## Series SY3000/5000 Base Mounted Monifold Stacking Type/DIN Rail Mounted Individual Wiring

How to Order Manifold


| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| C4 | One-touch fiting for 04 | SY3000 |
| C6 | One-touch fiting for 06 |  |
| M | Mixed |  |
| C4 | One-touch fiting for 04 | SY5000 |
| C6 | One-touch fiting for o6 |  |
| C8 | One-touch fitting for 08 |  |
| M | Mixed |  |

* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.


## Option

When a longer DIN rail is desired than the specified stations, specify the station number to be required. ( 20 stations at maximum)

For external pilot specifications and built-in silencer, refer to catalog on page 1-4-194.

## How to Order Valve Manifold Assembly



Coil specifications

| Nil | Standard |
| :---: | :---: |
| $\mathbf{T}$ | With power saving circuit <br> $(24,12$ VDC only) |

* Power saving circuit is not available in the case of "D", "DO" or "W $\square$ " type.


| AC ( Hz) $50 / 60$ |
| :--- |
| $\mathbf{1}$ |
| $\mathbf{2}$ |
| $\mathbf{3}$ |
| $\mathbf{4}$ |
| 100 VAC |



* DC specifications of type " D " and " DO " is only available with 12 and 24 VDC
* For type "W $\square$ ", DC voltage is only available.
* "D" and "DO" only available for SY5000.

Electrical entry

| 24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC |  |  | $\begin{aligned} & 24,12 \text { VDC/ } \\ & 100,110,200, \\ & 220 \text { VAC } \end{aligned}$ | 24, 12, 6, 5, 3 VDC |
| :---: | :---: | :---: | :---: | :---: |
| Grommet | L plug connector | M plug connector | DIN terminal | M8 connector |
| G: Lead wire length 300 mm <br> H: Lead wire length 600 mm | L: With lead wire (Length 300 mm ) <br> LN: Without lead wire LO: Without connector | M: With lead wire (Length 300 mm ) MN: Without lead wire MO: Without connector | (SY5000) <br> D: With connector <br> DO: Without connector | WO: Without connector cable |

- "LN", "MN" type: with 2 sockets.
- D and DO only available for SY5000
- DIN terminal type " $Y$ " conforming to DIN43650C standard is also available. For details, refer to page 1-4-201.
- For connector cable of M8 connector, refer to page 1-4-209.

Manifold Specifications


| Model |  | SS5Y3-45 | SS5Y5-45 |
| :---: | :---: | :---: | :---: |
| Applicable valve |  | SY3 $\square 40$ | SY5 $\square 40$ |
| Manifold type |  | Stacking type/DIN rail mounted |  |
| P (SUP)/R (EXH) |  | Common SUP, Common EXH |  |
| Valve stations |  | 2 to 20 stations ${ }^{\text {Note 1) }}$ |  |
| A, B port Porting specifications | Location | Base |  |
|  | Direction | Side |  |
| Port size | P, R port | C8 (One-touch fitting for ø8) | C10 (One-touch fitting for $\varnothing 10$ ) |
|  | A, B port | C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6) | C4 (One-touch fitting for $\varnothing 4$ ) <br> C6 (One-touch fitting for ø6) <br> C8 (One-touch fitting for ø8) |
| Manifold base weight W (g), n: Stations |  | $\begin{aligned} & 2 \text { to } 10 \text { stations: } W=22 n+118 \\ & 11 \text { to } 20 \text { stations: } W=22 n+140 \end{aligned}$ | 2 to 10 stations: $W=47 n+156$ <br> 11 to 20 stations: $W=47 n+190$ |
| $0$ <br> Note 1) Fo on | more than th sides. | s, supply pressure to P port on | h sides and exhaust from R port |

Flow Characteristics

| Model | Port size |  | Flow characteristics |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1,5,3 \\ (\mathrm{P}, \mathrm{EA}, \mathrm{~EB}) \end{gathered}$ | $\begin{gathered} 4,2 \\ (\mathrm{~A}, \mathrm{~B}) \\ \hline \end{gathered}$ | $1 \rightarrow 4 / 2(P \rightarrow A / B)$ |  |  | 4/2 $\rightarrow 5 / 3$ (A/B $\rightarrow$ EA/EB) |  |  |
|  |  |  | C (dm3/(s.bar) | b | Cv | $\mathrm{C}\left(\mathrm{dm}^{3} /(\mathrm{s} \cdot \mathrm{bar})\right.$ ) | b | Cv |
| SS5Y3-45 | C8 | C6 | 0.88 | 0.21 | 0.22 | 0.95 | 0.18 | 0.22 |
| SS5Y5-45 | C10 | C8 | 2.2 | 0.24 | 0.53 | 2.5 | 0.18 | 0.58 |

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

Manifold Option

- Individual SUP spacer assembly •Individual EXH spacer assembly


| Series | Assembly part no. | Port size | t |
| :---: | :---: | :---: | :---: |


| SY3000 | SY3000-38-2A | M5 x 0.8 | 11 |
| :--- | :--- | :--- | :--- |
| SY5000 |  |  |  |


| SY5000 | SY5000-38-16*A | $1 / 8$ | 15 |
| :--- | :--- | :--- | :--- |



Note) The SUP port may be either on the lead wire side or on the end plate side.


## - Dimensions/DIN rail



* Fill in $\square$ with an appropriate no. listed on the table of DIN rail dimensions shown below.


| No. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L Dimension | 98 | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 |
| No. | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| L Dimension | 235.5 | 248 | 260.5 | 273 | 285.5 | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 |
| No. | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| L Dimension | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 |
| No. | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
| L Dimension | 510.5 | 523 | 535.5 | 548 | 560.5 | 573 | 585.5 | 598 | 610.5 | 623 | 635.5 |
| No. | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| L Dimension | 648 | 660.5 | 673 | 685.5 | 698 | 710.5 | 723 | 735.5 | 748 | 760.5 | 773 |
| No. | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| L Dimension | 785.5 | 798 | 810.5 | 823 | 835.5 | 848 | 860.5 | 873 | 885.5 | 898 | 910.5 |
| No. | 66 | 67 | 68 | 69 | 70 | 71 |  |  |  |  |  |
| $\underline{L}$ Dimension | 923 | 935.5 | 948 | 960.5 | 973 | 985.5 |  |  |  |  |  |
| Refer to L1 dimension on pages starting with page 1-4-126 for lengths that correspond to the number of manifold stations. |  |  |  |  |  |  |  |  |  |  |  |

$\infty$

* Refer to L1 dimension on pages starting with page 1-4-126 for lengths that correspond to the number of manifold stations.


## $\triangle$ Caution

Mounting screw tightening torques

## M2: $0.16 \mathrm{~N} \cdot \mathrm{~m}$

M3: $0.8 \mathrm{~N} \cdot \mathrm{~m}$
M4: $1.4 \mathrm{~N} . \mathrm{m}$

## SUP block disk

By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold.


## -SUP block disk

By installing an EXH block disk in the exhaust passage of a manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve. (Two block disks are needed to divide both exhausts.)

The labels shown below are used on manifold stations containing SUP/EXH block disk(s) to show their location. (3 pcs. each)

## VZ3000-123-1A

Label for SUP block disk Label for EXH block disk Label for SUP/EXH block disk


,
Note) When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.
-Silencer with One-touch fitting
The silencer plugs directly into the One-touch fittings of the manifold.

Dimensions

| Applicable fittings size ød | Model | A | $\mathbf{L}$ | $\mathbf{D}$ |
| :---: | :---: | :---: | :---: | :---: |
| 4 | KQ2P-04 | 16 | 32 | 6 |
| 6 | KQ2P-06 | 18 | 35 | 8 |
| 8 | KQ2P-08 | 20.5 | 39 | 10 |
| 10 | KQ2P-10 | 22 | 43 | 12 |
| $1 / 8^{\prime \prime}$ | KQ2P-01 | 16 | 31.5 | 5 |
| $5 / 32^{\prime \prime}$ | KQ2P-03 | 16 | 32 | 6 |
| $1 / 4^{\prime \prime}$ | KQ2P-07 | 18 | 35 | 8.5 |
| $5 / 16^{\prime \prime}$ | KQ2P-09 | 20.5 | 39 | 10 |

## Base Mounted <br> Series SY3000/5000 Type

## Manifold Option

- How to Order Interface Regulator (SY3000/5000 only)


## Series SY3000



- Pressure gauge connection port

| $\mathbf{0 5}$ | Pressure gauge (G15-10-01) [for odd number station] |
| :--- | :--- |
| $\mathbf{0 6}$ | Pressure gauge (G15-10-01) [for even number station] |
| $\mathbf{M 1}$ | Plug (M-5P) |

* In the case of Series ARBY3000 with a pressure gauge when mounting on the manifold, use caution that the part numbers are different between the odd no. stations and the even no


## Series SY5000

ARBY5000- $\underset{\substack{\text { Regulating port }}}{\sqrt{\mathrm{P}}-2}$

| P | P port |
| :---: | :--- |
| A1 | A port (P controlled type, A port regulation) |
| B1 | B port (P controlled type, B port regulation) |

d Pressure gauge connection port
00 Pressure gauge (G15-10-01)
M1 Plug (M-5P)

ARBY3000-05- $\square$-2
(For mounting odd number stations)

ARBY3000-06- $\square$-2 (For mounting even number stations)


## Accessory

| Series | Round head combination screw | Gasket |
| :---: | :---: | :---: |
| ARBY3000 | SY3000-23-10 <br> (M2336) | SX3000-57-4 |
| ARBY5000 | M3 $\times 48.5$, <br> Matt nickel plated | SX5000-57-6 |

ARBY3000-M1- $\square-2$


Mounting screw tightening torques

M2: $0.17 \mathrm{~N} . \mathrm{m}$
M3: $0.8 \mathrm{~N} \cdot \mathrm{~m}$

## Base Mounted <br> Series SY3000/5000 type 40

Dimensions: Series SY5000


With interface regulator (with gauge)


## Base Mounted <br> Series SY3000/5000 Type

## DIN Rail Manifold Exploded View

Type 45


Replacement Parts

| No. | Description | Part no. |  | Note |
| :---: | :---: | :---: | :---: | :---: |
|  |  | SY3000 | SY5000 |  |
| (1) | Manifold block assembly | SX3000-50-1A-L] | SX5000-50-1A-C] |  |
| (2) | SUP/EXH block assembly | $\begin{gathered} \text { (Metric size) } \\ \text { SX3000-51-1A } \\ \text { (Inch size) } \\ \text { SX3000-51-15A } \\ \hline \end{gathered}$ | (Metric size) $\mathrm{SX3000-51-1A}$ (Inch size) SX5000-51-15A | P, R port SY3000 (Metric size) With One-touch fitting for $\varnothing 8$ <br>  (Inch size) With One-touch fitting for $\varnothing / 16^{\prime \prime}$ <br> P, R port SY5000 (Metric size) With One-touch fitting for $\varnothing 10$ <br>  (Inch size) With One-touch fitting for $\varnothing 3 / 8^{\prime \prime}$ |
| (3) | End block assembly R | SX3000-52-1A | SX5000-52-1A | For D side |
| (4) | End block assembly R | SX3000-53-1A | SX5000-53-1A | For U side |
| (5) | Round head combination screw | SY3000-23-4 | M3 $\times 26$ (Matt nickel plated) |  |
| (6) | Gasket | SX3000-57-4 | SX5000-57-6 |  |
| (7) | DIN rail | VZ1000 | -11-1- $\square$ | Refer to page 1-4-123. |

## How to Increase Manifold Base Station expansion is possible a any position.

Loosen bolt a fixing the manifold base until it begins to turn idly. (While pressing DIN rail releasing buttons © , at two locations, separate the manifold base from the DIN rail.)
Press manifold block assembly dividing button (b), that are at the location where manifold bases are to be added, until button (b) locks, and then separate the block assemblies.Mount additional manifold block assembly on the DIN rail as shown in the Fig. (1).Press the block assemblies until a click sound is produced, and tighten the bolts (a) to fix them to the DIN rail.
$\triangle$ Caution (Tightening torque: $1.4 \mathrm{~N} \cdot \mathrm{~m}$ )
(While lightly holding the blocks after fixing an end block on one side, tighten the other end block for for better sealing.)

