>
<tr>
<th>Cable length (L)</th>
<th>Assembly part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 m</td>
<td>AXT100-FC26-1</td>
<td></td>
</tr>
<tr>
<td>3 m</td>
<td>AXT100-FC26-2</td>
<td></td>
</tr>
<tr>
<td>5 m</td>
<td>AXT100-FC26-3</td>
<td></td>
</tr>
</tbody>
</table>

  * For other commercial connectors, use a 26 pins type with strain relief conformed to MIL-C-83503.

- **Plug**

  These are inserted in cylinder ports or SUP/EXH ports which are not being used.

- **Bolt and gasket part no.**

- **Series SX3000/5000/7000**

- **Connector manufacturers’ example**

  - Hirose Electric Co., Ltd.
  - Japan Aviation Electronics Industry, Ltd.
  - Sumitomo 3M Limited
  - J.S.T. Mfg. Co., Ltd.
  - Fujitsu Limited

- **Dimensions**

- **Caution**

- **Warning**

  When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-69 to 1-6-72, and then mount it.
SX7000: SS5X7-42P- Stations-02/C10

**Applicable connector:** 26 pins MIL (Conforming to MIL-C-83503)

- **Manual override:** Press and turn for the locking type.
  - A: Orange
  - B: Green

**Connector polarity indication:**
- (Light/Surge voltage suppressor)
- (P, EA, EB port)
- Triangle mark
- Press and turn for the locking type.

**SS5X7-42N**

<table>
<thead>
<tr>
<th>Stations</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>88</td>
<td>106.5</td>
<td>129</td>
<td>149.5</td>
<td>170</td>
<td>190.5</td>
<td>211</td>
<td>231.5</td>
<td>252</td>
<td>272.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L2</td>
<td>76</td>
<td>96.5</td>
<td>117</td>
<td>137.5</td>
<td>158</td>
<td>178.5</td>
<td>199</td>
<td>219.5</td>
<td>240</td>
<td>260.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Main Valve Fluoro Rubber Specifications -X90

Fluoro rubber is used for rubber parts of the main valve to allow use in applications such as the following:

1. When using a lubricant other than the recommended turbine oil, and there is a possibility of malfunction due to swelling of the spool valve seals.
2. When ozone enters or is generated in the air supply.

Applicable solenoid valves: Series SX3□□0, SX5□□0, SX7□□0

Model no. SX□□□0-X90

Note) Because in series -X90 fluoro rubber is used for only main valve, the rubber parts of the application/usage in conditions requiring heat resistance should be avoided.