

Non Plug-in

Compact 5-Port Solenoid Valve **New**

Size reduction possible thanks to a flow increase

This leads to space saving, weight reduction, and a large flow rate.

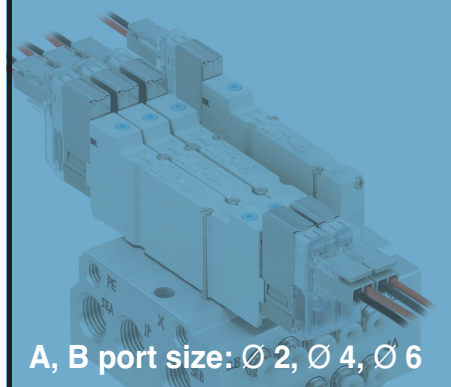


RoHS

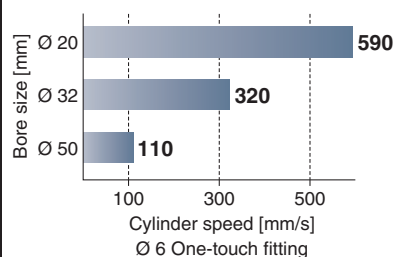
Possible to drive $\varnothing 32^{*1}$ bore cylinders

JSY1000

6.4 mm



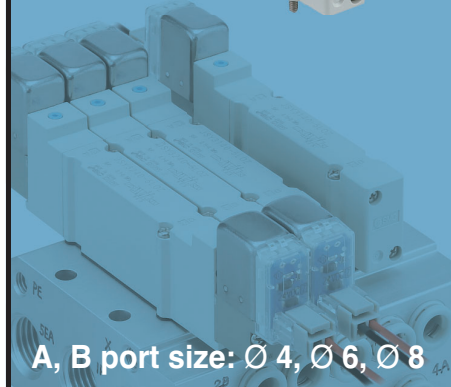
A, B port size: $\varnothing 2$, $\varnothing 4$, $\varnothing 6$



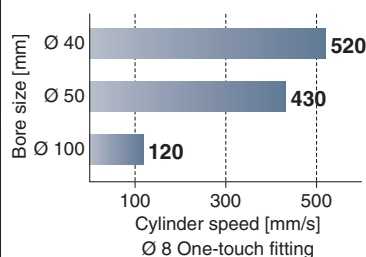
Possible to drive $\varnothing 50^{*1}$ bore cylinders

JSY3000

10 mm



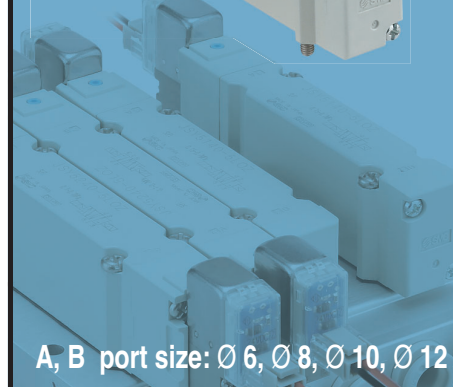
A, B port size: $\varnothing 4$, $\varnothing 6$, $\varnothing 8$



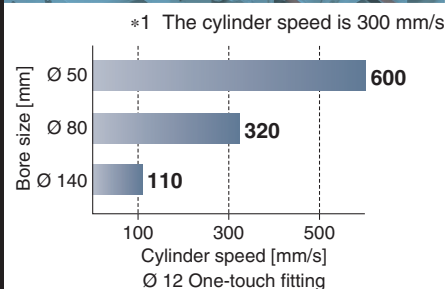
Possible to drive $\varnothing 80^{*1}$ bore cylinders

JSY5000

15 mm



A, B port size: $\varnothing 6$, $\varnothing 8$, $\varnothing 10$, $\varnothing 12$

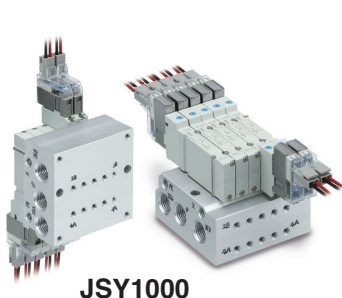
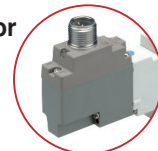


*1 The cylinder speed is 300 mm/s

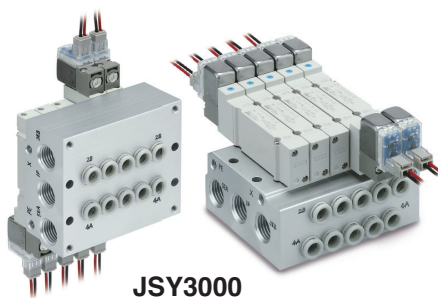
Refer to pages 5 to 16 for detailed conditions regarding the above cylinder speed.

New An M12 connector has been added.
(JSY5000 only)

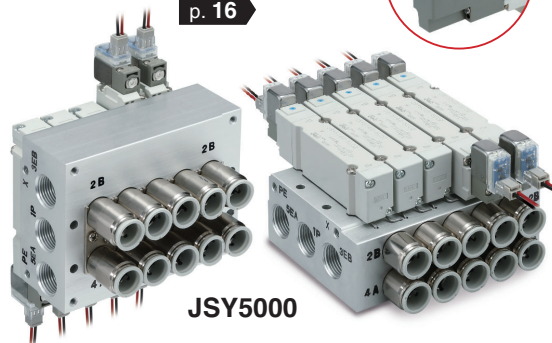
p. 16



JSY1000



JSY3000



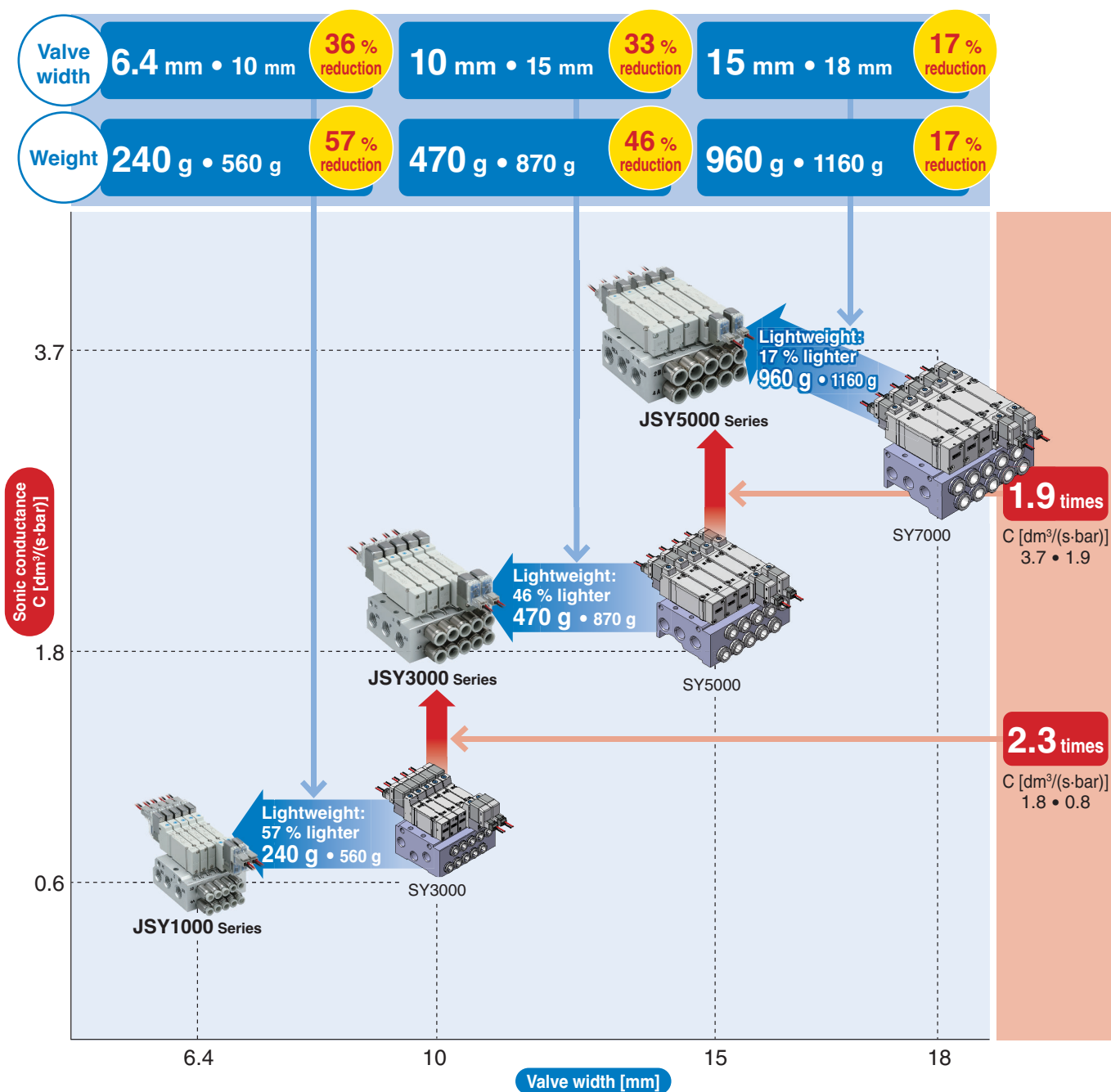
JSY5000

JSY1000/3000/5000 Series



CAT.EUS11-113A-UK

Series Map

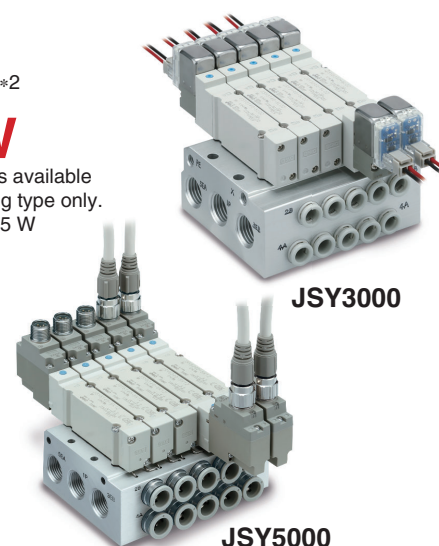
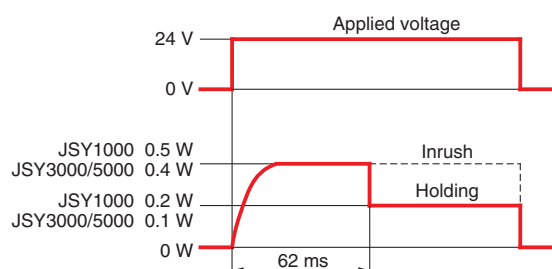


Power Consumption

| With power saving circuit | JSY3000/5000 | JSY1000 | Standard | JSY3000/5000 *2 |
|---------------------------|--------------|--------------|----------|-----------------|
| | 0.1 w | 0.2 w | | 0.4 w |

Power consumption is reduced by power saving circuit.

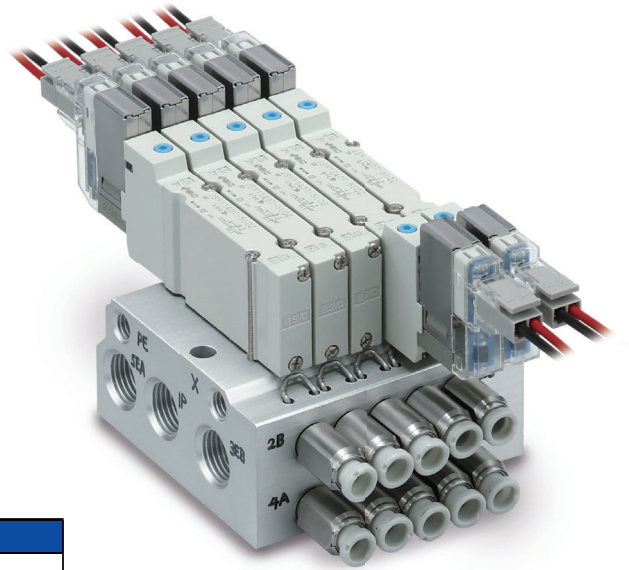
Power consumption is decreased to approx. 1/2.5 to 1/4 of the amount consumed at startup by reducing the wattage required to hold the valve in an energised state.
(Effective energizing time is over 62 ms at 24 VDC.) Refer to the electrical power waveform as shown on the right.



Space Saving

Volume
Max. **36 % reduction**

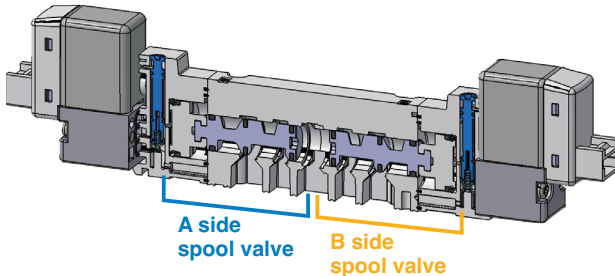
Weight
Max. **57 % reduction**



| | Volume [cm³] | Weight [g] |
|----------------|--------------|------------|
| JSY1000 | 210 | 240 |
| SY3000 | 330 | 560 |
| JSY3000 | 460 | 470 |
| SY5000 | 640 | 870 |
| JSY5000 | 850 | 960 |
| SY7000 | 990 | 1160 |

4-Position Dual 3-Port Valve Available

- Two 3-port valves built into one body

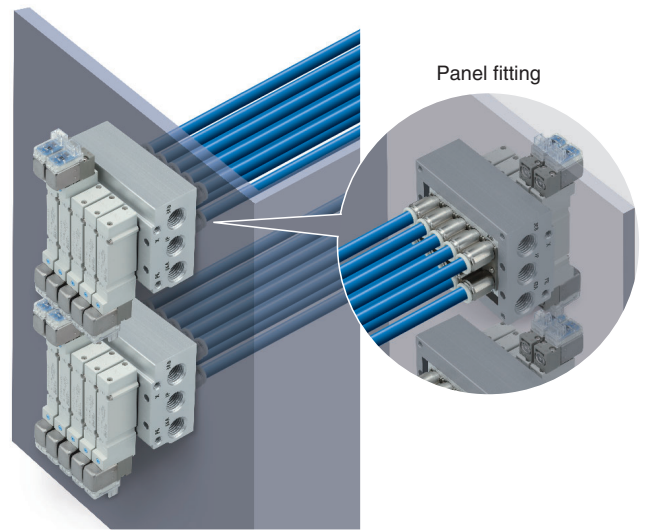


- 3-port valves on the A and B sides can operate independently.
- When used as a 3-port valve, only half the number of stations is required.
- Can also be used as a 4-position, 5-port valve

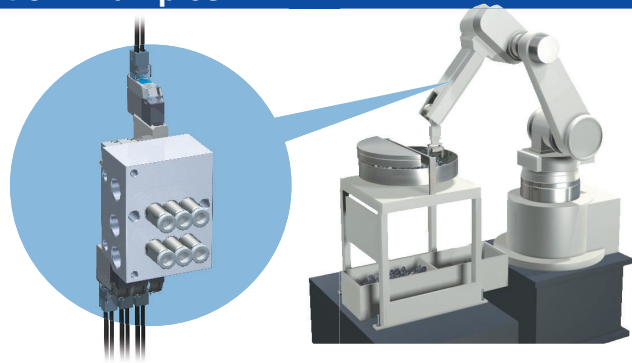
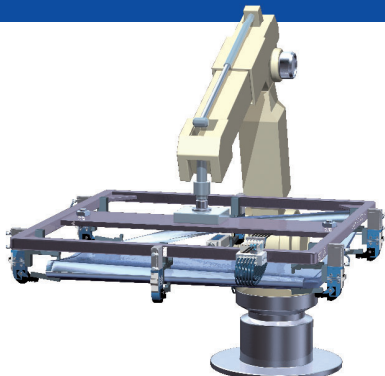
- Combination examples

| Model | A side | B side |
|----------------|------------|------------|
| JSY□A4□ | N.C. valve | N.C. valve |
| JSY□B4□ | N.O. valve | N.O. valve |
| JSY□C4□ | N.C. valve | N.O. valve |


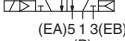






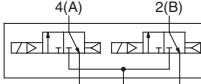
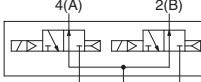
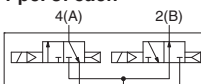
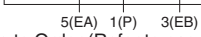
Bottom ported is prepared (A, B port).



Application Examples



Series Variations

| | Piping direction | Sonic conductance C [dm³/(s·bar)] { 4/2→5/3 (A/B→EA/EB)} | Type of actuation | Rated voltage | Port size | | | | | | | | | | Manifold Options | | | | Valve Options | | | | |
|--|------------------|---|---|---------------|---------------|----|-----|-----|-------------------|-----|-----|-----|------|------|------------------|----------------|-----------------------|-----------------------|--|-----------------------------------|---------------------|---------------------|---------------------|
| | | | | | A, B port | | | | | | | | | | P, E port | Blanking plate | Individual SUP spacer | Individual EXH spacer | SUP stop valve spacer with residual pressure release valve | Vacuum/Low pressure specification | Different pressures | Reverse pressure | Mixed fitting sizes |
| | | | | | Thread piping | | | | One-touch fitting | | | | | | | | | | | | | | |
| | | | | | M3 | M5 | 1/8 | 1/4 | Ø 2 | Ø 4 | Ø 6 | Ø 8 | Ø 10 | Ø 12 | | | | | | | | | |
|  JSY 1000 | Side | ø6 | 2-position single (A)4 2(B)  (EA)5 1 3(EB) (P) | 24 VDC | | | | | | | | | | | | | | | | | | | |
| | Bottom | | 2-position double (A)4 2(B)  (EA)5 1 3(EB) (P) | | 0.63 | ● | ● | — | — | ● | ● | ● | — | — | — | 1/8 | | | | ○ *1 p.39-1 | | | |
|  JSY 3000 | Side | ø8 | 3-position closed centre (A)4 2(B)  (EA)5 1 3(EB) (P) | | 0.75 | | | | | | | | | | | | | | | | | | |
| | Bottom | | 3-position exhaust centre (A)4 2(B)  (EA)5 1 3(EB) (P) | | 1.81 | — | ● | ● | — | — | ● | ● | ● | — | — | 1/4 | ○ p.38 | ○ p.38 | ○ p.38 | — | ▲ External pilot | ○ Individual SUP | ▲ External pilot |
|  JSY 5000 | Side | ø12 | 3-position pressure centre (A)4 2(B)  (EA)5 1 3(EB) (P) | | 2.13 | | | | | | | | | | | | | | | | | | |
| | Bottom | | 4-position dual 3-port valve N.C. valve x 2 pcs.  N.O. valve x 2 pcs.  N.C. valve, N.O. valve 1 pc. of each   | | 3.72 | — | — | ● | ● | — | — | ● | ● | ● | ● | 3/8 | | | | | | | |

● Standard ○ Option ▲ Made to Order (Refer to page 40.)

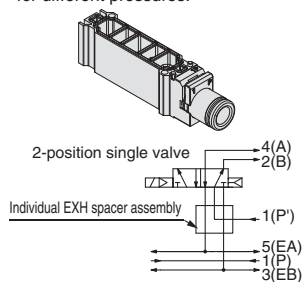
*1 Only M5 and Ø 6 for the A, B ports

*2 Only for when using an M8 connector, DIN terminal, or M12 connector (DIN terminal and M12 connector: Only for the JSY5000)

Manifold Options

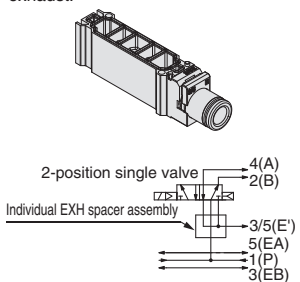
Individual SUP spacer p. 38

When the same manifold is used for different pressures, an individual SUP spacer is used as a supply port for different pressures.



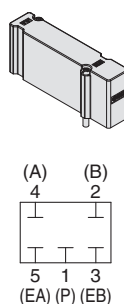
Individual EXH spacer p. 38

When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust.



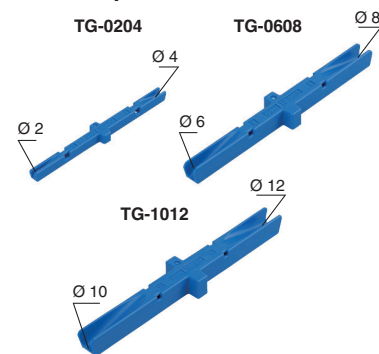
Blanking plate p. 38

Used when valve additions are expected or for maintenance.



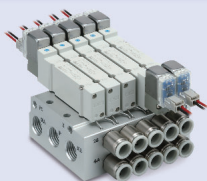
Tube Releasing Tool

This tool is used for removing the tube from port A and B. p. 36



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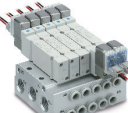



| | | | |
|--|------|-------------------------------|-------|
| Optimum Actuation Size Chart of Air Cylinder..... | p. 5 | Valve Construction | p. 11 |
| Valve Specifications (Specifications, Response Time, Weight)..... | p. 9 | Valve Replacement Parts | p. 12 |



Manifold

Non Plug-in Metal Base

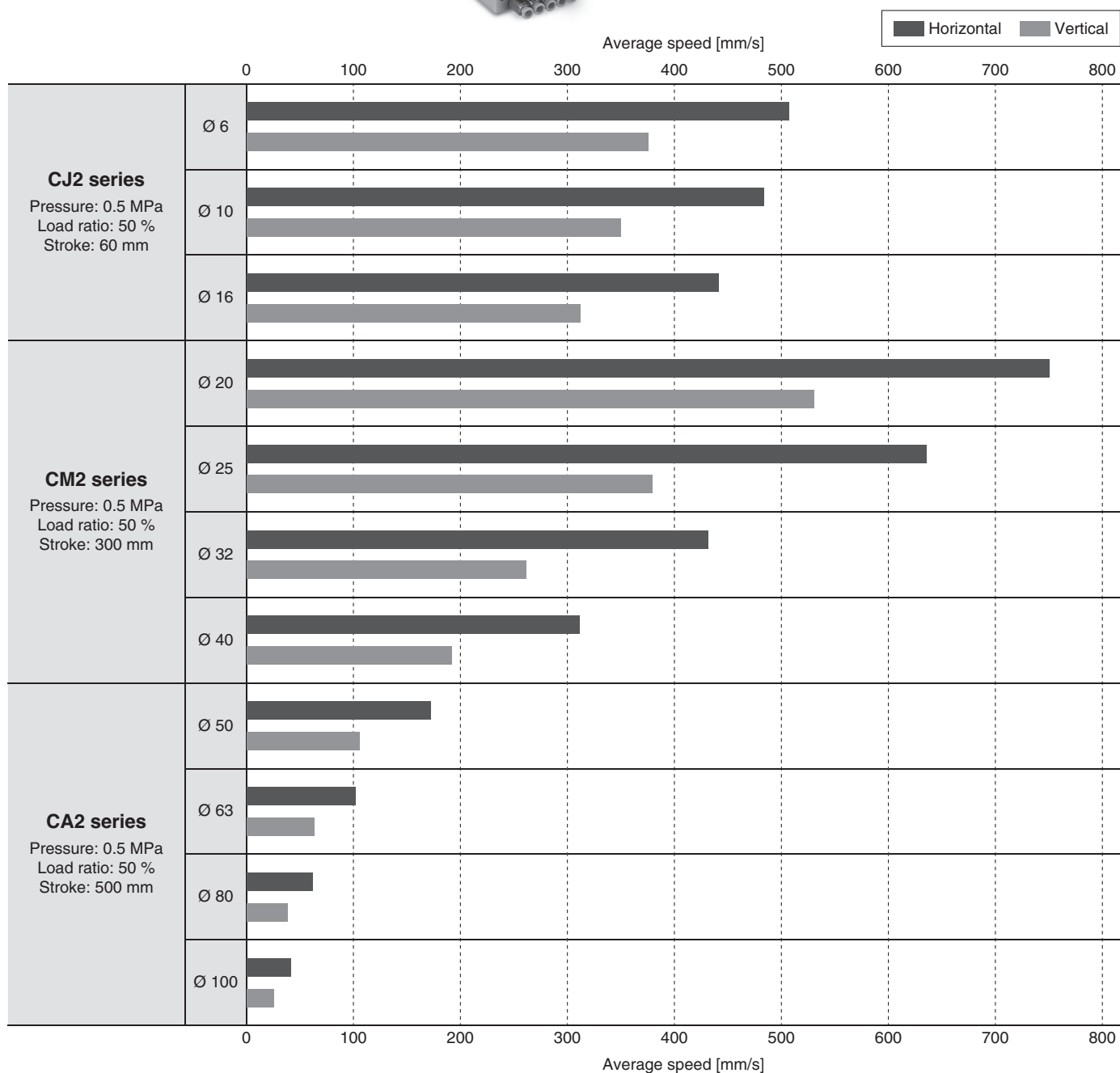
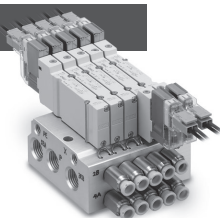
Type 40 Side Ported/Type 41 Bottom Ported p. 14

| | |
|---|---|
|  <p>JSY1000 Side ported</p>  <p>JSY1000 Bottom ported</p> | <p>Non Plug-in Metal Base (Specifications, Flow Rate Characteristics, Weight)..... p. 14</p> |
| | Dimensions/JSY1000: Type 40 Side Ported p. 17 |
| | Dimensions/JSY1000: Type 41 Bottom Ported p. 20 |
|  <p>JSY3000 Side ported</p>  <p>JSY3000 Bottom ported</p> | Dimensions/JSY3000: Type 40 Side Ported p. 23 |
| | Dimensions/JSY3000: Type 41 Bottom Ported p. 26 |
|  <p>JSY5000 Side ported</p>  <p>JSY5000 Bottom ported</p> | Dimensions/JSY5000: Type 40 Side Ported p. 29 |
| | Dimensions/JSY5000: Type 41 Bottom Ported p. 32 |

| | |
|---|------------|
| Manifold Exploded View | p. 35 |
| One-touch Fittings, Clip, Port Plate, Tube Releasing Tool | p. 36 |
| Manifold Options..... | p. 37 |
| Made to Order | p. 40 |
| Specific Product Precautions..... | p. 41 |
| Safety Instructions | Back cover |

Optimum Actuation Size Chart of Air Cylinder

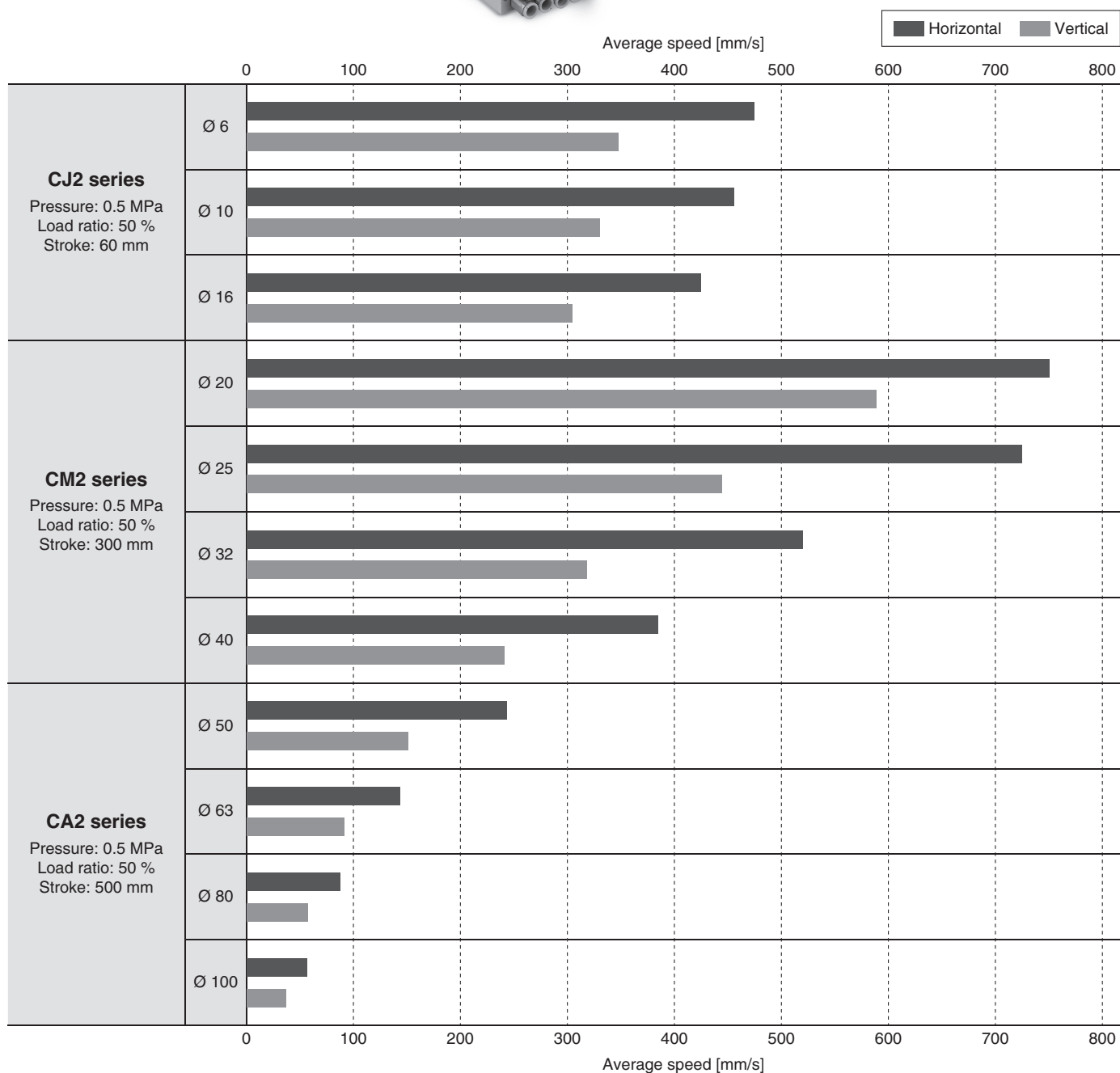
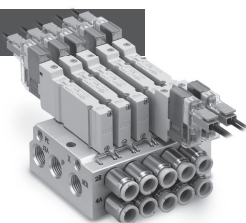
For JSY1000, A, B port: Ø 4



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalogue for details.

Optimum Actuation Size Chart of Air Cylinder

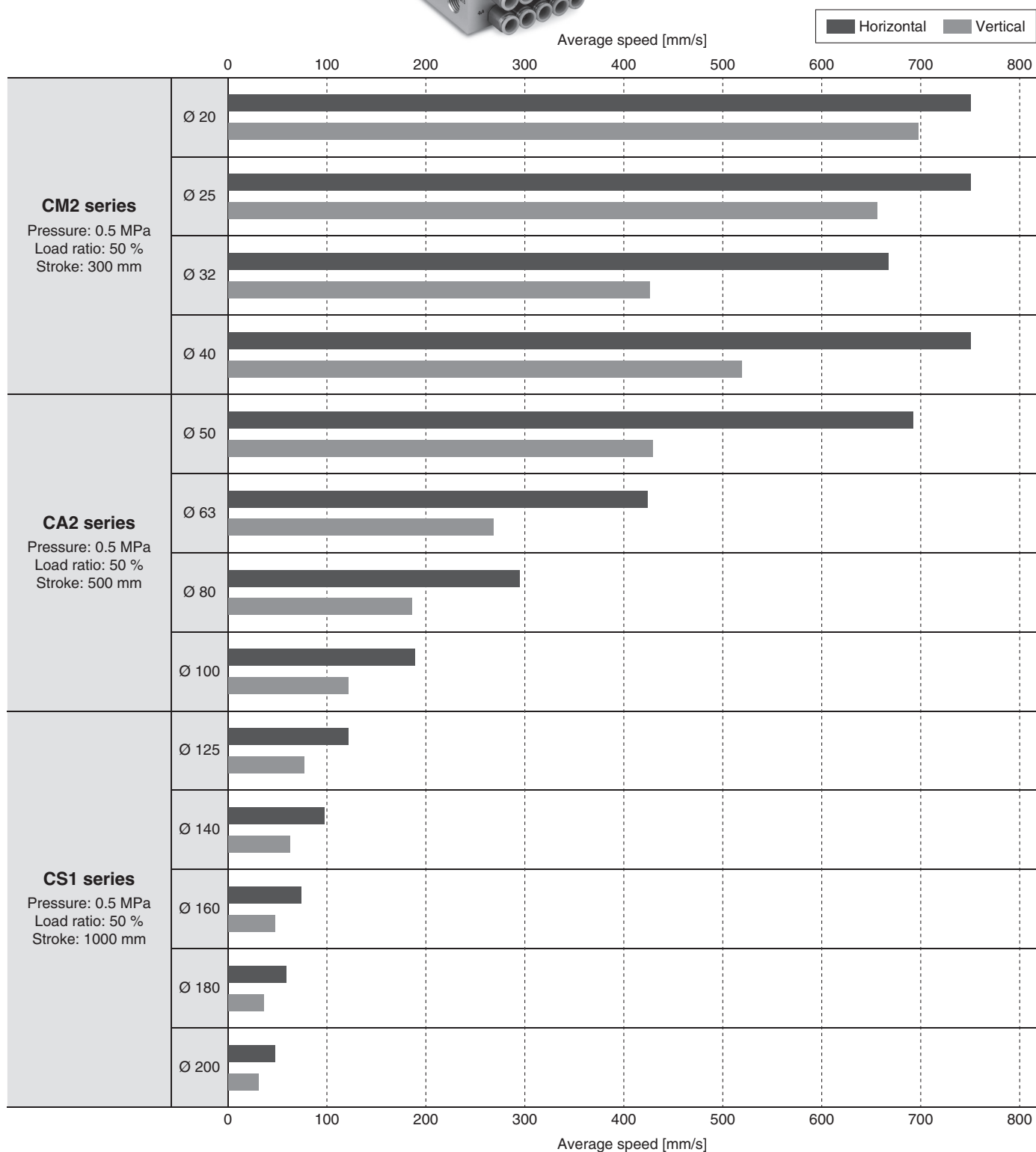
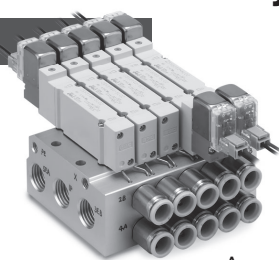
For JSY1000, A, B port: Ø 6



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalogue for details.

Optimum Actuation Size Chart of Air Cylinder

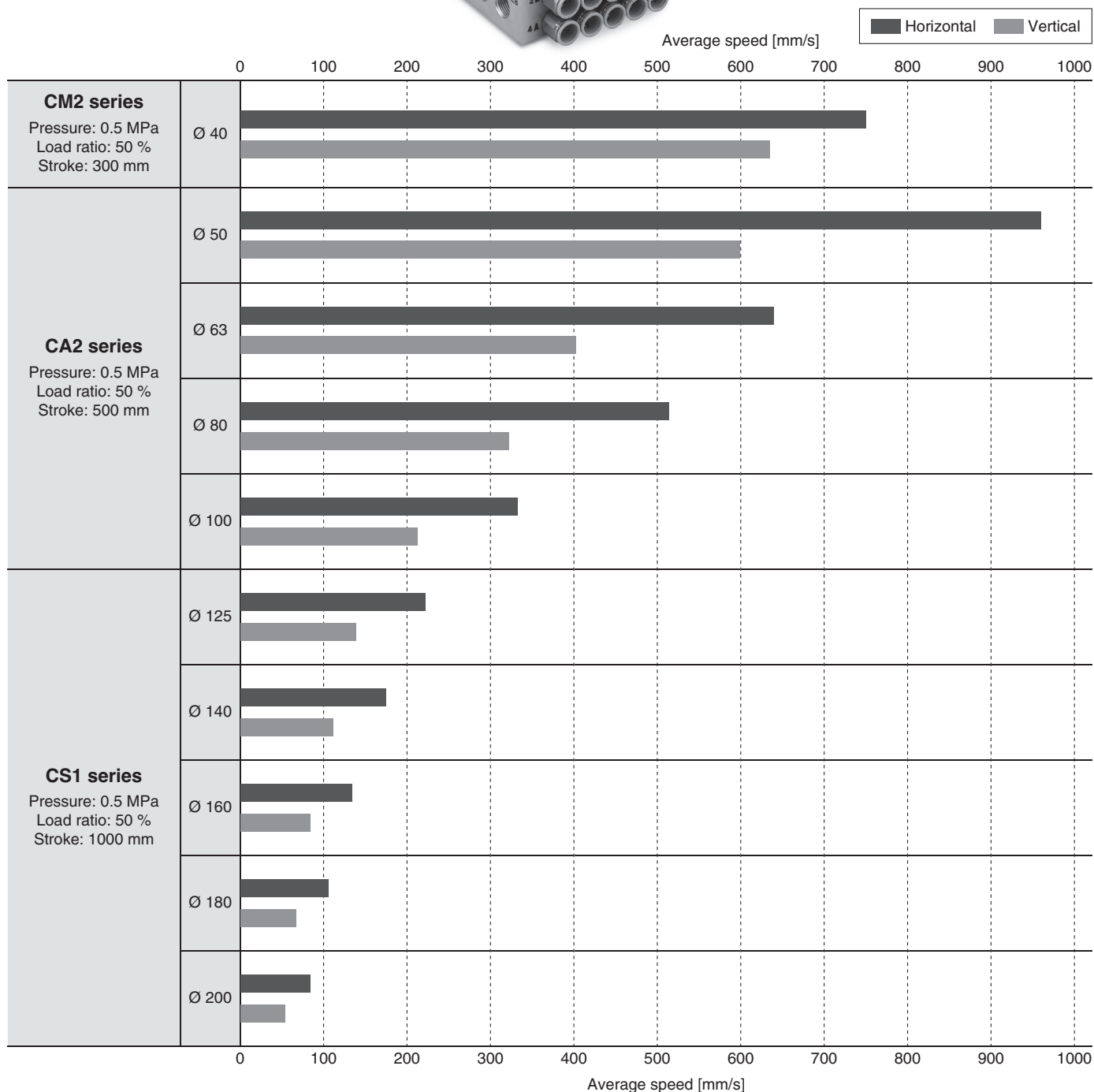
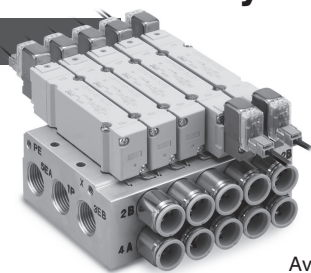
For JSY3000, A, B port: Ø 8



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalogue for details.

Optimum Actuation Size Chart of Air Cylinder

For JSY5000, A, B port: Ø 12



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalogue for details.