## $\triangle$ Caution

Note 1) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.
Note 2) When disassembly and assembly are performed, air leakage may result if connections between blocks and tightening of the end block's holding screw, is inadequate. Before supplying air, confirm that there are no gaps, etc. between blocks, and that manifold blocks are securely fastened to the DIN rail. Then supply air and confirm that there is no air leakage before operating.
Fig. (1) Block mounting procedure


Hook the DIN rail here and press down in the direction of the arrow until a click sound is heard.

## How to Change Fitting Assembly



Type 45 manifold permits change in the A and B port sizes by changing the manifold block fitting assembly. After removing the valve, remove the clip with a screwdriver, etc. For mounting a new fitting assembly, insert it and then insert a clip until it will not come out of the manifold block.

Fitting Assembly Part No.

| SY3000 | One-touch fitting for $\varnothing 4$ | VVQ1000-50A-C4 |
| :--- | :--- | :--- |
|  | One-touch fitting for $\varnothing 6$ | VVQ1000-50A-C6 |
| SY5000 | One-touch fitting for $\varnothing 4$ | VVQ1000-51A-C4 |
|  | One-touch fitting for $\varnothing 6$ | VVQ1000-51A-C6 |
|  | One-touch fitting for $\varnothing 8$ | VVQ1000-51A-C8 |

nch size

| SY3000 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | VVQ1000-50A-N3 |
| :--- | :--- | :--- |
|  | One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ | VVQ1000-50A-N7 |
| SY5000 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | VVQ1000-51A-N3 |
|  | One-touch fitting for $\varnothing 1 / 4{ }^{\prime \prime}$ | VVQ1000-51A-N7 |
|  | One-touch fitting for $\varnothing 5 / 16^{\prime \prime}$ | VVQ1000-51A-N9 |



Note 1) P and R ports cannot be changed.
Note 2) Use caution that O-rings must be free from scratches and dust Otherwise, air leakage may result.

How to Order Manifold


## One-touch fitting (Metric size)

| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| C4 | One-touch fiting for 04 | SY3000 |
| C6 | One-touch fiting for 66 |  |
| M | Mixed |  |
| C4 | One-touch fiting for 04 | SY5000 |
| C6 | One-touch fiting for $\varnothing 6$ |  |
| C8 | One-touch fiting for 08 |  |
| M | Mixed |  |

One-touch fitting (Inch size)

| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| N3 | One-touch fitting for $\varnothing^{5} / 32^{\prime \prime}$ |  |
| N7 | One-touch fitting for $\varnothing^{1} / 4^{\prime \prime}$ | SY3000 |
| M | Mixed |  |
| N3 | One-touch fitting for $\varnothing^{5} / 32^{\prime \prime}$ |  |
| N7 | One-touch fitting for $\varnothing^{1} / 4^{\prime \prime}$ |  |
| N9 | One-touch fitting for $\varnothing^{5} / 32^{\prime \prime}$ |  |
| M | Mixed |  |

Option
manifold specification sheet.
When a longer DIN rail is desired than the specified stations, specify the station number to be required. (Max. 20 stations)For external pilot specifications and built-in silencer, refer to page 1-4-194.

How to Order Valve Manifold Assembly


The valve arrangement is numbered as the 1st. station from $D$ side regardless of the mounting position of connector box. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the manifold specification sheet to instruct us.
$S S 5 Y_{5}^{3}-45-A_{D}^{U}-\square \square-C \square$ is assembled with solenoid valve and lead wire assembly when shipping. When ordering manifold only (without valves/wires/options), refer to how to order on page 1-4-120 and list the connector box (VZ3000-106-1A) and the rail stopper (TXE1-SMC) below the manifold to allow for the connector box mounting at U side. (Be sure to order DIN rail 3 station longer than number of the manifold stations.) In this case, please note that dimensions, L 1 and L 2 on pages 1-4-136 and 1-4-137 may vary slightly.) For other components, refer to page 1-4-138.

How to Order Valves


## - Manual override

Nil $\quad$ Non-locking push type
D $\quad$ Push-turn locking slotted type
E $\quad$ Push-turn locking lever type
1 set (Blanking plate assembly part no) 2 sets (Single solenoid part no.)

## *SY3140-5LOU 2 sets (Double solenoid part no.)

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

Type of actuation

| $\mathbf{1}$ | 2 position single |
| :--- | :--- |
| $\mathbf{2}$ | 2 position double |
| $\mathbf{3}$ | 3 position closed center |
| $\mathbf{4}$ | 3 position exhaust center |
| $\mathbf{5}$ | 3 position pressure center |

Rated voltage d

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

Manifold Specifications


| Model |  | SS5Y3-45- ${ }^{\text {A }}$ | SS5Y5-45 ${ }_{\text {NA }}$ |
| :---: | :---: | :---: | :---: |
| Applicable valve |  | SY3 $\square 40$ | SY5 $\square 40$ |
| Manifold type |  | Stacking type/DIN rail mounted |  |
| P (SUP)/R (EXH) |  | Common SUP, Common EXH |  |
| Valve stations |  | 2 to 16 stations ${ }^{\text {Note } 1,2)}$ |  |
| A, B port Porting specifications | Location | Base |  |
|  | Direction | Side |  |
| Port size | P, R port | C8 (One-touch fitting for ø8) | C10 (One-touch fitting for $\varnothing 10$ ) |
|  | A, B port | C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6) | C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8) |
| Manifold base weight W (g) n: Stations |  | 2 to 10 stations: $\mathrm{W}=26 \mathrm{n}+207$ <br> 11 to 20 stations: $W=26 n+229$ | 2 to 10 stations: $W=52 n+245$ <br> 11 to 16 stations: $W=52 n+279$ |
| Applicable flat ribbon cable connector |  | Flat ribbon cable connector Socket: 20 pins MIL type with strain relief conforming to MIL-C-83503 |  |
| Wiring specifications |  | +COM specifications (Type 45-A), -COM specifications (Type 45-NA) |  |

Note 1) For more than 11 stations, supply pressure to $P$ port on both sides and exhaust from $R$ port on both sides.
Note 2) There is a limit depending on the number of solenoids. Refer to "How to Order".
Flow Characteristics

| Model | Port size |  | Flow characteristics |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1,5,3 \\ (\mathrm{P}, \mathrm{EA}, \mathrm{~EB}) \end{gathered}$ | $\begin{gathered} 4,2 \\ (\mathrm{~A}, \mathrm{~B}) \end{gathered}$ | $1 \rightarrow 4 / 2(P \rightarrow A / B)$ |  |  | 4/2 $\rightarrow 5 / 3$ (A/B $\rightarrow$ EA/EB) |  |  |
|  |  |  | C (dm3/(s.bar) | b | Cv | C (dm3/(s.bar)) | b | Cv |
| SS5Y3-45-] | C8 | C6 | 0.88 | 0.21 | 0.22 | 0.95 | 0.18 | 0.22 |
| SS5Y5-45-] | C10 | C8 | 2.2 | 0.24 | 0.53 | 2.5 | 0.18 | 0.58 |

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

## Manifold Wiring Diagram (Circuit diagram for the reference layout)



- Connector box for +COM allows transmission until G71-OD16, manufactured by OMRON Corp., to be connected directly for serial transmission. Additionally, it can also be used for the PC wiring system.
- When an external power source must be supplied to the manifold, correct polarity must be observed, otherwise damage to PLC is possible.
- The wiring of solenoid valves, corresponds with the labeled connector box 0 to 15 from D side.
- If valves other than non-polar type are used, this may cause malfunction.
-COM electric circuit diagram


Manifold Option


## SUP block disk

By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold.

## ■ EXH block disk

By installing an EXH block disk in the exhaust passage of a manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve. (Two block disks are needed to divide both exhausts.)


| Series | Part no. |
| :---: | :---: |
| SY3000 | SX3000-77-1A |
| SY5000 | SX5000-77-1A |

## Label for block disk

The labels shown below are used on manifold stations containing SUP/EXH block disk(s) to show their location. (3 pcs. each)

## VZ3000-123-1A

Label for SUP block disk Label for EXH block disk Label for SUP/EXH block disk


(1)
Note) When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.

## Silencer with One-touch fitting

The silencer plugs directly into the One-touch fittings of the manifold.


| Series | Model | Effective area | A | B | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| For SY3000 (ø8) | AN203-KM8 | $14 \mathrm{~mm}^{2}$ | $\varnothing 16$ | 26 | 51 |
| For SY5000 (ø10) | AN200-KM10 | $26 \mathrm{~mm}^{2}$ | $\varnothing 22$ | 53.8 | 80.8 |
|  | AN300-KM10 | $30 \mathrm{~mm}^{2}$ | $\varnothing 25$ | 70 | 97 |

## Plug (white)

These are inserted in unused cylinder ports and SUP, EXH ports. Purchasing order is available in units of 10 pieces.


