### Series SYJ300
#### Manifold Specifications

#### Flow Characteristics

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Port size</th>
<th>Flow characteristics</th>
<th>Effective area (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYJ300-20</td>
<td>1/8 M5 x 0.8</td>
<td>0.075</td>
<td>0.31</td>
</tr>
<tr>
<td>SYJ300-41</td>
<td>1/8 M5 x 0.8</td>
<td>0.086</td>
<td>0.33</td>
</tr>
<tr>
<td>SYJ300-42-M5</td>
<td>1/8 M5 x 0.8</td>
<td>0.086</td>
<td>0.32</td>
</tr>
<tr>
<td>SYJ300-42-C4</td>
<td>1/8 M5 x 0.8</td>
<td>0.086</td>
<td>0.35</td>
</tr>
<tr>
<td>SYJ300-42R-M5</td>
<td>1/8 M5 x 0.8</td>
<td>0.086</td>
<td>0.32</td>
</tr>
<tr>
<td>SYJ300-42R-C4</td>
<td>1/8 M5 x 0.8</td>
<td>0.086</td>
<td>0.35</td>
</tr>
</tbody>
</table>

Note) Value at manifold base mounted, 2 position single acting

#### How to Order Manifold (Example)
Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

- SSYJ300-03 ............... 1 set (manifold base)
- SSYJ300-42-M5 ............. 2 sets (valve)
- SSYJ300-42-C4 ............. 2 sets (valve)
- SSYJ300-10-1A ............. 1 set (blanking plate assembly)
- SYJ300-10-2A ............. 1 set (blanking plate assembly)

The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.
Rubber Seal
3 Port Pilot Solenoid Valve Series SYJ300

Combinations of Solenoid Valve, Manifold Gasket and Manifold Base

**Body ported**
(Type SYJ3□2(R)(-Q))

- Round head combination screw
  - SY100-33-3
  - (M1.7 x 17, Matt nickel plated)

- Manifold gasket
  - SYJ300-5-6

**Base mounted**
(Type SYJ3□4(R)(-Q))

- Round head combination screw
  - SY100-33-3
  - (M1.7 x 17, Matt nickel plated)

- Manifold gasket
  - SYJ300-5-4

**Applicable base**
- SS3YJ3-20(-Q)
- SS3YJ3-20R(-Q)

**Sub-plate**
- SS3YJ3-41(-Q)
- SS3YJ3-41(-Q)
- SS3YJ3-42(-Q)
- SS3YJ3-42(-Q)
- SS3YJ3-42R(-Q)
- SS3YJ3-42R(-Q)

**Manifold base**

Blanking Plate Assembly

**Part no.: SYJ300-10-1A(-Q)**

**Part no.: SYJ300-10-2A(-Q)**

- Round head combination screw

- Blanking plate

- Manifold gasket

**Applicable base**
- SS3YJ3-20(-Q)
- SS3YJ3-20R(-Q)

**Sub-plate**
- SS3YJ3-41(-Q)
- SS3YJ3-41(-Q)
- SS3YJ3-42(-Q)
- SS3YJ3-42(-Q)
- SS3YJ3-42R(-Q)
- SS3YJ3-42R(-Q)

**Manifold base**

Note) Add suffix “-Q” for the CE-compliant product.

**Caution**

**Mounting screw tightening torques**

M1.7: 0.12 N·m

Use caution to the assembly orientation for solenoid valves, gasket and optional parts.
Series SYJ300

Manifold for Internal Pilot Type

**Type 20**

<table>
<thead>
<tr>
<th>A port</th>
<th>M3 x 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>R port</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td>P port</td>
<td>M5 x 0.8</td>
</tr>
</tbody>
</table>

**How to Order**

SS3YJ3 - 20 - \( \square \) - \( \square \) - M3 - \( \square \) - CE-complaint

- **Stations**
  - 02: 2 stations
  - 20: 20 stations

- **Bracket**
  - Nil: Without bracket
  - F: With bracket

- **Applicable solenoid valve**
  - SYJ312R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)
  - SYJ322R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)

- **Applicable blanking plate assembly**
  - Refer to page 1379.

**Manifold for External Pilot Type**

Pilot valve pressure is supplied separately from the main valve pressure through the use of a separate supply port. It can be used in the vacuum (up to –100 kPa) or low pressure line with 0.15 MPa or less.

**Type 41**

<table>
<thead>
<tr>
<th>A port</th>
<th>M3 x 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>R port</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td>P port</td>
<td>M5 x 0.8</td>
</tr>
</tbody>
</table>

**How to Order**

SS3YJ3 - 41 - \( \square \) - M3 - \( \square \) - CE-complaint

- **Stations**
  - 02: 2 stations
  - 20: 20 stations

**Valve mounting direction**

- S: Pilot valve is opposite the A port side.
- M: Pilot valve is on the A port side.