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

| Valve type | | | Rubber seal | |
|---|--------------------------------|------------------------------|--|---------------------------------|
| Fluid | | | Air | |
| Internal pilot operating pressure range [MPa] | 2-position single | | 0.15 to 0.7 | |
| | 2-position double | | 0.1 to 0.7 | |
| | 3-position | | 0.2 to 0.7 | |
| | 4-position dual 3-port valve | | 0.15 to 0.7 | |
| External pilot operating pressure range [MPa] (Made to Order) | Operating pressure range | | -100 kPa to 0.7 | |
| | Pilot pressure range | 2-position single | 0.25 to 0.7 | |
| | | 2-position double | | |
| | | 3-position | | |
| Ambient and fluid temperatures [°C] | | | -10 to 50 (No freezing) | |
| Max. operating frequency [Hz] | JSY1000/3000 | 2-position single/double | 5 | |
| | | 4-position dual 3-port valve | | |
| | | 3-position | | |
| | JSY5000 | 2-position single/double | 5 | |
| | | 4-position dual 3-port valve | 3 | |
| | | 3-position | 3 | |
| Manual override | | | Non-locking push type | |
| | | | Push-turn locking slotted type | |
| | | | Push-turn locking lever type | |
| Pilot exhaust type | Internal pilot | | Individual exhaust | |
| | External pilot (Made to Order) | | | |
| Lubrication | | | Not required | |
| Mounting orientation*1 | | | Unrestricted | |
| Impact/Vibration resistance*1 [m/s²] | | | 150/30 | |
| Enclosure | | | IP40/IP65: M8 connector (W) (WA) type | |
| Electrical entry | | | L plug connector (L), M plug connector (M), M8 connector (W)(WA) | |
| Coil rated voltage [V] | | | 24 VDC | |
| Allowable voltage fluctuation | | JSY1000 | -7 % to +10 % of the rated voltage (24 VDC) | |
| | | JSY3000/5000 | ±10 % of the rated voltage | |
| Power consumption [W] | DC | Standard | JSY3000/5000 | 0.4 |
| | | With power saving circuit*3 | JSY1000 | 0.2*2 [Inrush 0.5, Holding 0.2] |
| | | | JSY3000/5000 | 0.1*4 [Inrush 0.4, Holding 0.1] |
| Surge voltage suppressor | | | Diode | |
| Indicator light | | | LED | |

- *1 Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energised and de-energised states every once for each condition. (Values at the initial period)
Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energised and de-energised states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)
Refer to page 45-1 for the fixation of DIN rail mounting type manifold.
- *2 JSY1000 series available as power saving type only. Standard type (without power saving circuit) cannot be selected.
- *3 The type with a power-saving circuit is not available for the DIN terminal, M8 connector, and M12 connector types.
- *4 For details, refer to page 44.

Response Time/Valve Weight

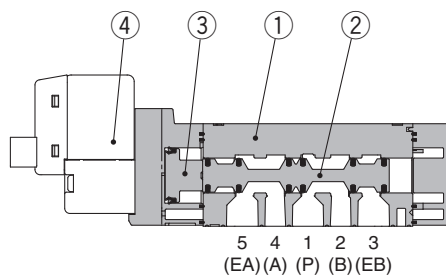
| Series | Seal type | Model | Type of actuation | Response time [ms] (at 0.5 MPa)*1 | Weight [g] | | | | |
|---------|-------------|----------------|------------------------------|--|--------------------------|-----------------|-------------------------|-----------------------|----|
| | | | | Standard | | | | | |
| | | | | With light/surge voltage suppressor | L/M plug connector | DIN terminal | W/WA M8 connector | K M12 connector | |
| | | | | Z type | | | | | |
| JSY1000 | Rubber seal | JSY1140T | 2-position single | 15 | 17 | — | — | — | |
| | | JSY1240T | 2-position double | 5 | 24 | | | | |
| | | JSY1(3/4/5)40T | 3-position | 13 | 25 | | | | |
| | | JSY1(A/B/C)40T | 4-position dual 3-port valve | 14 | 24 | | | | |
| JSY3000 | | JSY3140 | 2-position single | 27 | 34 | | — | | 38 |
| | | JSY3240 | 2-position double | 10 | 49 | | | | 57 |
| | | JSY3(3/4/5)40 | 3-position | 30 | 52 | | | | 60 |
| | | JSY3(A/B/C)40 | 4-position dual 3-port valve | 27 | 48 | | | | 56 |
| JSY5000 | | JSY5140 | 2-position single | 42 | 66 | 94 | 70 | 88 | |
| | | JSY5240 | 2-position double | 13 | 83 | 139 | 91 | 127 | |
| | | JSY5(3/4/5)40 | 3-position | 40 | 93 | 149 | 101 | 137 | |
| | | JSY5(A/B/C)40 | 4-position dual 3-port valve | 41 | 80 | 136 | 88 | 124 | |

*1 Based on dynamic performance test, JIS B 8419-2010. (Coil temperature: 20 °C, at rated voltage)

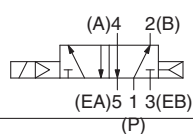
JSY1000/3000/5000 Series Valve Construction

Rubber Seal

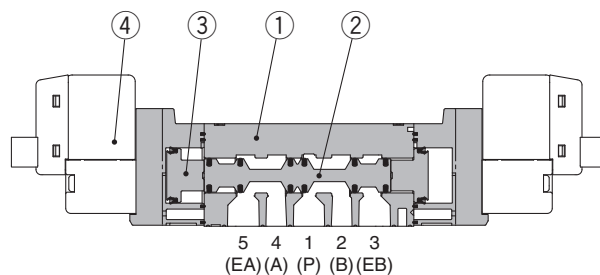
2-position single



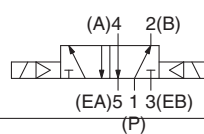
2-position single



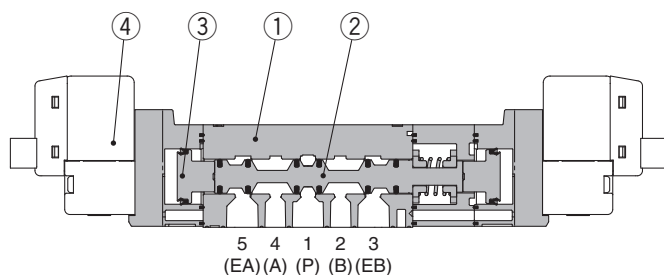
2-position double



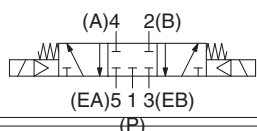
2-position double



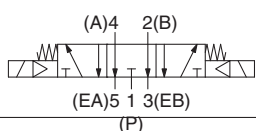
3-position closed centre/exhaust centre/pressure centre



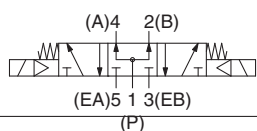
3-position closed centre



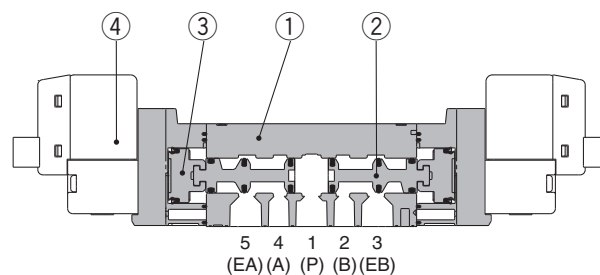
3-position exhaust centre



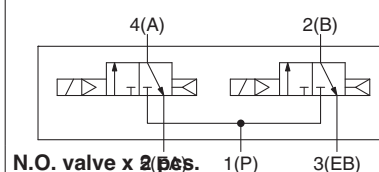
3-position pressure centre



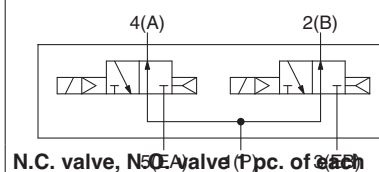
4-position dual 3-port valve



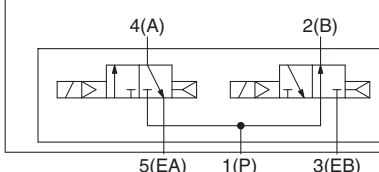
4-position dual 3-port valve N.C. valve x 2 pcs.



N.O. valve x 2 pcs.



N.C. valve, N.O. valve (Ppc. of each)



Component Parts

| No. | Description | Material |
|-----|----------------------|--|
| 1 | Body | Aluminium die-casted |
| 2 | Spool valve | Aluminium/HNBR (4-position solenoid valve: Resin/HNBR) |
| 3 | Piston | Resin |
| 4 | Pilot valve assembly | — |

JSY1000/3000/5000 Series Valve Replacement Parts

How to Order Pilot Valves

For JSY1000

V050 T - 5 □ Z

Coil type

| | |
|----------|---------------------------|
| T | With power saving circuit |
|----------|---------------------------|

Rated voltage

| | |
|----------|--------|
| 5 | 24 VDC |
|----------|--------|

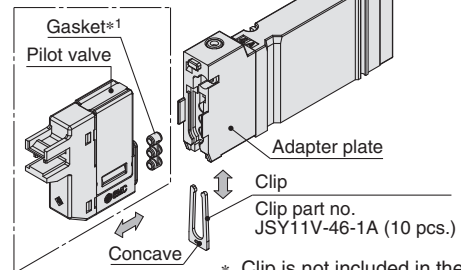
Electrical entry

| | | |
|-----------|------------------|-------------------|
| L | L plug connector | With lead wire |
| LO | connector | Without connector |
| M | M plug connector | With lead wire |
| MO | connector | Without connector |

Light/surge voltage suppressor

| | |
|----------|-------------------------------------|
| Z | With light/surge voltage suppressor |
|----------|-------------------------------------|

How to replace pilot valves



* Clip is not included in the pilot valve.

Caution

Removal

- 1) Remove the clip from the adapter plate by using a flat head screwdriver on the concave of the clip.
- 2) Remove the pilot valve in the direction of the arrow. (Remove also the gasket together.)

Mounting

- 1) Mount the pilot valve on the adapter plate.
- 2) Insert the clip into the adapter plate so that the clip will not protrude from the end of the adapter plate.

*1 Confirm that the gasket is mounted on the pilot valve.

For JSY3000/5000

V111 □ - 5 □ Z

Coil type

| | |
|----------|---------------------------|
| — | Standard |
| T | With power saving circuit |

* Power saving circuit is not available in the case of W□ or WA□ type.

Rated voltage

| | |
|----------|--------|
| 5 | 24 VDC |
|----------|--------|

Electrical entry

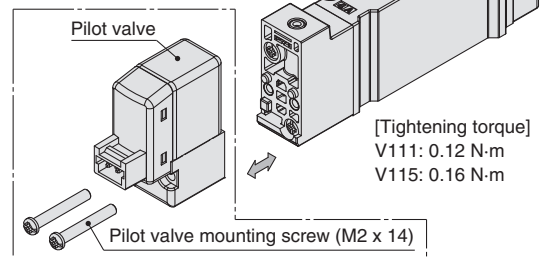
| | | |
|------------|------------------|-------------------------|
| L | L plug connector | With lead wire |
| LO | connector | Without connector |
| M | M plug connector | With lead wire |
| MO | connector | Without connector |
| WO | M8 connector | Without connector cable |
| W□ | connector | With connector cable |
| WAO | M8 connector | Without connector cable |
| WA□ | connector | With connector cable |

- * Refer to "Electrical entry" on page 16 for details on options "WAO" and "WA□".
- * For W□ and WA□, enter the cable length symbols in □. Please be sure to fill in the blank referring to page 44.
- * The "WAO" and "WA□" M8 connectors are IEC 60947-5-2 standard compliant.
- * When replacing only the pilot valve assembly, be aware that the V111 and the V115 are not interchangeable.

Light/surge voltage suppressor

| | |
|----------|-------------------------------------|
| Z | With light/surge voltage suppressor |
|----------|-------------------------------------|

How to replace pilot valves



[Tightening torque]
V111: 0.12 N·m
V115: 0.16 N·m

DIN terminal type, M12 connector type (JSY5000 only)

V115 - 5 D □

Rated voltage

| | |
|----------|--------|
| 5 | 24 VDC |
|----------|--------|

Electrical entry

| | | |
|-----------|---------------|-------------------------|
| D | DIN terminal | With connector |
| DO | (D type) | Without connector |
| Y | DIN terminal | With connector |
| YO | (Y type) | Without connector |
| K□ | M12 connector | With connector cable |
| KO | | Without connector cable |

- * When replacing only the pilot valve assembly, be aware that the V111 and the V115 are not interchangeable.
- * Refer to "Electrical entry" on page 16 for details on the "K□" and "KO" types.
- * Enter the cable length symbols in K□. Please be sure to fill in the blank referring to page 44.

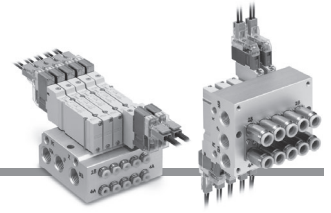
Light/ Surge voltage suppressor

| | |
|----------|-------------------------------------|
| Z | With light/surge voltage suppressor |
|----------|-------------------------------------|

Electrical entry for D, Y

| | |
|----------|--|
| S | With surge voltage suppressor (Non-polar type) |
| Z | With light/surge voltage suppressor (Non-polar type) |

- * Only "DOS" and "YOS" are available for the S type.
- * DOZ and YOZ are not available



Manifold Specifications

| | | | |
|-------------------|-------------------|---------|--|
| Manifold type | | | Non plug-in metal base |
| SUP/EXH port type | | | Common SUP/EXH |
| Valve stations | | | 2 to 20 stations |
| Port size | 1(P), 3/5(E) port | JSY1000 | 1/8 |
| | | JSY3000 | 1/4 |
| | | JSY5000 | 3/8 |
| | 4(A), 2(B) port | JSY1000 | M3 x 0.5, M5 x 0.8 Ø 2 One-touch fitting, Ø 4 One-touch fitting, Ø 6 One-touch fitting |
| | | JSY3000 | M5 x 0.8, 1/8 Ø 4 One-touch fitting, Ø 6 One-touch fitting, Ø 8 One-touch fitting |
| | | JSY5000 | 1/8, 1/4 Ø 6 One-touch fitting, Ø 8 One-touch fitting, Ø 10 One-touch fitting, Ø 12 One-touch fitting |

Manifold Flow Rate Characteristics/Manifold Weight

| Model | Port size | | Valve flow rate characteristics | | | | | | Weight: W [g]*1 (n: stations) | |
|------------------------------|------------------------|----------------|---------------------------------|------|-------------------|------------------------------|------|-------------------|----------------------------------|------------------|
| | 1, 5, 3 (P, EA, EB) | 4, 2 (A, B) | 1 → 4/2 (P → A/B) | | | 4/2 → 5/3 (A/B → E) | | | Fixed: C□ | Replaceable: KC□ |
| | | | C [dm ³ /(s·bar)] | b | Q [l/min (ANR)]*2 | C [dm ³ /(s·bar)] | b | Q [l/min (ANR)]*2 | | |
| JJ5SY1-40 (Side ported) | 1/8 | KC6 | 0.62 | 0.34 | 162 | 0.63 | 0.28 | 158 | 20.1n + 38 | 30.5n + 35 |
| JJ5SY1-41 (Bottom ported) | 1/8 | KC6 | 0.74 | 0.46 | 211 | 0.75 | 0.36 | 198 | 20.8n + 38 | 33.8n + 35 |
| JJ5SY3-40 (Side ported) | 1/4 | KC8 | 1.86 | 0.36 | 492 | 1.81 | 0.27 | 452 | 38.0n + 84 | 54.4n + 86 |
| JJ5SY3-41 (Bottom ported) | 1/4 | KC8 | 2.31 | 0.43 | 642 | 2.13 | 0.31 | 545 | 41.2n + 84 | 59.6n + 80 |
| JJ5SY5-40 (Side ported) | 3/8 | KC12 | 3.61 | 0.30 | 918 | 3.72 | 0.18 | 881 | 90.1n + 148 | 121.5n + 144 |
| JJ5SY5-41 (Bottom ported) | 3/8 | KC12 | 4.28 | 0.40 | 1164 | 4.47 | 0.25 | 1102 | 95.8n + 133 | 140.1n + 122 |

*1 Weight: W is the value of the internal pilot, and maximum manifold size with tube fitting type. Valve is not included. To obtain the weight with valves attached, add the valve weights given on page 10 for the appropriate number of stations.

*2 These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with and inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

* Calculation of effective area S and sonic conductance C: $S = 5.0 \times C$

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

* Bottom port is available only for 4, 2 (A, B) port.

Type 40
Side Ported

Type 41
Bottom Ported

Non Plug-in Metal Base

JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds

JJ5SY **3** - **40** - **05** **D** - **C6**

1 2 3 4 5 6 7



Made to Order
(Refer to page 40 for details.)

| |
|----------------|
| Specification |
| External pilot |

1 Series

| | |
|---|---------|
| 1 | JSY1000 |
| 3 | JSY3000 |
| 5 | JSY5000 |

2 Type

| | |
|----|---------------|
| 40 | Side ported |
| 41 | Bottom ported |

* The external pilot specification should be ordered as Made to Order. For details, refer to page 40.

3 Valve stations

| Symbol | Stations |
|--------|-------------|
| 02 | 2 stations |
| ⋮ | ⋮ |
| 20 | 20 stations |

4 P, E port entry

| | |
|---|------------|
| U | U side*1 |
| D | D side*1 |
| B | Both sides |

*1 Plugs are mounted on the opposite side of the selected ports.

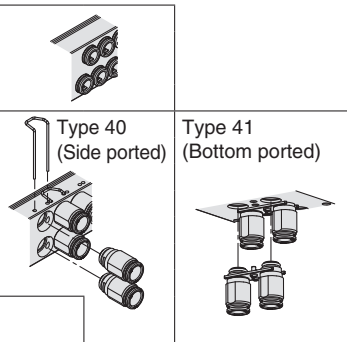
5 A, B port size

Thread piping

| Symbol | A, B port | JSY1000 | JSY3000 | JSY5000 |
|--------|-----------|---------|---------|---------|
| M3 | M3 x 0.5 | ● | — | — |
| M5 | M5 x 0.8 | ● | ● | — |
| 01 | 1/8 | — | ● | ● |
| 02 | 1/4 | — | — | ● |

One-touch fitting (Metric)

| Symbol | A, B port | JSY1000 | JSY3000 | JSY5000 |
|--------------------------------|----------------------|---------|---------|---------|
| Fixed | C2 | ● | — | — |
| | C4 | ● | — | — |
| | C6 | — | ● | — |
| | C8 | — | — | ● |
| Replaceable | KC2 | ● | — | — |
| | KC4 | ● | ● | — |
| | KC6 | ● | ● | ● |
| | KC8 | — | ● | ● |
| | KC10 | — | — | ● |
| | KC12 | — | — | ● |
| | M*1 A, B ports mixed | ●*2 | ● | ● |
| P, E port size (Thread piping) | | 1/8 | 1/4 | 3/8 |



7 Mounting

| | |
|-----|--------------------------------------|
| — | Direct mounting |
| D | DIN rail mounting (With DIN rail) |
| D0 | DIN rail mounting (Without DIN rail) |
| D3 | For 3 stations |
| ⋮ | ⋮ |
| D20 | For 20 stations |

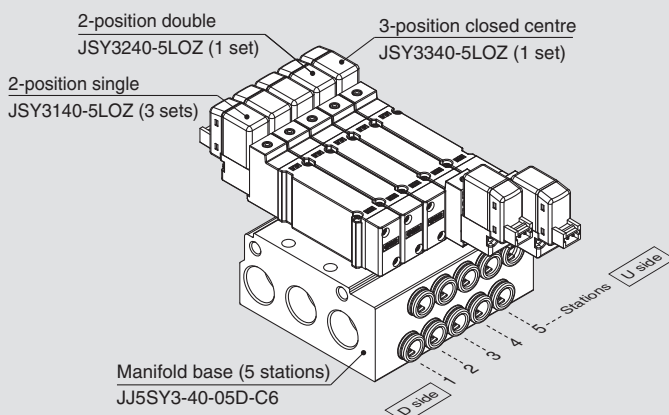
* Only direct mounting is available for Type 41 (Bottom ported).
* Refer to page 45 for the fixation of DIN rail mounting type manifold.

*1 When ports are mixed sizes, indicate the piping specifications on the manifold specification sheet.

*2 In case of replacement of JSY1000 One-touch fitting, A and B port can only be mixed on the manifold base for KC2 and KC4.

How to Order Manifold Assembly

Example (JJ5SY3-40-□)



JJ5SY3-40-05D-C6-1 set (Type 40 5-station manifold base part no.)

* JSY3140-5LOZ-.....3 sets (2-position single part no.)

* JSY3240-5LOZ-.....1 set (2-position double part no.)

* JSY3340-5LOZ-.....1 set (3-position closed centre part no.)

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

- The valve arrangement is numbered as the 1st station from the D side.
- Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

Internal Pilot

How to Order Valves (With two mounting screws)

JSY **3** **1** **40** **□** - **5** **□** **Z** **□**

1 2 3 4 5 6



Made to Order
(Refer to page 40 for details.)

Specification
External pilot

1 Series

| | |
|---|---------|
| 1 | JSY1000 |
| 3 | JSY3000 |
| 5 | JSY5000 |

2 Type of actuation

| | | |
|---|-------------|-----------------|
| 1 | 2-position | Single |
| 2 | | Double |
| 3 | | Closed centre |
| 4 | 3-position | Exhaust centre |
| 5 | | Pressure centre |
| A | | (N.C./N.C.) |
| B | 4-position | (N.O./N.O.) |
| C | dual 3-port | (N.C./N.O.) |

3 Coil specifications

| Symbol | Coil specifications | JSY1000 | JSY3000 | JSY5000 |
|--------|---|---------|---------|---------|
| - | Standard | — | ● | ● |
| T | With power-saving circuit (Continuous duty type) | ● | ● | ● |

- * For the JSY1000 series, only the power-saving circuit specification is available.
- * Be careful of the energising time when the power-saving circuit is selected. For details, refer to page 45.
- * Power saving circuit is not available in the case of D□, Y□, W□, K□ type.

4 Electrical entry

| | L plug connector | | M plug connector | | DIN terminal (JSY5000 only) | |
|--------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-----------------------------|-------------------------------|
| | L | LO | M | MO | D, Y | DO, YO |
| JSY1000 | L: With lead wire (300 mm) | LO: Without connector | M: With lead wire (300 mm) | MO: Without connector | — | — |
| JSY3000 JSY5000 | L: With lead wire (300 mm) | LO: Without connector | M: With lead wire (300 mm) | MO: Without connector | D, Y: With connector | DO, YO: Without connector |

5 Light/surge voltage suppressor

Electrical entry for L, M, W, WA, K

| | |
|---|---|
| Z | With light/surge voltage suppressor (Polar type) |
|---|---|

Electrical entry for D, Y

| | |
|---|---|
| S | With surge voltage suppressor (Non-polar type) |
| Z | With light/surge voltage suppressor (Non-polar type) |

- * Only "DOS" and "YOS" are available for the S type.
- * "DOZ" and "YOZ" are not available

| | M8 connector*1 | | | | M12 connector (JSY5000 only) | |
|--------------------|------------------------------|---------------------------------|-------------------------------|----------------------------------|------------------------------|---------------------------------|
| | W□ | WO | WA□ | WAO | K□ | KO |
| JSY1000 | — | — | — | — | — | — |
| JSY3000 JSY5000 | W□: With connector cable | WO: Without connector cable | WA□: With connector cable | WAO: Without connector cable | K□: With connector cable | KO: Without connector cable |

- *1 Refer to page 43 for the lead wire length of L and M plug connectors.
- *1 The "WAO" and "WA□" M8 connectors are IEC 60947-5-2 standard compliant.
- *1 Refer to page 45 for polarity details and the pin wiring diagram.
- *1 For connector cable of M8 connector, refer to page 44.
- *1 Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 44.
- *1 For connector cable of M12 connector, refer to page 44.
- *1 "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 49.

6 Manual override

| | | | |
|--------------|------------------------------|---------------------------------------|-------------------------------------|
| JSY1000 | —: Non-locking push type | D: Push-turn locking slotted type | E: Push-turn locking lever type |
| JSY3000/5000 | —: Non-locking push type | D: Push-turn locking slotted type | E: Push-turn locking lever type |

When ordering a valve individually, the base gasket is not included.

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service.
Refer to page 35 for base gasket and mounting screw part numbers.

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type) specifications.

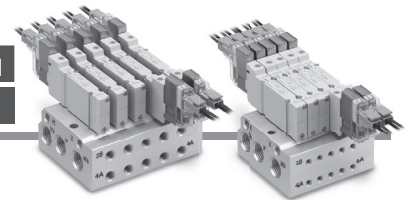
JSY1000/3000/5000 Series

Dimensions: JSY1000 Series

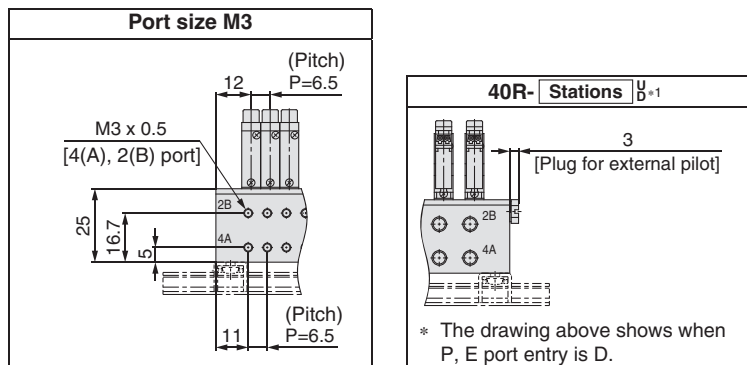
Non Plug-in
Metal Base

Type 40/Side Ported

Port Size: M3, M5

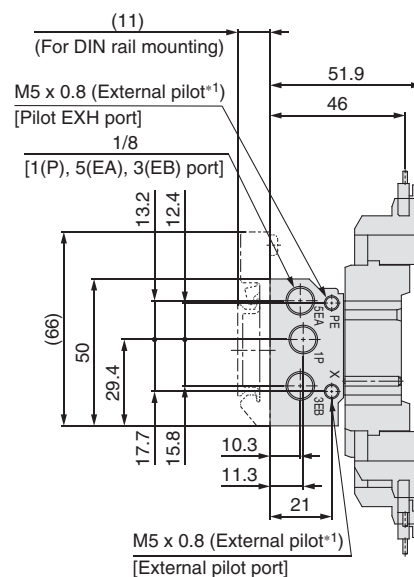
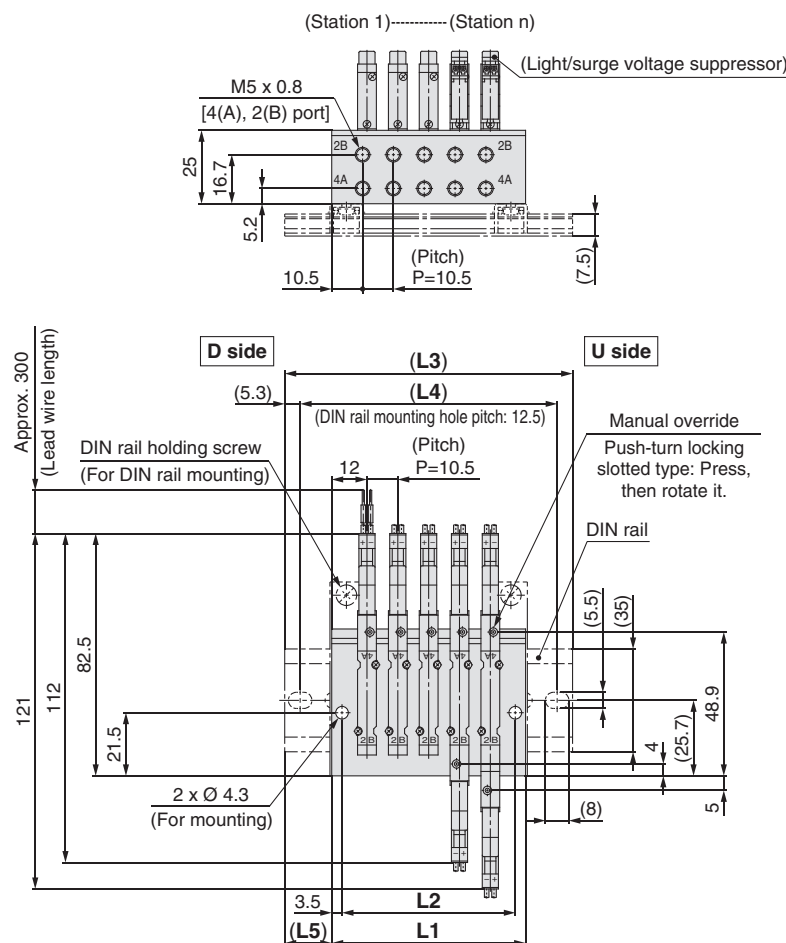
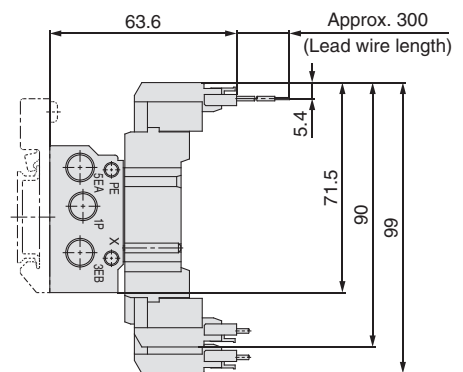


JJ5SY1-40(R)- Stations $\frac{U}{D}$ - M3 \square (D)



*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY1-40-05B-M5."

M plug connector (M)



L Dimensions: Port Size M5

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 34.5 | 45.0 | 55.5 | 66.0 | 76.5 | 87.0 | 97.5 | 108.0 | 118.5 | 129.0 | 139.5 | 150.0 | 160.5 | 171.0 | 181.5 | 192.0 | 202.5 | 213.0 | 223.5 |
| L2 | 27.5 | 38.0 | 48.5 | 59.0 | 69.5 | 80.0 | 90.5 | 101.0 | 111.5 | 122.0 | 132.5 | 143.0 | 153.5 | 164.0 | 174.5 | 185.0 | 195.5 | 206.0 | 216.5 |
| L3 | 60.5 | 73.0 | 85.5 | 98.0 | 110.5 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 260.5 | 273.0 | 285.5 |
| L4 | 50.0 | 62.5 | 75.0 | 87.5 | 100.0 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 187.5 | 200.0 | 212.5 | 225.0 | 237.5 | 250.0 | 262.5 | 275.0 |
| L5 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 |

L Dimensions: Port Size M3

n: Stations

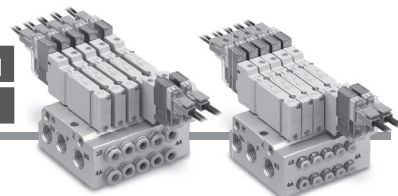
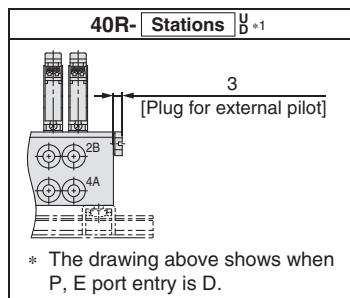
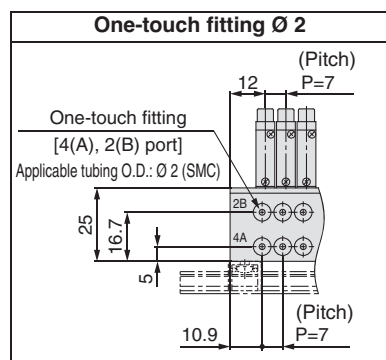
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 30.5 | 37.0 | 43.5 | 50.0 | 56.5 | 63.0 | 69.5 | 76.0 | 82.5 | 89.0 | 95.5 | 102.0 | 108.5 | 115.0 | 121.5 | 128.0 | 134.5 | 141.0 | 147.5 |
| L2 | 23.5 | 30.0 | 36.5 | 43.0 | 49.5 | 56.0 | 62.5 | 69.0 | 75.5 | 82.0 | 88.5 | 95.0 | 101.5 | 108.0 | 114.5 | 121.0 | 127.5 | 134.0 | 140.5 |
| L3 | 60.5 | 73.0 | 85.5 | 98.0 | 110.5 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 260.5 | 273.0 | 285.5 |
| L4 | 50.0 | 62.5 | 75.0 | 87.5 | 100.0 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 187.5 | 200.0 | 212.5 | 225.0 | 237.5 | 250.0 | 262.5 | 275.0 |
| L5 | 15.0 | 18.0 | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 45.0 | 48.0 | 51.0 | 54.0 | 57.0 | 60.0 | 63.0 | 66.0 | 69.0 |

Dimensions: JSY1000 Series

Non Plug-in
Metal Base

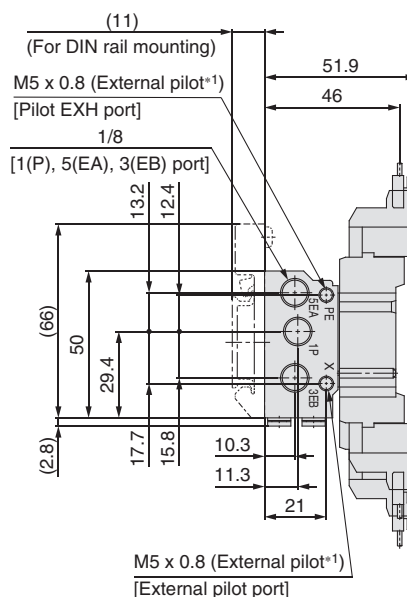
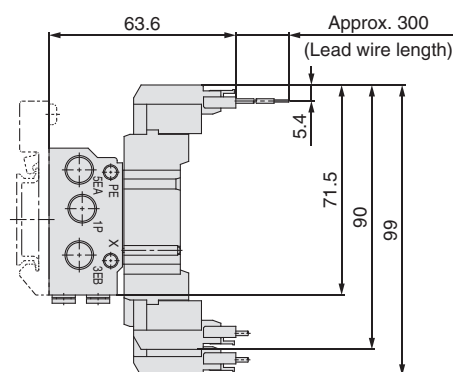
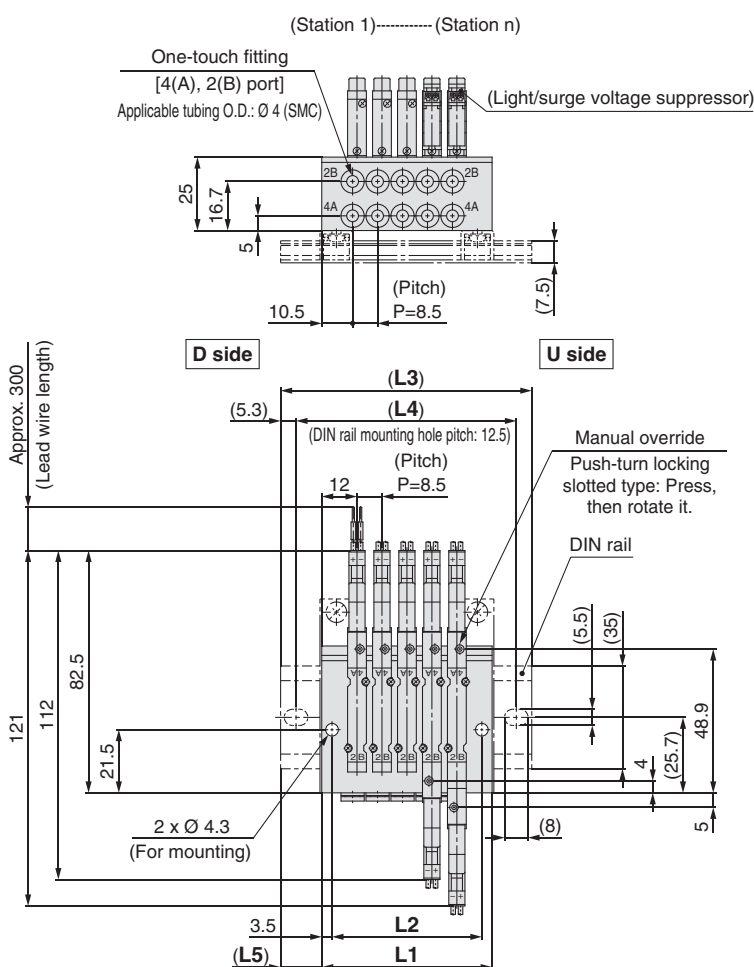
Type 40/Side Ported

Port Size: Ø 2, Ø 4/Fixed

JJ5SY1-40(R)- Stations $\frac{U}{B} - \frac{C2}{C4} \square (D)$ 

* 1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY1-40-05B-C4."