Dimensions

| Applicable fittings size ød | Model | A | L | D |
| :---: | :---: | :---: | :---: | :---: |
| 4 | KQ2P-04 | 16 | 32 | 6 |
| 6 | KQ2P-06 | 18 | 35 | 8 |
| 8 | KQ2P-08 | 20.5 | 39 | 10 |
| 10 | KQ2P-10 | 22 | 43 | 12 |
| $1 / 8^{\prime \prime}$ | KQ2P-01 | 16 | 31.5 | 5 |
| $5 / 32^{\prime \prime}$ | KQ2P-03 | 16 | 32 | 6 |
| $1 / 4^{\prime \prime}$ | KQ2P-07 | 18 | 35 | 8.5 |
| $5 / 16^{\prime \prime}$ | KQ2P-09 | 20.5 | 39 | 10 |

## Connector manufacturers' example

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


## Warning

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

## Manifold Option

- How to Order Interface regulator (SY3000, 5000 only)

Series SY3000


- Pressure gauge connection port | $\mathbf{0 5}$ | Pressure gauge (G15-10-01) [for odd number station] |
| :--- | :--- |
| $\mathbf{0 6}$ | Pressure gauge (G15-10-01) [for even number station] |
| M1 | Plug (M-5P) |

*In the case of Series ARBY3000 with a pressure gauge when mounting on the manifold, use caution that the part numbers are different between the odd no. stations and the even no. stations to avoid gauges from interfering from each others.

## Series SY5000



ARBY3000-05- $\square$-2
(For odd number stations)

ARBY3000-06- $\square$-2 (For even number stations)


ARBY3000-M1- $\square$-2


ARBY5000-M1-■-2


## Accessory

| Series | Round head combination screw | Gasket |
| :---: | :---: | :---: |
| ARBY3000 | SY3000-23-10 <br> $($ M $2 \times 36)$ | SX3000-57-4 |
| ARBY5000 | M3 $\times 48.5$, <br> Matt nickel plated | SX5000-57-6 |

Dimensions: Series SY5000


SS5Y5-45-AD-Stations C4, N3
C4, N3

ø10, ø3/8"

(Light/Surge voltage suppressor)



## Base Mounted <br> Series SY3000/5000 Iype

DIN Rail Manifold Exploded View


| No. | Description | Part no. |  | Note |
| :---: | :---: | :---: | :---: | :---: |
|  |  | SY3000 | SY5000 |  |
| (1) | Manifold block assembly | SX3000-50-1A- $\square \square$ | SX5000-50-1A- $\square \square$ | -SY3000  <br> (Metric size) (Inch size) <br> C4: With One-touch fitting for $\varnothing 4$ N3: With One-touch fitting for $\varnothing 5 / 32 "$ <br> C6: With One-touch fitting for $\varnothing 6$ N7: With One-touch fitting for $\varnothing 1 / 4^{" \prime}$ <br> For SY5000  <br> (Metric size) (Inch size) <br> C4: With One-touch fitting for $\varnothing 4$ N3: With One-touch fitting for $\varnothing 5 / 32 "$ <br> C6: With One-touch fitting for $\varnothing 6$ N7: With One-touch fitting for $\varnothing 1 / 4 "$ <br> C8: With One-touch fitting for $\varnothing 8$ N9: With One-touch fitting for $\varnothing 5 / 16^{\prime \prime}$ <br> (Gasket 10 is supplied as an accessory.)  |
| (2) | SUP/EXH block assembly | $\begin{gathered} \text { (Metric size) } \\ \text { SX3000-51-1A } \\ \text { (Inch size) } \\ \text { SX3000-51-15A } \end{gathered}$ | $\begin{gathered} \text { (Metric size) } \\ \text { SX3000-51-1A } \\ \text { (Inch size) } \\ \text { SX5000-51-15A } \end{gathered}$ | P, R port SY3000 (Metric size) With One-touch fitting for ø8 (Inch size) With One-touch fitting for $\varnothing 5 / 16{ }^{\prime \prime}$ P, R port SY5000 (Metric size) With One-touch fitting for $\varnothing 10$ (Inch size) With One-touch fitting for $\varnothing 3 / 8^{\prime \prime}$ |
| (3) | End block assembly R | SX3000-52-1A | SX5000-52-1A | For D side |
| (4) | End block assembly L | SX3000-53-1A | SX5000-53-1A | For U side |
| (5) | Connector box | VZ3000 | 106-1A | For 24 VDC only |
| (6) | Rail stopper | TXE1 | SMC | Made by Kasuga Electric Works, Ltd. |
| (7) | Connector assembly | SY3000-43-1A- $\square$ | SY3000-43-2A-■ | + COM Type D, 2 to 8 stations Type U, 9 to 16 stations |
|  |  | SY3000-43-2A-■ | SY3000-43-3A-■ | +COM $\begin{aligned} & \text { Type D, } 9 \text { to } 16 \text { stations } \\ & \text { Type U, } 2 \text { to } 8 \text { stations }\end{aligned}$ |
|  |  | SY3000-43-1NA- $\square$ | SY3000-43-2NA- $\square$ | _COM Type D, 2 to 8 stations Type U, 9 to 16 stations |
|  |  | SY3000-43-2NA- $\square$ | SY3000-43-3NA- $\square$ | _COM Type D, 9 to 16 stations <br> Type U, 2 to 8 stations |
| (8) | Dust cap | VZ3000-63-2 |  |  |
| (9) | Round head combination screw | SY3000-23-4 | M3 x 26, <br> Matt nickel plated |  |
| (10) | Gasket | SX3000-57-4 | SX5000-57-6 |  |
| (11) | DIN rail | VZ1000 | -11-1-■ | Refer to page 1-4-123. |

How to Increase Manifold Base

1 Loosen bolt (a) fixing the manifold base until it begins to turn idly. (While pressing DIN rail releasing buttons (c), at two locations, separate the manifold base from the DIN rail.)

Press manifold block assembly dividing button (b), that are at the location where manifold bases are to be added, until button (b) locks, and then separate the block assemblies.
Mount additional manifold block assembly on the DIN rail as shown in the Fig. (1).

4
Press the block assemblies until a click sound is produced, and tighten the bolts (a) to fix them to the DIN rail.
$\triangle$ Caution (Tightening torque: $1.4 \mathrm{~N} \cdot \mathrm{~m}$ )
(While lightly holding the blocks after fixing an end block on one side, tighten the other end block for better sealing.)

Untighten the rail stopper bolt (d) to demount the connector box from the DIN rail, and when remounting it, tighten the bolt while pressing it against the rail.

## ©Caution

Note 1) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.
Note 2) When disassembly and assembly are performed, air leakage may result if connections between blocks and tightening of the end block's holding screw, is inadequate. Before supplying air, confirm that there are no gaps, etc. between blocks, and that manifold blocks are securely fastened to the DIN rail. Then supply air and confirm tha there is no air leakage before operating.
Note 3) One connector assembly is necessary for one solenoid When a number is necessary for the connector assembly mark tube, suffix the number to the part no. ( 0 to 15 are provided as mark tube numbers.)
Ex) +COM spec.: D type for 2 to 8 stations: No. 10
SY3000-43-1A-10

Fig. (1) Block mounting procedure


Hook the DIN rail here and press down in the direction of the arrow until a click sound is heard.

## How to Change Fitting Assembly

Type 45 manifold permits change in the $A$ and $B$ port sizes by changing the manifold block fitting assembly.
After removing the valve, remove the clip with a screwdriver, etc. For mounting a new fitting assembly, insert it and then insert a clip until it will not come out of the manifold block.

Fitting Assembly Part No.

| SY3000 | One-touch fitting for $\varnothing 4$ | VVQ1000-50A-C4 |
| :---: | :---: | :---: |
|  | One-touch fitting for $\varnothing 6$ | VVQ1000-50A-C6 |
| SY5000 | One-touch fitting for $\varnothing 4$ | VVQ1000-51A-C4 |
|  | One-touch fitting for $\varnothing 6$ | VVQ1000-51A-C6 |
|  | One-touch fitting for $\varnothing 8$ | VVQ1000-51A-C8 |

Inch size

| SY3000 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | VVQ1000-50A-N3 |
| :--- | :--- | :--- |
|  | One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ | VVQ1000-50A-N7 |
| SY5000 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | VVQ1000-51A-N3 |
|  | One-touch fitting for $\varnothing 1 / 4 "$ | VVQ1000-51A-N7 |
|  | One-touch fitting for $\varnothing 5 / 16^{\prime \prime}$ | VVQ1000-51A-N9 |

Note 1) $P$ and $R$ ports cannot be changed.
Note 2) Use caution that O-rings must be free from scratches and dust. Otherwise, air leakage may result.


Series SY3000/5000
Base Mounted Monifold Stacking Type/DIN Rail Mounted Plug-in

## How to Order Manifold

Type 45F (D-sub connector, 25 pins)


* This also includes the number of blanking plate assemblies.
Two stations are necessary for the double, 3 position (Dual body type).

SUP/EXH block assembly mounting position -

| Symbol | Mounting position | Stations |
| :---: | :---: | :---: |
| U | U side | 2 to 10 stations |
| D | D side | 2 to 10 stations |
| B | (Both sides) | 2 to 20 stations |
| M | Special specifications |  |

* For special specifications, indicate separately on the manifold specification sheet.

| One-touch fitting (Metric size) |  |  | A, B port size One-touch fitting (Inch size) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Symbo | Port size | Applicable series | Symbor | Port size | Applicable series |
| C4 | One-touch fitting for 64 | SY3000 | N3 | One-touch fiting for $05 / 32^{\prime \prime}$ | SY3000 |
| C6 | One-touch fitting for 06 |  | N7 | One-touch fiting for $61 / 4$ " |  |
| M | Mixed |  | M | Mixed |  |
| C4 | One-touch fiting for 64 | SY5000 | N3 | One-touch fiting for $05 / 32^{\prime \prime}$ | SY5000 |
| C6 | One-touch fitting for 06 |  | N7 | One-touch fiting for $61 / 4$ " |  |
| C8 | One-touch fiting for 08 |  | N9 | One-touch fiting for $05 / 16^{\prime \prime}$ |  |
| M | Mixed |  | M | Mixed |  |
| * In the case of mixed specifications (M), indicate separately on the manifold specification sheet. <br> Voltage |  |  |  |  |  |
|  |  |  |  | Nil | 24 VDC |
|  |  |  |  | 12V | 12 VDC |
|  |  |  |  |  | Optio |

When a longer DIN rail is desired than the specified stations, specify the station number to be required.
(20 stations at maximum)
$\square$ For external pilot and built-in silencer, refer to page 1-4-197.