**Applicable solenoid valve**

- SYJ314R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)
  - SYJ324R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)

**Applicable blanking plate assembly**

- Refer to page 1379.

**Type 42**

<table>
<thead>
<tr>
<th>A port</th>
<th>M3 x 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>R port</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td>P port</td>
<td>M5 x 0.8</td>
</tr>
</tbody>
</table>

**How to Order**

SS3YJ3 - 42 - \( \square \) - M5 - \( \square \) - CE-complaint

- **Stations**
  - 02: 2 stations
  - 20: 20 stations

**Valve mounting direction**

- S: Pilot valve is opposite the A port side.
- M: Pilot valve is on the A port side.

**P, R port thread type**

- M5: M5 x 0.8
- C4: Ø4 one-touch fitting
- N3: Ø5/32" one-touch fitting

**Applicable solenoid valve**

- SYJ314R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)
  - SYJ324R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)

**Applicable blanking plate assembly**

- Refer to page 1379.

Note) For more than 8 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

**Manifold for External Pilot Type**

Pilot valve pressure is supplied separately from the main valve pressure through the use of a separate supply port. It can be used in the vacuum (up to –100 kPa) or low pressure line with 0.15 MPa or less.

**Type 20R**

<table>
<thead>
<tr>
<th>X port (External pilot)</th>
<th>M3 x 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>R port</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td>P port</td>
<td>M5 x 0.8</td>
</tr>
</tbody>
</table>

**How to Order**

SS3YJ3 - 20R - \( \square \) - \( \square \) - M3 - \( \square \) - CE-complaint

- **Stations**
  - 02: 2 stations
  - 20: 20 stations

- **P, R port thread type**
  - M5: M5 x 0.8
  - M: M5 x 0.8

**Applicable solenoid valve**

- SYJ312R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)
  - SYJ322R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)

**Applicable blanking plate assembly**

- Refer to page 1379.

Note) For more than 10 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

**Type 42R**

<table>
<thead>
<tr>
<th>A port</th>
<th>M3 x 0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>X port (External pilot)</td>
<td>M3 x 0.5</td>
</tr>
<tr>
<td>R port</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td>P port</td>
<td>M5 x 0.8</td>
</tr>
</tbody>
</table>

**How to Order**

SS3YJ3 - 42R - \( \square \) - \( \square \) - M5 - \( \square \) - CE-complaint

- **Stations**
  - 02: 2 stations
  - 20: 20 stations

- **Valve mounting direction**
  - S: Pilot valve is opposite the A port side.
  - M: Pilot valve is on the A port side.

**P, R port thread type**

- M5: M5 x 0.8
- C4: Ø4 one-touch fitting
- N3: Ø5/32" one-touch fitting

**Applicable solenoid valve**

- SYJ314R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)
  - SYJ324R-\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)\( \square \)

**Applicable blanking plate assembly**

- Refer to page 1379.

Note) For more than 8 stations, supply/exhaust air to/from both sides of P port and R port.

Note) For more than 10 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

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Note) For more than 8 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

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Note) For more than 10 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

---

Note) For more than 8 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

---

Note) For more than 10 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

---

Note) For more than 8 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

---

Note) For more than 10 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

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Note) For more than 8 stations, supply/exhaust air to/from both sides of P port and exhaust air from both sides of R port.

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Rubber Seal
3 Port Pilot Solenoid Valve Series SYJ300

Type 20 Manifold: Top Ported/SS3YJ3-20-Stations-00 (-F)

Grommet (G)

L plug connector (L)  M plug connector (M)  M8 connector (WO)

<table>
<thead>
<tr>
<th>Station</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>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>35.5</td>
<td>46</td>
<td>56.5</td>
<td>67</td>
<td>77.5</td>
<td>88</td>
<td>98.5</td>
<td>109</td>
<td>119.5</td>
<td>130</td>
<td>140.5</td>
<td>151</td>
<td>161.5</td>
<td>172</td>
<td>182.5</td>
<td>193</td>
<td>203.5</td>
<td>214</td>
<td>224.5</td>
</tr>
<tr>
<td>L2</td>
<td>28.5</td>
<td>39</td>
<td>49.5</td>
<td>60</td>
<td>70.5</td>
<td>81</td>
<td>91.5</td>
<td>102</td>
<td>112.5</td>
<td>123</td>
<td>133.5</td>
<td>144</td>
<td>154.5</td>
<td>165</td>
<td>175.5</td>
<td>186</td>
<td>196.5</td>
<td>207</td>
<td>217.5</td>
</tr>
</tbody>
</table>

* Refer to page 1429 for dimensions with connector cable.