M plug connector (M)



L Dimensions: Port Size C4

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 32.5 | 41.0 | 49.5 | 58.0 | 66.5 | 75.0 | 83.5 | 92.0 | 100.5 | 109.0 | 117.5 | 126.0 | 134.5 | 143.0 | 151.5 | 160.0 | 168.5 | 177.0 | 185.5 |
| L2 | 25.5 | 34.0 | 42.5 | 51.0 | 59.5 | 68.0 | 76.5 | 85.0 | 93.5 | 102.0 | 110.5 | 119.0 | 127.5 | 136.0 | 144.5 | 153.0 | 161.5 | 170.0 | 178.5 |
| L3 | 60.5 | 73.0 | 85.5 | 85.5 | 98.0 | 110.5 | 110.5 | 123.0 | 135.5 | 135.5 | 148.0 | 160.5 | 160.5 | 173.0 | 185.5 | 185.5 | 198.0 | 210.5 | 223.0 |
| L4 | 50.0 | 62.5 | 75.0 | 75.0 | 87.5 | 100.0 | 100.0 | 112.5 | 125.0 | 125.0 | 137.5 | 150.0 | 150.0 | 162.5 | 175.0 | 175.0 | 187.5 | 200.0 | 212.5 |
| L5 | 14.0 | 16.0 | 18.0 | 14.0 | 16.0 | 18.0 | 13.5 | 15.5 | 17.5 | 13.5 | 15.5 | 17.5 | 13.0 | 15.0 | 17.0 | 13.0 | 15.0 | 17.0 | 19.0 |

L Dimensions: Port Size C2

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 | 157.0 |
| L2 | 24.0 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 |
| L3 | 60.5 | 73.0 | 73.0 | 85.5 | 85.5 | 98.0 | 110.5 | 110.5 | 123.0 | 123.0 | 135.5 | 135.5 | 148.0 | 148.0 | 160.5 | 173.0 | 173.0 | 185.5 | 185.5 |
| L4 | 50.0 | 62.5 | 62.5 | 75.0 | 75.0 | 87.5 | 100.0 | 100.0 | 112.5 | 112.5 | 125.0 | 125.0 | 137.5 | 137.5 | 150.0 | 162.5 | 162.5 | 175.0 | 175.0 |
| L5 | 15.0 | 17.5 | 14.0 | 17.0 | 13.5 | 16.0 | 19.0 | 15.5 | 18.0 | 14.5 | 17.5 | 14.0 | 16.5 | 13.0 | 16.0 | 18.5 | 15.0 | 18.0 | 14.5 |

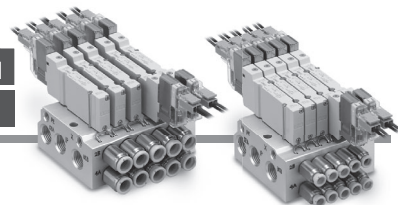
JSY1000/3000/5000 Series

Dimensions: JSY1000 Series

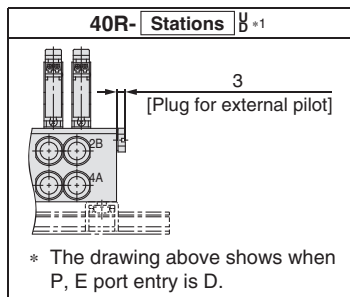
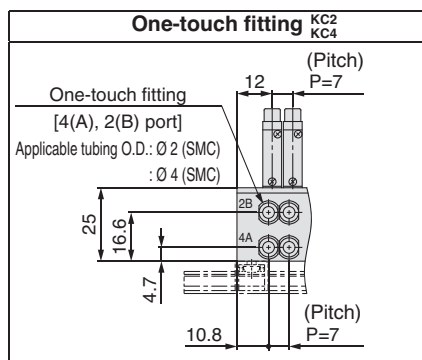
Non Plug-in
Metal Base

Type 40/Side Ported

Port Size: Ø 2, Ø 4, Ø 6/Replaceable

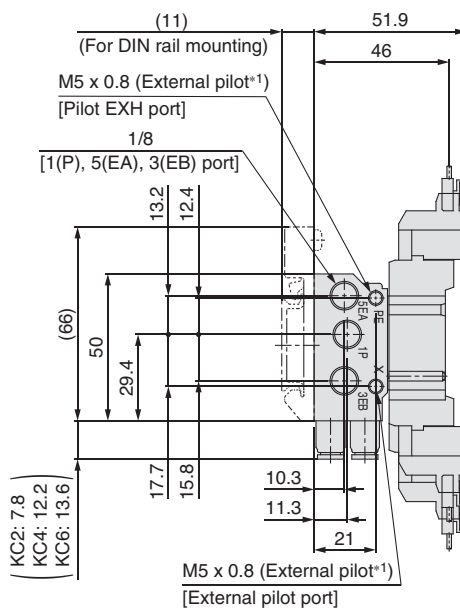
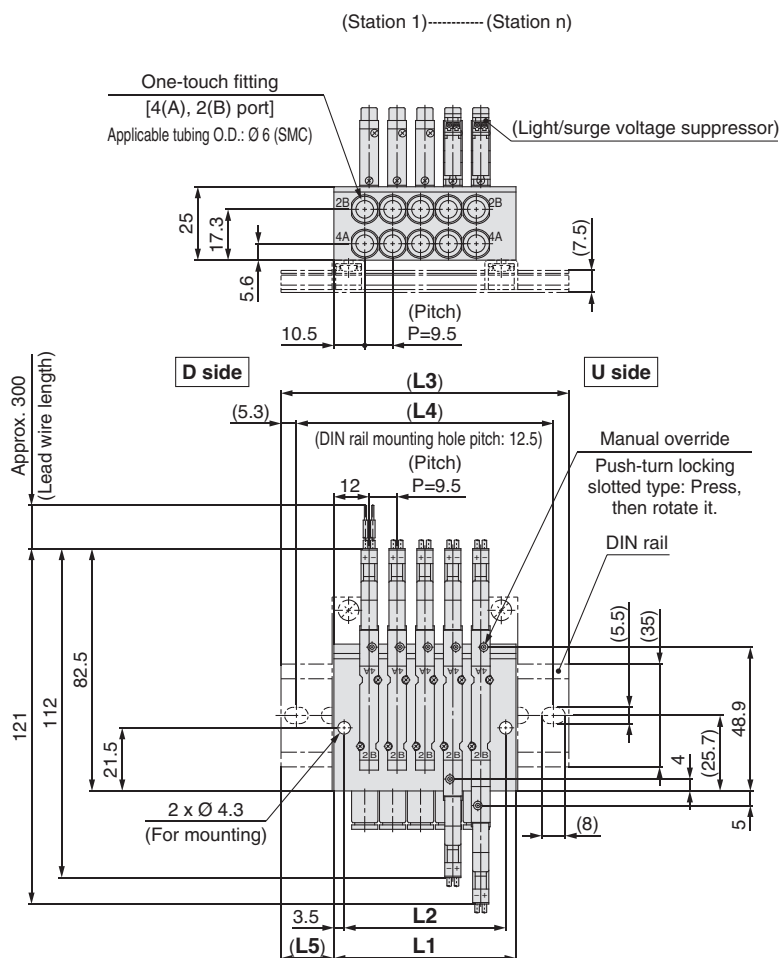
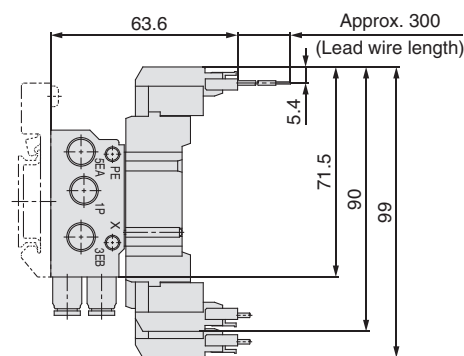


JJ5SY1-40(R)- Stations $\frac{U}{D}$ - $\frac{KC2}{KC4}$ $\frac{KC4}{KC6}$ □ (D)



*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY1-40-05B-KC6."

M plug connector (M)



L Dimensions: Port Size KC6

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 33.5 | 43.0 | 52.5 | 62.0 | 71.5 | 81.0 | 90.5 | 100.0 | 109.5 | 119.0 | 128.5 | 138.0 | 147.5 | 157.0 | 166.5 | 176.0 | 185.5 | 195.0 | 204.5 |
| L2 | 26.5 | 36.0 | 45.5 | 55.0 | 64.5 | 74.0 | 83.5 | 93.0 | 102.5 | 112.0 | 121.5 | 131.0 | 140.5 | 150.0 | 159.5 | 169.0 | 178.5 | 188.0 | 197.5 |
| L3 | 60.5 | 73.0 | 85.5 | 98.0 | 110.5 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 260.5 | 273.0 | 285.5 |
| L4 | 50.0 | 62.5 | 75.0 | 87.5 | 100.0 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 187.5 | 200.0 | 212.5 | 225.0 | 237.5 | 250.0 | 262.5 | 275.0 |
| L5 | 13.5 | 15.0 | 16.5 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 37.5 | 39.0 | 40.5 |

L Dimensions: Port Sizes KC2, KC4

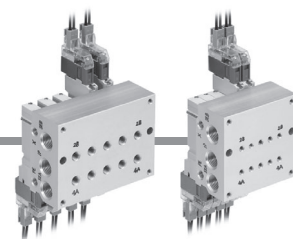
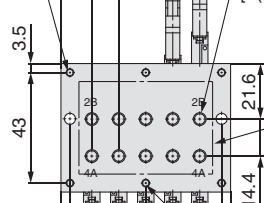
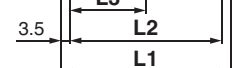
| L | n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----|---|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 | 157.0 |
| L2 | | 24.0 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 |
| L3 | | 60.5 | 73.0 | 73.0 | 85.5 | 85.5 | 98.0 | 110.5 | 110.5 | 123.0 | 123.0 | 135.5 | 135.5 | 148.0 | 148.0 | 160.5 | 173.0 | 173.0 | 185.5 | 185.5 |
| L4 | | 50.0 | 62.5 | 62.5 | 75.0 | 75.0 | 87.5 | 100.0 | 100.0 | 112.5 | 112.5 | 125.0 | 125.0 | 137.5 | 137.5 | 150.0 | 162.5 | 162.5 | 175.0 | 175.0 |
| L5 | | 15.0 | 17.5 | 14.0 | 17.0 | 13.5 | 16.0 | 19.0 | 15.5 | 18.0 | 14.5 | 17.5 | 14.0 | 16.5 | 13.0 | 16.0 | 18.5 | 15.0 | 18.0 | 14.5 |

Non Plug-in

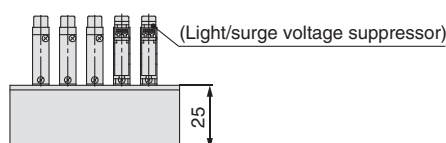
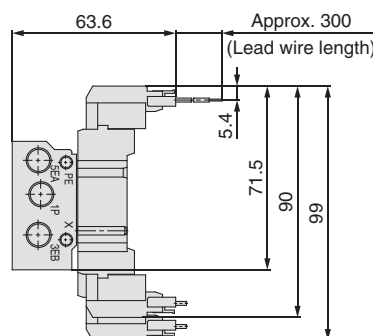
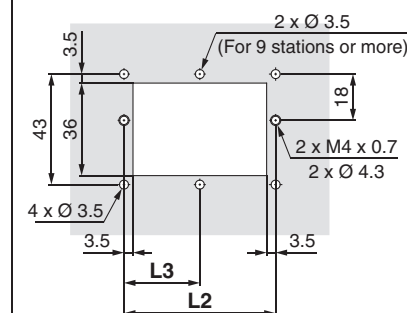
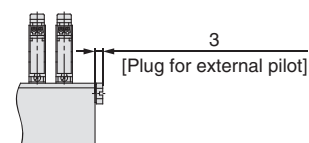
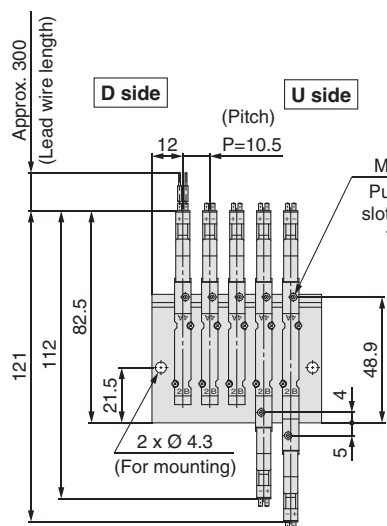
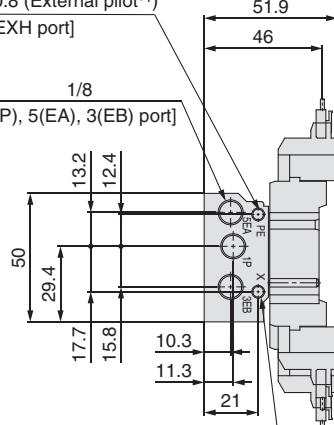
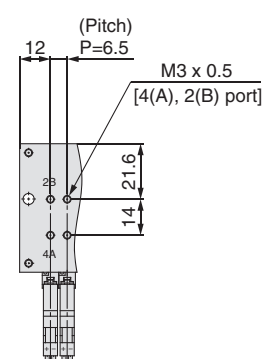
Metal Base **JSY1000/3000/5000 Series**Dimensions: **JSY1000 Series**Non Plug-in
Metal Base

Type 41/Bottom Ported

Port Size: M3, M5

JJ5SY1-41(R)- Stations $\frac{U}{D}$ - $\frac{M3}{M5}$ □4 x M3 x 0.5 thread depth 4
(For mounting)(Pitch)
P=10.5M5 x 0.8
[4(A), 2(B) port]Fitting dimensions for panel mounting
Refer to panel fitting dimensions for details.2 x M3 x 0.5 thread depth 4
(For 9 stations or more)

(Station 1)----- (Station n)

*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY1-41-05B-M5."**M plug connector (M)****Panel fitting dimensions**40R- Stations $\frac{U}{D}$ * The drawing above shows when
P, E port entry is D.**D side****U side**(Pitch)
P=10.5Manual override
Push-turn locking
slotted type: Press,
then rotate it.M5 x 0.8 (External pilot*1)
[Pilot EXH port]1/8
[1(P), 5(EA), 3(EB) port]M5 x 0.8 (External pilot*1)
[External pilot port]**Port size M3****L Dimensions: Port Size M5**

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 34.5 | 45.0 | 55.5 | 66.0 | 76.5 | 87.0 | 97.5 | 108.0 | 118.5 | 129.0 | 139.5 | 150.0 | 160.5 | 171.0 | 181.5 | 192.0 | 202.5 | 213.0 | 223.5 |
| L2 | 27.5 | 38.0 | 48.5 | 59.0 | 69.5 | 80.0 | 90.5 | 101.0 | 111.5 | 122.0 | 132.5 | 143.0 | 153.5 | 164.0 | 174.5 | 185.0 | 195.5 | 206.0 | 216.5 |
| L3 | — | — | — | — | — | — | — | 50.5 | 55.8 | 61.0 | 66.3 | 71.5 | 76.8 | 82.0 | 87.3 | 92.5 | 97.8 | 103.0 | 108.3 |

L Dimensions: Port Size M3

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 30.5 | 37.0 | 43.5 | 50.0 | 56.5 | 63.0 | 69.5 | 76.0 | 82.5 | 89.0 | 95.5 | 102.0 | 108.5 | 115.0 | 121.5 | 128.0 | 134.5 | 141.0 | 147.5 |
| L2 | 23.5 | 30.0 | 36.5 | 43.0 | 49.5 | 56.0 | 62.5 | 69.0 | 75.5 | 82.0 | 88.5 | 95.0 | 101.5 | 108.0 | 114.5 | 121.0 | 127.5 | 134.0 | 140.5 |
| L3 | — | — | — | — | — | — | — | 34.5 | 37.8 | 41.0 | 44.3 | 47.5 | 50.8 | 54.0 | 57.3 | 60.5 | 63.8 | 67.0 | 70.3 |

JSY1000/3000/5000 Series

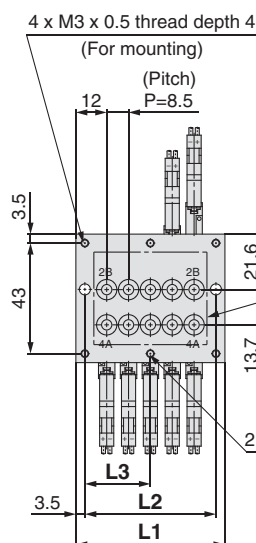
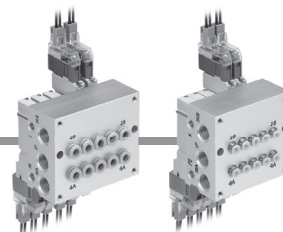
Dimensions: JSY1000 Series

Non Plug-in
Metal Base

Type 41/Bottom Ported

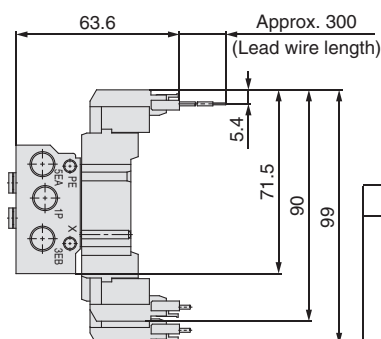
Port Size: Ø 2, Ø 4/Fixed

JJ5SY1-41(R)- Stations $\frac{U}{D}$ - C2 \square C4 \square

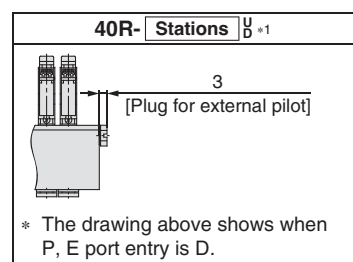
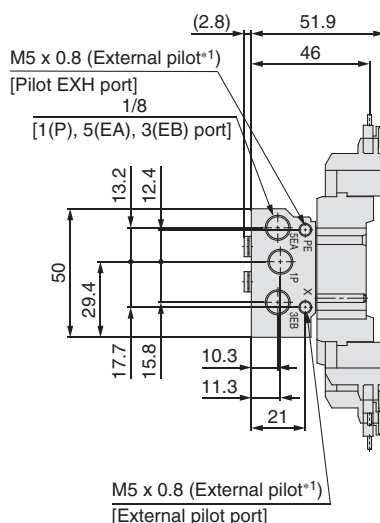
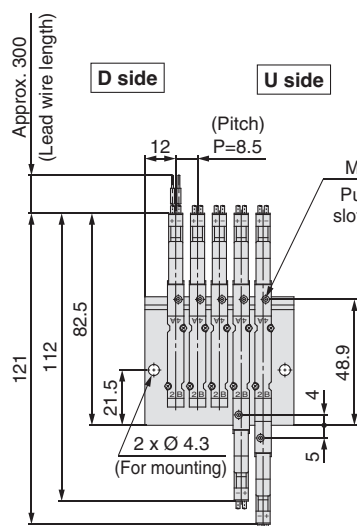
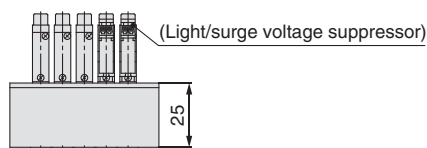


*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY1-41-05B-C4."

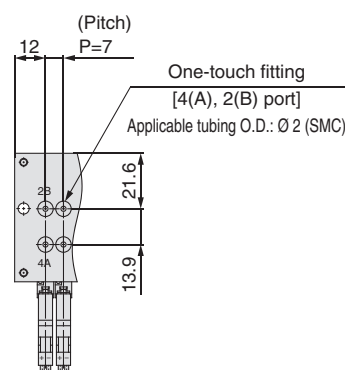
M plug connector (M)



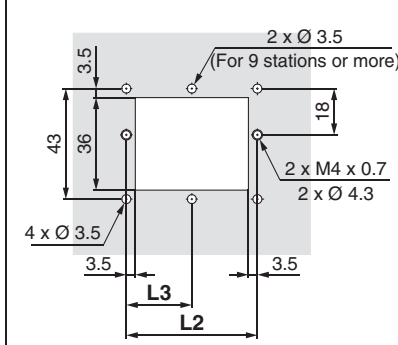
(Station 1).....(Station n)



One-touch fitting Ø 2



Panel fitting dimensions

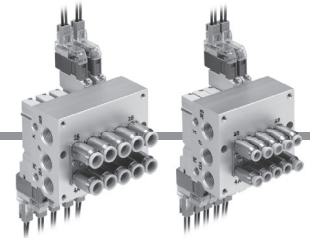
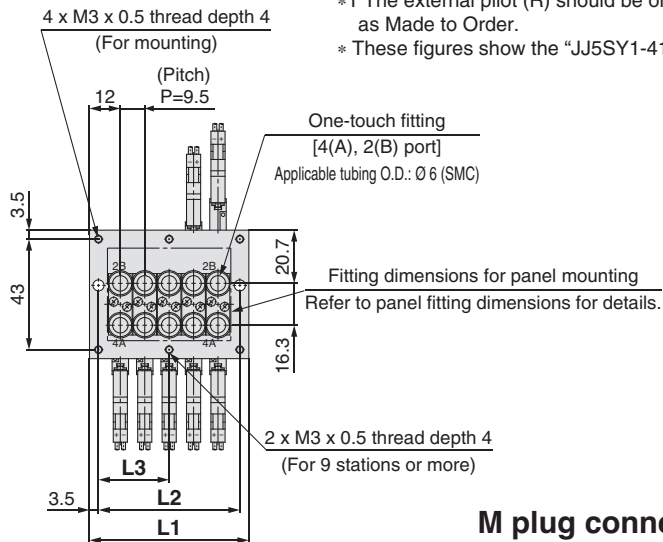


L Dimensions: Port Size C4

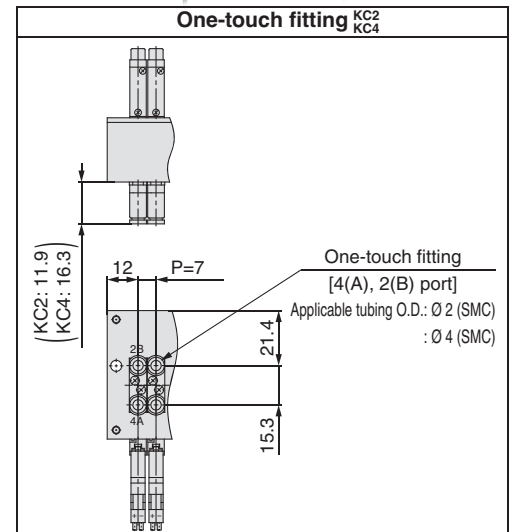
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 32.5 | 41.0 | 49.5 | 58.0 | 66.5 | 75.0 | 83.5 | 92.0 | 100.5 | 109.0 | 117.5 | 126.0 | 134.5 | 143.0 | 151.5 | 160.0 | 168.5 | 177.0 | 185.5 |
| L2 | 25.5 | 34.0 | 42.5 | 51.0 | 59.5 | 68.0 | 76.5 | 85.0 | 93.5 | 102.0 | 110.5 | 119.0 | 127.5 | 136.0 | 144.5 | 153.0 | 161.5 | 170.0 | 178.5 |
| L3 | — | — | — | — | — | — | — | 42.5 | 46.8 | 51.0 | 55.3 | 59.5 | 63.8 | 68.0 | 72.3 | 76.5 | 80.8 | 85.0 | 89.3 |

L Dimensions: Port Size C2

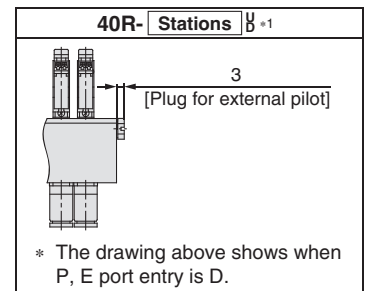
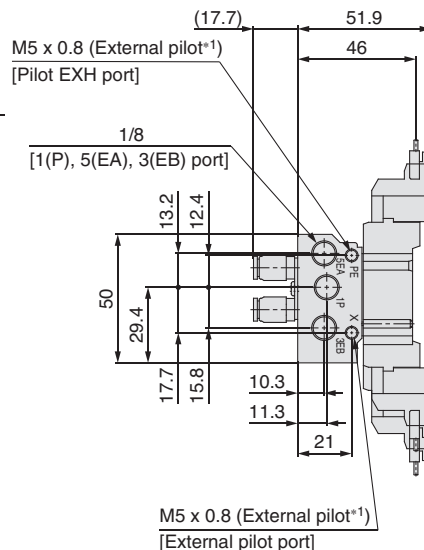
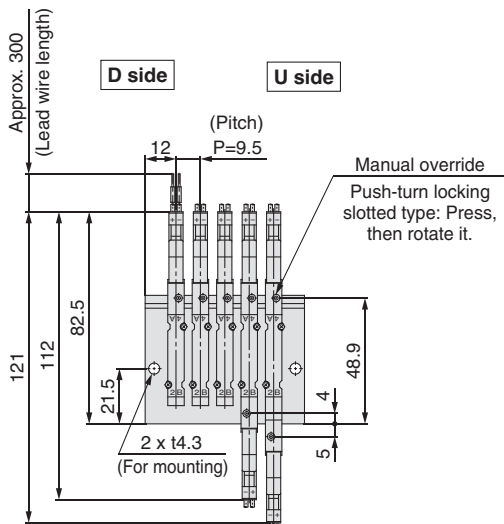
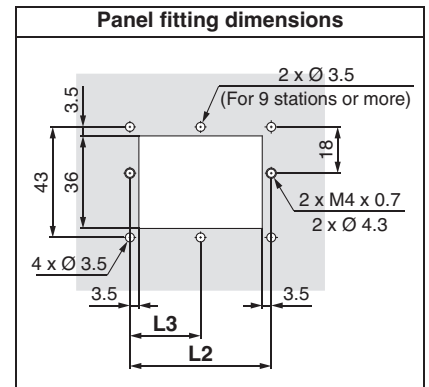
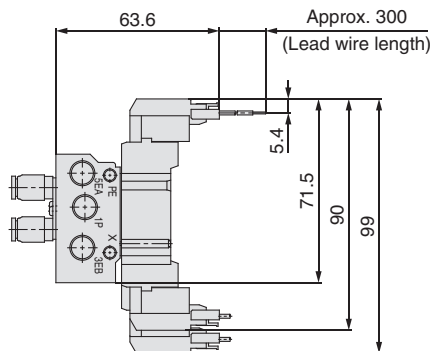
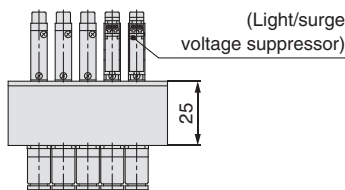
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 | 157.0 |
| L2 | 24.0 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 |
| L3 | — | — | — | — | — | — | — | 36.5 | 40.0 | 43.5 | 47.0 | 50.5 | 54.0 | 57.5 | 61.0 | 64.5 | 68.0 | 71.5 | 75.0 |

Dimensions: JSY1000 Series**Non Plug-in
Metal Base****Type 41/Bottom Ported**Port Size: $\varnothing 2, \varnothing 4, \varnothing 6$ /ReplaceableJJ5SY1-41(R)- Stations $\frac{U}{D}$ - $\frac{KC2}{KC4}$ $\frac{KC6}{KC6}$ 

- *1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY1-41-05B-KC6."

**M plug connector (M)**

(Station 1)----- (Station n)

**L Dimensions: Port Size KC6**

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 33.5 | 43.0 | 52.5 | 62.0 | 71.5 | 81.0 | 90.5 | 100.0 | 109.5 | 119.0 | 128.5 | 138.0 | 147.5 | 157.0 | 166.5 | 176.0 | 185.5 | 195.0 | 204.5 |
| L2 | 26.5 | 36.0 | 45.5 | 55.0 | 64.5 | 74.0 | 83.5 | 93.0 | 102.5 | 112.0 | 121.5 | 131.0 | 140.5 | 150.0 | 159.5 | 169.0 | 178.5 | 188.0 | 197.5 |
| L3 | — | — | — | — | — | — | — | 46.5 | 51.3 | 56.0 | 60.8 | 65.5 | 70.3 | 75.0 | 79.8 | 84.5 | 89.3 | 94.0 | 98.8 |

L Dimensions: Port Sizes KC2, KC4

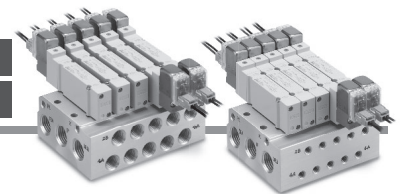
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 | 157.0 |
| L2 | 24.0 | 31.0 | 38.0 | 45.0 | 52.0 | 59.0 | 66.0 | 73.0 | 80.0 | 87.0 | 94.0 | 101.0 | 108.0 | 115.0 | 122.0 | 129.0 | 136.0 | 143.0 | 150.0 |
| L3 | — | — | — | — | — | — | — | 36.5 | 40.0 | 43.5 | 47.0 | 50.5 | 54.0 | 57.5 | 61.0 | 64.5 | 68.0 | 71.5 | 75.0 |

JSY1000/3000/5000 Series

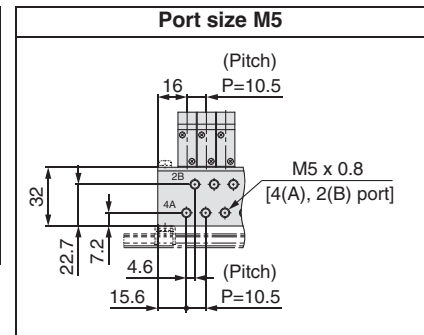
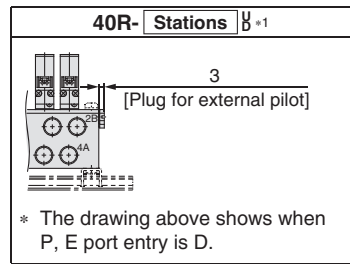
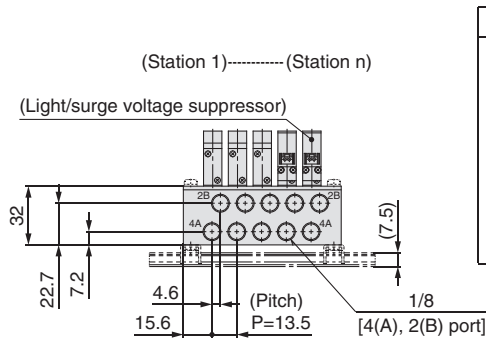
Dimensions: JSY3000 Series

Non Plug-in
Metal Base

Type 40/Side Ported
Port Size: M5, 1/8

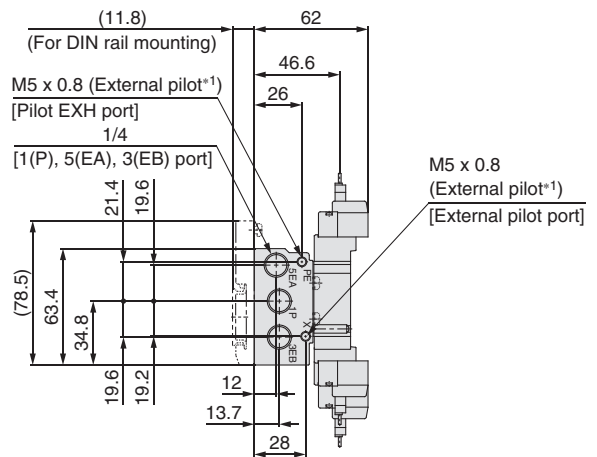
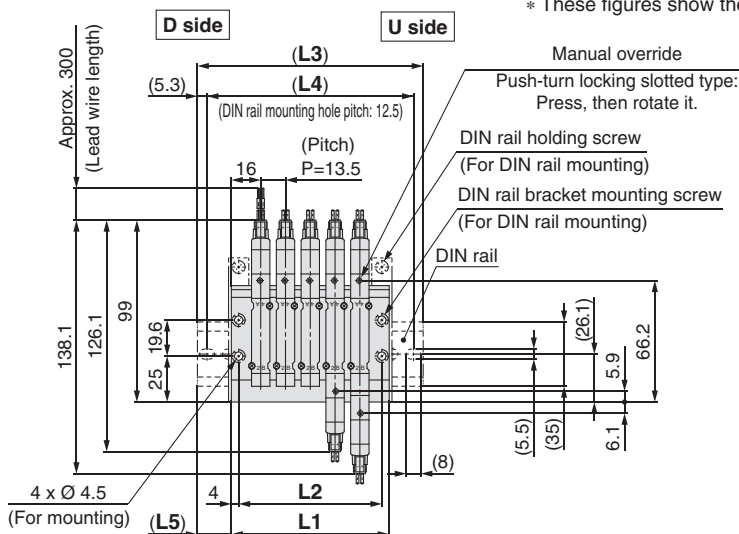


JJ5SY3-40(R)- Stations $\frac{U}{B}$ - M5 $\frac{01}{01}$ (D)

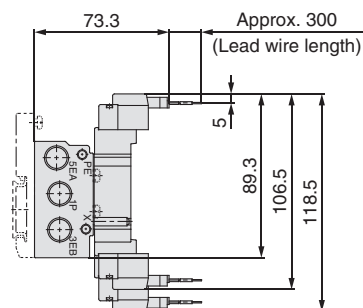


*1 The external pilot (R) should be ordered as Made to Order.

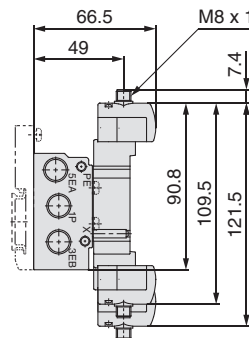
* These figures show the "JJ5SY3-40-05-01."



M plug connector (M)



M8 connector (W, WA)

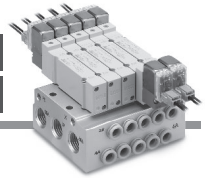
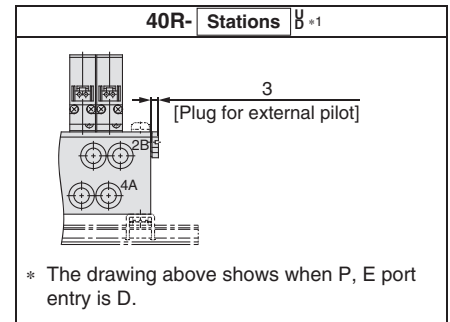
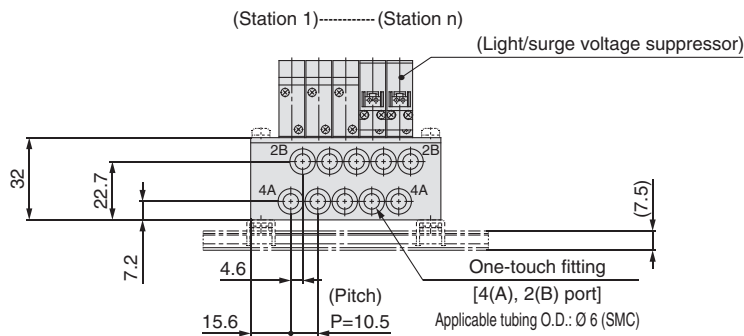


L Dimensions: Port Size 01 (1/8)

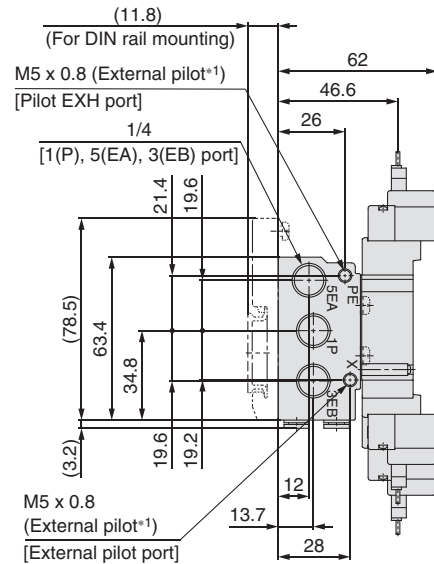
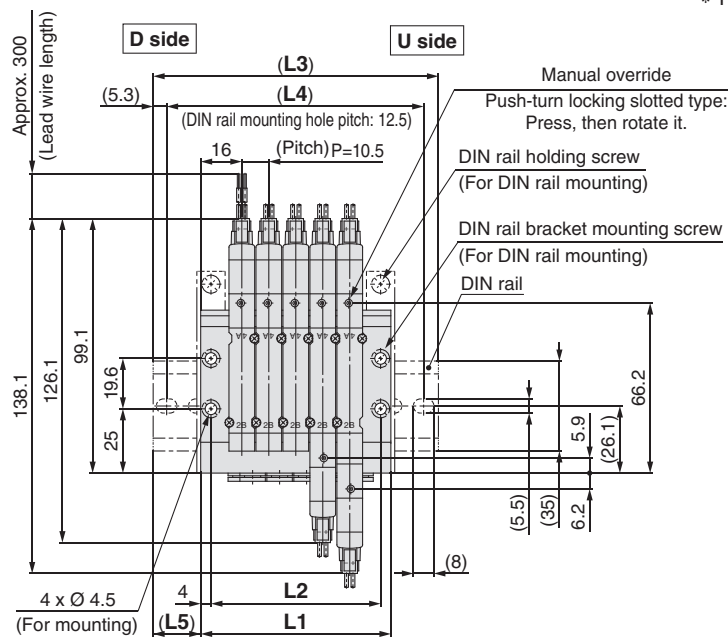
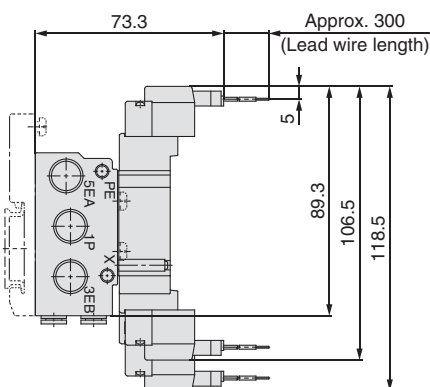
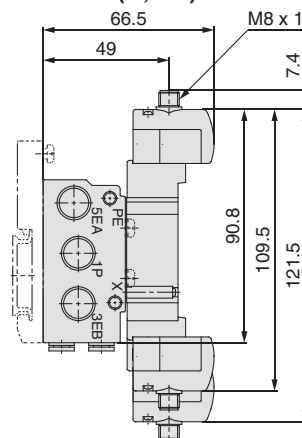
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 45.5 | 59.0 | 72.5 | 86.0 | 99.5 | 113.0 | 126.5 | 140.0 | 153.5 | 167.0 | 180.5 | 194.0 | 207.5 | 221.0 | 234.5 | 248.0 | 261.5 | 275.0 | 288.5 |
| L2 | 37.5 | 51.0 | 64.5 | 78.0 | 91.5 | 105.0 | 118.5 | 132.0 | 145.5 | 159.0 | 172.5 | 186.0 | 199.5 | 213.0 | 226.5 | 240.0 | 253.5 | 267.0 | 280.5 |
| L3 | 73.0 | 85.5 | 110.5 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 273.0 | 285.5 | 298.0 | 310.5 | 323.0 |
| L4 | 62.5 | 75.0 | 100.0 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 187.5 | 200.0 | 212.5 | 225.0 | 237.5 | 262.5 | 275.0 | 287.5 | 300.0 | 312.5 |
| L5 | 14.0 | 13.5 | 19.0 | 18.5 | 18.0 | 17.5 | 17.0 | 16.5 | 16.0 | 15.5 | 15.0 | 14.5 | 14.0 | 13.5 | 19.5 | 19.0 | 18.5 | 18.0 | 17.5 |

L Dimensions: Port Size M5

| L \ n | | n: Stations | | | | | | | | | | | | | | | | | | |
|-------|--|-------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| L1 | | 42.5 | 53.0 | 63.5 | 74.0 | 84.5 | 95.0 | 105.5 | 116.0 | 126.5 | 137.0 | 147.5 | 158.0 | 168.5 | 179.0 | 189.5 | 200.0 | 210.5 | 221.0 | 231.5 |
| L2 | | 34.5 | 45.0 | 55.5 | 66.0 | 76.5 | 87.0 | 97.5 | 108.0 | 118.5 | 129.0 | 139.5 | 150.0 | 160.5 | 171.0 | 181.5 | 192.0 | 202.5 | 213.0 | 223.5 |
| L3 | | 73.0 | 85.5 | 98.0 | 110.5 | 123.0 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 248.0 | 260.5 |
| L4 | | 62.5 | 75.0 | 87.5 | 100.0 | 112.5 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 175.0 | 187.5 | 200.0 | 212.5 | 225.0 | 237.5 | 237.5 | 250.0 |
| L5 | | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 13.5 | 14.5 |

Dimensions: JSY3000 Series**Non Plug-in
Metal Base****Type 40/Side Ported
Port Size: Ø 6/Fixed****JJ5SY3-40(R)- Stations $\frac{U}{B}$ - C6 □ (D)**

*1 The external pilot (R) should be ordered as Made to Order.
 * These figures show the "JJ5SY3-40-05-C6."