## How to Order Valve Manifold Assembly



How to Order Valves (Type 45F, 45P $\square, 45 \mathrm{~T}, 45 \mathrm{~T} 1$ )


Manual override ©


How to Order Manifold
Type 45P $\square$ (Flat ribbon cable)

* For special specifications, indicate separately by the manifold specification sheet.

| Symbol | Mounting position | Stations |
| :---: | :---: | :---: |
| U | U side | 2 to 10 stations |
| D | D side | 2 to 10 stations |
| B | Both sides | 2 to 20 stations |
| M | Special specifications |  |

by

Valve stations (Blanking plate assemblies are included.) ©

| 26 pins (P) connector |  |  |
| :---: | :---: | :---: |
| Symbol Stations | Note |  |
| $\mathbf{0 2}$ | 2 stations | Single wiring spec. <br> (Applicable up to 20 <br> $\vdots$ |
| $\mathbf{~} 20$ |  |  |
| $\mathbf{2 0}$ | 2 ostations | solenoid valves.) |


| $\mathbf{2 0}$ pins (PG) | connector |
| :---: | :---: |
| Symbol Stations | Note |
| $\mathbf{0 2}$ | 2 stations |
| $\vdots$ | $\vdots$ |
| $\mathbf{S}$ | Single wiring spec. <br> (Applicable up to 16 <br> solenoid valves.) |
| 16 | 16 stations |


| Symbol | Stations | Note |
| :---: | :---: | :---: |
| 02 | 2 stations | Single wiring spec. (Applicable up to 8 solenoid valves) |
| : | $\vdots$ |  |
| 08 | 8 staions |  |

- Two stations are necessary for the double, 3 position (Dual body type).

Type 45T (9 pins terminal block)


| $\mathbf{3}$ | SY3000 |
| :--- | :--- |
| $\mathbf{5}$ | SY5000 |

Terminal block mounting position

| Symbol | Mounting position |
| :---: | :---: |
| U | U side |
| D | D side |

Valve stations


| Symbol | Stations | Note |
| :---: | :---: | :---: |
| $\mathbf{0 2}$ | 2 stations | Single wiring spec. |
| $\vdots$ | $\vdots$ | (Applicable up to 8 solenoid valves) |
| $\mathbf{0 8}$ | 8 stations |  |



This also includes the number of blanking plate assemblies.
Two stations are necessary for the double, 3 position (Dual body type).
SUP/EXH block assembly mounting position -

| Symbol | Mounting position | Stations |
| :---: | :---: | :---: |
| U | U side | 2 to 8 stations |
| D | D side | 2 to 8 stations |
| B | Both sides | 2 to 8 stations |
| M | Special specifications |  |

* For special specifications, indicate separately by the manifold specification sheet than the specified stations, specify the station number to be required.


## - A, B port size

One-touch fitting (Metric size)

| Symbol | Port size | Applicalle series |
| :---: | :---: | :---: |
| C4 | One-touch fiting for 04 | SY3000 |
| C6 | One-touch fiting for 06 |  |
| M | Mixed |  |
| C4 | One-touch fiting for 04 | SY5000 |
| C6 | One-touch fiting for 06 |  |
| C8 | One-touch fiting for 08 |  |
| M | Mixed |  |

One-touch fitting (Inch size)


* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

Type 45T1 (18 pins terminal block)


Terminal block mounting position

| Symbol | Mounting position |
| :---: | :---: |
| U | U side |
| D | D side |

Valve stations


This also includes the number of blanking plate assemblies.

* Two stations are necessary for the double, 3 position (Dual body type).
SUP/EXH block assembly mounting position $\bullet$ -

| Symbol | Mounting position | Stations |
| :---: | :---: | :---: |
| U | U side | 2 to 10 stations |
| D | D side | 2 to 10 stations |
| B | Both sides | 2 to 17 stations |
| M | Special specifications |  |

* For special specifications, indicate separately by the manifold specification sheet.
than the specified stations, specify the station number to be required


## A, B port size

One-touch fitting (Metric size)

| Symbol | Port size | Applicale series |
| :---: | :---: | :---: |
| C4 | One-touch fiting for 04 | SY3000 |
| C6 | One-touch fiting for 06 |  |
| M | Mixed |  |
| C4 | One-touch fititing for 04 | SY5000 |
| C6 | One-touch fiting for 06 |  |
| C8 | One-touch fiting for 08 |  |
| M | Mixed |  |

One-touch fitting (Inch size)

| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| N3 | One-touch fiting for $55 / 32$ | SY3000 |
| N7 | One-touch fiting for $1 / 44^{\prime \prime}$ |  |
| M | Mixed |  |
| N3 | One-touch fiting for 5 5/32 | SY5000 |
| N7 | One-touch fiting for $01 / 4$ |  |
| N9 | One-touch fiting for $5 / 16^{\prime \prime}$ |  |
| M | Mixed |  |

* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

Note) The terminal block (45T $\square$ ) manifold has no common polarity. It can be used for both positive and negative common.

## How to Order Manifold

Type 45G (Flat cable, PC wiring system compatible)


* Two stations are necessary for the double, 3 position (Dual body type).
* This also includes the number of blanking plate assemblies.


When a longer DIN rail is desired than the specified stations, specify the station number to be required. ( 20 stations at maximum)

- A, B port size

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

| Symbol | Port size | Applicable series | Symbol | Port size | Applicale series |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C4 | One-touch fiting for 04 | SY3000 | N3 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | SY3000 |
| C6 | One-touch fiting for 06 |  | N7 | One-touch fiting for $\varnothing 1 / 4$ " |  |
| M | Mixed |  | M | Mixed |  |
| C4 | One-touch fiting for 04 | SY5000 | N3 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | SY5000 |
| C6 | One-touch fiting for 06 |  | N7 | One-touch fiting for $\varnothing 1 / 4{ }^{\prime \prime}$ |  |
| C8 | One-touch fiting for 08 |  | N9 | One-touch fiting for $\varnothing 5 / 16^{\prime \prime}$ |  |
| M | Mixed |  | M | Mixed |  |

* In the case of mixed specifications, indicate separately on the manifold specification sheet.

SUP/EXH block assembly mounting position

| Symbol | Mounting position | Stations |
| :---: | :---: | :---: |
| U | U side | 2 to 10 stations |
| D | D side | 2 to 10 stations |
| B | Both sides | 2 to 16 stations |
| M | Special specifications |  |

* For special specifications, indicate separately on the manifold
specification sheet.
-SUP/EXH block assembly specifications

| Symbol | Specifications |
| :---: | :--- |
| Nil | Internal pilot |
| $\mathbf{R}$ | External pilot |
| $\mathbf{S}$ | Internal pilot/Built-in silencer |
| RS | External pilot/Built-in silencer |

Manifold Specifications


D-sub connector

Flat ribbon cable


| Model |  |  | D-sub connector | Flat ribbon cable Type 45P $\square$ |  |  | Terminal block |  | FCat ribbon cable |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Type 45F | Type 45P | Type 45PG | Type 45PH | Type 45T | Type 45T1 | Type 45G |
| Manifold |  |  | Plug-in |  |  |  |  |  |  |
| P (SUP)/R (EXH) |  |  | Common SUP, Common EXH |  |  |  |  |  |  |
| Valve stations Note 1, 2) |  |  | 2 to 20 stations |  | 2 to 16 stations | 2 to 8 stations |  | 2 to 17 stations | 2 to 16 stations |
| A, B port Porting specifications |  | Location | Base |  |  |  |  |  |  |
|  |  | Direction | Side |  |  |  |  |  |  |
| Port size | P, R port | SY3000 | C8 (One-touch fitting for ø8) |  |  |  |  |  |  |
|  |  | SY5000 | C10 (One-touch fitting for $\varnothing 10$ ) |  |  |  |  |  |  |
|  | A, B port | SY3000 | C4 (One-touch fitting for ø4)/C6 (One-touch fitting for ø6) |  |  |  |  |  |  |
|  |  | SY5000 | C4 (One-touch fitting for $\varnothing 4$ )/C6 (One-touch fitting for ø6)/C8 (One-touch fitting for ø8) |  |  |  |  |  |  |
| Applicable connector |  |  | D-sub connector Complies with MLL-C-24308 JIS-X-5101 | $\begin{array}{\|c\|} \hline \text { Flat ribbon cable connector } \\ \text { Socket: } 26 \text { pins MLL type } \\ \text { with strain relief } \\ \text { Conforming to ML-C.-83503 } \end{array}$ | $\left\|\begin{array}{c}\text { Flat ribbon cable connector } \\ \text { Socket: } 20 \text { pins MLL type } \\ \text { with strain relief } \\ \text { Conforming to MLL-C-83503 }\end{array}\right\|$ | $\|$Flat ribbon cable connector <br> Socket: 10 pins ML Mype <br> with strain relief <br> Contorming to ML-C-83503 | $\begin{array}{\|c\|} \hline \text { Terminal block } \\ \text { (M3) } \\ 9 \text { pins } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Terminal block } \\ \text { (M3 }) \\ 18 \text { pins } \\ \hline \end{array}$ | Flat ribbon cable connector <br> Socket:20 pins MLL type <br> with strain releef <br> Conforming to ML-C-83503 |
| Internal wiring |  |  | +COM (Type 45■), -COM (Type 45N■) |  |  |  | In coommon between +COM and -COM. |  | + COM |
| Manifold base weight w (g) n: Stations (D-sub connector) |  | SY3000 | 2 to 10 stations: $W=26 n+172$ <br> 11 to 20 stations: $W=26 n+199$ |  |  |  |  |  |  |
|  |  | SY5000 | 2 to 10 stations: $W=54 n+227$ <br> 11 to 20 stations: $W=52 n+264$ |  |  |  |  |  |  |

,
Note 1) For more than 11 stations, supply pressure to $P$ port on both sides and exhaust from $R$ port on both sides. Note 2) There is a limit depending on the number of solenoids. Refer to "How to Order".

## Flow Characteristics

| Model | Port size |  | Flow characteristics |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1,5,3 \\ (P, E A, E B) \\ \hline \end{gathered}$ | $\begin{gathered} 4,2 \\ (\mathrm{~A}, \mathrm{~B}) \\ \hline \end{gathered}$ | $1 \rightarrow 4 / 2(P \rightarrow A / B)$ |  |  | 4/2 $\rightarrow 5 / 3$ (A/B $\rightarrow$ EA/EB) |  |  |
|  |  |  | $\mathrm{C}\left(\mathrm{dm}^{3} /(\mathrm{s} \cdot \mathrm{bar})\right.$ ) | b | Cv | C (dm ${ }^{3} /(\mathrm{s} \cdot \mathrm{bar})$ ) | b | Cv |
| SS5Y3-45■ | C8 | C6 | 0.88 | 0.21 | 0.22 | 0.95 | 0.18 | 0.22 |
| SS5Y5-45■ | C10 | C8 | 2.2 | 0.24 | 0.53 | 2.5 | 0.18 | 0.58 |

## Manifold Option

-Blanking plate assembly


Note)•When mounting blanking plate, be sure to mount a short cap.
-Two stations are
necessary for the double, 3 position (Dual body type).