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Series SYJ300

Type 41 Manifold: Side Ported/SS3YJ3-41- Stations -M3

Grommet (G)

Type S41 Manifold: Side Ported
(Pilot valve is on the A port side)

SS3YJ3-S41- Stations -M3

L plug connector (L) M plug connector (M) M8 connector (WO)

<table>
<thead>
<tr>
<th>Station n</th>
<th>Station 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>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>Station 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>36.5</td>
<td>46</td>
<td>56.5</td>
<td>67</td>
<td>77.5</td>
<td>87</td>
<td>98.5</td>
<td>109</td>
<td>119.5</td>
<td>130</td>
<td>140.5</td>
<td>151</td>
<td>161.5</td>
<td>172</td>
<td>182.5</td>
<td>193</td>
<td>203.5</td>
<td>214</td>
<td>224.5</td>
</tr>
<tr>
<td>L2</td>
<td>28.5</td>
<td>39</td>
<td>49.5</td>
<td>60</td>
<td>70.5</td>
<td>81</td>
<td>91.5</td>
<td>102</td>
<td>112.5</td>
<td>123</td>
<td>133.5</td>
<td>144</td>
<td>154.5</td>
<td>165</td>
<td>175.5</td>
<td>186</td>
<td>196.5</td>
<td>207</td>
<td>217.5</td>
</tr>
</tbody>
</table>

Approx. 300 (Lead wire length)

Approx. 300 (Lead wire length)
### Type 42 Manifold: Side Ported/SS3YJ3-42- Stations - M5, C4 N3

**Grommet (G)**
- For M5

**For C4 N3 (Built-in one-touch fitting)**

### Type S42 Manifold: Side Ported (Pilot valve is on the A port side) / SS3YJ3-S42- Stations - M5, C4 N3

**Grommet (G)**
- For M5

**For C4 N3 (Built-in one-touch fitting)**

### Dimensions

<table>
<thead>
<tr>
<th>Station n</th>
<th>Station 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>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>41.5</td>
<td>52</td>
<td>62.5</td>
<td>73</td>
<td>83.5</td>
<td>94</td>
<td>104.5</td>
<td>115</td>
<td>125.5</td>
<td>136</td>
<td>146.5</td>
<td>157</td>
<td>167.5</td>
<td>178</td>
<td>188.5</td>
<td>199</td>
<td>209.5</td>
<td>220</td>
<td>230.5</td>
</tr>
<tr>
<td>L2</td>
<td>33.5</td>
<td>44</td>
<td>54.5</td>
<td>65</td>
<td>75.5</td>
<td>86</td>
<td>96.5</td>
<td>107</td>
<td>117.5</td>
<td>128</td>
<td>138.5</td>
<td>149</td>
<td>159.5</td>
<td>170</td>
<td>180.5</td>
<td>191</td>
<td>201.5</td>
<td>212</td>
<td>222.5</td>
</tr>
</tbody>
</table>

*Refer to page 1429 for dimensions with connector cable.*
**Series SYJ300**

**Type 20R Manifold: Top Ported (External Pilot Type)/SS3YJ3-20R Stations-00 [ ] for AC**

Grommet (G)

![Diagram of Series SYJ300](image)

- **L plug connector (L)**
- **M plug connector (M)**
- **M8 connector (WO)**

<table>
<thead>
<tr>
<th>Station n</th>
<th>Station 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>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>47.5</td>
<td>58</td>
<td>68.5</td>
<td>79</td>
<td>89.5</td>
<td>100</td>
<td>110.5</td>
<td>121</td>
<td>131.5</td>
<td>142</td>
<td>152.5</td>
<td>163</td>
<td>173.5</td>
<td>184</td>
<td>194.5</td>
<td>205</td>
<td>215.5</td>
<td>226</td>
<td>236.5</td>
</tr>
<tr>
<td>L2</td>
<td>39.5</td>
<td>50</td>
<td>60.5</td>
<td>71</td>
<td>81.5</td>
<td>92</td>
<td>102.5</td>
<td>113</td>
<td>123.5</td>
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<td>144.5</td>
<td>155</td>
<td>165.5</td>
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<td>186.5</td>
<td>197</td>
<td>207.5</td>
<td>218</td>
<td>228.5</td>
</tr>
<tr>
<td>L3</td>
<td>31.5</td>
<td>42</td>
<td>52.5</td>
<td>63</td>
<td>73.5</td>
<td>84</td>
<td>94.5</td>
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<td>115.5</td>
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<td>136.5</td>
<td>147</td>
<td>157.5</td>
<td>168</td>
<td>178.5</td>
<td>189</td>
<td>199.5</td>
<td>210</td>
<td>220.5</td>
</tr>
</tbody>
</table>

*Refer to page 1429 for dimensions with connector cable.*

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