**M plug connector (M)****M8 connector (W, WA)****L Dimensions: Port Size C6**

n: Stations

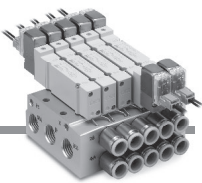
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 42.5 | 53.0 | 63.5 | 74.0 | 84.5 | 95.0 | 105.5 | 116.0 | 126.5 | 137.0 | 147.5 | 158.0 | 168.5 | 179.0 | 189.5 | 200.0 | 210.5 | 221.0 | 231.5 |
| L2 | 34.5 | 45.0 | 55.5 | 66.0 | 76.5 | 87.0 | 97.5 | 108.0 | 118.5 | 129.0 | 139.5 | 150.0 | 160.5 | 171.0 | 181.5 | 192.0 | 202.5 | 213.0 | 223.5 |
| L3 | 73.0 | 85.5 | 98.0 | 110.5 | 123.0 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 248.0 | 260.5 |
| L4 | 62.5 | 75.0 | 87.5 | 100.0 | 112.5 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 175.0 | 187.5 | 200.0 | 212.5 | 225.0 | 237.5 | 237.5 | 250.0 |
| L5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 13.5 | 14.5 |

JSY1000/3000/5000 Series

Dimensions: JSY3000 Series

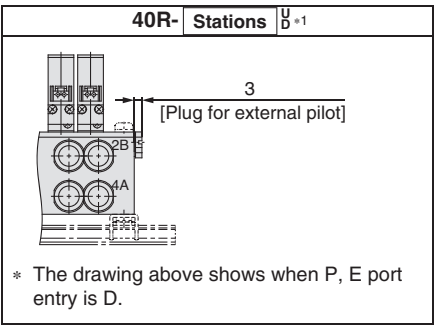
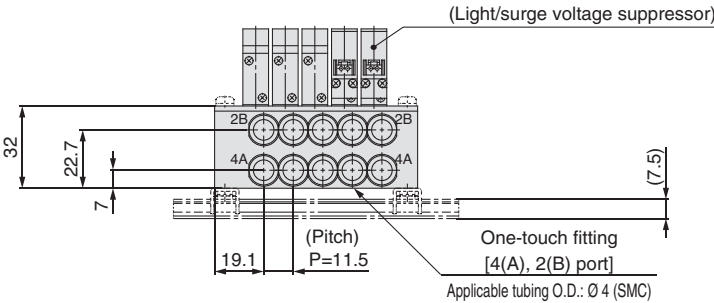
Non Plug-in
Metal Base

Type 40/Side Ported
Port Size: Ø 4, Ø 6, Ø 8/Replaceable

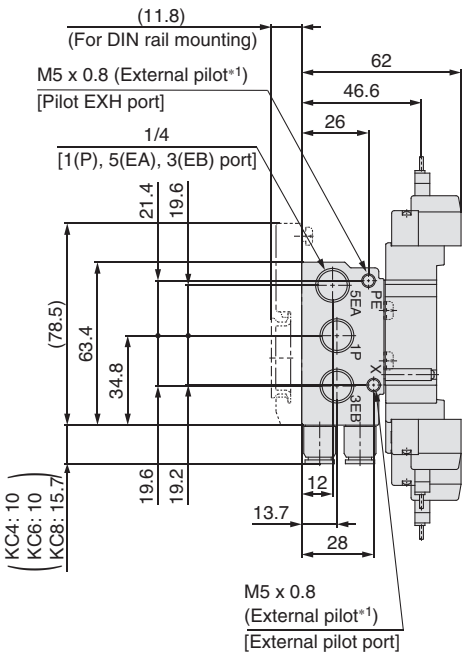
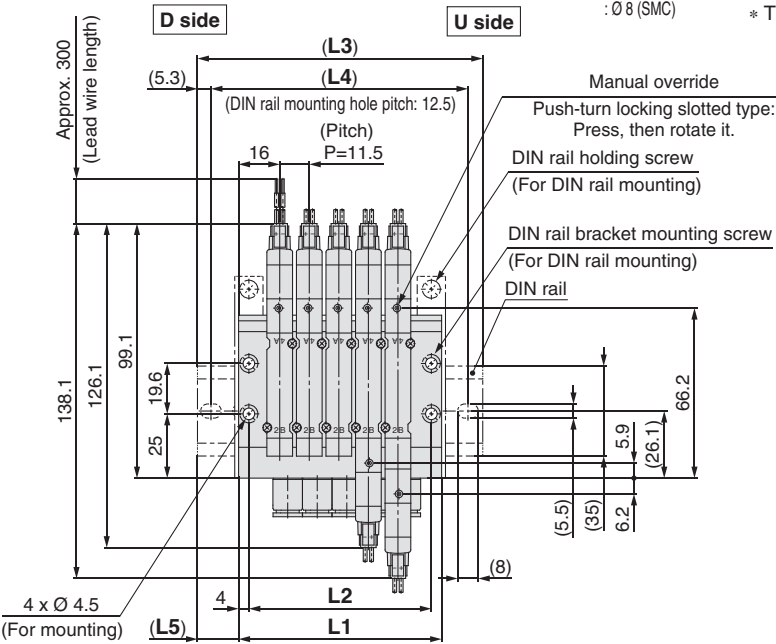


JJ5SY3-40(R)- Stations $\frac{U}{D} - \frac{KC4}{KC6} \square (D)$

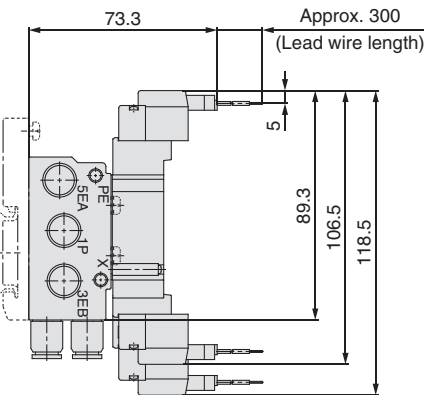
(Station 1) (Station n)



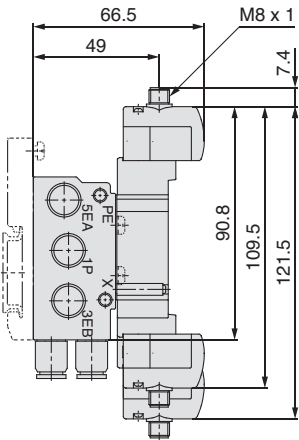
*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY3-40-05-KC8."



M plug connector (M)



M8 connector (W, WA)



L Dimensions: Port Sizes KC4, KC6, KC8

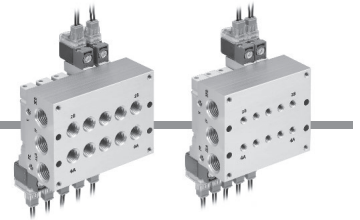
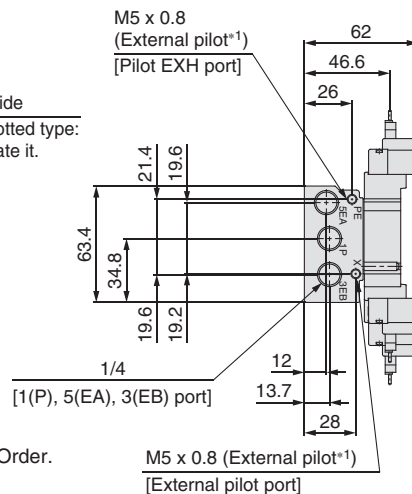
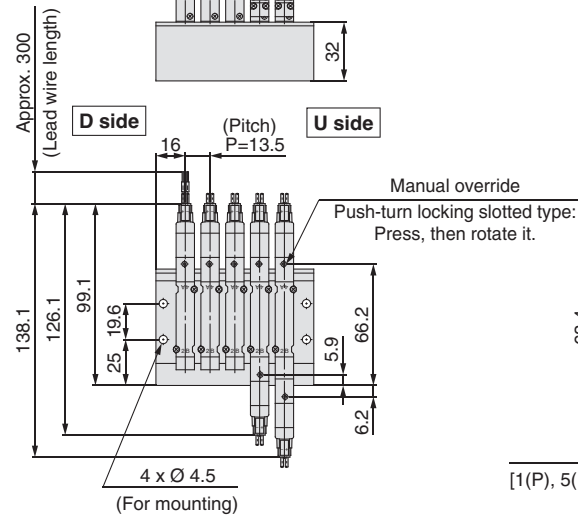
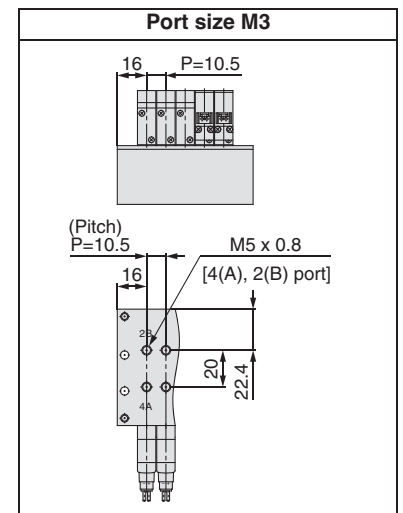
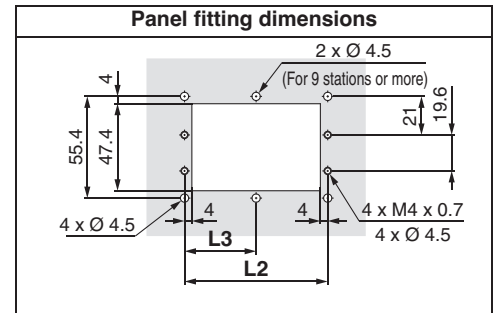
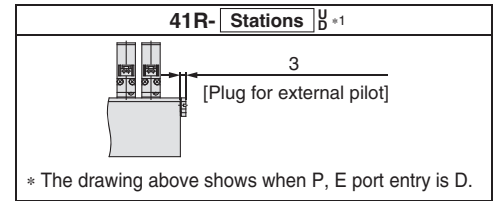
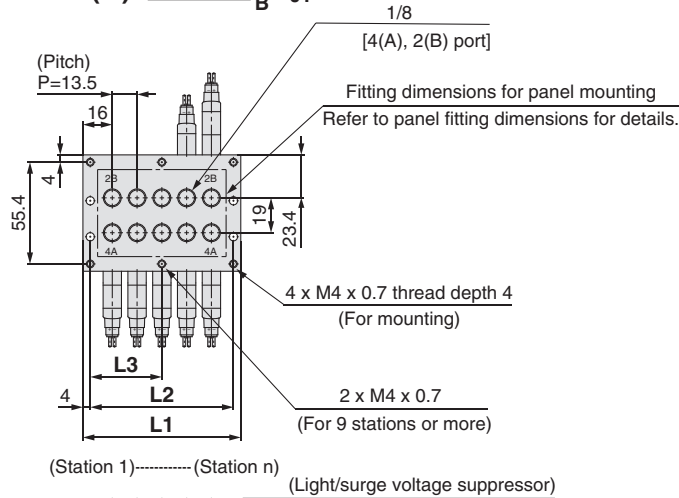
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 44.5 | 56.0 | 67.5 | 79.0 | 90.5 | 102.0 | 113.5 | 125.0 | 136.5 | 148.0 | 159.5 | 171.0 | 182.5 | 194.0 | 205.5 | 217.0 | 228.5 | 240.0 | 251.5 |
| L2 | 36.5 | 48.0 | 59.5 | 71.0 | 82.5 | 94.0 | 105.5 | 117.0 | 128.5 | 140.0 | 151.5 | 163.0 | 174.5 | 186.0 | 197.5 | 209.0 | 220.5 | 232.0 | 243.5 |
| L3 | 73.0 | 85.5 | 98.0 | 110.5 | 123.0 | 135.5 | 148.0 | 160.5 | 173.0 | 185.5 | 198.0 | 210.5 | 223.0 | 235.5 | 248.0 | 260.5 | 273.0 | 285.5 | |
| L4 | 62.5 | 75.0 | 87.5 | 100.0 | 112.5 | 125.0 | 137.5 | 150.0 | 162.5 | 175.0 | 187.5 | 197.5 | 207.5 | 217.5 | 227.5 | 237.5 | 247.5 | 257.5 | 267.5 |
| L5 | 14.5 | 15.0 | 15.5 | 16.0 | 16.5 | 17.0 | 17.5 | 18.0 | 18.5 | 19.0 | 19.5 | 20.0 | 20.5 | 21.0 | 21.5 | 22.0 | 22.5 | 23.0 | 23.5 |

Dimensions: JSY3000 Series

Non Plug-in
Metal Base

Type 41/Bottom Ported

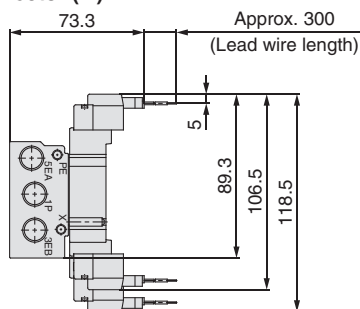
Port Size: M5, 1/8

JJ5SY3-41(R)- Stations $\frac{U}{D}$ - M5 $\frac{01}{01}$ ☐

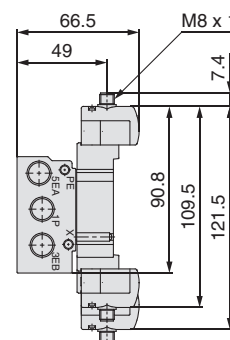
*1 The external pilot (R) should be ordered as Made to Order.

* These figures show the "JJ5SY3-41-05-01."

M plug connector (M)



M8 connector (W, WA)



L Dimensions: Port Size 01 (1/8)

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 45.5 | 59.0 | 72.5 | 86.0 | 99.5 | 113.0 | 126.5 | 140.0 | 153.5 | 167.0 | 180.5 | 194.0 | 207.5 | 221.0 | 234.5 | 248.0 | 261.5 | 275.0 | 288.5 |
| L2 | 37.5 | 51.0 | 64.5 | 78.0 | 91.5 | 105.0 | 118.5 | 132.0 | 145.5 | 159.0 | 172.5 | 186.0 | 199.5 | 213.0 | 226.5 | 240.0 | 253.5 | 267.0 | 280.5 |
| L3 | — | — | — | — | — | — | — | 66.0 | 72.8 | 79.5 | 86.3 | 93.0 | 99.8 | 106.5 | 113.3 | 120.0 | 126.8 | 133.5 | 140.3 |

L Dimensions: Port Size M5

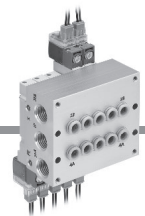
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 42.5 | 53.0 | 63.5 | 74.0 | 84.5 | 95.0 | 105.5 | 116.0 | 126.5 | 137.0 | 147.5 | 158.0 | 168.5 | 179.0 | 189.5 | 200.0 | 210.5 | 221.0 | 231.5 |
| L2 | 34.5 | 45.0 | 55.5 | 66.0 | 76.5 | 87.0 | 97.5 | 108.0 | 118.5 | 129.0 | 139.5 | 150.0 | 160.5 | 171.0 | 181.5 | 192.0 | 202.5 | 213.0 | 223.5 |
| L3 | — | — | — | — | — | — | — | 54.0 | 59.3 | 64.5 | 69.8 | 75.0 | 80.3 | 85.5 | 90.8 | 96.0 | 101.3 | 106.5 | 111.8 |

JSY1000/3000/5000 Series

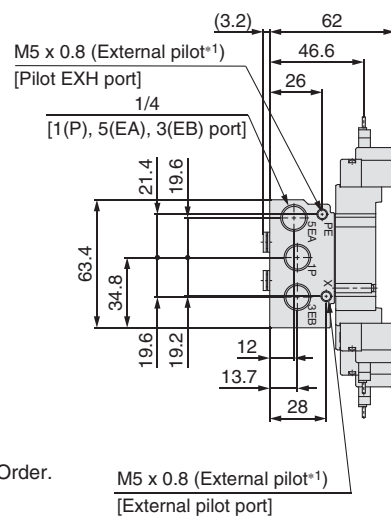
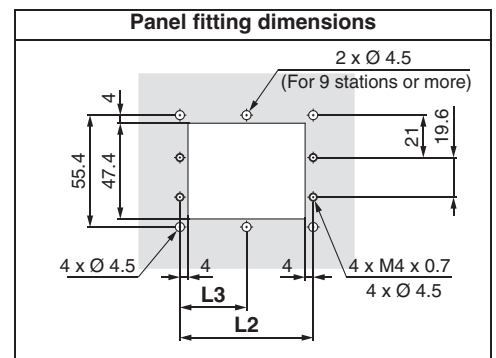
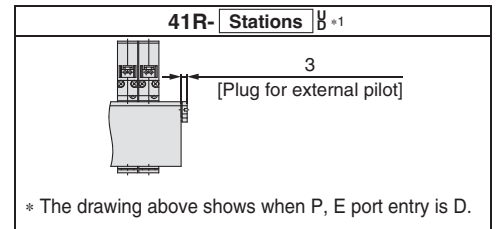
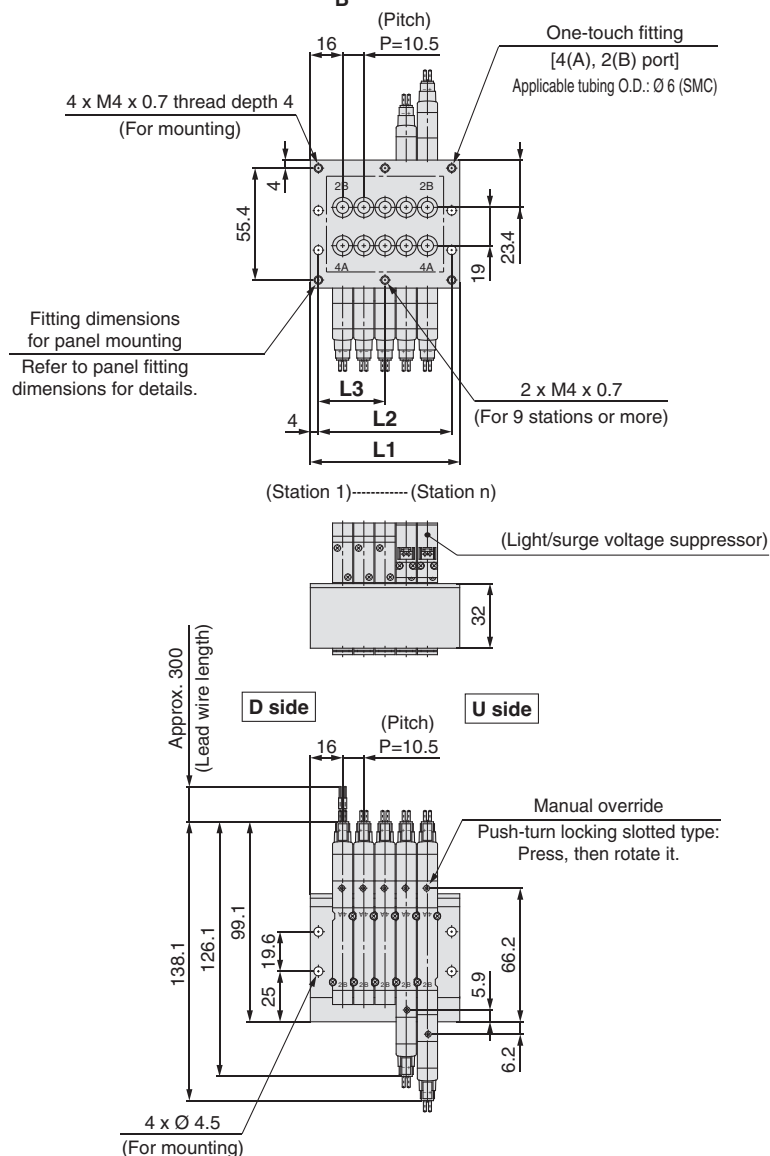
Dimensions: JSY3000 Series

Non Plug-in
Metal Base

Type 41/Bottom Ported
Port Size: $\varnothing 6$ /Fixed

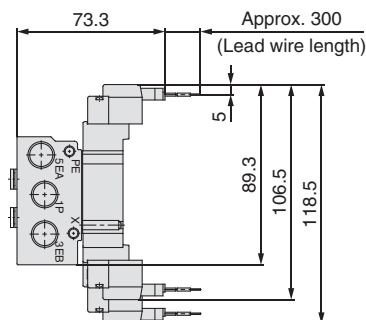


JJ5SY3-41(R)- Stations $\frac{U}{D}$ - C6 \square

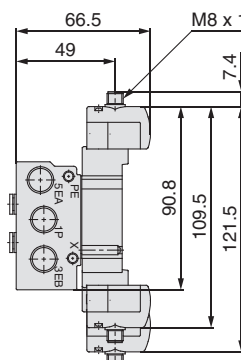


*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY3-41-05-C6."

M plug connector (M)

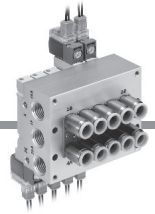
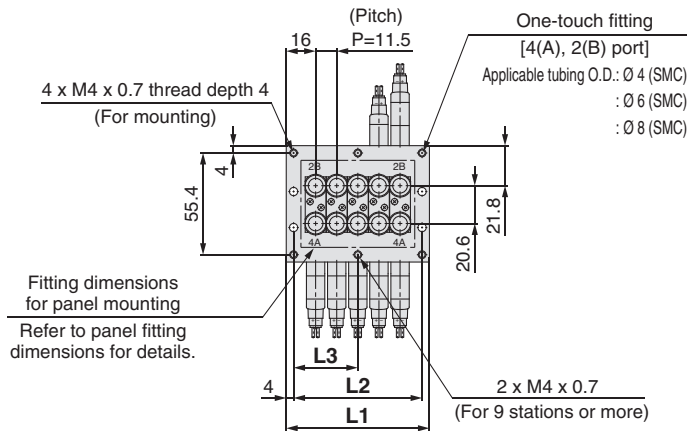


M8 connector (W, WA)



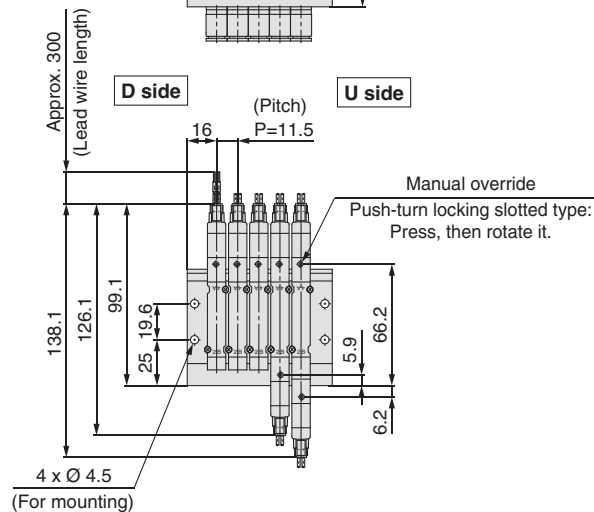
L Dimensions: Port Size C6

| L \ n | | n: Stations | | | | | | | | | | | | | | | | | | |
|-------|--|-------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| L1 | | 42.5 | 53.0 | 63.5 | 74.0 | 84.5 | 95.0 | 105.5 | 116.0 | 126.5 | 137.0 | 147.5 | 158.0 | 168.5 | 179.0 | 189.5 | 200.0 | 210.5 | 221.0 | 231.5 |
| L2 | | 34.5 | 45.0 | 55.5 | 66.0 | 76.5 | 87.0 | 97.5 | 108.0 | 118.5 | 129.0 | 139.5 | 150.0 | 160.5 | 171.0 | 181.5 | 192.0 | 202.5 | 213.0 | 223.5 |
| L3 | | — | — | — | — | — | — | — | 54.0 | 59.3 | 64.5 | 69.8 | 75.0 | 80.3 | 85.5 | 90.8 | 96.0 | 101.3 | 106.5 | 111.8 |

Dimensions: JSY3000 Series**Non Plug-in
Metal Base****Type 41/Bottom Ported**
Port Size: Ø 4, Ø 6, Ø 8/Replaceable**JJ5SY3-41(R)-** Stations $\frac{U}{D} - \frac{KC4}{KC6} \square$
KC8Fitting dimensions
for panel mounting
Refer to panel fitting
dimensions for details.

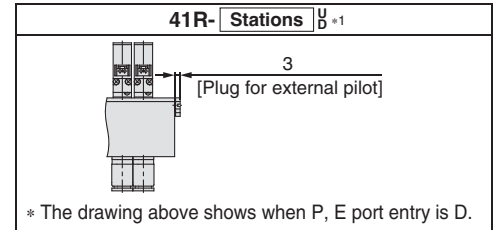
(Station 1).....(Station n)

(Light/surge voltage suppressor)

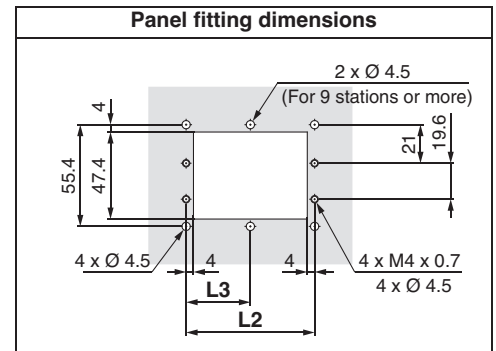
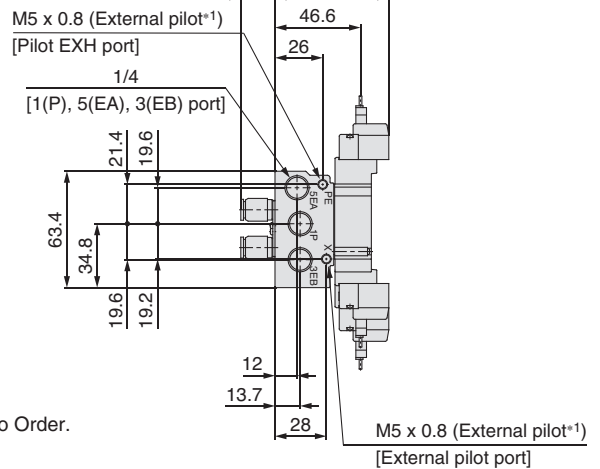
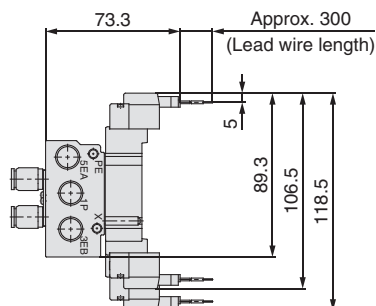
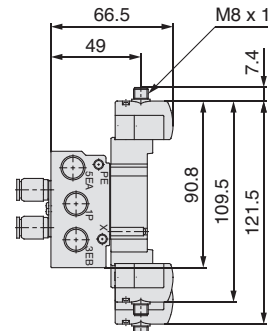


*1 The external pilot (R) should be ordered as Made to Order.

* These figures show the "JJ5SY3-41-05-KC8."



* The drawing above shows when P, E port entry is D.

KC6: 13.5
KC6: 13.5
KC8: 19.3**M plug connector (M)****M8 connector (W, WA)****L Dimensions: Port Sizes KC4, KC6, KC8**

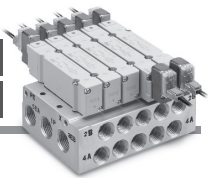
n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 43.5 | 55.0 | 66.5 | 78.0 | 89.5 | 101.0 | 112.5 | 124.0 | 135.5 | 147.0 | 158.5 | 170.0 | 181.5 | 193.0 | 204.5 | 216.0 | 227.5 | 239.0 | 250.5 |
| L2 | 35.5 | 47.0 | 58.5 | 70.0 | 81.5 | 93.0 | 104.5 | 116.0 | 127.5 | 139.0 | 150.5 | 162.0 | 173.5 | 185.0 | 196.5 | 208.0 | 219.5 | 231.0 | 242.5 |
| L3 | — | — | — | — | — | — | — | 58.0 | 63.8 | 69.5 | 75.3 | 81.0 | 86.8 | 92.5 | 98.3 | 104.0 | 109.8 | 115.5 | 121.3 |

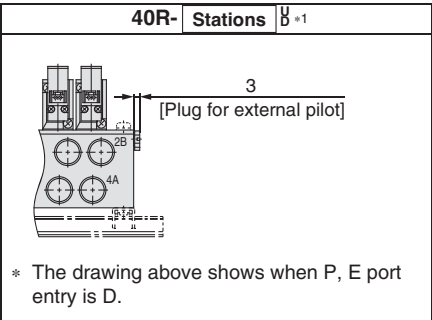
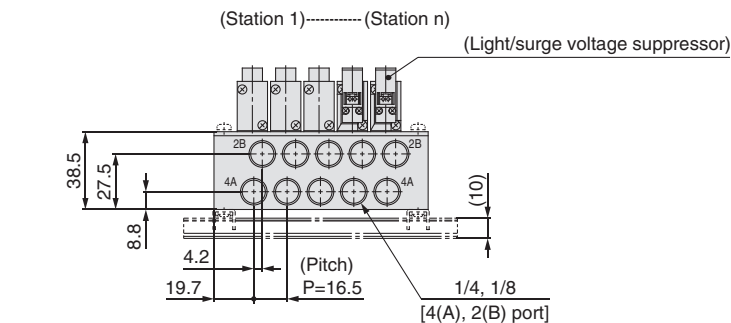
JSY1000/3000/5000 Series

Dimensions: JSY5000 Series

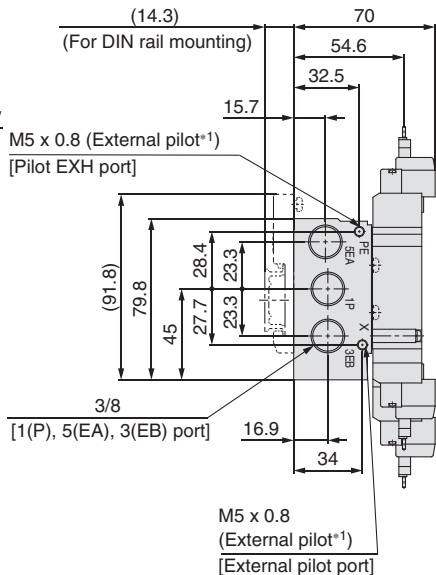
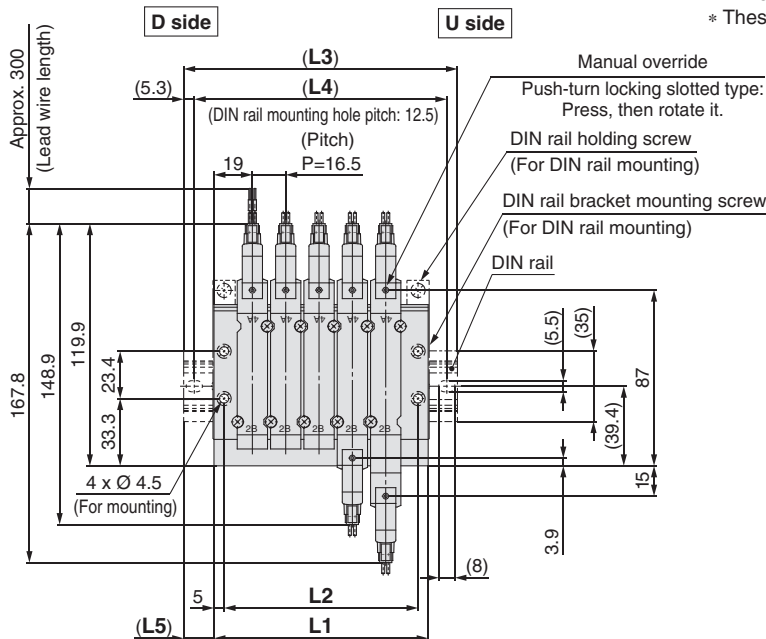
Non Plug-in Metal Base Type 40/Side Ported
Port Size: 1/8, 1/4



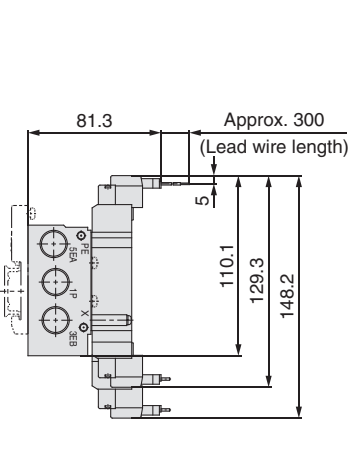
JJ5SY5-40(R)- Stations $\frac{U}{B} - \frac{01}{02} \square (D)$



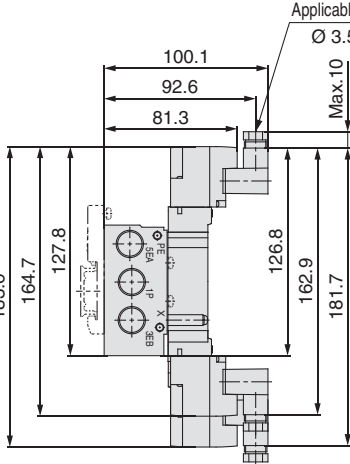
*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY5-40-05B-02."



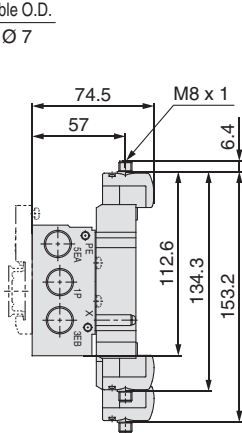
M plug connector (M)



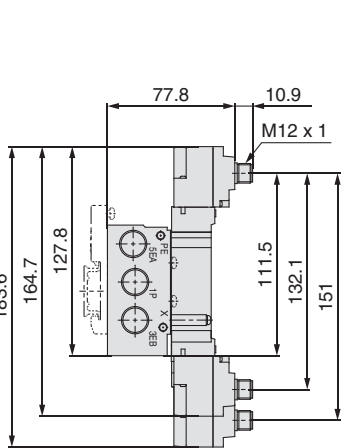
DIN terminal (D, Y)



M8 connector (W, WA)



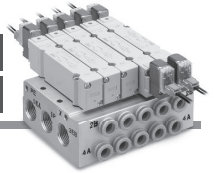
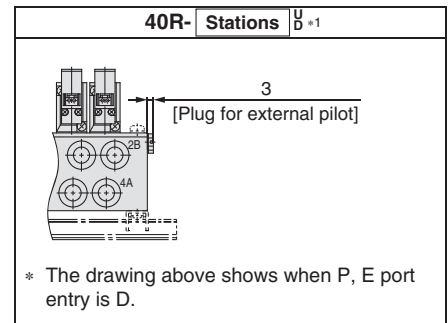
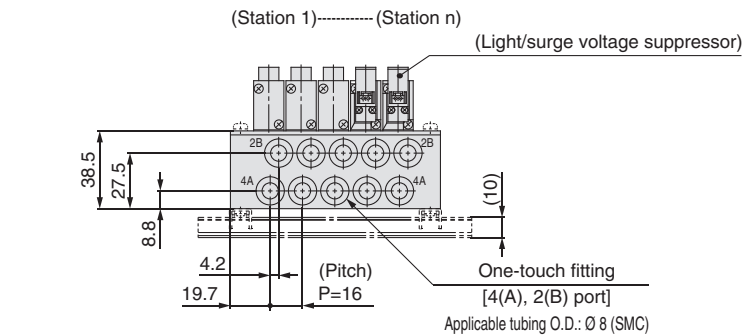
M12 connector (K)



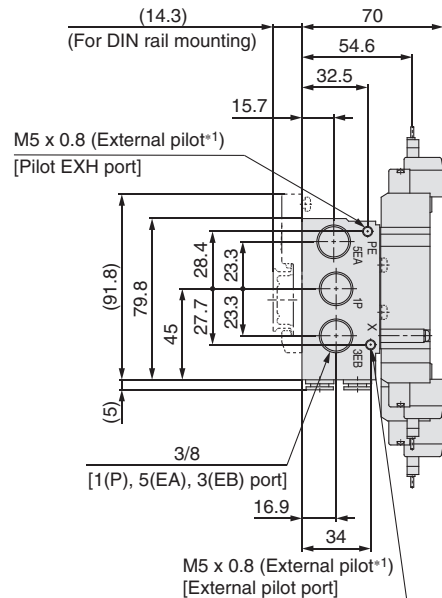
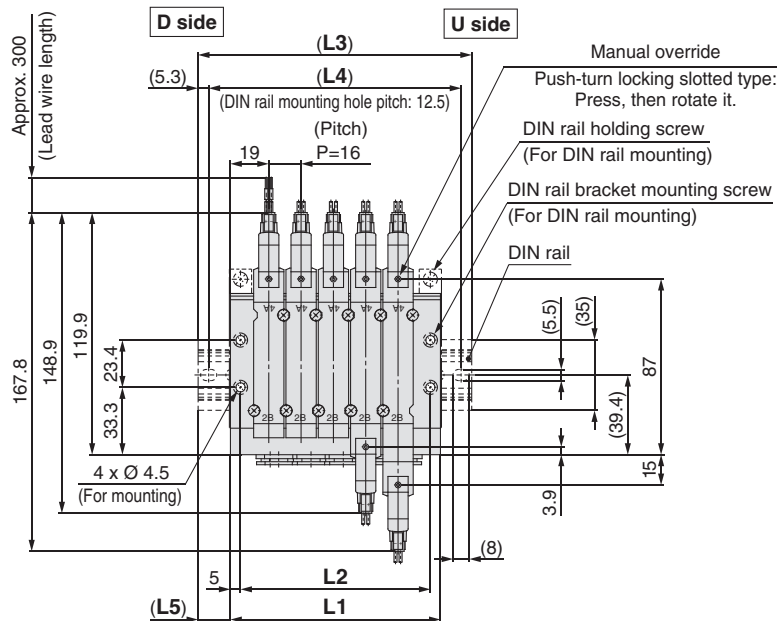
L Dimensions: Port Sizes 01 (1/8), 02 (1/4)

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 56.5 | 73.0 | 89.5 | 106.0 | 122.5 | 139.0 | 155.5 | 172.0 | 188.5 | 205.0 | 221.5 | 238.0 | 254.5 | 271.0 | 287.5 | 304.0 | 320.5 | 337.0 | 353.5 |
| L2 | 46.5 | 63.0 | 79.5 | 96.0 | 112.5 | 129.0 | 145.5 | 162.0 | 178.5 | 195.0 | 211.5 | 228.0 | 244.5 | 261.0 | 277.5 | 294.0 | 310.5 | 327.0 | 343.5 |
| L3 | 85.5 | 98.0 | 123.0 | 135.5 | 148.0 | 173.0 | 185.5 | 198.0 | 223.0 | 235.5 | 248.0 | 273.0 | 285.5 | 298.0 | 323.0 | 335.5 | 348.0 | 373.0 | 385.5 |
| L4 | 75.0 | 87.5 | 112.5 | 125.0 | 137.5 | 162.5 | 175.0 | 187.5 | 212.5 | 225.0 | 237.5 | 262.5 | 275.0 | 287.5 | 312.5 | 325.0 | 337.5 | 362.5 | 375.0 |
| L5 | 14.5 | 12.5 | 17.0 | 15.0 | 13.0 | 17.0 | 15.0 | 13.0 | 17.5 | 15.5 | 13.5 | 17.5 | 15.5 | 13.5 | 18.0 | 16.0 | 14.0 | 18.0 | 16.0 |

Dimensions: JSY5000 Series

Non Plug-in
Metal BaseType 40/Side Ported
Port Size: Ø 8/FixedJJ5SY5-40(R)- Stations $\frac{U}{D}$ - C8 □(D)

*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY5-40-05B-C8."