## - SUP block disk

By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold.


| Series | Part no. |
| :---: | :---: |
| SY3000 | SX3000-77-1A |
| SY5000 | SX5000-77-1A |

## - EXH block disk

By installing an EXH block disk in the exhaust passage of a manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve. (Two block disks are needed to divide both exhausts.)


## - Label for block disk

The labels shown below are used on manifold stations containing SUP/EXH block disk(s) to show their location. (3 pcs. each)
VZ3000-123-1A (In common with SY3000/5000)
Label for SUP block disk Label for EXH block disk Label for SUP/EXH block disk


Note) When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.

- Silencer with One-touch fitting

The silencer plugs directly into the Onetouch fittings of the manifold.


| Series | Model | Effective area | A | B | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| For SY3000 (ø8) | AN203-KM8 | $14 \mathrm{~mm}^{2}$ | $\varnothing 16$ | 26 | 51 |
| For SY5000 (ø10) | AN200-KM10 | $26 \mathrm{~mm}^{2}$ | $ø 22$ | 53.8 | 80.8 |
|  | AN300-KM10 | $30 \mathrm{~mm}^{2}$ | $ø 25$ | 70 | 97 |

## - Plug (white)

These are inserted in unused cylinder ports and SUP, EXH ports. Purchasing order is available in units of 10 pieces.


## Dimensions

| Applicable fittings size $\varnothing \mathbf{d}$ | Model | $\mathbf{A}$ | $\mathbf{L}$ | $\mathbf{D}$ |
| :---: | :---: | :---: | :---: | :---: |
| 4 | KQ2P-04 | 16 | 32 | 6 |
| 6 | KQ2P-06 | 18 | 35 | 8 |
| 8 | KQ2P-08 | 20.5 | 39 | 10 |
| 10 | KQ2P-10 | 22 | 43 | 12 |
| $1 / 8^{\prime \prime}$ | KQ2P-01 | 16 | 31.5 | 5 |
| $5 / 32^{\prime \prime}$ | KQ2P-03 | 16 | 32 | 6 |
| $1 / 4^{\prime \prime}$ | KQ2P-07 | 18 | 35 | 8.5 |
| $5 / 16^{\prime \prime}$ | KQ2P-09 | 20.5 | 39 | 10 |

## Manifold Option

## - D-sub connector (25 pins)/Cable assembly

L


D-sub Connector Cable

| Cable <br> length (L) | Assembly part no. | Note |
| :---: | :---: | :--- |
| 1.5 m | AXT100-DS25-015 | Cable 25 core |
| 3 m | AXT100-DS25-030 | $\times 24$ AWG |
| 5 m | AXT100-DS25-050 |  |



When a commercially available connector is required, use a 25 pin female connector conforming to MIL-C24308.

Electric Characteristics

| Item | Characteristics |
| :---: | :---: |
| Conductor resistance <br> $\Omega / \mathrm{km}, 20^{\circ} \mathrm{C}$ | 65 or less |
| Voltage limit <br> $\mathrm{V}, 1$ min, AC | 1000 |
| Insulation resistance <br> $\mathrm{M} \Omega \mathrm{km}, 20^{\circ} \mathrm{C}$ | 5 or more |

Note) The min. bending radius of D-sub cable assembly is 20 mm .

D-sub Connector Cable
Assembly Terminal No.

| Terminal no. | Lead wire color | Dot marking |
| :---: | :---: | :---: |
| 1 | Black | None |
| 2 | Brown | None |
| 3 | Red | None |
| 4 | Orange | None |
| 5 | Yellow | None |
| 6 | Pink | None |
| 7 | Blue | None |
| 8 | Purple | White |
| 9 | Gray | Black |
| 10 | White | Black |
| 11 | White | Red |
| 12 | Yellow | Red |
| 13 | Orange | Red |
| 14 | Yellow | Black |
| 15 | Pink | Black |
| 16 | Blue | White |
| 17 | Purple | None |
| 18 | Gray | None |
| 19 | Orange | Black |
| 20 | Red | White |
| 21 | Brown | White |
| 22 | Pink | Red |
| 23 | Gray | Red |
| 24 | Black | White |
| 25 | White | None |

Connector manufacturers' example

- Hirose Electric Co., Ltd.
- Fujitsu Limited
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.
- Flat Ribbon Cable Connector/Cable assembly


## AXT100-FC $\square-\frac{10}{10}$



Flat Ribbon Cable Assembly

| Cable length (L) | 10 pins | 20 pins | 26 pins |
| :---: | :---: | :---: | :---: |
| 1.5 m | AXT100-FC10-1 | AXT100-FC20-1 | AXT100-FC26-1 |
| 3 m | AXT100-FC10-2 | AXT100-FC20-2 | AXT100-FC26-2 |
| 5 m | AXT100-FC10-3 | AXT100-FC20-3 | AXT100-FC26-3 |
| Connector width (W) | 17.2 | 30 | 37.5 |

* For other commercial connectors, use a type with strain relief
that conform to MIL-C-83503.

Connector manufacturers' example

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


## - Dimensions/DIN rail

## VZ1000-11-1- $\square_{\text {Refer to }} L$ dimensions

* Fill in $\square$ with an appropriate no. listed on the table of DIN rail dimensions shown below.


| No. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L Dimension | 98 | 110.5 | 123 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 |
| No. | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| L Dimension | 235.5 | 248 | 260.5 | 273 | 285.5 | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 |
| No. | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| L Dimension | 373 | 385.5 | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 |
| No. | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
| L Dimension | 510.5 | 523 | 535.5 | 548 | 560.5 | 573 | 585.5 | 598 | 610.5 | 623 | 635.5 |
| No. | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| LDimension | 648 | 660.5 | 673 | 685.5 | 698 | 710.5 | 723 | 735.5 | 748 | 760.5 | 773 |
| No. | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| L Dimension | 785.5 | 798 | 810.5 | 823 | 835.5 | 848 | 860.5 | 873 | 885.5 | 898 | 910.5 |
| No. | 66 | 67 | 68 | 69 | 70 | 71 |  |  |  |  |  |
| L Dimension | 923 | 935.5 | 948 | 960.5 | 973 | 985.5 |  |  |  |  |  |

2
*Refer to L1 dimension on pages starting with page 1-4-150 for lengths
that correspond to the number of manifold stations.

## Type 45(N)F: D-sub Connector

A D-sub connector used for electric wiring reduces labor during wiring operation. Connectors conforming to MIL are used for interchangeability.


## <For positive common (45F)> <For negative common (45NF)>



## Type 45(N)P: Flat Ribbon Cable (26 pins)

A flat cable connector used for electric wiring reduces labor during wiring operation. Connectors conforming to MIL are used for interchangeability.


## <For positive common (45P)> <For negative common (45NP)>



Power supply terminal

- The power source terminal is used for connecting to an external power source.
- The maximum number of stations that can be accommodated is 20 manifold stations, with up to 20 solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.

Manifold Internal Wiring

## Type 45(N)PG: Flat Ribbon Cable (20 pins)

A flat cable connector used for electric wiring reduces labor during wiring operation Connectors conforming to MIL are used for interchangeability.


Triangle mark \begin{tabular}{l}

Reference figure | The terminal no. indicated |
| :--- |
| in the connection |
| indicated nomatic of connector, as |
| shown in the reference, |
| means a correlation of 1,2, |
| $3 \ldots .20$ from the triangle |
| mark side on the flat ribbon |
| cable of connector. |

\end{tabular}

## Type 45(N)PH: Flat Ribbon Cable (10 pins)

A flat cable connector used for electric wiring reduces labor during wiring operation Connectors conforming to MIL are used for interchangeability



Reference figure
<For positive common (45PG)> <For negative common (45NPG)>


- The power source terminal is used for connecting to an external power source.
- The maximum number of stations that can be accommodated is 16 manifold stations, with up to 16 solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from $D$ side as the 1 st one.
<For positive common (45PH)>
<For negative common (45NPH)>


Power supply terminal
Power supply terminal

- The power source terminal is used for connecting to an external power source.
- The maximum number of stations that can be accommodated is 8 manifold stations, with up to 8 solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1 st one.


## Manifold Internal Wiring

## Type 45T: Terminal Block

A terminal block style permits direct cable connection without treatment of lead wires.



- The maximum number of stations that can be accommodated is 8 manifold stations, with up to 8 solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1 st one
- There is no polarity in the COM wiring. Supply positive power for +COM spec. and negative power for -COM spec.


## Type 45T1: Terminal Block


(45T1)


- The maximum number of stations that can be accommodated is 17 manifold stations, with up to 17 solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1 st one.
- There is no polarity in the COM wiring. Supply positive power for +COM spec. and negative power for -COM spec.


## Manifold Internal Wiring

Type 45G: Flat Ribbon Cable (PC Wiring System compatible)

It's the manifold for 20 pins flat ribbon cable connector which is compliant for PC wiring system.

\%

Electric circuit diagram
(Below wiring is the case of all double solenoid connections.)


- The maximum number of stations that can be accommodated is 16 manifold stations, with up to 16 solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.
(For details about the PC wiring system, refer to catalog) CAT.ESO2-20 separately.


## How to Connect SS5Y -45 <br> (Plug-in)

Power terminal is equipped with plug-in manifold of Series SY as standard.
Power terminal enables the power supply to valve from either of manifold or controller side.

## 1. Wiring example when using manifold power supply terminals



## 2. Wiring example when not using manifold power supply terminals

 (Power is supplied to the controller side or along the wiring, etc.)

## $\triangle$ Caution

- Single wire, COM position, etc. of PLC are different from each manufacturer. When connecting with PLC, read the specifications carefully and understand the electrica circuit. Poor wiring could cause damage to PLC, power source, etc. as well as manifold and valve.


## SY5000: D-sub Connector/Plug-in



| Staions | 2sations | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Osstions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 135.5 | 148 | 160.5185 .5198 | 210.5235 .5 | 248 | 260.5 |  |  |  |
| L2 | 125 | 137.5 | 150 | 175 | 187.5200 | 225 | 237.5 | 250 |  |
| L3 | 105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233 |
| L4 | 15 | 13.5 | 11.5 | 16 | 14.5 | 12.5 | 17 | 15.5 | 13.5 |



SY5000: D-sub Connector/Plug-in


## SY5000: Flat Ribbon Cable/Plug-in

## SS5Y5-45PU-Stations D- $\begin{gathered}\mathrm{C6}, \mathrm{~N}, \mathrm{~N}^{2} \\ \mathrm{CB}, \mathrm{N9}\end{gathered}$ (26 pins)


(Station n)------- (Station 1)
(Light/Surge voltage suppressor)


| Stations | 2sainoss | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Osstionss |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 135.5 | 148 | 160.5 | 185.5198 | 210.5 | 235.5 | 248 | 260.5 |  |
| L2 | 125 | 137.5150 | 175 | 187.5 | 200 | 225 | 237.5250 |  |  |
| L3 | 105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233 |
| L4 | 15 | 13.5 | 11.5 | 16 | 14.5 | 12.5 | 17 | 15.5 | 13.5 |

 (A, B port)
Applicable tubing O.D.: $\varnothing 4, \varnothing 5 / 32^{\prime \prime}$ $ø 6, \varnothing 1 / 4^{\prime \prime}$
$U$ side ${ }^{68,65 / 16 "}$
Applicable connector: 26 pins MIL type
Applicable connec
With strain releaf
$\frac{\text { With strain releaf }}{\text { (Conforming to MIL }}$
 L1

## SY5000: Flat Ribbon Cable/Plug-in



SY5000: 9 Pins Terminal Block/Plug-in


## SS5Y5-45T1U-Stations D-C6, N3 (18 pins)

$\frac{\text { One-touch fittin }}{\text { (A, B port) }}$
Applicable tubing O.D.


Button for DIN rail release


One-touch fitting
(P, R port)
Applicable tubing 0.D.: $\varnothing 10, \varnothing 3 / 8^{\prime \prime}$

Note) The L1 to L4 dimensions of SS5Y5-45T1U-
 SS5Y5-45T1U-Stations D- $\begin{gathered}\text { C6, } \\ \text { C6 } \\ \text { C8, No } \\ \text { N }\end{gathered}$.


SS5Y5-45T1U-Stations B-C6, $\begin{gathered}\mathrm{C}, ~ N 3 \\ \text { (18 pins) }\end{gathered}$


| Stations | 2stations | 3 | 4 | 5 | 6 | 7 | 8 | 9 stations |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 173 | 185.5 | 210.5 | 223 | 235.5 | 248 | 273 | 285.5 |
| L2 | 162.5 | 175 | 200 | 212.5 | 225 | 237.5 | 262.5 | 275 |
| L3 | 144 | 160 | 176 | 192 | 208 | 224 | 240 | 256 |
| L4 | 14.5 |  | 17 | 15.5 | 13.5 | 12 | 16.5 | 14.5 |
| Stations | 10 | 10 stations | 11 | 12 | 13 | 14 | 15 | 16 |
| L1 | 298 | 323 | 335.5 | 348 | 360.5 | 385.5 | 398 | 410.5 |
| L2 staions | 287.5 | 312.5 | 325 | 337.5 | 350 | 375 | 387.5 | 400 |
| L3 | 272 | 288 | 304 | 320 | 336 | 352 | 368 | 384 |
| L4 | 13 | 17.5 | 15.5 | 14 | 12 | 16.5 | 15 | 13 |

SY5000: 18 Pins Terminal Block/Plug-in


## SY5000: PC Wiring System Compatible (Flat ribbon cable/Plug-in)



## SY5000: PC Wiring System Compatible (Flat ribbon cable/Plug-in)

## SS5Y5-45GD-Stations U-C4, ${ }^{C 6} \mathrm{~N}^{3}$ <br> $\mathrm{C}-\mathrm{C6}, \mathrm{~N} 7$ CB , N9

One-touch fitting One-touch fitting


Station C4, N3
Stations $\begin{gathered}\mathrm{D} \\ \mathbf{C 4 , N 3} \\ \mathrm{CB}, \mathrm{N} 7 \\ \mathrm{CB}, \mathrm{Ng}\end{gathered}$ are identical to those of


| Stations | 2stations | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 stations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 135.5 | 148 | 160.5 | 185.5 | 198 | 210.5 | 235.5 | 248 | 260.5 |
| L2 | 125 | 137.5 | 150 | 175 | 187.5 | 200 | 225 | 237.5 | 250 |
| L3 | 105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233 |
| L4 | 15 | 13.5 | 11.5 | 16 | 14.5 | 12.5 | 17 | 15.5 | 13.5 |



## DIN Rail Manifold Exploded View

## Type 45F (D-sub Connector) Manifold



Replacement Parts

| No. | Description | Part no. |  | Note |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SY3000 | SY5000 |  |  |  |
| (1) | Manifold block assembly | Manifold block assembly part number differs according to an attached lead wire assembly based on the connector spec. Select an appropriate part number from the table of manifold block assembly part number shown below. (Gasket 7 is supplied as an accessory.) |  |  |  |  |
| (2) | SUP/EXH block assembly | $\begin{gathered} \text { (Metric size) } \\ \text { SX3000-51-2A } \\ \text { (Inch size) } \\ \text { SX3000-51-16A } \\ \hline \end{gathered}$ | $\begin{gathered} \text { (Metric size) } \\ \text { SX3000-51-2A } \\ \text { (Inch size) } \\ \text { SX5000-51-16A } \\ \hline \end{gathered}$ | Metric size  <br> SY3000: P, R port with One-touch fitting for $\varnothing 8$ Inch size <br> With One-touch fitting for $\varnothing 5 / 16^{\prime \prime}$  <br> SY5000: P, R port with One-touch fitting for $\varnothing 10$ With One-touch fitting for $\varnothing 3 / 8^{\prime \prime}$ |  |  |
| (3) | End block assembly | SX3000-52-2A | SX5000-52-2A | For D side |  |  |
| (4) | End block assembly | SX3000-53-2A | SX5000-53-2A | For U side |  |  |
| (5)-1 | Connector block assembly (for D-sub connector) | SX3000-64- ${ }_{1}^{1 \mathrm{~A} A}$ | SX5000-64- ${ }_{1}^{1 \mathrm{~A} A}$ | $\begin{aligned} & \text {-1A: +COM } \\ & \text {-1NA: -COM } \end{aligned}$ |  | Note) <br> For 24 VDC |
| (5)-2 | Connector block assembly (for 26 pins flat cable) | SX3000-64- ${ }_{2}{ }^{2 A}{ }^{\text {a }}$-26 | SX5000-64-2NA ${ }^{2 \mathrm{AL}}$-26 | $\begin{aligned} & -2 A:+C O M \\ & -2 N A:-C O M \end{aligned}$ |  |  |
| (5)-3 | Connector block assembly (for 20 pins flat cable) | SX3000-64-2NA ${ }^{2 \mathrm{Na}}-20$ | SX5000-64-2NA ${ }^{2 \mathrm{Na}}$-20 |  |  |  |
| (5)-4 | Connector block assembly (for 10 pins flat cable) | SX3000-64-2NA ${ }^{2 \mathrm{~A}}-10$ | SX5000-64-2NA ${ }^{2 \mathrm{~A}}$-10 |  |  |  |
| (5)-5 | Connector block assembly (for 2 to 8 stations $(T, T 1)$ temminal block) | SX3000-64-3A | SX5000-64-3A | In common between +COM and -COM. |  |  |
| (5)-6 | Connector block assembly (for 9 to 17 stations (T1) terminal block) | SX3000-64-8A | SX5000-64-8A |  |  |  |  |
| (6) | Round head combination screw | SY3000-23-4 | M3 x 26, Matt nickel plated |  |  |  |
| (7) | Gasket | SX3000-57-4 | SX5000-57-6 |  |  |  |
| (8) | DIN rail | VZ1000-11-1-I $\square$ |  | Refer to page 1-4-123. |  |  |

Note 1) The numbers 5-1 to 4 are for 24 VDC. For 12 VDC, suffix "-12V" to the end of parts number. (Example) SX3000-64-1A-12 V Note 2) Two manifold block assemblies are necessary for the double, 3 position (Dual body type).

| Style of manifold | Manifold block assembly part no. | Note |  |
| :---: | :---: | :---: | :---: |
| For 45(N)F (D-sub connector) | $S X_{5}^{3} 000-50-3 A-\square \square$ | ㅁㅁ:  <br> AB port SY3000 (metric size) <br>  (inch size) | C4: With One-touch fitting for $\varnothing 4$ C6: With One-touch fitting for $\varnothing 6$ N3: With One-touch fittign for $\varnothing 5 / 32^{\prime \prime}$ N7: With One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ |
| For 45(N) ${ }_{P \text { PG }}^{P}$ (Flat ribbon cable) | $S X_{5}^{3} 000-50-5 A-\square \square$ | (inch size) <br> A, B port SY5000 (metric size) <br> (inch size) |  |
| For 45G <br> PC Wiring System compatible |  |  | C4: With One-touch fitting for $\varnothing 4$ C6: With One-touch fitting for ø6 C8: With One-touch fitting for $\varnothing 8$ |
| For $45_{T 1}^{T}$ <br> (Terminal block) | $S X_{5}^{3} 000-50-7 A-\square \square$ | (inch size) | N3: WIth One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ N7: With One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ N9: With One-touch fitting for $\varnothing 5 / 16^{\prime \prime}$ |

## How to Increase Manifold Base

1 Loosen bolt @ fixing the manifold base until it begins to turn idly. (While pressing DIN rail releasing buttons (c), at two locations, separate the manifold base from the DIN rail.) Additional bases are to be added to the $U$ side. Press splitting button (b) of the manifold block assembly on the U side until button (b) locks, and then separate the block assemblies.

Separate the connector block assembly in the same manner as 2, and remove the connector mounting screw shown in Fig. (1).

Loosen the valve mounting screw on the $U$ side, remove the valve, and take out the receptacle housing. (Refer to Fig. (2).)

5 Insert the common wire (red) of the manifold block assembly to be added into the pin insertion section ( N mark) of the receptacle housing that was taken out in 4, mount it on the manifold block, and mount the removed valve.
6 As shown in Fig. (3), mount the additional manifold block assembly on the DIN rail on the $U$ side. Refer to the circuit diagram, and insert the lead wire (black) as shown in Fig. (4).

7 Press the blocks against each other until a click sound is produced, place the lead wire in the manifold block, and close the lid without pinching the lead wire.

While lightly holding the blocks together so that there are no gaps between them, secure them to the DIN rail by tightening the screws @. $\triangle$ (Tightening torque: $1.4 \mathrm{~N} \cdot \mathrm{~m}$ )

## $\triangle$ Caution

1. Depending on the connector, there is a limit to the number of solenoids that can be used. Manifold bases that can be added cannot exceed the number of usable solenoids.
2. The manifold block assembly mounting position for additional manifold bases is always on the $U$ side, because wires are connected to respective connectors sequentially from the D side.
3. When bolt (a) for the end block is not sufficiently tightened during reassembly, air leakage may result. Before supplying air, check that there is no gap between blocks and that the manifold block is firmly fixed to the DIN rail in order to ensure air supply without leakage.


D-sub connector (45F)


Flat ribbon cable (45P $\square$ )


Note) After inserting pins, lightly pull lead wiresto check that pins are locked.