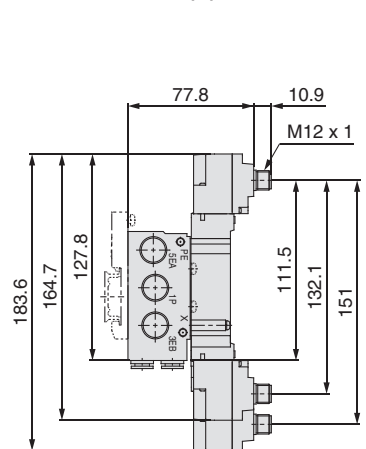
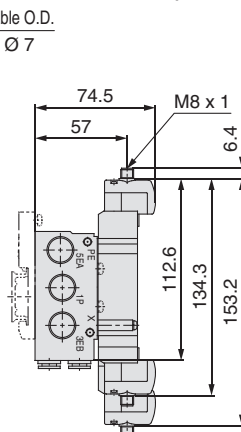
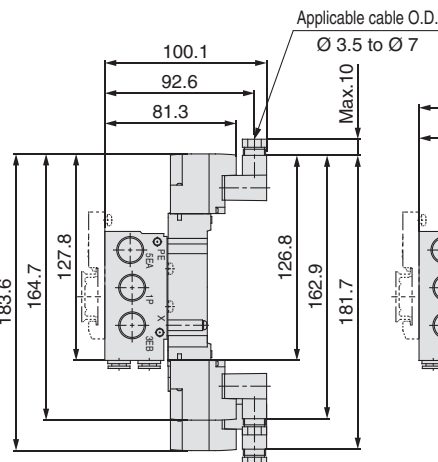
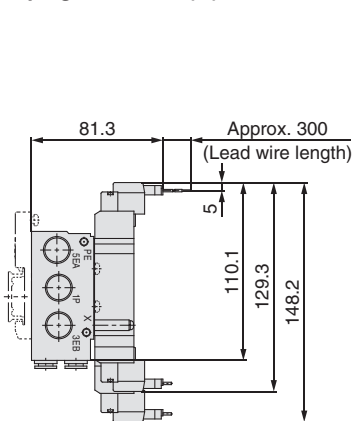


M plug connector (M)

DIN terminal (D, Y)

M8 connector (W, WA)

M12 connector (K)



L Dimensions: Port Size C8

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 56.0 | 72.0 | 88.0 | 104.0 | 120.0 | 136.0 | 152.0 | 168.0 | 184.0 | 200.0 | 216.0 | 232.0 | 248.0 | 264.0 | 280.0 | 296.0 | 312.0 | 328.0 | 344.0 |
| L2 | 46.0 | 62.0 | 78.0 | 94.0 | 110.0 | 126.0 | 142.0 | 158.0 | 174.0 | 190.0 | 206.0 | 222.0 | 238.0 | 254.0 | 270.0 | 286.0 | 302.0 | 318.0 | 334.0 |
| L3 | 85.5 | 98.0 | 123.0 | 135.5 | 148.0 | 160.5 | 185.5 | 198.0 | 210.5 | 223.0 | 248.0 | 260.5 | 273.0 | 298.0 | 310.5 | 323.0 | 348.0 | 360.5 | 373.0 |
| L4 | 75.0 | 87.5 | 112.5 | 125.0 | 137.5 | 150.0 | 175.0 | 187.5 | 200.0 | 212.5 | 237.5 | 250.0 | 262.5 | 287.5 | 300.0 | 312.5 | 337.5 | 350.0 | 362.5 |
| L5 | 15.0 | 13.0 | 17.5 | 16.0 | 14.0 | 12.5 | 17.0 | 15.0 | 13.5 | 11.5 | 16.0 | 14.5 | 12.5 | 17.0 | 15.5 | 13.5 | 18.0 | 16.5 | 14.5 |

JSY1000/3000/5000 Series

Dimensions: JSY5000 Series

JJ5SY5-40(R)- Stations

| |
|---|
| U |
| D |
| B |

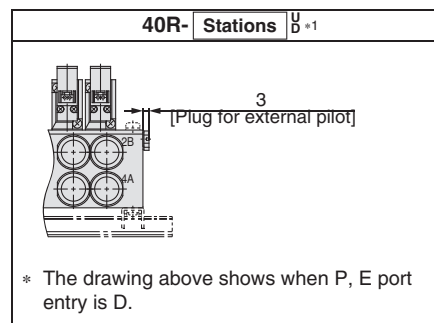
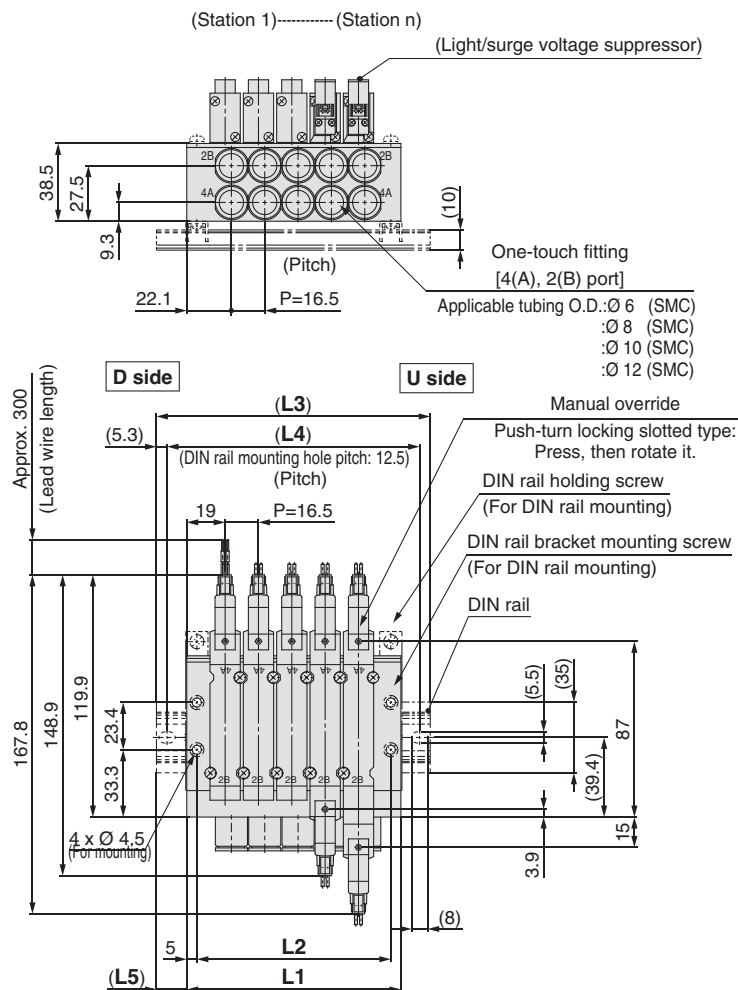
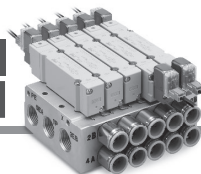
| |
|------|
| KC6 |
| KC8 |
| KC10 |
| KC12 |

☐ (D)

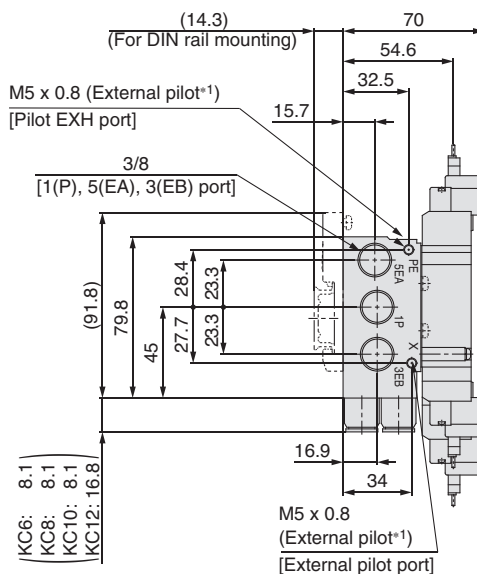
Non Plug-in Metal Base

Type 40/Side Ported

Port Size: Ø 6, Ø 8, Ø 10, Ø 12/Replaceable



*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY5-40-05B-KC12."

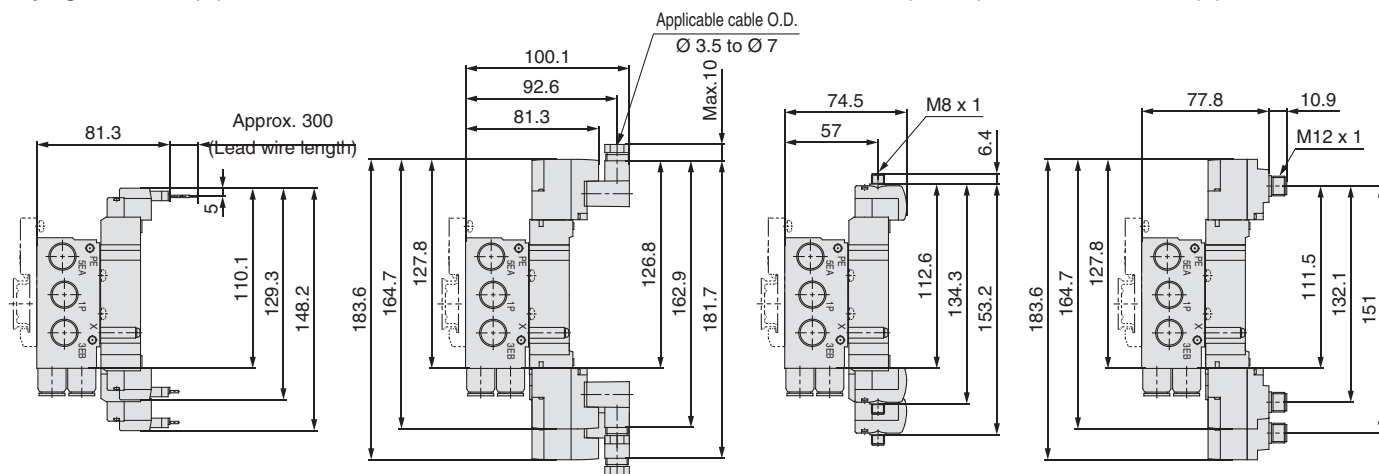


M plug connector (M)

DIN terminal (D, Y)

M8 connector (W, WA)

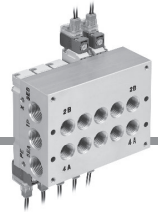
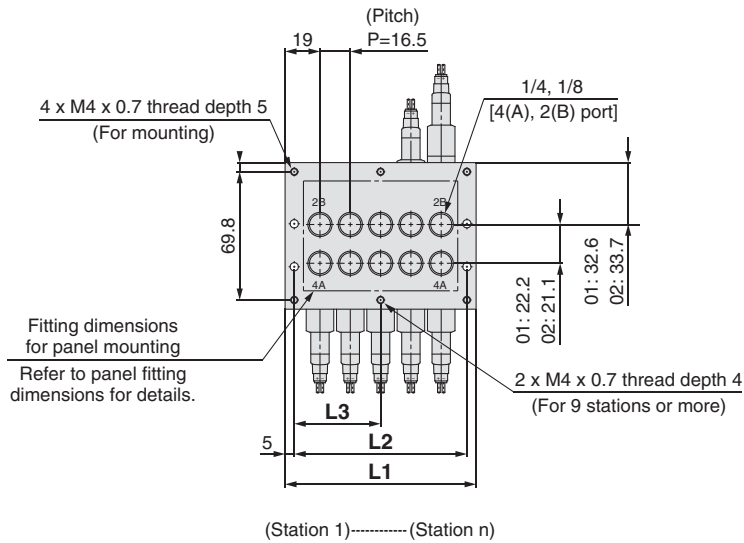
M12 connector (K)



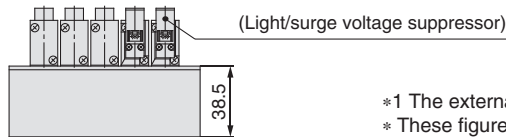
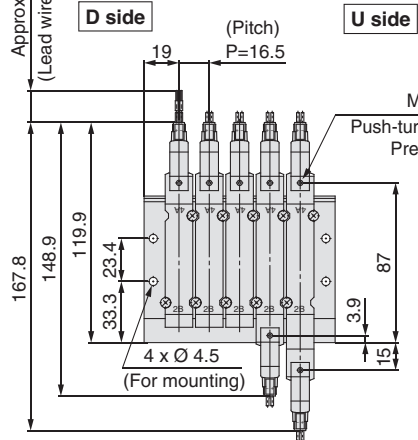
L Dimensions: Port Sizes KC6, KC8, KC10, KC12

n: Stations

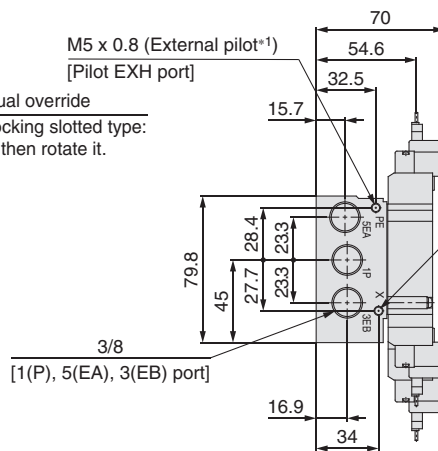
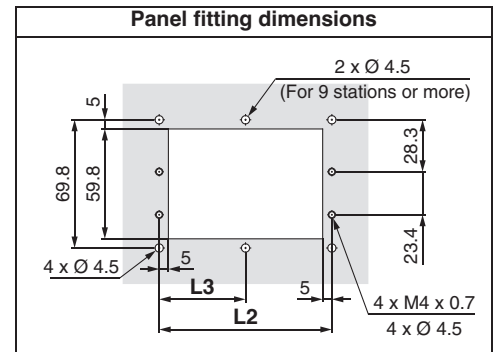
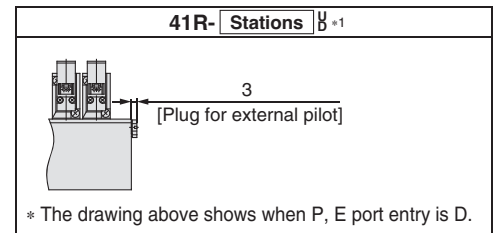
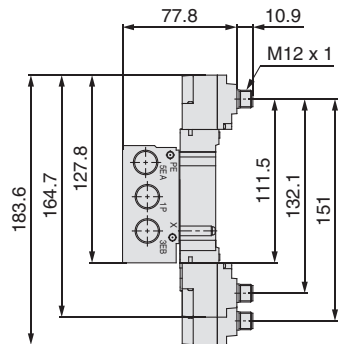
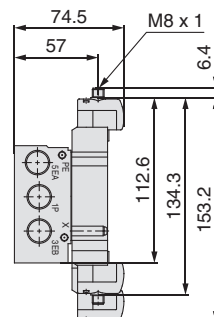
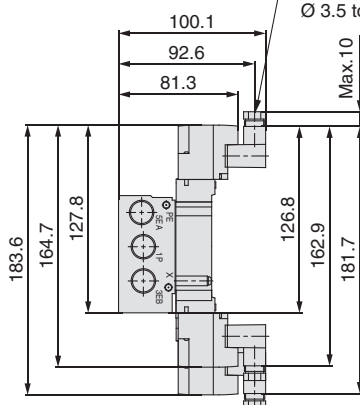
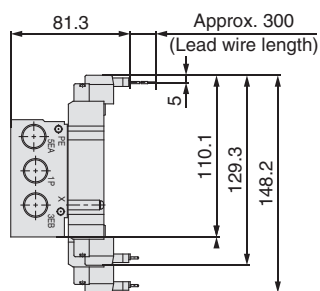
| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 56.5 | 73.0 | 89.5 | 106.0 | 122.5 | 139.0 | 155.5 | 172.0 | 188.5 | 205.0 | 221.5 | 238.0 | 254.5 | 271.0 | 287.5 | 304.0 | 320.5 | 337.0 | 353.5 |
| L2 | 46.5 | 63.0 | 79.5 | 96.0 | 112.5 | 129.0 | 145.5 | 162.0 | 178.5 | 195.0 | 211.5 | 228.0 | 244.5 | 261.0 | 277.5 | 294.0 | 310.5 | 327.0 | 343.5 |
| L3 | 85.5 | 98.0 | 123.0 | 135.5 | 148.0 | 173.0 | 185.5 | 198.0 | 223.0 | 235.5 | 248.0 | 273.0 | 285.5 | 298.0 | 323.0 | 335.5 | 348.0 | 373.0 | 385.5 |
| L4 | 75.0 | 87.5 | 112.5 | 125.0 | 137.5 | 162.5 | 175.0 | 187.5 | 212.5 | 225.0 | 237.5 | 262.5 | 275.0 | 287.5 | 312.5 | 325.0 | 337.5 | 362.5 | 375.0 |
| L5 | 14.5 | 12.5 | 17.0 | 15.0 | 13.0 | 17.0 | 15.0 | 13.0 | 17.5 | 15.5 | 13.5 | 17.5 | 15.5 | 13.5 | 18.0 | 16.0 | 14.0 | 18.0 | 16.0 |

Dimensions: JSY5000 Series**Non Plug-in
Metal Base****Type 41/Bottom Ported
Port Size: 1/8, 1/4****JJ5SY5-41(R)- Stations** $\frac{U}{B} - \frac{01}{02}$ \square 

(Station 1).....(Station n)

Approx. 300
(Lead wire length)**D side****U side**

*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY5-41-05B-02."

**M plug connector (M)****DIN terminal (D, Y)**Applicable cable O.D.
Ø 3.5 to Ø 7**M8 connector (W, WA)****M12 connector (K)****L Dimensions: Port Sizes 01 (1/8), 02 (1/4)**

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 54.5 | 71.0 | 87.5 | 104.0 | 120.5 | 137.0 | 153.5 | 170.0 | 186.5 | 203.0 | 219.5 | 236.0 | 252.5 | 269.0 | 285.5 | 302.0 | 318.5 | 335.0 | 351.5 |
| L2 | 44.5 | 61.0 | 77.5 | 94.0 | 110.5 | 127.0 | 143.5 | 160.0 | 176.5 | 193.0 | 209.5 | 226.0 | 242.5 | 259.0 | 275.5 | 292.0 | 308.5 | 325.0 | 341.5 |
| L3 | — | — | — | — | — | — | — | 80.0 | 88.3 | 96.5 | 104.8 | 113.0 | 121.3 | 129.5 | 137.8 | 146.0 | 154.3 | 162.5 | 170.8 |

JSY1000/3000/5000 Series

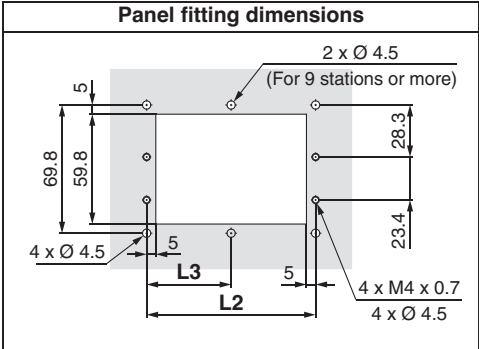
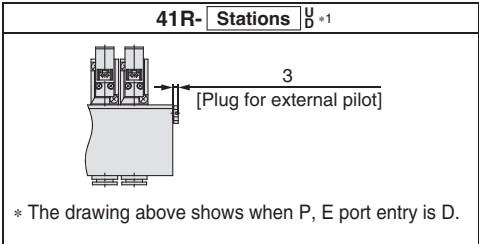
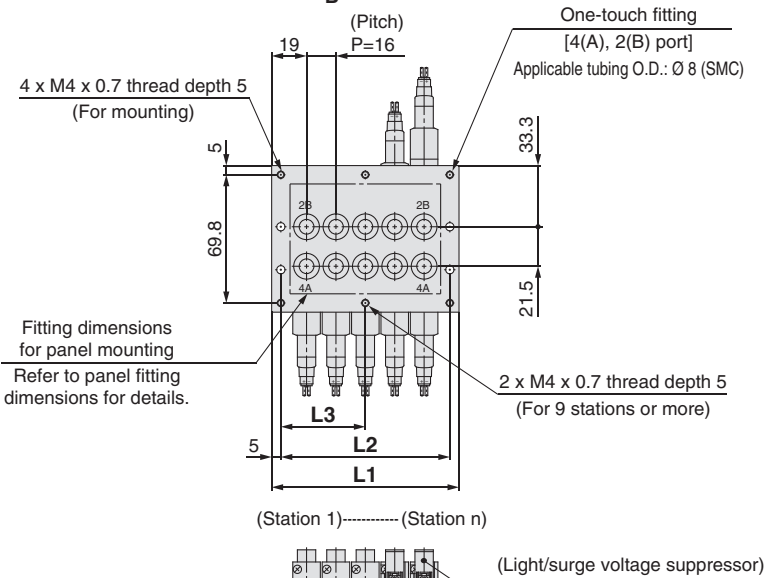
Dimensions: JSY5000 Series

Non Plug-in
Metal Base

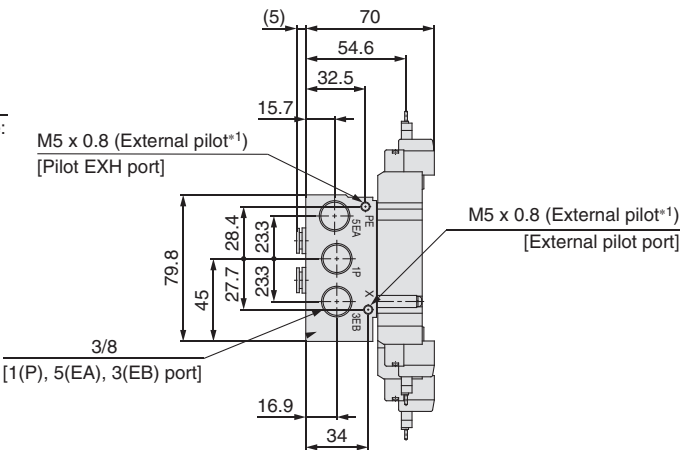
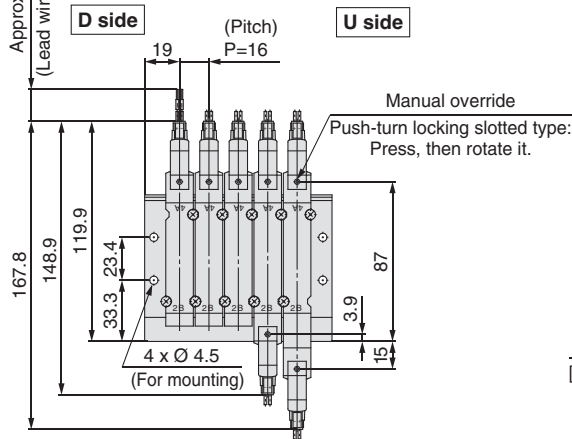
Type 41/Bottom Ported
Port Size: Ø 8/Fixed



JJ5SY5-41(R)- Stations $\frac{U}{D}$ - C8 □



*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY5-41-05B-C8."



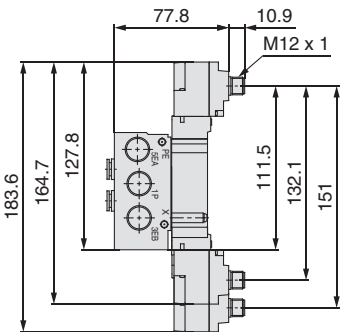
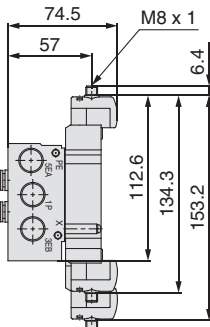
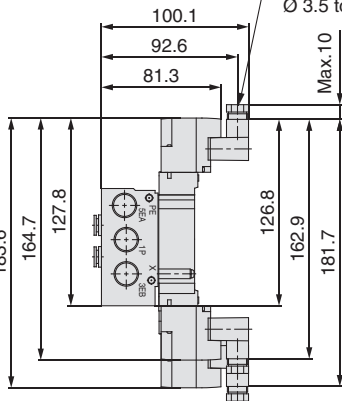
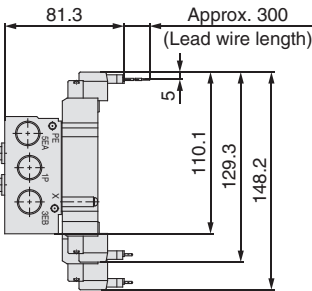
M plug connector (M)

DIN terminal (D, Y)

Applicable cable O.D.
Ø 3.5 to Ø 7

M8 connector (W, WA)

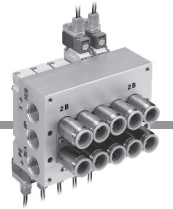
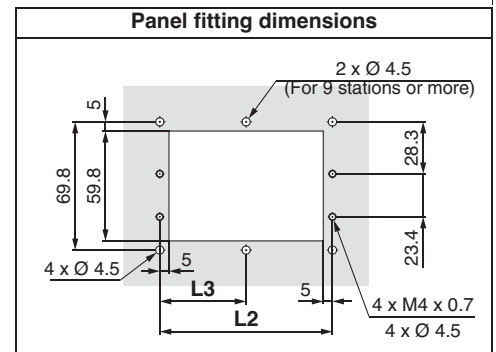
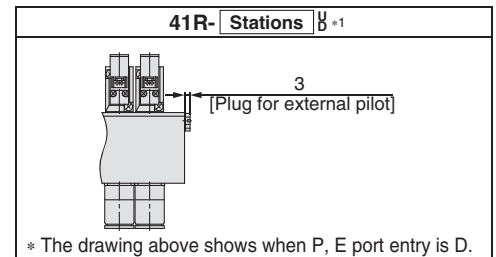
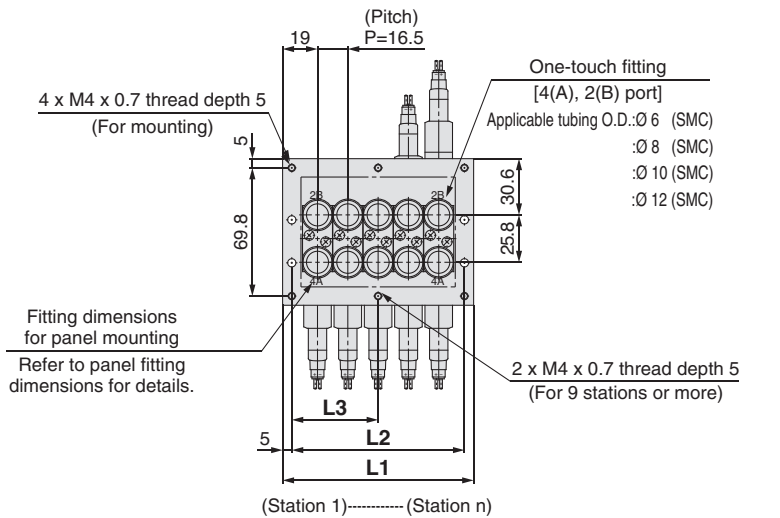
M12 connector (K)



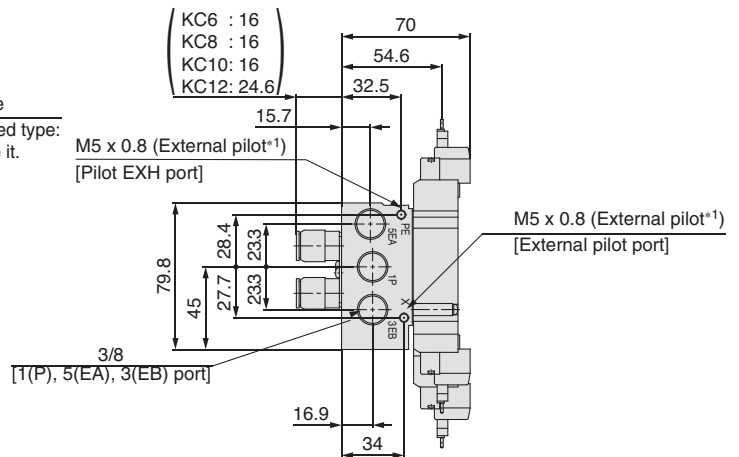
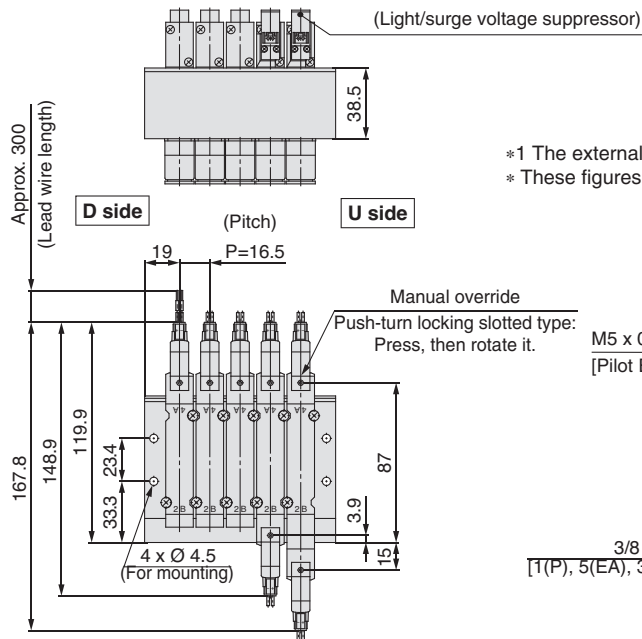
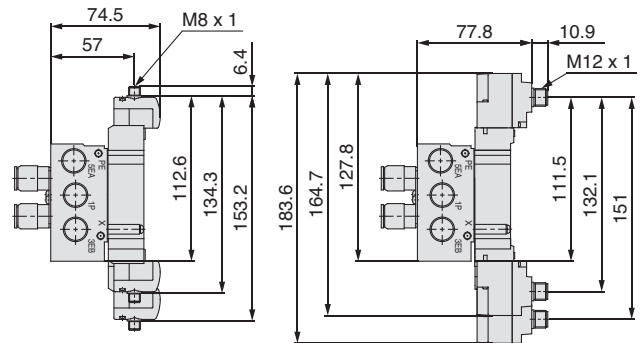
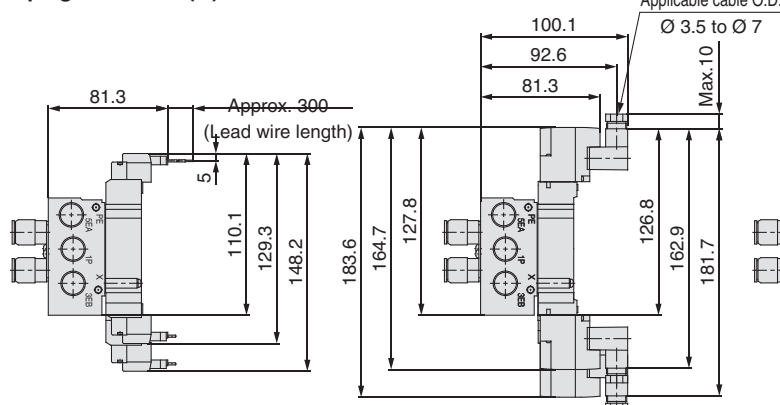
L Dimensions: Port Size C8

n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 54.0 | 70.0 | 86.0 | 102.0 | 118.0 | 134.0 | 150.0 | 166.0 | 182.0 | 198.0 | 214.0 | 230.0 | 246.0 | 262.0 | 278.0 | 294.0 | 310.0 | 326.0 | 342.0 |
| L2 | 44.0 | 60.0 | 76.0 | 92.0 | 108.0 | 124.0 | 140.0 | 156.0 | 172.0 | 188.0 | 204.0 | 220.0 | 236.0 | 252.0 | 268.0 | 284.0 | 300.0 | 316.0 | 332.0 |
| L3 | — | — | — | — | — | — | — | 78.0 | 86.0 | 94.0 | 102.0 | 110.0 | 118.0 | 126.0 | 134.0 | 142.0 | 150.0 | 158.0 | 166.0 |

Dimensions: JSY5000 Series**Non Plug-in
Metal Base****Type 41/Bottom Ported**
Port Size: Ø 6, Ø 8, Ø 10, Ø 12/Replaceable**JJ5SY5-41(R)- Stations** $\frac{U}{D}$ $\frac{KC6}{KC8}$ $\frac{KC10}{KC12}$ 

*1 The external pilot (R) should be ordered as Made to Order.
* These figures show the "JJ5SY5-41-05B-KC12."

**M plug connector (M)****DIN terminal (D, Y)****M8 connector (W, WA) M12 connector (K)****L Dimensions: Port Sizes KC6, KC8, KC10, KC12**

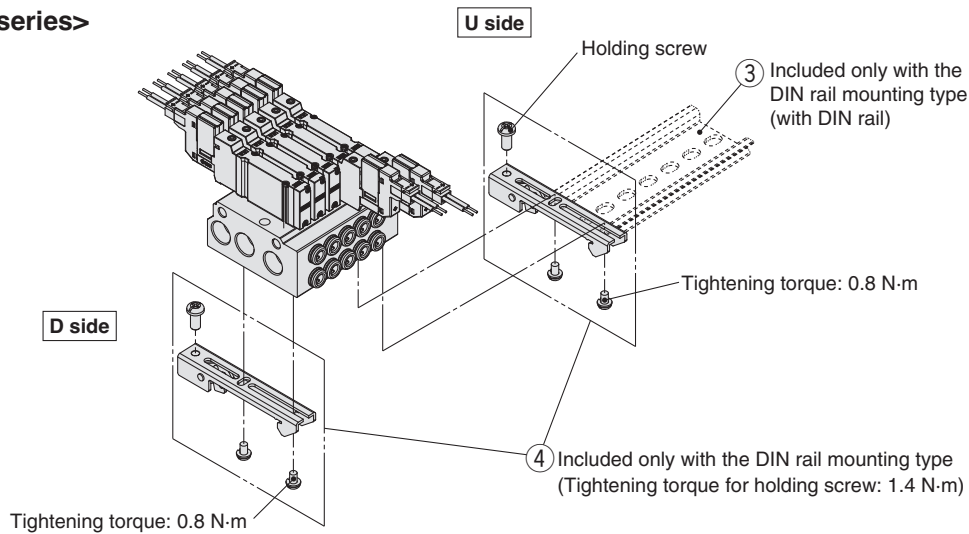
n: Stations

| L \ n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L1 | 54.5 | 71.0 | 87.5 | 104.0 | 120.5 | 137.0 | 153.5 | 170.0 | 186.5 | 203.0 | 219.5 | 236.0 | 252.5 | 269.0 | 285.5 | 302.0 | 318.5 | 335.0 | 351.5 |
| L2 | 44.5 | 61.0 | 77.5 | 94.0 | 110.5 | 127.0 | 143.5 | 160.0 | 176.5 | 193.0 | 209.5 | 226.0 | 242.5 | 259.0 | 275.5 | 292.0 | 308.5 | 325.0 | 341.5 |
| L3 | — | — | — | — | — | — | — | 80.0 | 88.3 | 96.5 | 104.8 | 113.0 | 121.3 | 129.5 | 137.8 | 146.0 | 154.3 | 162.5 | 170.8 |

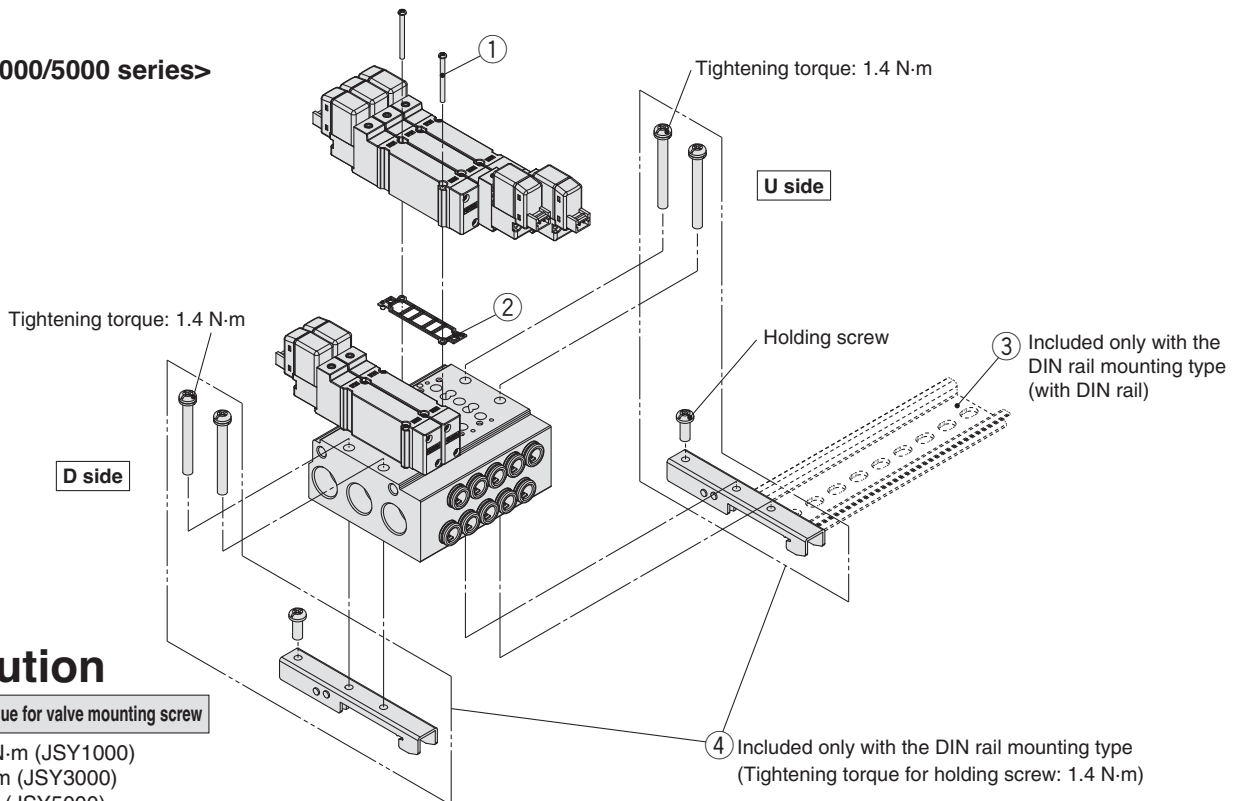
JSY1000/3000/5000 Series Type 40, 41

Non Plug-in Metal Base Manifold Exploded View

<JSY1000 series>



<JSY3000/5000 series>



⚠ Caution

Tightening torque for valve mounting screw

M1.4: 0.06 N·m (JSY1000)
M2: 0.16 N·m (JSY3000)
M3: 0.8 N·m (JSY5000)

Manifold Parts Nos.

| No. | Description | Part number | | | Note |
|-----|----------------------|-------------------------------|---------------------------|---------------------------|---|
| | | JSY1000 | JSY3000 | JSY5000 | |
| ① | Valve mounting screw | JSY11V-23-1A (M1.4 x 21.5) | JSY31V-23-4A (M2 x 22) | JSY51V-23-4A (M3 x 27) | Part numbers shown on the left are for 10 valves. (20 pcs.) |
| ② | Base gasket | JSY11M-11-1A | JSY31M-11-1A | JSY51M-11-1A | Part numbers shown on the left are for 10 valves. (10 pcs.) |
| ③ | DIN rail | VZ1000-11-1-□ | VZ1000-11-1-□ | VZ1000-11-4-□ | Refer to page 37. |
| ④ | Clamp bracket | JSY11M-15-1A | JSY31M-15-1A | JSY51M-15-1A | Part numbers shown on the left are for one manifold. (2 sets of clamp brackets) |

JSY1000/3000/5000 Series

One-touch Fittings, Clip, Port Plate, Tube Releasing Tool

Refer to "How to Replace One-touch Fittings" on page 44 for the replacement method.