## 2

 Note) Insert pins atter removing the connectorfrom the main unit. Atter inserting pins, lightly pull lead wires to check that the pins are locked.
## Fitting Assembly

Type 45 manifold permits change in the $A$ and $B$ port sizes by changing the manifold block fitting assembly.
After removing the valve, remove the clip with a screwdriver, etc. For mounting a new fitting assembly, insert it and then insert a clip until it will not come out of the manifold block.

Inch size
Metric size

| SY3000 | One-touch fitting for 64 | VVQ1000-50A-C4 |
| :--- | :--- | :--- |
|  | One-touch fititing for 06 | VVQ1000-50A-C6 |
| SY5000 | One-touch fitting for $\boxed{ } 4$ | VVQ1000-51A-C4 |
|  | One-touch fitting for 06 | VVQ1000-51A-C6 |
|  | One-touch fiting for 08 | VVQ1000-51A-C8 |

Inch size

| SY3000 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | VVQ1000-50A-N3 |
| :--- | :--- | :--- |
|  | One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ | VVQ1000-50A-N7 |
| SY5000 | One-touch fiting for $\varnothing 5 / 33^{\prime \prime}$ | VVQ1000-51A-N3 |
|  | One-touch fiting for $\varnothing 1 / 4^{\prime \prime}$ | VVQ1000-51A-N7 |
|  | One-touch fiting for $\varnothing 5 / 16^{\prime \prime}$ | VVQ1000-51A-N9 |

Note 1) P and R ports cannot be changed.
Note 2) Use caution that O-rings must be free from scratches and dust. Otherwise, air leakage may result.


# Series SY3000/5000 Base Mounted Monifold Stacking Type/DIN Rail Mounted Serial Transmission (Integrated) 

How to Order Manifold


One-touch fitting (Inch size)


* In the case of mixed specifications, indicate separately on the manifold specification sheet.

How to Order Valve Manifold Assembly


* The valve arrangement is numbered as the 1st. station from D side.
When ordering double solenoid valves/3 position (Dual body
type), please keep in mind that they require two manifold stations. * Serial unit is available only for the D-side mounting type.


## How to Order Valves



* For special specifications, indicate separately on the manifold specification sheet.

SI Unit Part No.

| Symbol | Specifications | For SS5Y口-45S | Symbol |  |
| :---: | :---: | :---: | :---: | :---: |
| A | With general type SI unit (Series EX300) | EX322-S001 | J1 | S |
| B | Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System | EX122-SMB1 | J2 | S |
| C | OMRON Corp.: SYSBUS Wire System | EX122-STA1 | K |  |
| D | SHARP Corp.: Satellite I/O Link System | EX122-SSH1 | Q |  |
| E | Matsushita Electric Works: MEWNET-F System | EX122-SPA1 | R1 | O |
| F1 | NKE Corp.: Uni-wire System (16 output points) | EX122-SUW1 | R2 | O |
| G | Rockwell Automation: Allen Bradley Remote I/O (RIO) System | EX122-SAB1 | U |  |
| H | NKE Corp.: Uni-wire H System | EX122-SUH1 | V |  |


| Specifications: | For SS5Y $\square-45 S$ |
| :---: | :---: |
| SUNX Corp.: S-LINK System (16 output points) | EX122-SSL1 |
| SUNX Corp.: S-LINK System (8 output points) | EX122-SSL2 |
| Fuji Electric Co.: T-LINK Mini System | EX122-SFU1 |
| OMRON Cot: CompoBus/D (OMRON Corp.) | EX122-SDN1 |
| OMRON Corp.: CompoBus/S (16 output points) | EX122-SCS1 |
| JEMANET (JPCN-1) | EX122-SCS2 |
| Mitsubishi Electric Corp.: CC-LINK System | EX122-SJN1 |

■ The serial transmission system reduces wiring work, while minimizing wiring and saving space.
$\square 16$ stations max. (Specify a model with more than 8 stations by using a manifold specification sheet.)


D side

- The total number of stations is tabulated starting from station one on the $D$ side.
- Maximum station: Up to 16 solenoids (16 single solenoids).

| Item | Specifications |  |
| :---: | :---: | :---: |
| External power supply | $24 \mathrm{VDC}+10 \% /-5 \%$ |  |
| Current consumption <br> (Internal unit) | 0.1 A | SA, SB, SD, SE, SF1, SG, SJ1, <br> SJ2, SK, SR1, SR2, SH, SU, SV |
|  | 0.3 A | $\mathrm{SC}, \mathrm{SQ}$ |






a) 3-wire type


Master unit:
Master unit:
A1SJB1BT
A1SJ61BT11
AJ61QBT11
Master unit: A1SJ61QBT11

- No. of output points: 16 points

Series SY5000: Serial Transmission Unit/Plug-in


| Stations | 2 stations | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 stations |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 173 | 185.5 | 198 | 210.5 | 235.5 | 248 | 260.5 | 285.5 | 298 |
| L2 | 162.5 | 175 | 187.5 | 200 | 225 | 237.5 | 250 | 275 | 287.5 |
| L3 | 100 | 116 | 132 | 148 | 164 | 180 | 196 | 212 | 228 |
| L4 | 17.45 | 15.7 | 13.95 | 12.2 | 16.7 | 14.95 | 13.2 | 17.7 | 15.95 |

Note) Width of SI unit applicable to "E": Matsushita Electric Works, Ltd. and "G": Rockwell Automation, Inc. widens
to 24.3 mm . For further information, please consult with SMC.


How to Order Manifold


SI Unit Part No.

| Symbol | Specifications | For SS5Y $\square-45 S 1$ | Symbol | Specifications: | For SS5Y $\square-45 S 11$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A | With general type SI unit (Series EX300) | EX321-S001 | J1 | SUNX Corp.: S-LINK System (16 output points) | EX121-SSL1 |
| B | Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System | EX121-SMB1 | J2 | SUNX Corp.: S-LINK System (8 output points) | EX121-SSL2 |
| C | OMRON Corp.: SYSBUS Wire System | EX121-STA1 | K | Fuji Electric Co.: T-LINK Mini System | EX121-SFU1 |
| D | SHARP Corp.: Satellite I/O Link System | EX121-SSH1 | Q | Device Net: CompoBus/D (OMRON Corp.) | EX121-SDN1 |
| E | Matsushita Electric Works: MEWNET-F System | EX121-SPA1 | R1 | OMRON Corp.: CompoBus/S (16 output points) | EX121-SCS1 |
| F1 | NKE Corp.: Uni-wire System (16 output points) | EX121-SUW1 | R2 | OMRON Corp.: CompoBus/S (8 output points) | EX121-SCS2 |
| G | Rockwell Automation: Allen Bradley Remote I/O (RIO) System | EX121-SAB1 | U | JEMANET (JPCN-1) | EX121-SJN1 |
| H | NKE Corp.: Uni-wire H System | EX121-SUH1 | V | Mitsubishi Electric Corp.: CC-LINK System | EX121-SMJ1 |

[^0]For external pilot specifications and built-in silencer, refer to catalog on page 1-4-196.

## How to Order Valve Manifold Assembly

## Ordering example



$$
\begin{array}{lll}
\text { S5Y3-45S1AD-05U-C6 } & 1 \text { set } & \begin{array}{l}
\text { (Type 45S1 with serial unit 5 } \\
\text { station manifold base part no.) }
\end{array} \\
\text { * SY3140-5FU } & 3 \text { sets } & \begin{array}{l}
\text { (Single solenoid part no.) } \\
\text { * SY3245-5FU }
\end{array} \\
\hline
\end{array} \text { set } \begin{aligned}
& \text { (Double solenoid part no.) }
\end{aligned}
$$

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

- The valve arrangement is numbered as the 1 st. station from $D$ side regardless of the mounting position of SI unit.
When ordering double solenoid valves/3 position (Dual body type), please keep in mind that they require two manifold stations.


Manual override

| Nil | Non-locking push type |
| :---: | :--- |
| D | Push-turn locking slotted type |
| E | Push-turn locking lever type |



## SY5000: Serial Transmission Unit/Plug-in




## 3 Port Valve

Series SY300/500
Mixed Mounting Type on 5 Port Valve Manifold
3 port valve can be mounted on manifold for 5 port valve.

## Application

Possible to be mounted on all kinds of manifolds for Series SY3000/5000.
Refer to "How to Order Manifold" for details.

## How to Order Valve Manifold Assembly



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

Individual Wiring: For SS5Y ${ }_{5}^{3}-20$

- Manual override

| Nil | Non-locking push type |
| :---: | :--- |
| D | Push-turn locking slotted type |
| E | Push-turn locking lever type |

- Light/Surge voltage suppressor

Electrical entry for G, H, L, M, W
Nil $\quad$ Without light/surge voltage suppressor
ectrical entry for D (SY500 only)

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



* "DOZ" is not available. For AC voltage valves there is no " S " option. It is already built-in to the rectifier circuit.

| cal entry |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { 24, 12, 6, 5, } 3 \text { VDC/ } \\ \text { 100, 110, 200, } 220 \text { VAC } \end{gathered}$ |  |  | $\begin{aligned} & \text { 24, } 12 \text { VDC/ } \\ & \text { 100, 110, } \\ & 200,220 \text { VAC } \end{aligned}$ | $\begin{gathered} \text { 24, 12, } \\ 6,5,3 \text { VDC } \end{gathered}$ |
| Grommet | L plug connector | M plug connector | DIN terminal | M8 connector |
| G:Lead wire length 300 mm H: Lead wire length 600 mm | L: With lead wire (Length 300 mm ) <br> LN: Without lead wire <br> LO: Without connector | M: With lead wire (Length 300 mm ) <br> MN: Without lead wire <br> MO: Without connector | D: With connector DO: Without connector | WO: Without connector cable |

* "LN", "MN" type: with 2 sockets.
* For connector cable of M8
* For DIN terminal of SY300 series, refer connector, refer to page 1-4-209. to page 1-4-207
* DIN terminal type " $Y$ " conforming to DIN 43650C is also available. For details, refer to page 1-4-201.

Note) When placing an order for body ported solenoid valve as a single unit, mounting bolt for manifold and gasket are not attached. Order them separately, if necessary.
(For details, refer to catalog on page 1-4-61.)

## Body Ported/How to Order Valves

Flat ribbon cable: SS5Y ${ }_{5}^{3}-20 \mathrm{P}$

| Light/Surge voltage suppressor e |  |
| :---: | :--- |
| $\mathbf{Z}$ | With light/surge voltage suppressor |
| $\mathbf{u}$ | With light/surge voltage suppressor <br> (Non-polar type) |

Note) Z: Positive common specifications only.