One-touch Fittings

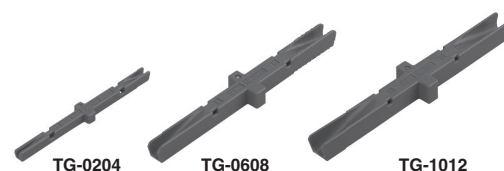
| Port size | JSY1000 | JSY3000 | JSY5000 | Note |
|-----------|---------|-----------------|------------------|--|
| A, B port | Ø 2 | KQSY10-C2 | — | Part number is for one piece. (Sales unit: 10 pcs.) |
| | Ø 4 | KQSY10-C4-X1336 | KQSY30-C4 | |
| | Ø 6 | KQSY11-C6 | KQSY30-C6 | |
| | Ø 8 | — | KQSY30-C8 | |
| | Ø 10 | — | KQSY50-C10 | |
| | Ø 12 | — | KQSY50-C12-X1336 | |

Clip, Port Plate

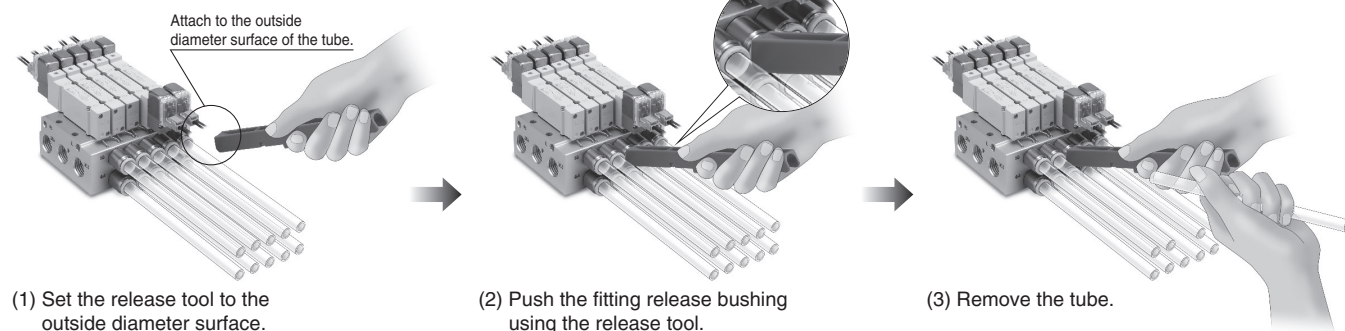
| | JSY1000 | | JSY3000 | JSY5000 | Note |
|------------|-----------------------------------|-------------------------------|--------------|--------------|-------------------------------|
| | For A, B port KC2/KC4 fittings | For A, B port KC6 fittings | | | |
| Clip | JSY11M-19-4A | JSY11M-19-3A | JSY31M-19-3A | JSY51M-19-3A | Part number is for 10 pieces. |
| Port plate | JSY11M-10-4A | JSY11M-10-3A | JSY31M-10-3A | JSY51M-10-3A | Part number is for 10 pieces. |

Tube Releasing Tool (This tool is used for removing the tube from port A and B.)

| Part number | TG-0204 | TG-0608 | TG-1012 |
|------------------------|---------|---------|-----------|
| Applicable tubing O.D. | Ø 2/Ø 4 | Ø 6/Ø 8 | Ø 10/Ø 12 |



Tube removal procedure



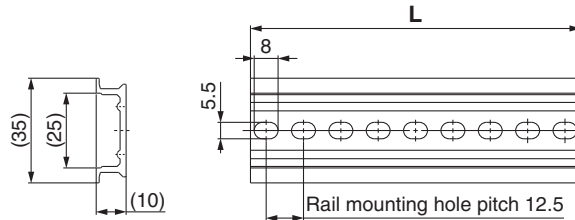
JSY1000/3000/5000 Series

Manifold Options

■ DIN rail dimensions/weight for the JSY1000/3000 Non Plug-in metal base

VZ1000-11-1-□

* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box □.



| No. | S3 | S2 | S1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-------------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| L dimension | 60.5 | 73 | 85.5 | 98 | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 260.5 | 273 | 285.5 |
| Weight [g] | 10.9 | 13.1 | 15.4 | 17.6 | 19.9 | 22.1 | 24.4 | 26.6 | 28.9 | 31.1 | 33.4 | 35.6 | 37.9 | 40.1 | 42.4 | 44.6 | 46.9 | 49.1 | 51.4 |

| No. | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
|-------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| L dimension | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 | 510.5 | 523 |
| Weight [g] | 53.6 | 55.9 | 58.1 | 60.4 | 62.5 | 64.9 | 67.1 | 69.4 | 71.6 | 73.9 | 76.1 | 78.4 | 80.6 | 82.9 | 85.1 | 87.4 | 89.6 | 91.9 | 94.1 |

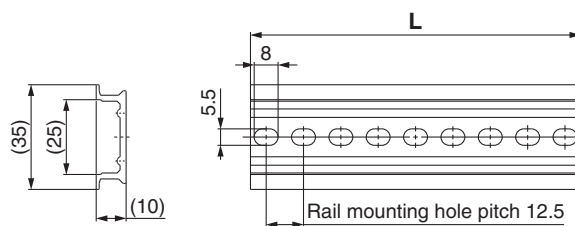
| No. | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 |
|-------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L dimension | 535.5 | 548 | 560.5 | 573 | 585.5 | 598 | 610.5 | 623 | 635.5 | 648 | 660.5 | 673 | 685.5 | 698 | 710.5 | 723 | 735.5 | 748 | 760.5 |
| Weight [g] | 96.4 | 98.6 | 100.9 | 103.1 | 105.4 | 107.6 | 109.9 | 112.1 | 114.4 | 116.6 | 118.9 | 121.1 | 123.4 | 125.6 | 127.9 | 130.1 | 132.4 | 134.6 | 136.9 |

| No. | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L dimension | 773 | 785.5 | 798 | 810.5 | 823 | 835.5 | 848 | 860.5 | 873 | 885.5 | 898 | 910.5 | 923 | 935.5 | 948 | 960.5 | 973 | 985.5 |
| Weight [g] | 139.1 | 141.4 | 143.6 | 145.9 | 148.1 | 150.4 | 152.6 | 154.9 | 157.1 | 159.4 | 161.6 | 163.9 | 166.1 | 168.4 | 170.6 | 172.9 | 175.1 | 177.4 |

■ DIN rail dimensions/weight for the JSY5000 Non Plug-in metal base

VZ1000-11-4-□

* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box □.



| No. | S1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|-------------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| L dimension | 85.5 | 98 | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 260.5 | 273 | 285.5 | 298 | 310.5 |
| Weight [g] | 21.7 | 24.8 | 28 | 31.1 | 34.3 | 37.4 | 40.6 | 43.8 | 46.9 | 50.1 | 53.3 | 56.4 | 59.6 | 62.7 | 65.9 | 69.1 | 72.2 | 75.4 | 78.6 |

| No. | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
|-------------|------|-------|-----|-------|------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|
| L dimension | 323 | 335.5 | 348 | 360.5 | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 | 510.5 | 523 | 535.5 | 548 |
| Weight [g] | 81.7 | 84.9 | 88 | 91.2 | 94.4 | 97.5 | 100.7 | 103.9 | 107 | 110.2 | 113.3 | 116.5 | 119.7 | 122.8 | 126 | 129.2 | 132.3 | 135.5 | 138.6 |

| No. | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
|-------------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L dimension | 560.5 | 573 | 585.5 | 598 | 610.5 | 623 | 635.5 | 648 | 660.5 | 673 | 685.5 | 698 | 710.5 | 723 | 735.5 | 748 | 760.5 | 773 | 785.5 |
| Weight [g] | 141.8 | 145 | 148.1 | 151.3 | 154.5 | 157.6 | 160.8 | 163.9 | 167.1 | 170.3 | 173.4 | 176.6 | 179.8 | 182.9 | 186.1 | 189.2 | 192.4 | 195.6 | 198.7 |

| No. | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L dimension | 798 | 810.5 | 823 | 835.5 | 848 | 860.5 | 873 | 885.5 | 898 | 910.5 | 923 | 935.5 | 948 | 960.5 | 973 | 985.5 |
| Weight [g] | 201.9 | 205.1 | 208.2 | 211.4 | 214.5 | 217.7 | 220.9 | 224 | 227.2 | 230.4 | 233.5 | 236.7 | 239.8 | 243 | 246.2 | 249.3 |



| Tightening torque for mounting screw | |
|--------------------------------------|--------------------|
| M1.4: | 0.06 N·m (JSY1000) |
| M2: | 0.16 N·m (JSY3000) |
| M3: | 0.8 N·m (JSY5000) |

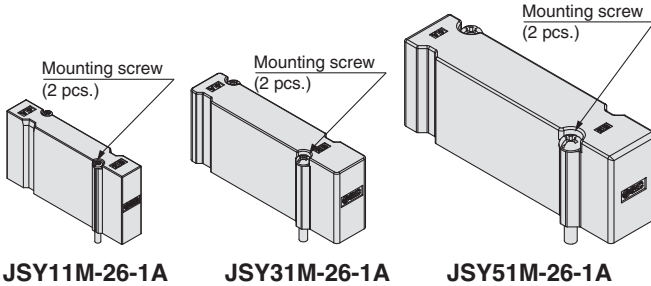
* Refer to page 39 for dimensions.

Manifold Options

Blanking plate

[With two mounting screws]

Used when valve additions are expected or for maintenance.



JSY11M-26-1A

JSY31M-26-1A

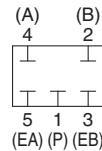
JSY51M-26-1A

How to Order Blanking Plates

JSY **3** 1M - 26 - 1A

Series

| | |
|---|---------|
| 1 | JSY1000 |
| 3 | JSY3000 |
| 5 | JSY5000 |

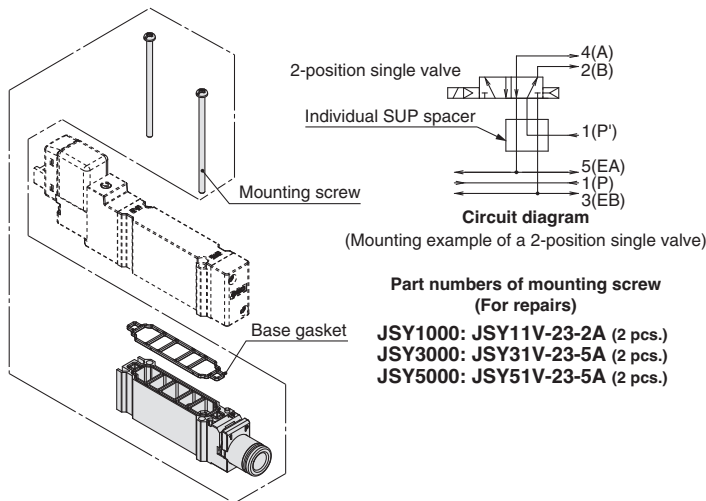


Circuit diagram

Individual SUP spacer

[With a base gasket and two mounting screws]

When the same manifold is used for different pressures, an individual SUP spacer is used as a supply port for different pressures.



(Mounting example of a 2-position single valve)

Part numbers of mounting screw (For repairs)

JSY1000: JSY11V-23-2A (2 pcs.)
JSY3000: JSY31V-23-5A (2 pcs.)
JSY5000: JSY51V-23-5A (2 pcs.)

How to Order Individual SUP/EXH Spacers

JSY **3** 1M - **38** - 1A - **C6**

Spacer type

| | |
|----|-----------------------|
| 38 | Individual SUP spacer |
| 39 | Individual EXH spacer |

Series

| | |
|---|---------|
| 1 | JSY1000 |
| 3 | JSY3000 |
| 5 | JSY5000 |

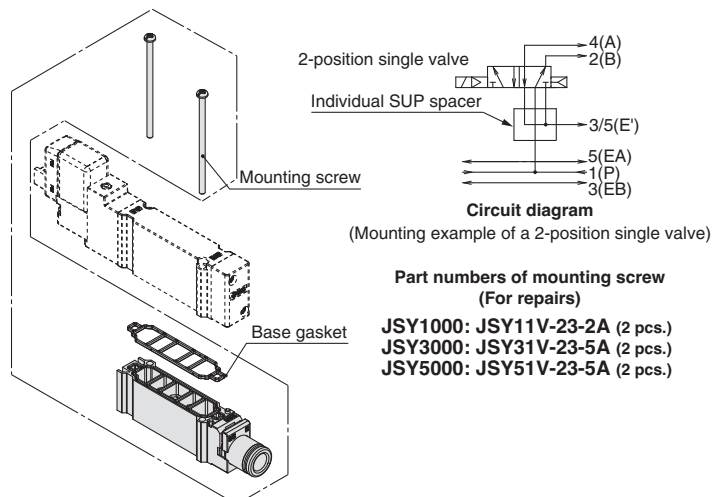
Port size (One-touch fittings)

| Symbol | P, E port | JSY1000 | JSY3000 | JSY5000 |
|--------|------------------------|---------|---------|---------|
| C4 | Ø 4 One-touch fitting | ● | — | — |
| C6 | Ø 6 One-touch fitting | — | ● | — |
| C8 | Ø 8 One-touch fitting | — | — | ● |
| C10 | Ø 10 One-touch fitting | — | — | ● |
| C12 | Ø 12 One-touch fitting | — | — | ● |

Individual EXH spacer

[With a base gasket and two mounting screws]

When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust.



(Mounting example of a 2-position single valve)

Part numbers of mounting screw (For repairs)

JSY1000: JSY11V-23-2A (2 pcs.)
JSY3000: JSY31V-23-5A (2 pcs.)
JSY5000: JSY51V-23-5A (2 pcs.)

JSY1000/3000/5000 Series

Caution

Tightening torque for mounting screw
M1.4: 0.06 N·m (JSY1000)

Manifold Options

■ SUP stop valve spacer with residual pressure release valve

[With a base gasket and two mounting screws]

It is used to shut off the supply air to valves individually.

* Refer to page 39-1 for dimensions.

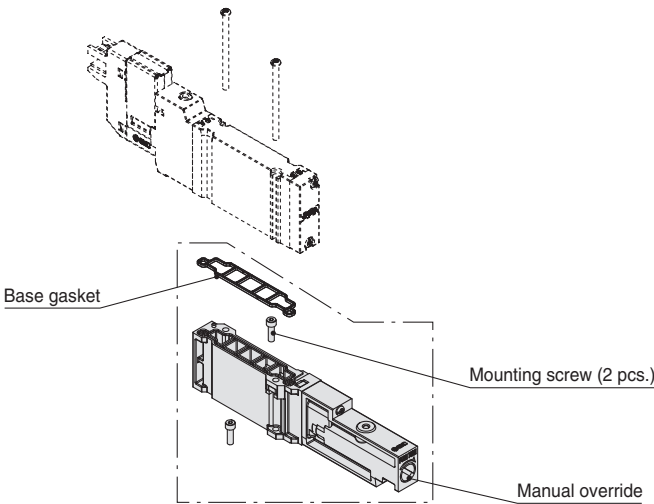
* Only compatible when the JSY1000 series 4(A), 2(B) ports are port size M5 or KC6

JSY11M-50-1A

| | |
|-----------------|--------------------------------|
| Manual override | Push-turn locking slotted type |
|-----------------|--------------------------------|

* If you want to lock the manual override, push it down until it stops, and then turn it 90° clockwise. Be careful to avoid turning it without pushing it all the way down as this may result in spacer damage, air leakage, or another form of malfunction.

To release the manual override, turn it counterclockwise. When turning the manual override, do not apply more torque than necessary. (0.1 N·m)



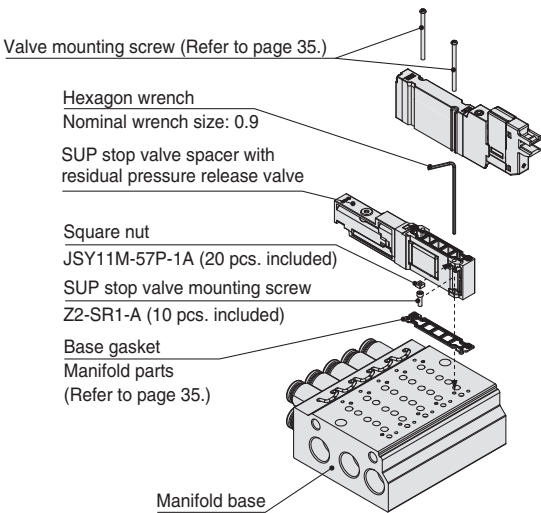
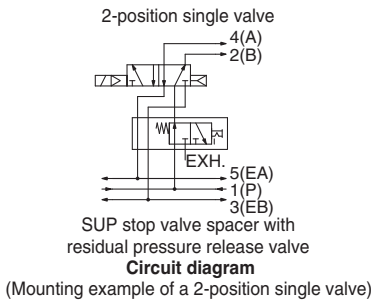
Part numbers of mounting screw (For repairs)
JSY1000: Z2-SR1-A (10 pcs.)

[How to mount SUP stop valve spacer with residual pressure release valve]

Mount the base gasket (manifold part) to the SUP stop valve manifold base side. Insert the SUP stop valve mounting screw into the spacer screw hole, and mount it to the manifold base.

Tighten the SUP stop valve mounting screw to the specified tightening torque. After mounting the SUP stop valve spacer with a residual pressure release valve, mount the valve and tighten the valve mounting screws to the specified tightening torque.

- * Be aware that the square nut may come off. If the square nut comes off, attach it to the spacer as shown in the drawing.
- * Tightening with a hexagon wrench is possible with the square nut attached.
- * This product is only for internal pilot specifications, as the external pilot air cannot be shut off.
- * If the product is equipped with a 3-position closed centre, residual pressure cannot be released, so use in combination with a 3-port valve, which can be connected to the 4(A), 2(B) piping port.
- * Note that other spacer combinations are not possible.



| Model | Port size | | Flow rate characteristics | | | | | |
|--------------|------------------------|----------------|---------------------------|------|-------------------|---------------------|------|-------------------|
| | 1, 5, 3 (P, EA, EB) | 4, 2 (A, B) | 1 → 4/2 (P → A/B) | | | 4/2 → 5/3 (A/B → E) | | |
| | | | C [dm³/(s·bar)] | b | Q [l/min (ANR)]*1 | C [dm³/(s·bar)] | b | Q [l/min (ANR)]*1 |
| JSY11M-50-1A | 1/8 | KC6 | 0.52 | 0.26 | 129 | 0.61 | 0.23 | 149 |

* Calculation of effective area S and sonic conductance C: $S = 5.0 \times C$

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

* When the manifold is the metal base side ported type (type 40)

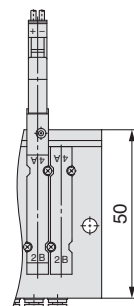
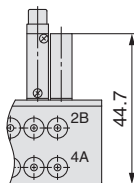
*1 These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

JSY1000/3000/5000 Series

Dimensions: Manifold Options

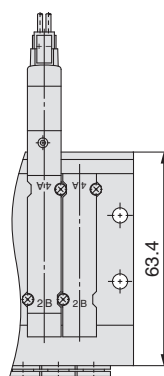
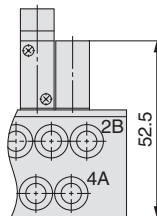
■ Blanking plate

JSY1000 series



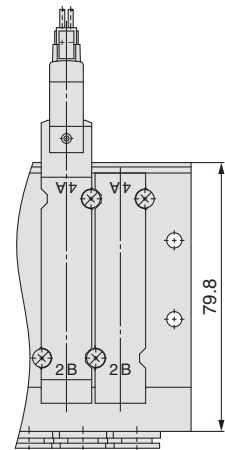
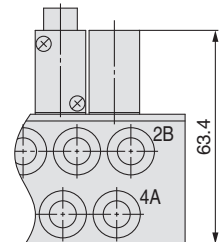
<Type 40>

JSY3000 series



<Type 40>

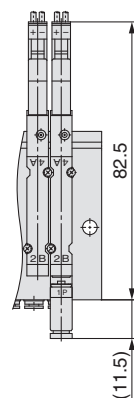
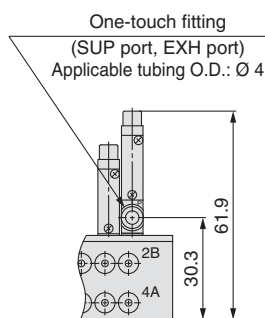
JSY5000 series



<Type 40>

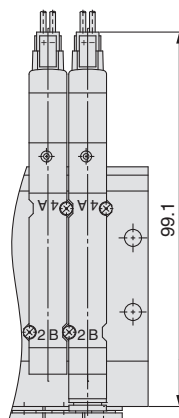
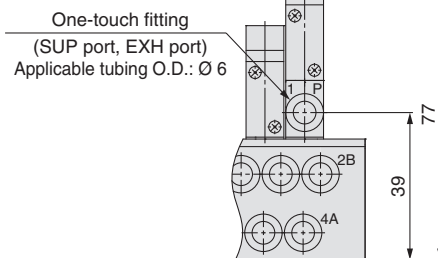
■ Individual SUP/EXH spacer

JSY1000 series



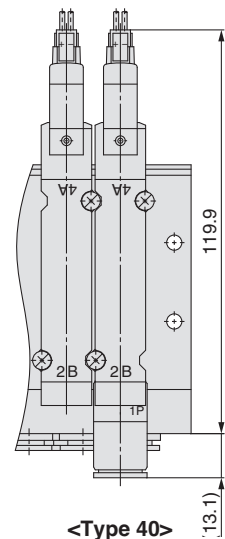
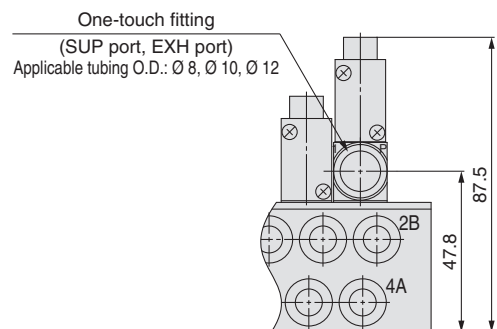
<Type 40>

JSY3000 series



<Type 40>

JSY5000 series

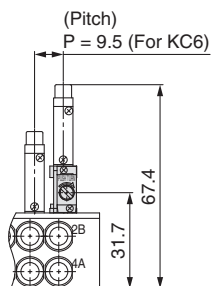
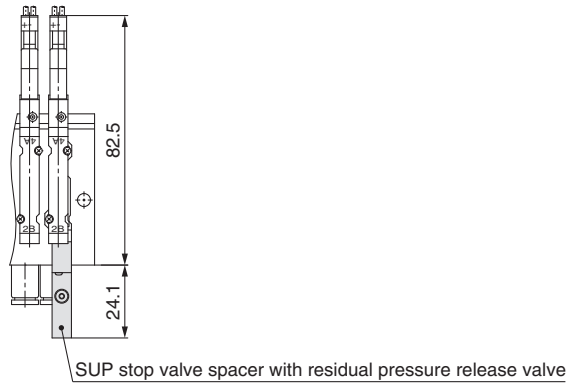


<Type 40>

Dimensions: Manifold Options

■ SUP stop valve spacer with residual pressure release valve

* Only compatible when the JSY1000 series 4(A), 2(B) ports are port size M5 or KC6



<Type 40>

1 External Pilot

How to Order Manifolds

p. 15

JJ5SY $\frac{1}{3}$ - $\frac{40}{41}$ R - -

• Type

| | |
|---|----------------|
| R | External pilot |
|---|----------------|

How to Order Valves

p. 16

JSY 1 4 0 R T - 5

JSY $\frac{3}{5}$ 4 0 R - 5

• Coil type

• Pilot type

| | |
|---|----------------|
| R | External pilot |
|---|----------------|

* External pilot specification is not applicable for 4-position dual 3-port valves.

* When pilot type "R" is selected, select the external pilot type "R" for the manifold model.



JSY1000/3000/5000 Series

Specific Product Precautions 1

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

Environment

⚠ Warning

Do not use valves in atmospheres of corrosive gases, chemicals, sea water, water, water vapor, or where there is direct contact with any of these.

Valve Mounting

⚠ Caution

Mount it so that there is no slippage or deformation in gaskets, and tighten with the tightening torque as shown below.

| Series | Thread size | Tightening torque |
|---------|-------------|-------------------|
| JSY1000 | M1.4 | 0.06 N·m |
| JSY3000 | M2 | 0.16 N·m |
| JSY5000 | M3 | 0.8 N·m |

Manual Override

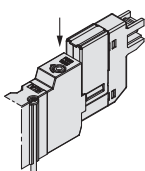
⚠ Warning

1. Do not apply excessive torque when turning the manual override. [0.05 N·m]
When locking the manual override, be sure to push it down before turning. Turning without first pushing it down can cause damage to the manual override and other trouble such as air leakage, etc.
2. Manual override is used to switch the main valve without inputting an electrical signal for the valve. When manual operation is performed, the connected actuator will start operating, so be sure to confirm that it is safe to operate beforehand.

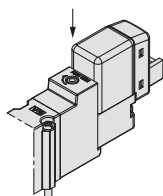
■ Non-locking push type

Push down on the manual override button until it stops.

JSY1000 series



JSY3000/5000 series



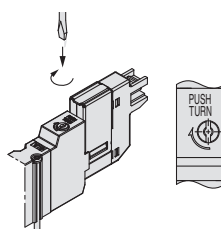
Manual Override

⚠ Warning

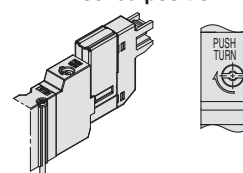
■ Push-turn locking slotted type [D type]

Push down on the manual override with a small flat head screwdriver until it stops, and then turn it 90° clockwise. The manual override is then locked. To release it, turn it counterclockwise. If it is not turned, it can be operated the same way as the non-locking push type.

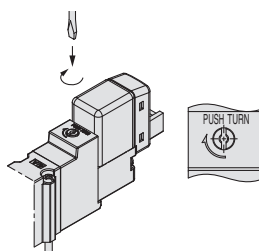
JSY1000 series



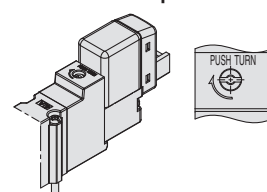
Locked position



JSY3000/5000 series

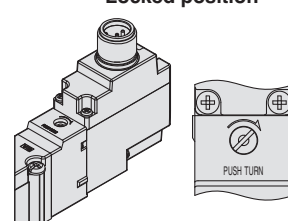
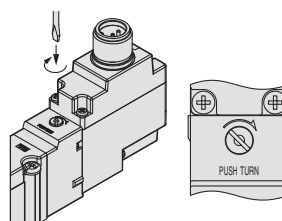


Locked position



JSY5000 series (DIN terminal, M12 connector type)

Locked position





JSY1000/3000/5000 Series Specific Product Precautions 2

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

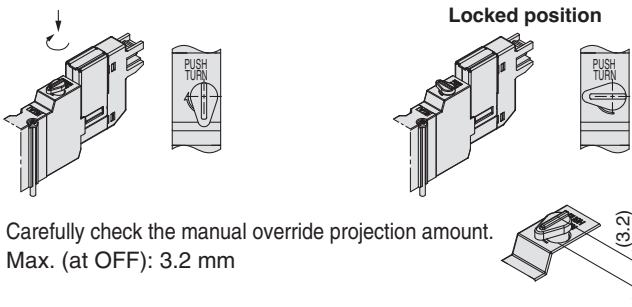
Manual Override

Warning

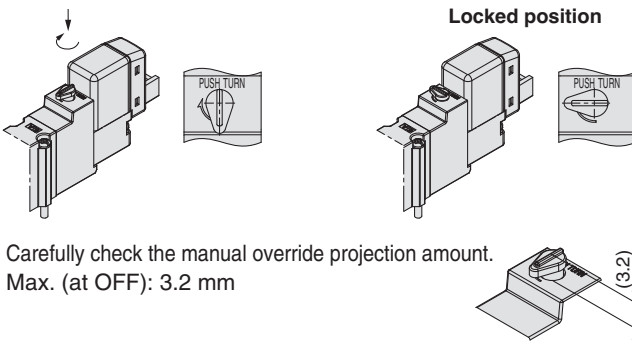
Push-turn locking lever type [E type]

Push down on the manual override by finger until it stops, and then turn it 90° clockwise. The manual override is then locked. To release it, turn it counterclockwise. If it is not turned, it can be operated the same way as the non-locking push type.

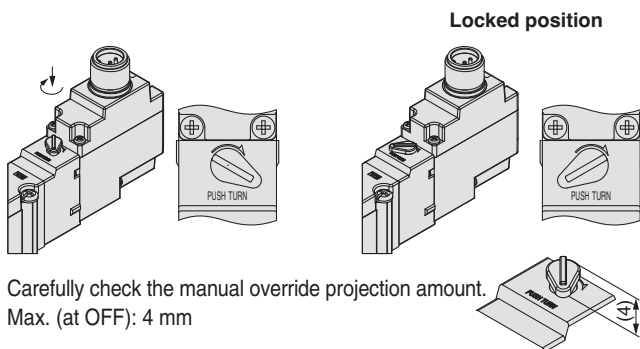
JSY1000 series



JSY3000/5000 series



JSY5000 series (DIN terminal, M12 connector type)



Used as a 3-Port Valve

Caution

In case of using a 5-port valve as a 3-port valve

The JSY1000/3000/5000 series can be used as normally closed (N.C.) or normally open (N.O.) 3-port valves by closing one of the cylinder ports 4(A) or 2(B) with a plug. However, they should be used with the exhaust ports kept open.

| Plug position | | B port | A port |
|---------------------|--------|-----------------------------------|-----------------------------------|
| Type of actuation | | N.C. | N.O. |
| Number of solenoids | Single | (A)4 2(B) (EA)5 1 3(EB) (P) | (A)4 2(B) (EA)5 1 3(EB) (P) |
| | Double | (A)4 2(B) (EA)5 1 3(EB) (P) | (A)4 2(B) (EA)5 1 3(EB) (P) |

How to Use L/M Plug Connector

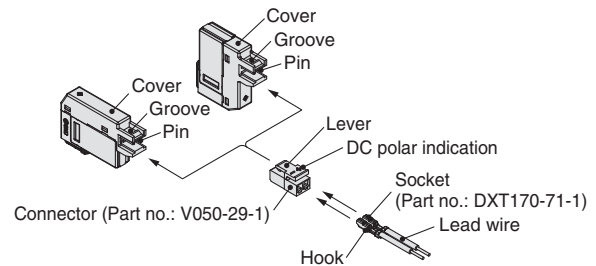
Caution

1. Attaching and detaching connectors

To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

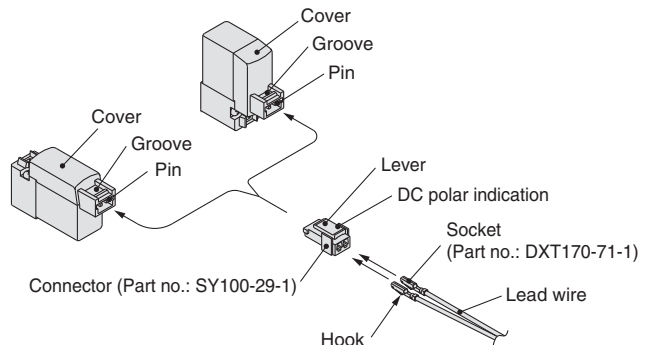
To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.

For JSY1000



* In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 10 N or more).

For JSY3000/5000



* In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 30 N or more).



JSY1000/3000/5000 Series

Specific Product Precautions 3

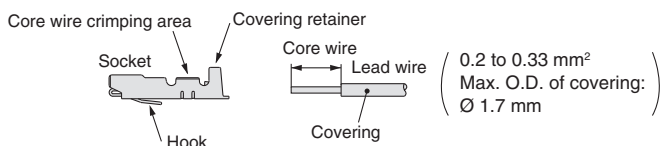
Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

How to Use L/M Plug Connector

⚠ Caution

2. Crimping connection of lead wire and socket

Strip 3.2 to 3.7 mm at the end of lead wires, insert the end of the core wires evenly into the sockets, and then crimp it by a crimping tool. When this is done, take care that the coverings of the lead wires do not enter the core wire crimping area. (Please contact SMC for the dedicated crimping tools.)



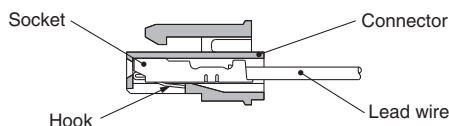
3. Attaching and detaching lead wires with sockets

Attaching

Insert the sockets into the square holes of the connector (⊕, ⊖ indication), and continue to push the sockets all the way in until they lock by hooking into the seats in the connector. (When they are pushed in, their hooks open and they are locked automatically.) Then confirm that they are locked by pulling lightly on the lead wires.

Detaching

To detach a socket from a connector, pull out the lead wire while pressing the socket's hook with a stick having a thin tip (approx. 1 mm). If the socket will be used again, first spread the hook outward.



Plug Connector

<How to Order> L/M Plug Connector

■ For JSY1000

V050-30-□ A-□

● Rated voltage

| Symbol | Rated voltage | Lead wire colour |
|--------|---------------------|------------------|
| 4 | DC | Red, Black |
| — | Without lead wire*1 | |

*1 With connector and 2 of sockets only

● Lead wire length

| Symbol | Lead wire length |
|--------|------------------|
| — | 300 mm |
| 6 | 600 mm |
| 10 | 1000 mm |
| 20 | 2000 mm |
| 30 | 3000 mm |
| 50 | 5000 mm |

■ For JSY3000/5000

SY100-30-□ A-□

● Rated voltage

| Symbol | Rated voltage | Lead wire colour |
|--------|---------------------|------------------|
| 4 | DC | Red, Black |
| — | Without lead wire*1 | |

*1 With connector and 2 of sockets only

● Lead wire length

| Symbol | Lead wire length |
|--------|------------------|
| — | 300 mm |
| 6 | 600 mm |
| 10 | 1000 mm |
| 20 | 2000 mm |
| 30 | 3000 mm |
| 50 | 5000 mm |

How to Order

Specify the plug connector part number together with the part number for the plug connector type solenoid valve without connector.

<Example> Lead wire length 2000 mm

For DC

JSY3140-5LOZ
SY100-30-4A-20



JSY1000/3000/5000 Series

Specific Product Precautions 4

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

Plug Connector

M8 Connector Type (JSY3000/5000), M12 Connector Type (JSY5000)

■ Connector cable

Connector cable for M8/M12 can be ordered as follows:

How to Order

- To order solenoid valve and connector cable at the same time.
(Connector cable will be included in the shipment of the solenoid valve.)

M8 connector type (JSY3000/5000)

JSY $\frac{3}{5}$ \square 40 – 5 W \square 1 Z \square

IEC Standards compliant

| | |
|---|----------------------|
| — | None |
| A | IEC60947-2 compliant |

Cable length (mm)

| Symbol | Cable length (mm) |
|--------|-------------------|
| 1 | 300 |
| 2 | 500 |
| 3 | 1000 |
| 4 | 2000 |
| 5 | 3000 |
| 6 | 4000 |
| 7 | 5000 |

M12 connector type (JSY5000)

JSY 5 \square $\frac{2}{4}$ 0 – 5 K \square 1 Z \square

Cable length (mm)

| Symbol | Cable length (mm) |
|--------|-------------------|
| 1 | 300 |
| 2 | 500 |
| 3 | 1000 |
| 5 | 3000 |
| 7 | 5000 |

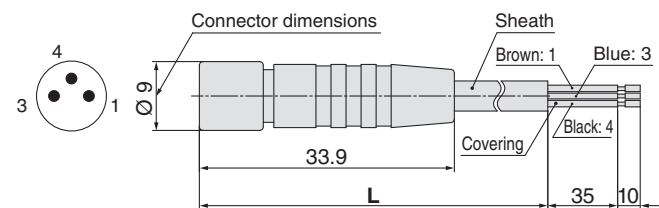
Ex. 1) Cable length: 300 mm

JSY3140-5W1Z

•Symbol for electrical entry

- To order connector cable only

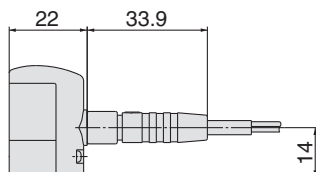
[M8 connector cable]



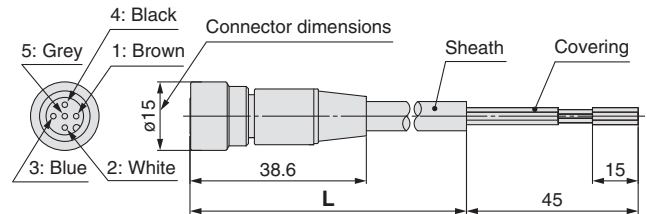
| Cable length (L) | Part no. |
|------------------|-------------|
| 300 mm | V100-49-1-1 |
| 500 mm | V100-49-1-2 |
| 1000 mm | V100-49-1-3 |
| 2000 mm | V100-49-1-4 |
| 5000 mm | V100-49-1-7 |
| 3000 mm | V100-49-1-5 |
| 4000 mm | V100-49-1-6 |

| | |
|----------------|----------------------|
| Sheath O.D. | Ø 3.4 mm |
| Cover diameter | Ø 1.16 mm |
| Conductor area | 0.16 mm ² |

[Dimensions when installed]



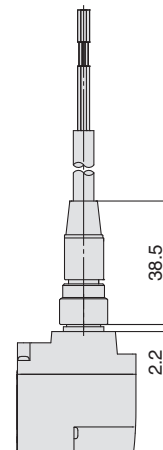
[M12 connector cable]



| Cable length (L) | Part no. |
|------------------|---------------|
| 300 mm | V100-200-5 |
| 500 mm | V100-200-5-5 |
| 1000 mm | V100-200-5-10 |
| 3000 mm | V100-200-5-30 |
| 5000 mm | V100-200-5-50 |

| | |
|----------------|---------------------|
| Sheath O.D. | Ø 6.5 mm |
| Cover diameter | Ø 1.8 mm |
| Conductor area | 0.5 mm ² |

[Dimensions when installed]



DIN Connector Part No.

⚠ Caution

< Type D >

With light

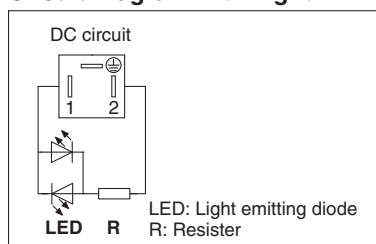
| Rated voltage | Voltage symbol | Part no. |
|---------------|----------------|---------------|
| 24 VDC | 24V | SY100-61-3-05 |

< Type Y >

With light

| Rated voltage | Voltage symbol | Part no. |
|---------------|----------------|---------------|
| 24 VDC | 24VN | SY100-82-3-05 |

Circuit Diagram with Light





JSY1000/3000/5000 Series

Specific Product Precautions 5

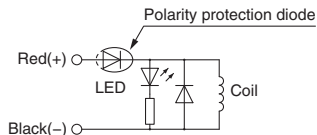
Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

Surge Voltage Suppressor

Caution

<For DC>
L/M Plug Connector

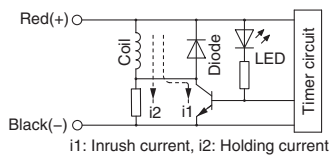
■ Polar type (For JSY3000/5000) With light/surge voltage suppressor (□Z)



- Connect in accordance with the +, – polarity indication.
- When wiring is done at the factory, positive (+) is red and negative (–) is black.

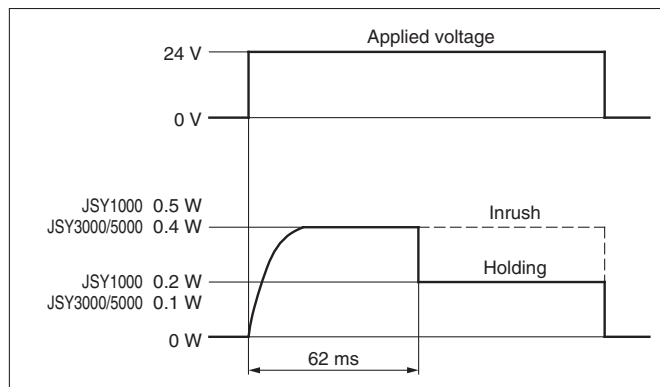
■ With power saving circuit

Power consumption is decreased to approx. 1/2.5 to 1/4 of the amount consumed at startup by reducing the wattage required to hold the valve in an energized state. (Effective energizing time is over 62 ms at 24 VDC.)



The circuit shown above reduces the power consumption for holding in order to save energy. Refer to the electrical power waveform as shown below.

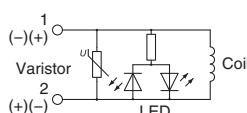
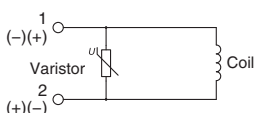
<Electrical power waveform with power saving circuit>



- Be careful not to reverse the polarity, since a diode to prevent the reversed current is not provided for the power saving circuit.
- Since the voltage will drop by approx. 0.5 V due to the transistor, pay attention to the allowable voltage fluctuation. (For details, refer to the solenoid specifications of each type of valve.)

DIN terminal (JSY5000)

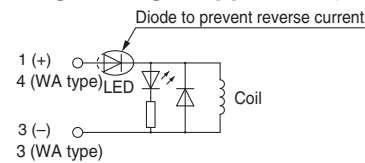
With surge voltage suppressor (DOS) (YOS) With light/surge voltage suppressor (DZ) (YZ)



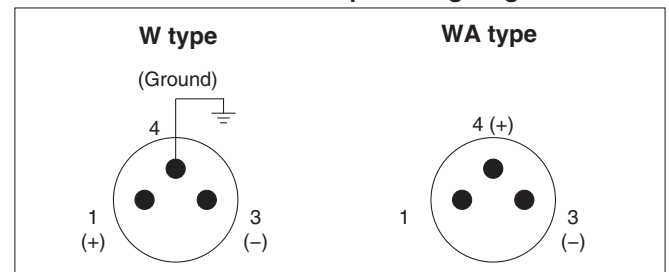
DIN terminal has no polarity.

M8 Connector Type (JSY3000/5000)

■ Polar type With light/surge voltage suppressor (□Z)



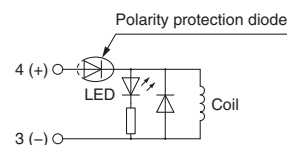
Solenoid valve side pin wiring diagram



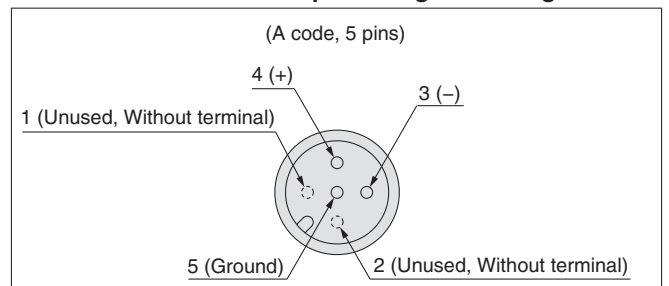
* The WA-type valve cannot be grounded.

M12 Connector (JSY5000)

■ Polar type With light/surge voltage suppressor (□Z)



Solenoid valve side pin arrangement diagram





JSY1000/3000/5000 Series

Specific Product Precautions 6

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

Continuous Duty

⚠ Caution

If a valve is energised continuously for long periods of time, the rise in temperature due to heat-up of the coil assembly may cause a decline in solenoid valve performance, reduce service life, or have adverse effects on peripheral equipment. If the valve is energised continuously for long periods of time, be sure to use a valve with power saving circuit. In particular, if three or more adjacent stations on the manifold are energised simultaneously for extended periods of time or if the valves on A side and B side are energised simultaneously for long periods of time, take special care as the temperature rise will be greater.

Energization of a 2-Position Double Solenoid Valve

⚠ Caution

To avoid operation failure, do not energize the A side and B side of 2-position double solenoid valve at the same time.

How to Replace One-touch Fittings

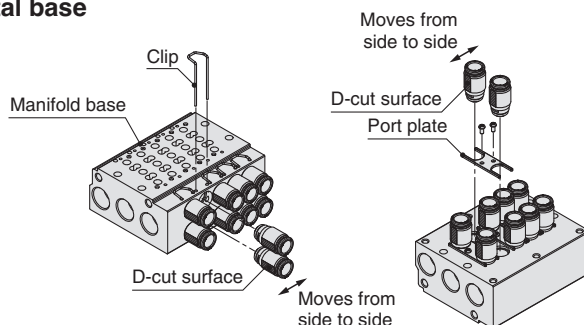
⚠ Caution

By replacing One-touch fittings of manifold base, it is possible to change the connection diameter of the 4(A), 2(B), 1(P), 3/5(E) ports. When replacing the One-touch fittings, remove the clip or the plate before pulling the One-touch fittings off. Mount the One-touch fittings by following the removal procedure in reverse. Use caution as it may cause air leakage if the clip and the plate are not inserted securely enough when they are switched. Refer to page 36 for part numbers of One-touch fittings.

Fitting direction is specified when the fittings below are used. Assemble the fitting so that the D-cut surfaces of the fitting face sideways.

Fitting part no.: KQSY10-C4-X1336 (JSY1000)
KQSY50-C12-X1336 (JSY5000)

■ Metal base



- * It is not possible to replace C2 or C4 fittings with C6 fittings for the JSY1000 series.
- * Refer to page 36 for One-touch fitting, clip, and port plate part numbers.

One-touch Fittings

⚠ Caution

■ Tube attachment/detachment for One-touch fittings

1) Tube attachment

1. Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pliers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc., making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.
2. Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
3. After inserting the tube, pull on it lightly to confirm that it will not come out. If it is not installed securely all the way into the fitting, this can cause problems such as air leakage or the tube pulling out.

2) Tube detachment

1. Push in the release button sufficiently, pushing its collar equally around the circumference.
2. Pull out the tube while holding down the release button so that it does not come out. If the release button is not pressed down sufficiently, there will be increased bite on the tube and it will become more difficult to pull it out.
3. When the removed tube is to be used again, cut off the portion which has been chewed before reusing it. If the chewed portion of the tube is used as is, this can cause trouble such as air leakage or difficulty in removing the tube.

Applicable Fittings: KQ2H, KQ2S, M Series

| Series | Model | Piping port | Port size | Fitting | Applicable tubing O.D. | | | | | | | |
|---------|-------------------------------|-------------|-----------|---------|------------------------|-----|-----|-----|------|------|--|--|
| | | | | | Ø 2 | Ø 4 | Ø 6 | Ø 8 | Ø 10 | Ø 12 | | |
| JSY1000 | JJ5SY1-40/41(R) Manifold base | 1P, 5EA 3EB | 1/8 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | X, PE | M5 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | 4A, 2B | M5 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | | M3 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |

| Series | Model | Piping port | Port size | Fitting | Applicable tubing O.D. | | | | | | | |
|---------|-------------------------------|-------------|-----------|---------|------------------------|-----|-----|-----|------|------|--|--|
| | | | | | Ø 2 | Ø 4 | Ø 6 | Ø 8 | Ø 10 | Ø 12 | | |
| JSY3000 | JJ5SY3-40/41(R) Manifold base | 1P, 5EA 3EB | 1/4 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | X, PE | M5 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | 4A, 2B | 1/8 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | | M5 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |

| Series | Model | Piping port | Port size | Fitting | Applicable tubing O.D. | | | | | | | |
|---------|-------------------------------|-------------|-----------|---------|------------------------|-----|-----|-----|------|------|--|--|
| | | | | | Ø 2 | Ø 4 | Ø 6 | Ø 8 | Ø 10 | Ø 12 | | |
| JSY5000 | JJ5SY5-40/41(R) Manifold base | 1P, 5EA 3EB | 3/8 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | X, PE | M5 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | 4A, 2B | 1/4 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |
| | | | 1/8 | KQ2H | | | | | | | | |
| | | | | KQ2S | | | | | | | | |



JSY1000/3000/5000 Series

Specific Product Precautions 7

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

Other Tube Brands

⚠ Caution

1. When using other than SMC brand tube, confirm that the following specifications are satisfied with respect to the tube outside diameter tolerance.

- | | |
|----------------------|----------------------|
| 1) Nylon tube | within ± 0.1 mm |
| 2) Soft nylon tube | within ± 0.1 mm |
| 3) Polyurethane tube | within ± 0.15 mm |
| | within -0.2 mm |

Do not use tube which do not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.

Fixation of DIN Rail Mounting Type Manifolds

⚠ Caution

1. When the manifold is fixed with bolts on a mounting surface etc., it can be operated just by fixing on both ends of the DIN rail if the bottom surface of the DIN rail is entirely in contact with the mounting surface when mounted horizontally. However, if it is used with other mounting or with side or reverse mounting, fix the DIN rail with bolts at regular intervals. As a guide, insert bolts in 2 locations for 2-5 stations, 3 locations for 6-10 stations, 4 locations for 11-15 stations, and 5 locations for 16-20 stations.
2. When using the manifold with DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may be broken. In particular, if the installation surface vibrates when mounting the manifold on the wall or if a load is directly applied to the manifold, the DIN rail may be broken, causing the manifold to drop. When any vibration, impact, or load is applied to the manifold, be sure to use the direct mounting manifold.

How to Use DIN Terminal

⚠ Caution

Connection

1. Loosen the holding screw and pull the connector out of the solenoid valve terminal block.
2. After removing the holding screw, insert a flat head screwdriver, etc. into the notch on the bottom of the terminal block and pry it open, separating the terminal block and the housing.
3. Loosen the terminal screws (slotted screws) on the terminal block, insert the cores of the lead wires into the terminals according to the connection method, and fasten them securely with the terminal screws.
4. Secure the cord by fastening the gland nut.

⚠ Caution

When making connections, take note that using other than the supported size ($\varnothing 3.5$ to $\varnothing 7$) heavy duty cord will not satisfy IP65 (enclosure) standards. Also, be sure to tighten the gland nut and holding screw within their specified torque ranges.

Changing the entry direction

After separating the terminal block and housing, the cord entry can be changed by attaching the housing in the desired direction (4 directions at 90° intervals).

* Be careful not to damage the light with the cord's lead wires.

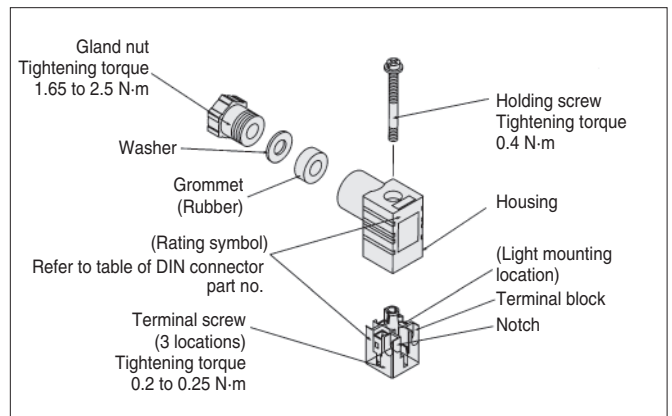
Precautions

Plug in and pull out the connector vertically without tilting to one side.

Compatible cable

Cord O.D.: $\varnothing 3.5$ to $\varnothing 7$

(Reference) 0.5mm^2 , 2-core or 3-core, equivalent to JIS C 3306



Type “Y”

DIN connector type Y is a DIN connector that conforms to the DIN pitch 8-mm standard.

- D type DIN connector with 9.4 mm pitch between terminals is not interchangeable.
- To distinguish from the D type DIN connector, “N” is listed at the end of voltage symbol.
- Dimensions are completely the same as D type DIN connector.
- When replacing only the pilot valve assembly, it is interchangeable with the V115, but be aware that a V111 cannot be replaced with a V115 (and vice versa).



JSY1000/3000/5000 Series

Specific Product Precautions 8

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smc.eu>

M8 Connector

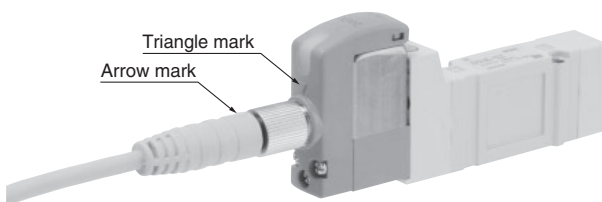
Caution

1. M8 connector types have an IP65 (enclosure) rating, offering protection from dust and water. However please note: these products are not intended for use in water. Select a SMC connector cable (V100-49-1-□) or a FA sensor type connector, with M8 threaded 3 pin specifications conforming to Nippon Electric Control Equipment Association Standard, NECA4202 (IEC60947-5-2). Make sure the connector O.D. is 10.5mm or less when used with the JSY3000 series manifold. If more than 10.5mm, it cannot be mounted due to the size.
2. Do not use a tool to mount the connector, as this may cause damage. Only tighten by hand. (0.4 to 0.6 N·m)
3. The excessive stress on the cable connector will not be able to satisfy the IP65 rating. Please use caution and do not apply a stress of 30 N or greater.

Caution

Failure to meet IP65 performance may result if using alternative connectors than those shown above, or when insufficiently tightened.

Connector cable mounting



- * Connector cable should be mounted in the correct direction. Make sure that the arrow symbol on the connector is facing the triangle symbol on the valve when using SMC connector cable (V100-49-1-□). Be careful not to squeeze it in the wrong direction, as problems such as pin damage may occur.

Installation

Caution

Even though the inlet pressure is within the operating pressure range, when the piping diameter is restricted due to size reduction of supply port (P), the flow will be insufficient. In this case, the valve does not switch completely and the cylinder may malfunction.

Compact 5-Port Solenoid Valve

JSY1000/3000/5000 Series

Non Plug-in

Body Ported

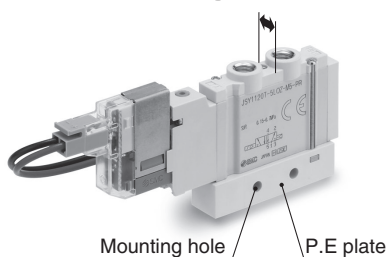
Single Unit (For Mounting P.E Plate)



Can drive $\varnothing 32^{*1}$ bore cylinders

JSY1000

6.4 mm



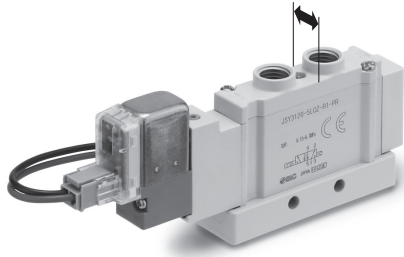
Mounting hole

P.E plate

Can drive $\varnothing 50^{*1}$ bore cylinders

JSY3000

10 mm



Can drive $\varnothing 80^{*1}$ bore cylinders

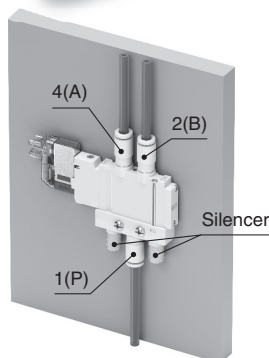
JSY5000

15 mm

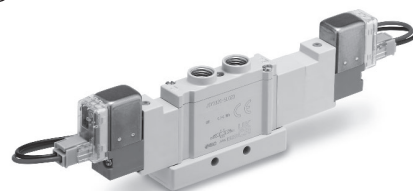


*1 The cylinder speed is 300 mm/s.

Wall mounting is possible.

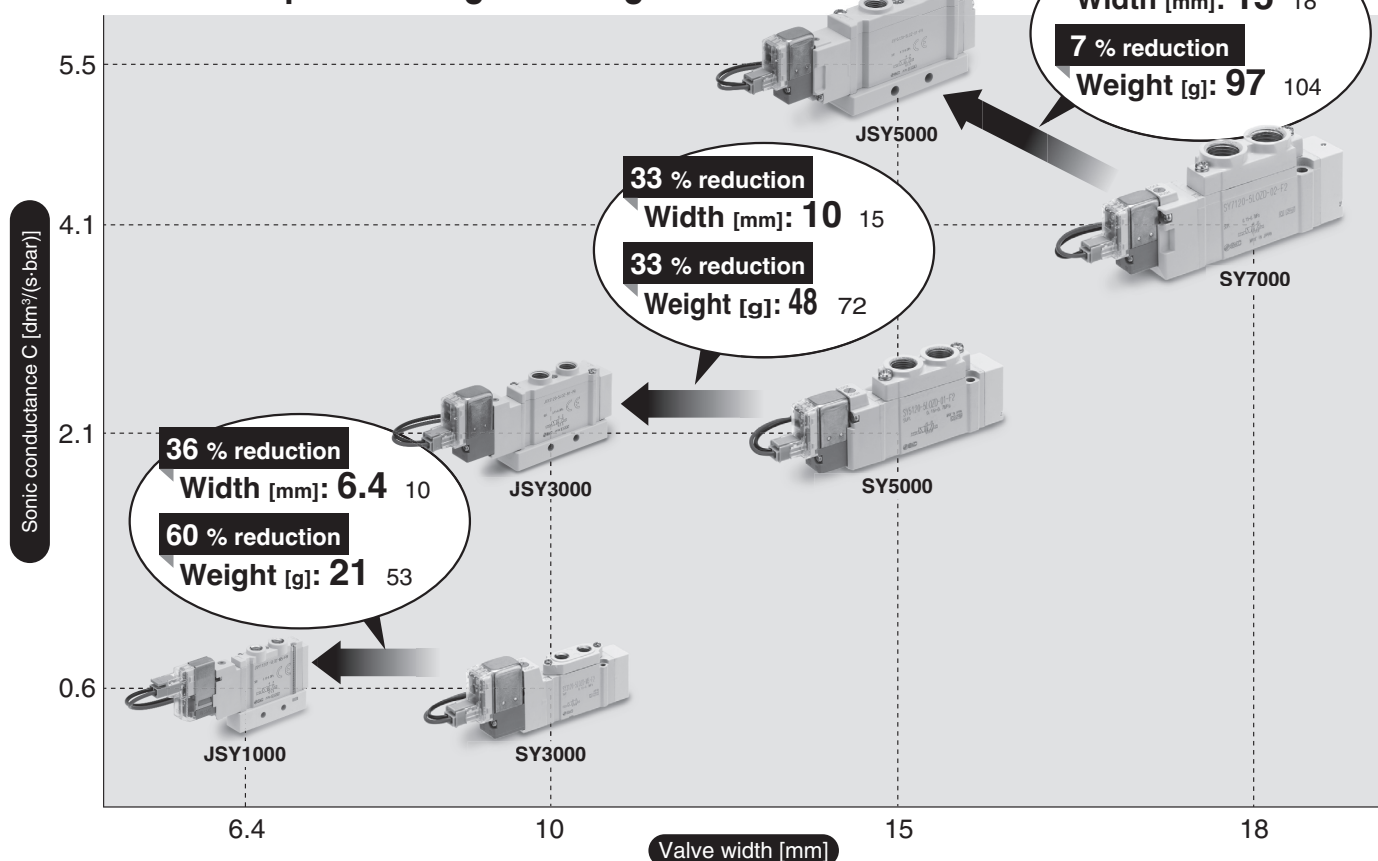


New A 3-position type has been added. [p. 53](#)



The valve size can be reduced.

This allows for space saving and weight reduction.



JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

| Valve type | | | | Rubber seal | |
|--|--------------------|------------------------------------|--------------|--|--|
| Fluid | | | | Air | |
| Internal pilot operating pressure range [MPa] | | 2-position single | | 0.15 to 0.7 | |
| | | 2-position double | | 0.1 to 0.7 | |
| | | 3-position | | 0.2 to 0.7 | |
| Ambient and fluid temperatures [°C] | | | | −10 to 50 (No freezing) | |
| Max. operating frequency [Hz] | JSY1000 JSY3000 | 2-position single, double | | 5 | |
| | | 3-position | | 3 | |
| | JSY5000 | 2-position single, double | | 5 | |
| | | 3-position | | 3 | |
| Manual override | | | | Non-locking push type | |
| | | | | Push-turn locking slotted type | |
| | | | | Push-turn locking lever type | |
| Pilot exhaust type | Internal pilot | | | Individual exhaust | |
| Lubrication | | | | Not required | |
| Mounting orientation*1 | | | | Unrestricted | |
| Impact/Vibration resistance*1 [m/s²] | | | | 150/30 | |
| Enclosure | | | | IP40: L plug connector (L), M plug connector (M)/IP65: DIN terminal (D) (Y), M12 connector (K) | |
| Electrical entry | | | | L plug connector (L), M plug connector (M), DIN terminal (D, Y), M12 connector (K) | |
| Coil rated voltage [V] | | | | 24 VDC | |
| Allowable voltage fluctuation [V] | JSY1000 | | | −7% to +10% of the rated voltage (24 VDC) | |
| | JSY3000/5000 | | | ±10% of rated voltage | |
| Power consumption [W] | DC | Standard | JSY3000/5000 | 0.4 (DIN terminal: 0.35 W [Without light], 0.45 [With light]) | |
| | | With power- saving circuit*4 | JSY1000 | 0.2*2 [Inrush: 0.5, Holding: 0.2] | |
| | | | JSY3000/5000 | 0.1*3 [Inrush: 0.4, Holding: 0.1] | |
| | | | | | |
| Surge voltage suppressor | | | | Diode (Varistor for the DIN terminal type) | |
| Indicator light | | | | LED | |

*1 Impact resistance: No malfunction occurred when tested in the axial direction and at a right angle to the main valve and armature in both an energized and a de-energized state, once in each condition. (Value in the initial state)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both an energized and a de-energized state in the axial direction and at a right angle to the main valve and armature. (Value in the initial state)

*2 JSY1000 series available as power-saving type only. Standard type (without power-saving circuit) cannot be selected.

*3 The type with a power-saving circuit is not available for the DIN terminal and M12 connector types.

*4 For details, refer to page 45.

Response Time/Valve Weight

Body Ported

| Series | Seal type | Model | Type of actuation | Response time [ms] (at 0.5 MPa)*1 | | Valve weight [g] | | |
|---------|-------------|----------------|-------------------|-------------------------------------|-----|--------------------|--------------|-----------------|
| | | | | Standard | | | | |
| | | | | With light/surge voltage suppressor | | L/M plug connector | DIN terminal | K M12 connector |
| | | | | Z type | | | | |
| JSY1000 | Rubber seal | JSY1120T | 2-position single | 15 | 21 | — | — | |
| | | JSY1220T | 2-position double | 5 | 28 | | | |
| | | JSY1(3/4/5)20T | 3-position | 13 | 29 | | | |
| JSY3000 | | JSY3120 | 2-position single | 27 | 48 | | | |
| | | JSY3220 | 2-position double | 10 | 63 | | | |
| | | JSY3(3/4/5)20 | 3-position | 30 | 66 | | | |
| JSY5000 | | JSY5120 | 2-position single | 42 | 97 | 125 | 119 | |
| | | JSY5220 | 2-position double | 13 | 113 | 169 | 157 | |
| | | JSY5(3/4/5)20 | 3-position | 40 | 123 | 179 | 167 | |

*1 Based on the JIS B 8419: 2010 dynamic performance test (Coil temperature 20°C, at rated voltage)

JSY1000/3000/5000 Series

Type 20

Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

Single Unit Specifications



| Model | | | Non plug-in, For mounting P.E plate |
|-----------|-------------------|---------|-------------------------------------|
| Port size | 1(P), 3/5(E) port | JSY1000 | M5 x 0.8 |
| | | JSY3000 | 1/16 |
| | | JSY5000 | 1/8 |
| | 4(A), 2(B) port | JSY1000 | M3 x 0.5, M5 x 0.8 |
| | | JSY3000 | 1/16 |
| | | JSY5000 | 1/8 |

Flow Rate Characteristics

| Model | Port size | | Valve flow rate characteristics | | | | | |
|---------|------------------------|----------------|---------------------------------|------|-------------------|------------------------------|------|-------------------|
| | 1, 5, 3 (P, EA, EB) | 4, 2 (A, B) | 1 → 4/2 (P → A/B) | | | 4/2 → 5/3 (A/B → E) | | |
| | | | C [dm ³ /(s·bar)] | b | Q [l/min (ANR)]*1 | C [dm ³ /(s·bar)] | b | Q [l/min (ANR)]*1 |
| JSY1000 | M5 | M5 | 0.6 | 0.48 | 173 | 0.6 | 0.39 | 162 |
| JSY3000 | 1/16 | 1/16 | 2.0 | 0.41 | 548 | 2.1 | 0.35 | 552 |
| JSY5000 | 1/8 | 1/8 | 5.5 | 0.38 | 1475 | 5.4 | 0.36 | 1428 |

* Calculation of effective area S and sonic conductance C: $S = 5.0 \times C$

*1 These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

Non Plug-in **Body Ported**

Single Unit (For Mounting P.E Plate)



RoHS

Type 20
Top Ported

JSY1000/3000/5000 Series

How to Order Valves

JSY **3** **1** 20 **□** - 5 **□** **Z** **□** - **□** - **PE**

1 2 3 4 5 6 7 8

1 Series

| | |
|---|---------|
| 1 | JSY1000 |
| 3 | JSY3000 |
| 5 | JSY5000 |

2 Type of actuation

| | | |
|---|------------|-----------------|
| 1 | 2-position | Single |
| 2 | | Double |
| 3 | | Closed centre |
| 4 | 3-position | Exhaust centre |
| 5 | | Pressure centre |

3 Coil specifications

| Symbol | Coil specifications | JSY1000 | JSY3000 | JSY5000 |
|--------|--|---------|---------|---------|
| - | Standard | — | ● | ● |
| T | With power-saving circuit (Continuous duty type) | ● | ● | ● |

- * For the JSY1000 series, only the power-saving circuit specification is available.
- * Be careful of the energizing time when the power-saving circuit is selected. For details, refer to page 45.
- * Power saving circuit is not available in the case of D□, Y□, W□, K□ type.

4 Electrical entry

| | L plug connector | | M plug connector | |
|--------------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|
| | L | LO | M | MO |
| JSY1000 | L: With lead wire (300 mm) | LO: Without connector | M: With lead wire (300 mm) | MO: Without connector |
| JSY3000 JSY5000 | L: With lead wire (300 mm) | LO: Without connector | M: With lead wire (300 mm) | MO: Without connector |
| | DIN terminal (JSY5000 only) | | M12 connector (JSY5000 only) | |
| | D, Y | DO, YO | K□ | KO |
| JSY1000 JSY3000 | — | — | — | — |
| JSY5000 | D, Y: With connector | DO, YO: Without connector | K□: With connector cable | KO: Without connector cable |

- * Refer to page 43 for the lead wire length of L and M plug connectors
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 47.
- * For connector cable of M12 connector, refer to page 44.
- * Refer to page 45 for polarity and pin arrangement examples.
- * Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 44.

5 Light/surge voltage suppressor

Electrical entry for L, M, K

| | |
|---|--|
| Z | With light/surge voltage suppressor (Polar type) |
|---|--|

Electrical entry for D, Y

| | |
|---|--|
| S | With surge voltage suppressor (Non-polar type) |
| Z | With light/surge voltage suppressor (Non-polar type) |

- * Only "DOS" and "YOS" are available for the S type.
- * DOZ and YOZ are not available.

6 Manual override

| | | | |
|--------------------|------------------------------|---------------------------------------|-------------------------------------|
| JSY1000 | —: Non-locking push type | D: Push-turn locking slotted type | E: Push-turn locking lever type |
| | | | |
| JSY3000 JSY5000 | —: Non-locking push type | D: Push-turn locking slotted type | E: Push-turn locking lever type |
| | | | |

7 4(A)/2(B) port size thread piping

| Symbol | Thread piping | JSY1000 | JSY3000 | JSY5000 |
|--------|---------------|---------|---------|---------|
| M3 | M3 x 0.5 | ● | — | — |
| M5 | M5 x 0.8 | ● | — | — |
| R1 | Rc1/16 | — | ● | — |
| O1 | Rc1/8 | — | — | ● |

8 With P.E plate

| Symbol | Port size | JSY1000 | JSY3000 | JSY5000 |
|--------|-----------|---------|---------|---------|
| PE | M5 | ● | — | — |
| | Rc1/16 | — | ● | — |
| | Rc1/8 | — | — | ● |

⚠ Caution

Refer to the following to order the fitting/silencer for the 1/16 thread piping of the JSY3000 separately.

| Description | Part number | Port size Piping/Type |
|--|---------------------|-----------------------|
| One-touch fittings (Applicable tubing O.D.: Ø 6) | KQ2S06-R1AS-X1517*1 | Rc1/16 |
| One-touch fittings (Applicable tubing O.D.: Ø 8) | KQSY-S08R1S*1 | |
| Silencer | INA-25-98 | |

- *1 The part number is for 1 piece. (Sales unit: 10 pcs.)
- *1 Tightening torque: 2 to 3 N·m (One-touch fitting)

⚠ Caution

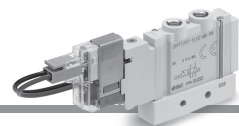
If the JSY3000/5000 series is to be continuously energized, please be sure to select the power-saving circuit (continuous duty type) specification.

Dimensions: JSY1000 Series

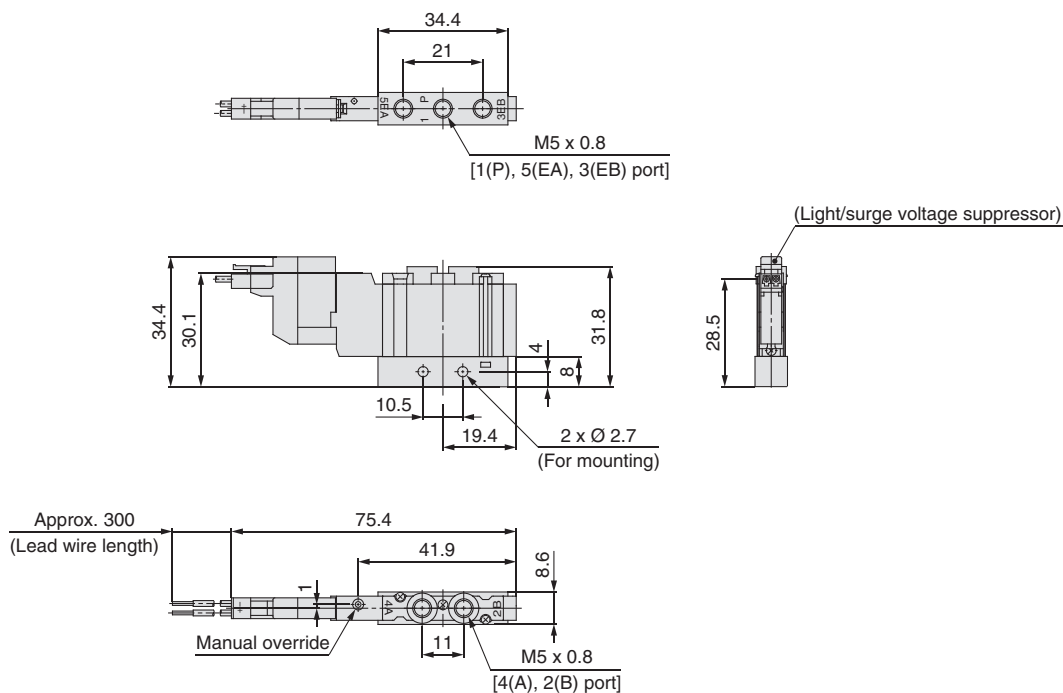
Body Ported
Single Unit

Type 20/Top Ported

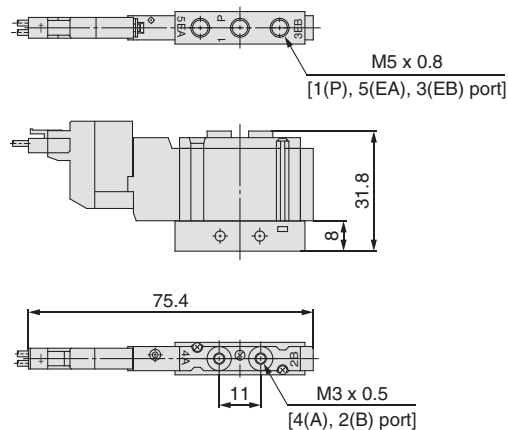
Port Size: M3, M5



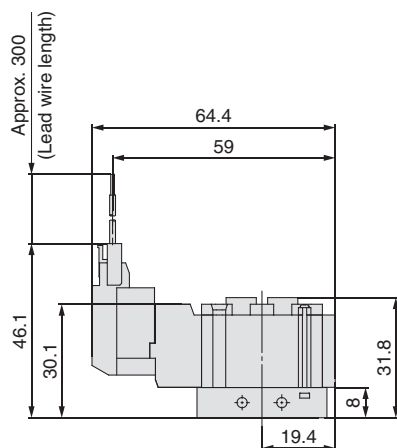
2-position single/L plug connector (L) JSY1120T-5LZ□-M5-PE



JSY1120T-5LZ□-M3-PE



M plug connector (M) JSY1120T-5MZ□-M5-PE

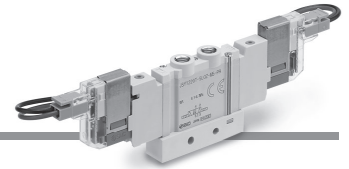


JSY1000/3000/5000 Series

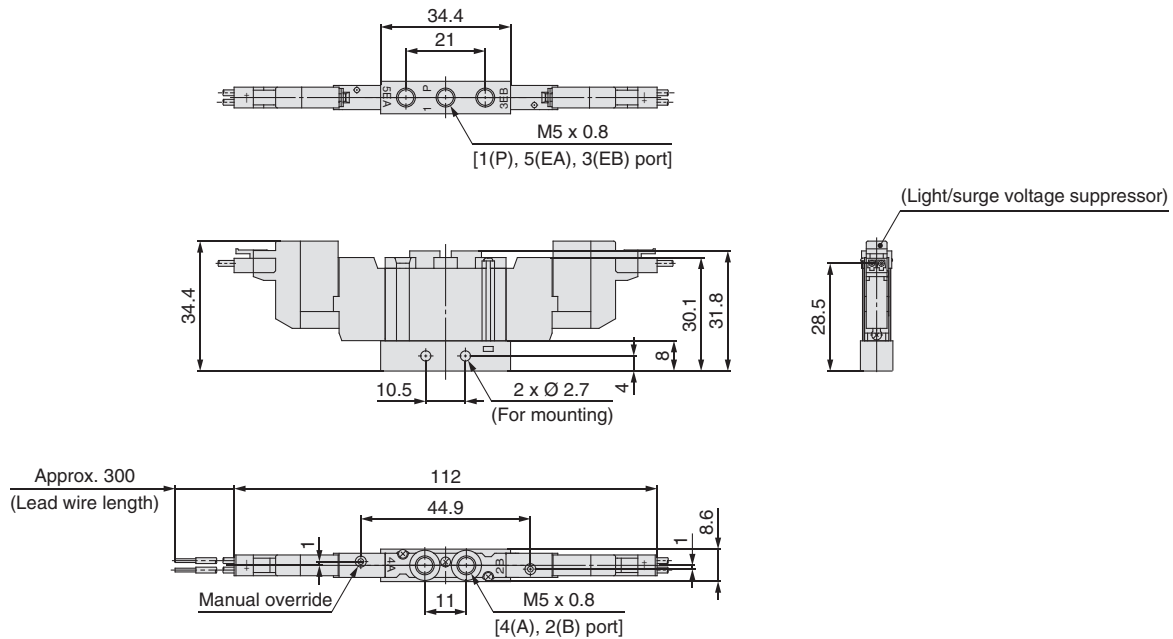
Dimensions: JSY1000 Series

Body Ported
Single Unit

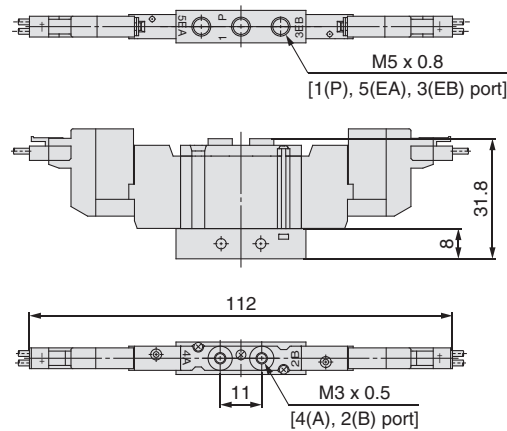
Type 20/Top Ported
Port Size: M3, M5



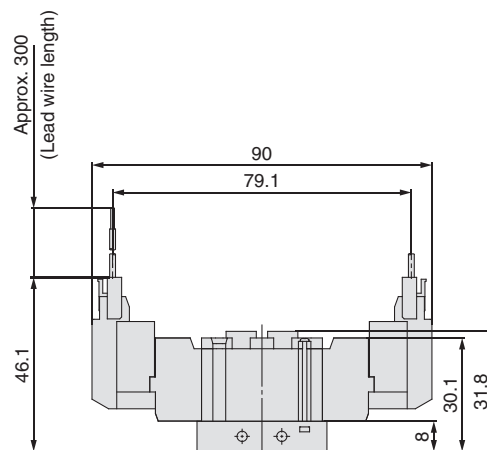
2-position double/L plug connector (L) JSY1220T-5LZ□-M5-PE



JSY1220T-5LZ□-M3-PE



M plug connector (M) JSY1220T-5MZ□-M5-PE

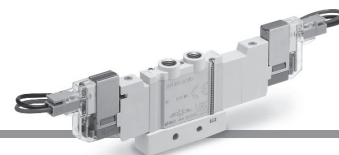


Dimensions: JSY1000 Series

Body Ported
Single Unit

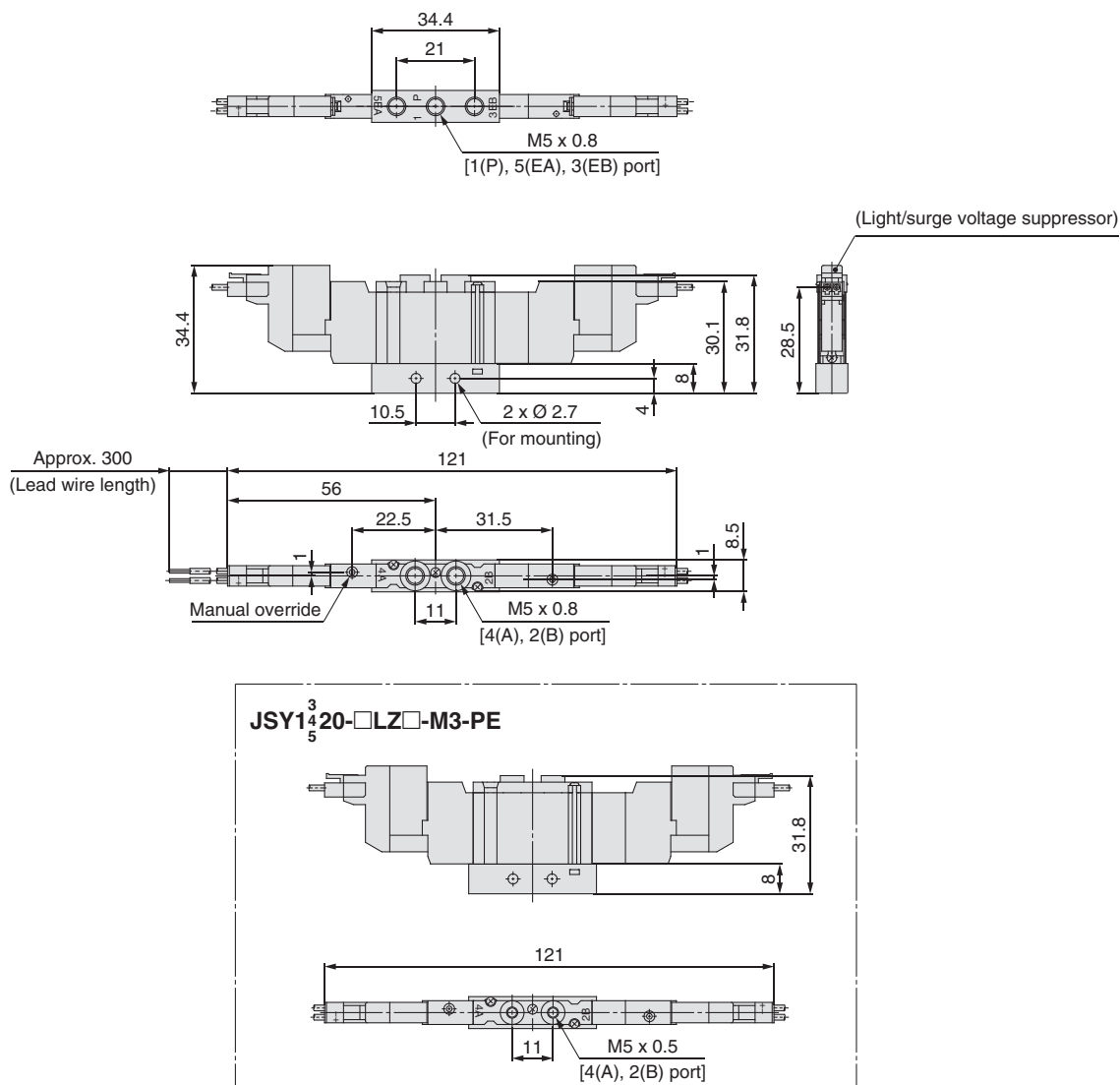
Type 20/Top Ported

Port Size: M3, M5



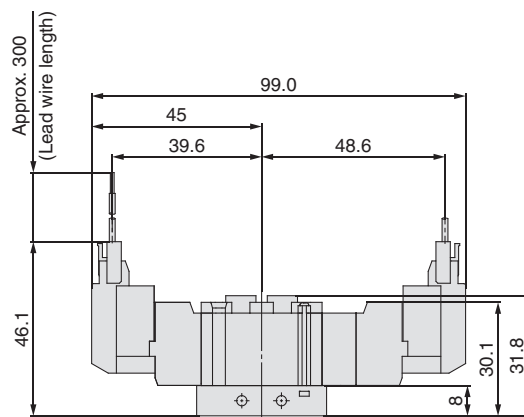
3-position closed centre/exhaust centre/pressure centre

L plug connector (L): JSY1³/₄20-□LZ□-M5-PE



M plug connector (M)

JSY1³/₄20-□MZ□-M5-PE

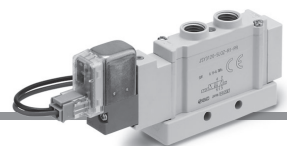


JSY1000/3000/5000 Series

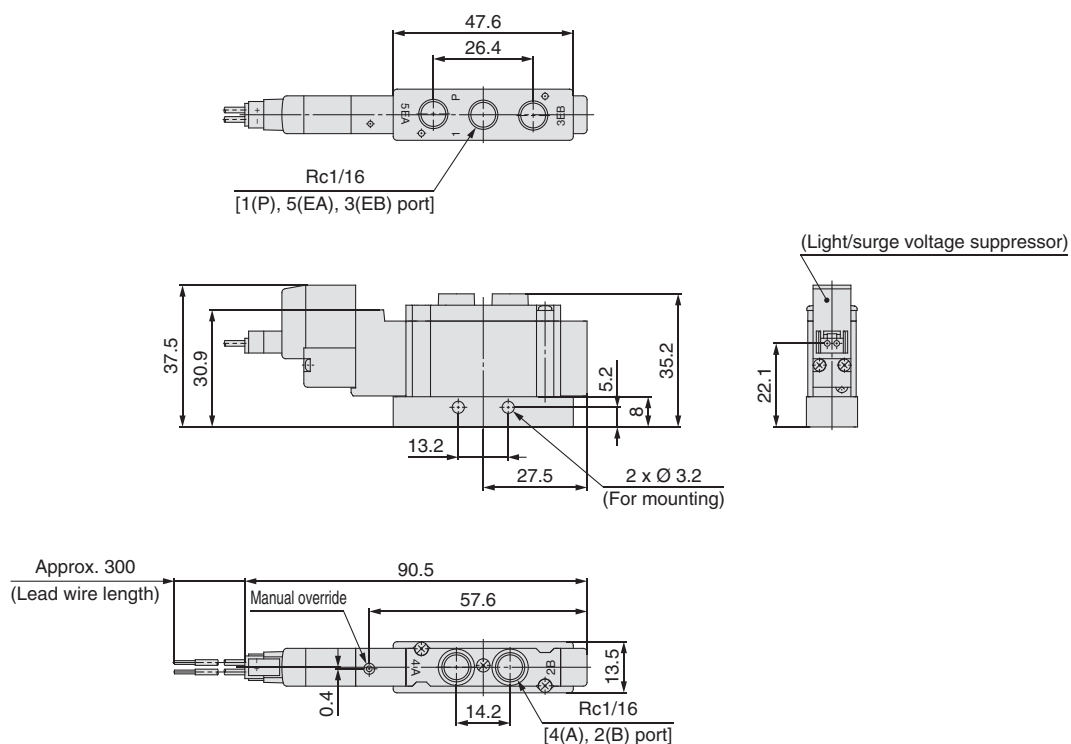
Dimensions: JSY3000 Series

Body Ported
Single Unit

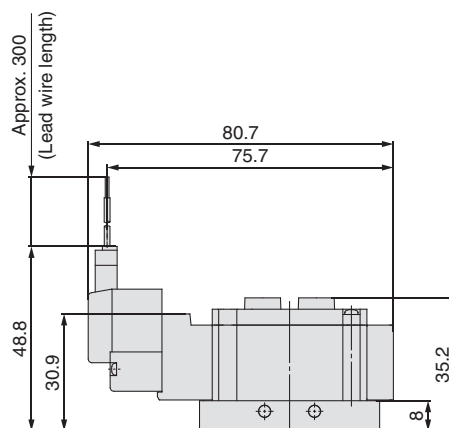
Type 20/Top Ported
Port Size: Rc1/16



2-position single/L plug connector (L)
JSY3120-5LZ□-R1-PE



M plug connector (M)
JSY3120-5MZ□-R1-PE

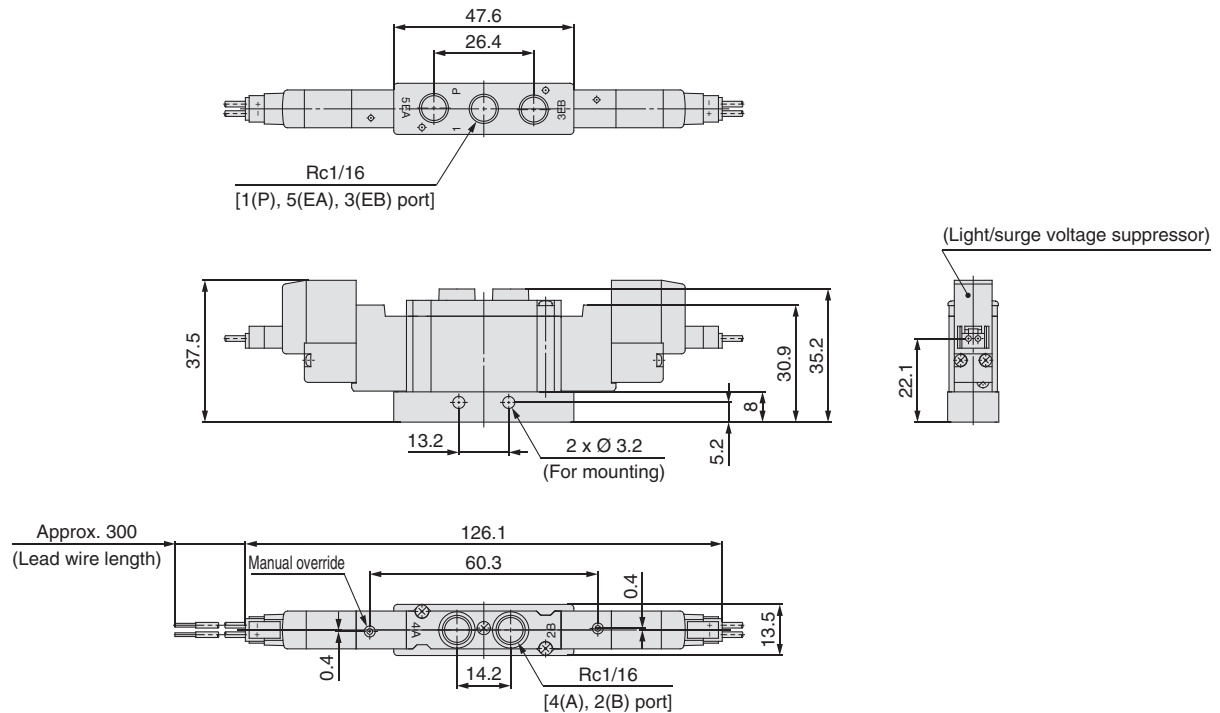
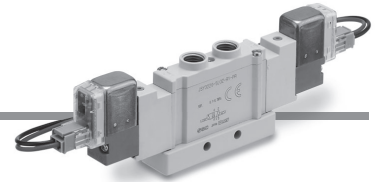


Dimensions: JSY3000 Series

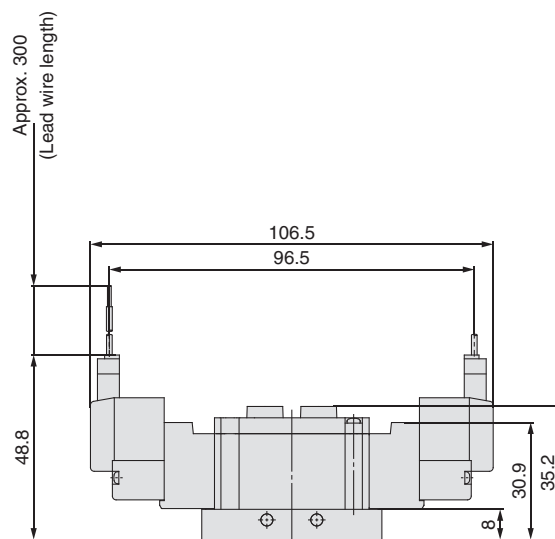
Body Ported
Single Unit

Type 20/Top Ported
Port Size: Rc1/16

2-position double/L plug connector (L) JSY3220-5LZ□-R1-PE



M plug connector (M) JSY3220-5MZ□-R1-PE



JSY1000/3000/5000 Series

Dimensions: JSY3000 Series

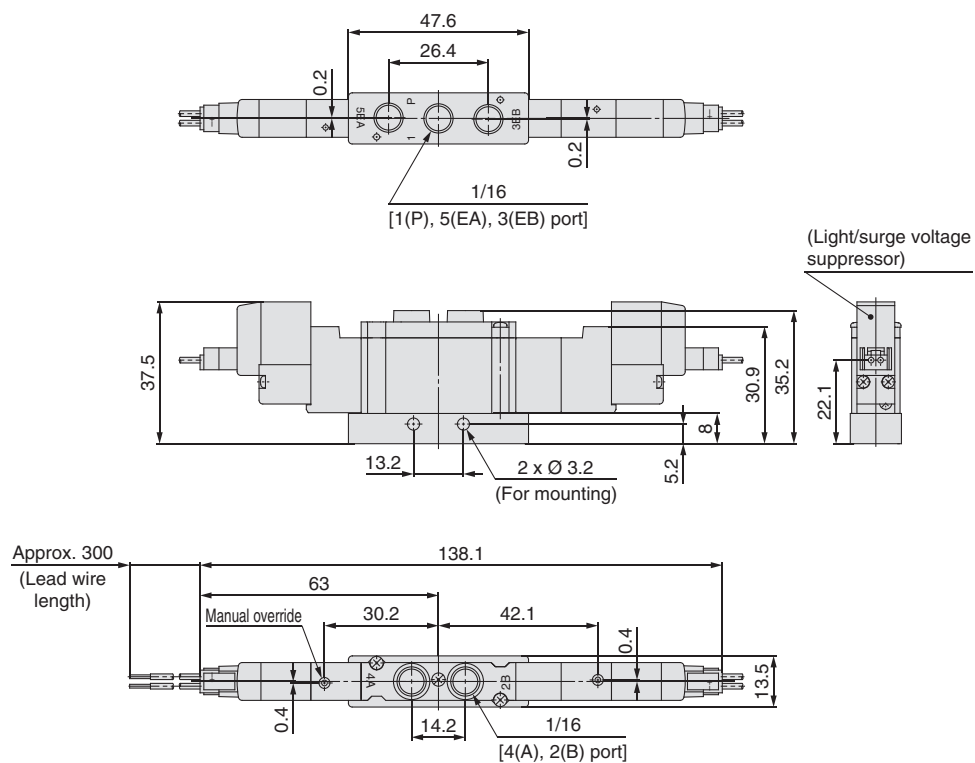
Body Ported
Single Unit

Type 20/Top Ported
Port Size: Rc1/16



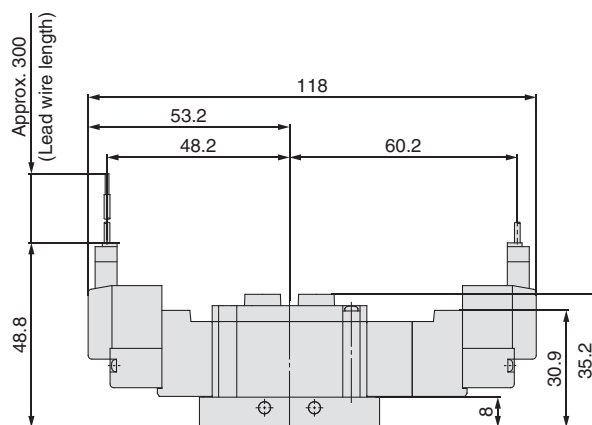
3-position closed centre/exhaust centre/pressure centre

L plug connector (L): JSY3₄³20-□LZ□-R1-PE



M plug connector (M)

JSY3₄³20-□MZ□-R1-PE



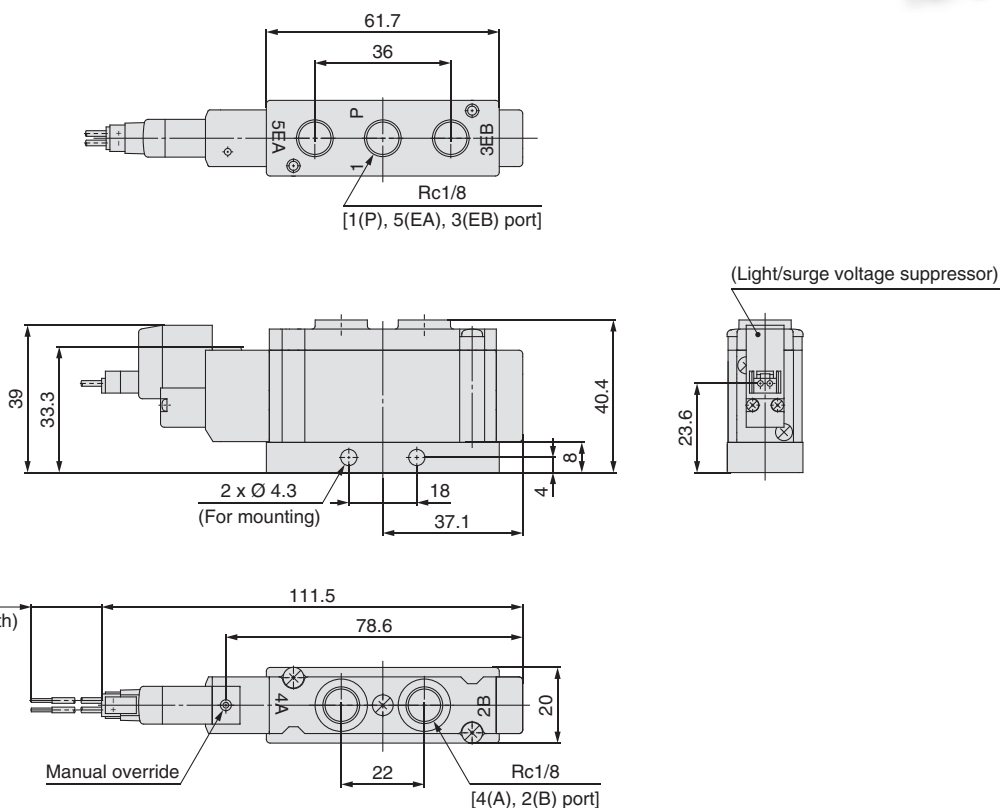
Dimensions: JSY5000 Series

Body Ported
Single Unit

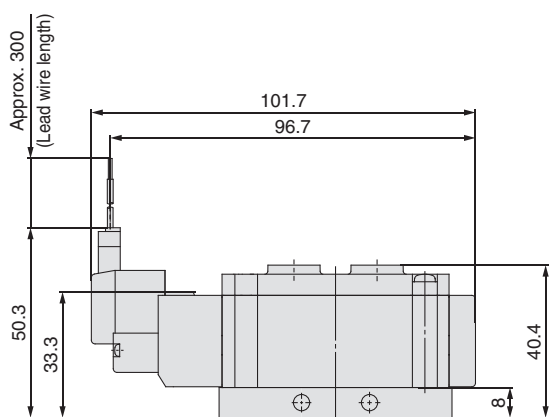
Type 20/Top Ported

Port Size: Rc1/8

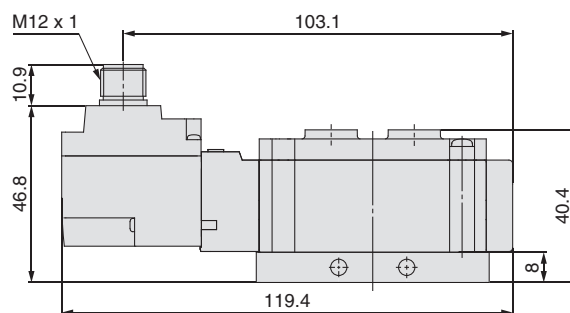
2-position single/L plug connector (L)
JSY5120-5LZ□-01-PE



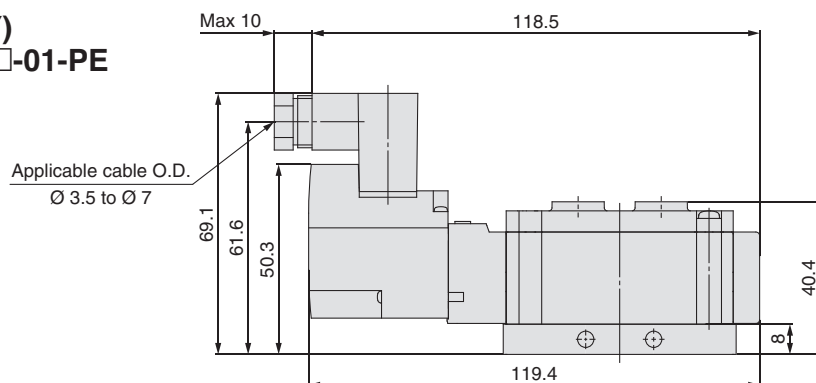
M plug connector (M)
JSY5120-5MZ□-01-PE



M12 connector (K)
JSY5120-5KOZ□-01-PE



DIN terminal (D, Y)
JSY5120-5(D,Y)Z□-01-PE

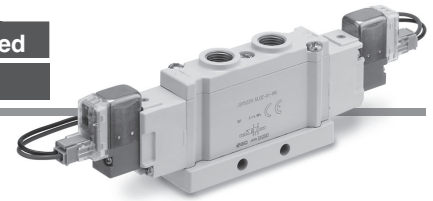


JSY1000/3000/5000 Series

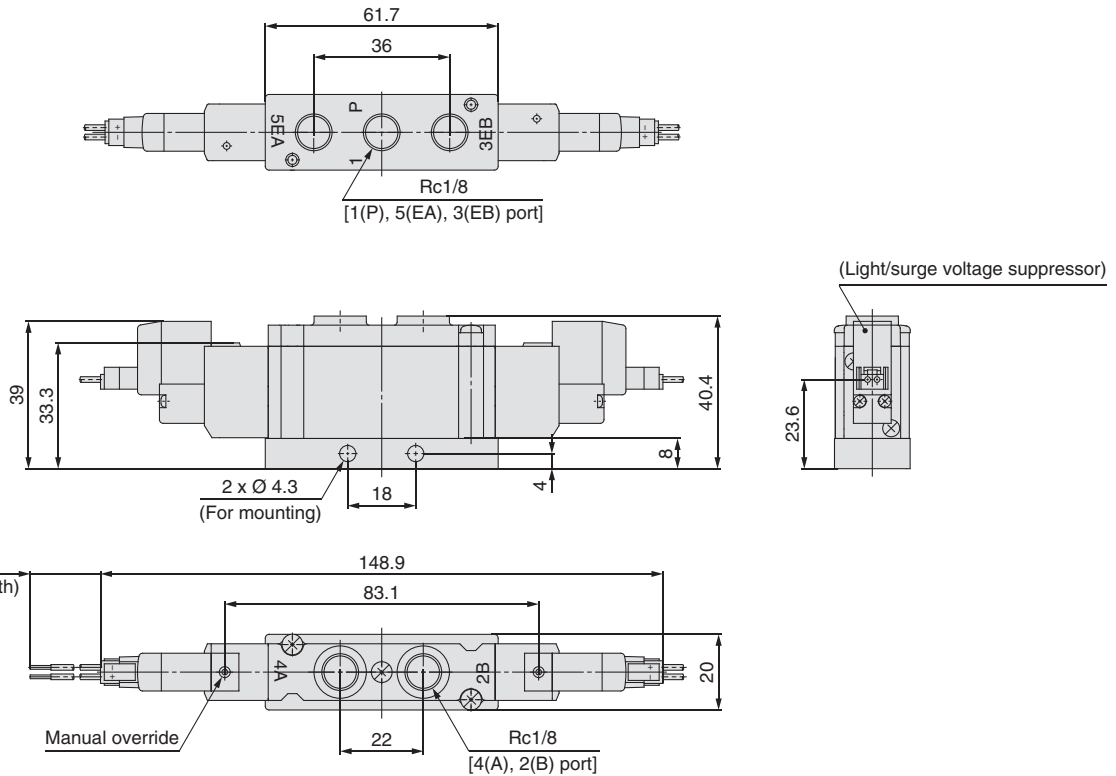
Dimensions: JSY5000 Series

Body Ported
Single Unit

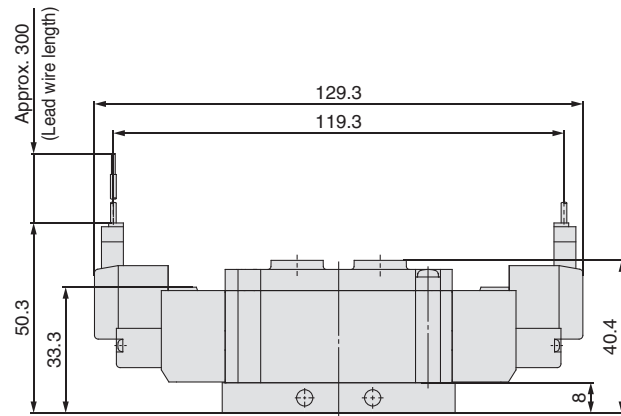
Type 20/Top Ported
Port Size: Rc1/8



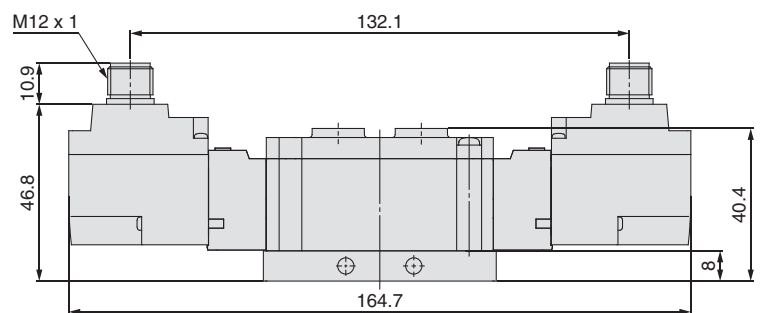
2-position double/L plug connector (L)
JSY5220-5LZ□-01-PE



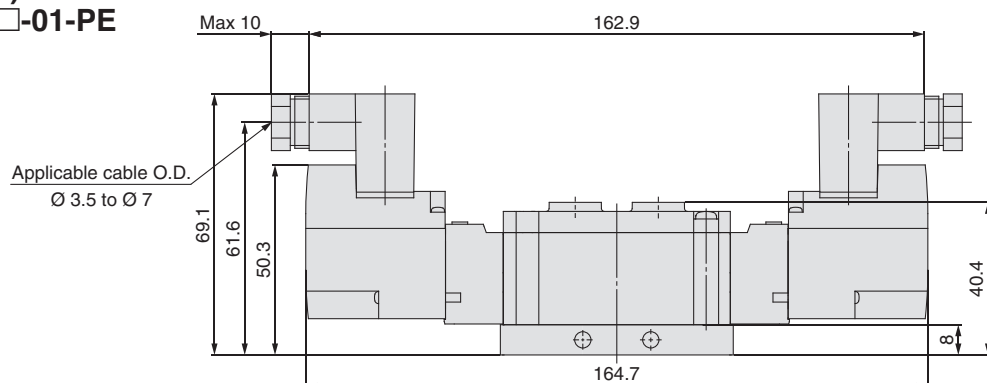
M plug connector (M)
JSY5220-5MZ□-01-PE



M12 connector (K)
JSY5220-5KOZ□-01-PE

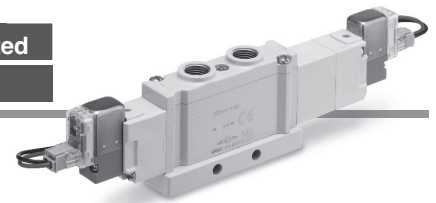


DIN terminal (D, Y)
JSY5220-5(D,Y)Z□-01-PE



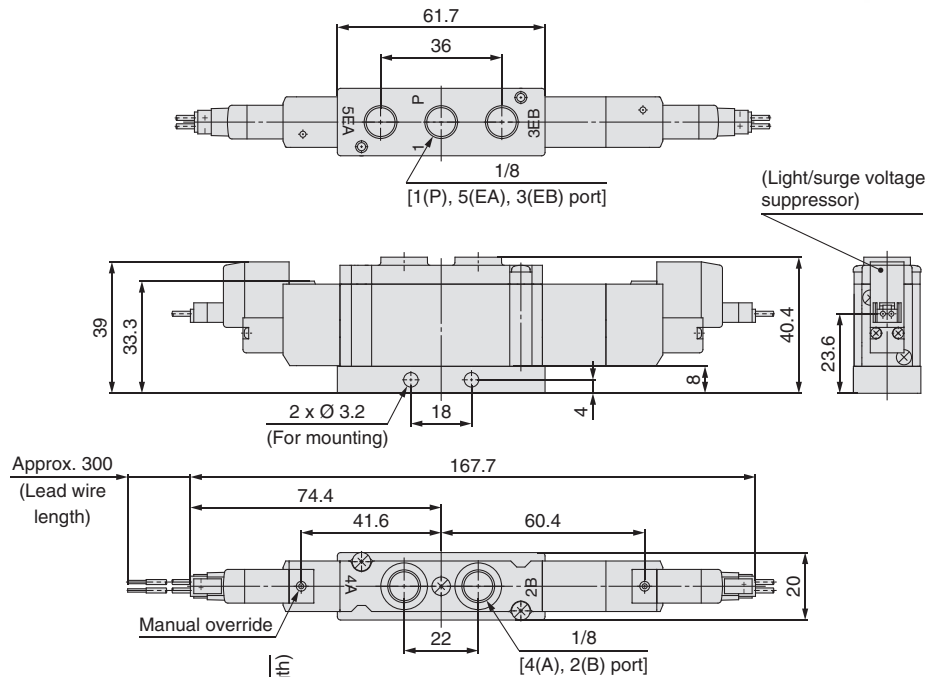
Dimensions: JSY5000 Series

Body Ported Type 20/Top Ported
Single Unit Port Size: Rc1/8

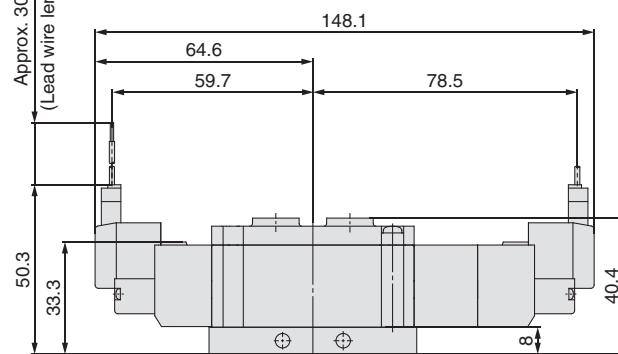


3-position closed centre/exhaust centre/pressure centre

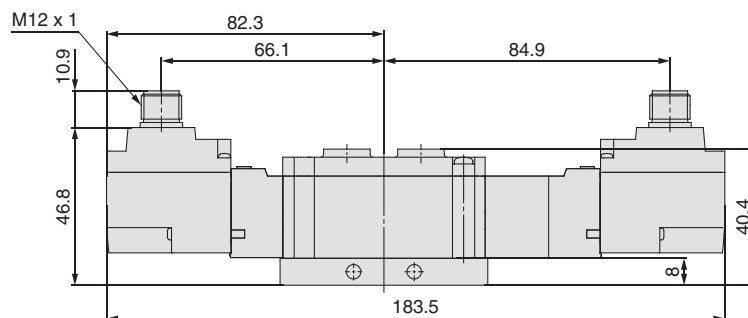
L plug connector (L): JSY5 $\frac{3}{5}$ 20-□LZ□-01-PE



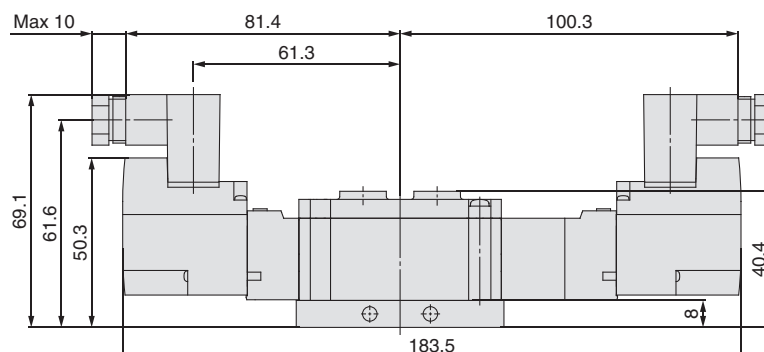
M plug connector (M)
JSY5 $\frac{3}{5}$ 20-□MZ□-01-PE



M12 connector (K)
JSY5 $\frac{3}{5}$ 20-5KO□-01-PE

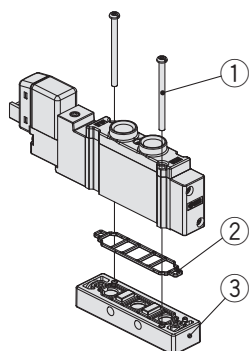


DIN terminal (D, Y)
JSY5 $\frac{3}{5}$ 20-5(D,Y)□-01-PE



JSY1000/3000/5000 Series

Non Plug-in Single Unit Parts Nos.



| No. | Description | Part number | | | Note |
|-----|----------------------|-------------------------------|---------------------------|---------------------------|--|
| | | JSY1000 | JSY3000 | JSY5000 | |
| ① | Valve mounting screw | JSY11V-23-3A (M1.4 x 24.5) | JSY31V-23-7A (M2 x 27) | JSY51V-23-7A (M3 x 32) | Part numbers shown on the left are for 10 valves. (20 pcs.) |
| ② | Base gasket | JSY11M-9P-1A | JSY31M-9P-1A | JSY51M-9P-1A | Part numbers shown on the left are for 10 valves. (10 pcs.) |
| ③ | P.E plate assembly | JSY11V-7A-M5 | JSY31V-7A-R1 | JSY51V-7A-01 | With base gasket Available in units of 1 set For details, refer to the part numbers below. |

■ P.E Plate

JSY **3** 1V-7A-**R1**

①

②

① Series

| | |
|---|---------|
| 1 | JSY1000 |
| 3 | JSY3000 |
| 5 | JSY5000 |

② Thread piping

| Symbol | Thread piping | JSY1000 | JSY3000 | JSY5000 |
|--------|---------------|---------|---------|---------|
| M5 | M5 x 0.8 | ● | — | — |
| R1 | Rc1/16 | — | ● | — |
| 01 | Rc1/8 | — | — | ● |

JSY1000/3000/5000 Series

Made to Order

Please contact SMC for detailed dimensions, specifications, and delivery times.



1 Coil type: With power-saving circuit (Continuous duty type)

Be sure to select the power-saving circuit type when the JSY3000/5000 series is continuously energized for long periods of time.

Be careful of the energizing time when the power-saving circuit is selected.

0.1 W: JSY3000/5000

How to Order Valves

JSY $\frac{3}{5}$ 20 T - 5 Z - - PE

• Coil type




T

With power-saving circuit (Continuous duty type)

* The type with a power-saving circuit is not available for the DIN terminal (D, Y) and M12 connector (K) types.

Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “**Caution**,” “**Warning**” or “**Danger**.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) ¹⁾, and other safety regulations.

-  **Danger:** **Danger** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.
-  **Warning:** **Warning** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
-  **Caution:** **Caution** indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

- 1) ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components.
ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.
IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.
etc.

Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.

1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Our products cannot be used beyond their specifications.

Our products are not developed, designed, and manufactured to be used under the following conditions or environments.

Use under such conditions or environments is not covered.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

Caution

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. ²⁾ Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty.
A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

SMC Corporation (Europe)

| | | | |
|----------------|-------------------|-----------------------|----------------------|
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