## Base Mounted/How to Order Valves

Individual wiring: For SS5Y ${ }_{5}^{3}$-41/42/45


Flat ribbon cable:
Connector box type: For SS5Y ${ }_{5}^{3}-41$ P/42P/45-A


Plug-in: For SS5Y ${ }_{5}^{3}-45 \square$

keep in mind that they require two manifold stations.

Construction


JIS Symbol
Single solenoid


Normally open (N.O.)
Single solenoid


Component Parts

| No. | Description | Material | Note |
| :---: | :--- | :---: | :---: |
| (1) | Body | Aluminum die-casted <br> (SY3000: Zinc die-casted) | White |
| (2) | Adapter plate | Resin | White |
| $(3)$ | End plate | Resin | White |
| (4) | Piston | Resin | - |
| $(5)$ | Spool valve assembly | Aluminum, HNBR | - |



A


JIS Symbol
Normally open (N.O.) Double solenoid
Double solenoid

Replacement Parts

| No. | Description | No. |
| :---: | :---: | :---: |
| (6 | Pilot valve assembly | Refer to "How to Order Pilot Valve Assembly" on page 1-4-10. |
| (7) | M5 port block assembly | Refer to "How to Order Port Block Assembly" below. |

## How to Order M5 Port Block Assembly



## Specifications

Dimensions, specifications, solenoid specifications, response time and effective area are the same as 5 port valve.

## Weight

## Series SY300

| Valve model | Type of actuation | Weight (g) |  |
| :---: | :---: | :---: | :---: |
|  |  | Grommet | L, M plug connector |
| SY3 $\square 3$ - $\square \square$-M5 | Single | 51 | 53 |
|  | Double | 68 | 74 |
| SY3 $\square 3-\square \square$ - ${ }_{\text {N3 }}$ | Single | 56 | 59 |
|  | Double | 74 | 79 |
| SY3 $\square 3-\square \square$ - ${ }^{\text {N7 }}$ | Single | 54 | 57 |
|  | Double | 72 | 77 |
| SY3 $\square 5-\square \square$ | Single | 47 | 50 |
|  | Double | 65 | 70 |

## Series SY500

| Valve model | Type of actuation | Weight (g) |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Grommet | L, M plug connector | DIN terminal |
| SY5 $\square 3-\square$-01 $\square$ | Single | 69 | 72 | 93 |
|  | Double | 87 | 93 | 135 |
| SY5 $\square 3-\square$ - ${ }_{\text {N }}$ 3 | Single | 82 | 82 | 103 |
|  | Double | 100 | 102 | 144 |
| SY5 $\square 3-\square$ - ${ }_{\text {N7 }}$ | Single | 79 | 77 | 98 |
|  | Double | 97 | 98 | 140 |
| SY5 $\square 3-\square$ - N 9 | Single | 75 | 84 | 105 |
|  | Double | 93 | 105 | 147 |
| SY5 $\square 5-\square \square$ | Single | 55 | 58 | 79 |
|  | Double | 73 | 78 | 120 |

Made to Order Specifications:
Series SX3000/5000 Serial Transmission Type With SMC's IN313

Serial Transmission Manifold Equipped with SMC's IN313

## How to Order Manifold

## Type 45S2 (Serial type with IN313)



How to Order Applicable SI Unit

## IN313-MB1 <br> - Applicable makers

| MB1 | For Mitsubishi Electric Corporation |
| :---: | :---: |
| TA1 | For OMRON Corporation |
| FU1 | For Fuji Electric Co., Ltd. |
| SH1 | For SHARP Corporation |
| TY1 | For Toyoda Machine Works, Ltd. |
| TY2 |  |
| PA1 | For Matsushita Electric Works Ltd. |
| HT1 | For Hitachi, Ltd. |
| AB1 | For Rockwell Automation, Inc. |
| TS1 | For TOSHIBA Corporation |

How to Order Valves


When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

## SY5000: Serial Transmission Unit/Plug-in


$\varnothing 6, \varnothing 1 / 4^{\prime \prime}$
ø8, ø5/16"
U side
(Station n)---(Station 1)


C4, N3
SS5Y5-45S2U-Stations B


Applicable tubing O.D.: $\varnothing 4, \varnothing 5 / 32 "$

$$
\varnothing 6, \varnothing 1 / 4^{\prime \prime}
$$

$$
\begin{aligned}
& \varnothing 8, \varnothing 5 / 16^{\prime \prime} \\
& U \text { side }
\end{aligned}
$$

| Sations n 2 stations | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 stations |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 20.5 | 223 | 248 | 260.5 | 273 | 298 | 310.5 | 323 | 335.5 |
| L2 | 200 | 212.5 | 237.5 | 250 | 262.5 | 287.5 | 300 | 312.5 | 325 |
| L3 | 105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233 |
| L4 | 13.5 | 12 | 16.5 | 14.5 | 13 | 17.5 | 15.5 | 14 | 12 |



| Stations | 2 stations | 3 | 4 | 5 | 6 | 7 | 8 | 9 stations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 235.5 | 248 | 260.5 | 273 | 298 | 310.5 | 323 | 348 |
| L2 | 225 | 237.5 | 250 | 262.5 | 287.5 | 300 | 312.5 | 337.5 |
| L3 | 123 | 139 | 155 | 171 | 187 | 203 | 219 | 235 |
| L4 | 17 | 15.5 | 13.5 | 12 | 16.5 | 14.5 | 13 | 17.5 |
| Stations $n$ Hostations | 11 | 12 | 13 | 14 | 15 | 16 stations |  |  |
| L1 | 360.5 | 373 | 385.5 | 410.5 | 423 | 435.5 | 460.5 |  |
| L2 | 350 | 362.5 | 375 | 400 | 412.5 | 425 | 450 |  |
| L3 | 251 | 267 | 283 | 299 | 315 | 331 | 347 |  |
| L4 | 15.5 | 14 | 12 | 16.5 | 15 | 13 | 17.5 |  |

## Made to Order Specifications:

 Series SX3000/5000 Serial Transmission Type With OMRON Corp's G71-OD16Serial Transmission Manifold Equipped with OMRON Corp's Transmission Unit G71-OD16

How to Order Manifold
Type 45S3 (Serial type with transmission unit)

One-touch fitting (Metric size)

| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| C4 | One-touch fitting for 04 |  |
| C6 | One-touch fitting for 06 | SY 3000 |
| M | Mixed |  |
| C4 | One-touch fitting for 04 |  |
| C6 | One-touch fitting for 06 | SY 5000 |
| C8 | One-touch fitting for 08 |  |
| M | Mixed |  |

* In the case of mixed specifications, indicate separately on the manifold specification sheet.

Option
When a longer DIN rail is desired than the specified stations, specify the station number to be required.
(20 stations at maximum)
For external pilot specifications and built-in silencer, refer to page 1-4-196.

Internal Wiring of Manifold
Serial Type 45S3 (Example of arrangement)


- For specifications on OMRON Corp's transmitter terminals, refer to the instruction manual or the catalog of transmitter terminals, etc.
- Max. 16 solenoids are applicable. Please consult with SMC for more solenoids.


## $\triangle$ Caution

- The wiring specifications for $\mathrm{SS}_{5} \mathrm{Y}_{5}^{3}-45 \mathrm{~S} 30$ are different from those for $\mathrm{SS}_{5} \mathrm{Y}_{5}^{3}-45 \mathrm{PG}$.


## SY5000: Serial Transmission Unit/Plug-in

| Stations $n$ | 2staions | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 stations |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L1 | 210.5 | 223 | 235.5 | 260.5 | 273 | 285.5 | 298 | 323 | 335.5 |
| L2 | 200 | 212.5 | 225 | 250 | 262.5 | 275 | 287.5 | 312.5 | 325 |
| L3 | 105 | 121 | 137 | 153 | 169 | 185 | 201 | 217 | 233 |
| L4 | 16.5 | 15 | 13 | 17.5 | 16 | 14 | 12.5 | 17 | 15 |

2
Note) The L1 to L4 dimensions of SS5Y5-



# Made to Order Specifications: <br> Series SY3000/5000 

Individual Wiring/Connector Box Type

How to Order Manifold
Type 45


A, B port size

| One-touch fitting (Metric size) |  |  |
| :---: | :---: | :---: |
| Symbol | Port size | Applicable series |
| C4 | One-touch fitting for $\varnothing 4$ | SY3000 |
| C6 | One-touch fitting for $\varnothing 6$ |  |
| M | Mixed |  |
| C4 | One-touch fitting for $\varnothing 4$ | SY5000 |
| C6 | One-touch fitting for 06 |  |
| C8 | One-touch fitting for 08 |  |
| M | Mixed |  |


| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| N3 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ | SY |
| N7 | One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ |  |
| M | Mixed |  |
| N3 | One-touch fitting for $\varnothing 5 / 32^{\prime \prime}$ |  |
| N7 | One-touch fitting for $\varnothing 1 / 4^{\prime \prime}$ | SY5000 |
| N9 | One-touch fitting for $\varnothing 5 / 16^{\prime \prime}$ |  |
| M | Mixed |  |

[^1] specification sheet.

## How to Order Valve Manifold Assembly


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

[^2]
## How to Order Valves

| 24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC |  |  | $\begin{aligned} & \hline \text { 24, } 12 \text { VDC/ } \\ & 100,110, \end{aligned}$ | 24, 12, 6, 5, 3 VDC |
| :---: | :---: | :---: | :---: | :---: |
| Grommet | L plug connector | M plug connector | DIN terminal | M8 connector |
| G: Lead wire length 300 mm <br> H: Lead wire length 600 mm | L: With lead wire (Length 300 mm ) <br> LN: Without lead wire LO: Without connector | M: With lead wire (Length 300 mm ) <br> MN: Without lead wire MO: Without connector | (SY5000 only) <br> D: With connector <br> DO: Without connector | WO: Without connector cable |

$)^{*}$

* "LN", "MN" type: with 2 sockets.
* "D" and "DO" only available for SY5000.
* DIN terminal type " $Y$ " conforming to DIN43650C standard is also available. For details, refer to page 1-4-201
* Setting "-5LOU" is available only for connector box type.
* For connector cable of M8 connector, refer to pages 1-4-209 to 210.

Plug-in

## How to Order Manifold

Type 45 $\square$



* This also includes the number of blanking plate assemblies.
* Depending on the connector, the number of stations is
limited. Refer to page 1-4-143.
* Two stations are necessary for the double, 3 position (Dual body type).
SUP/EXH block assembly mounting position -

| Symbol | Mounting position | Stations |
| :---: | :---: | :---: |
| $\mathbf{U}$ | U side | to 10 stations |
| D | D side |  |
| B | (Both sides) | 2 to 20 stations |
| M | Special specifications |  |

* For special specifications, indicate separately on the manifold specification sheet.
SUP/EXH block assembly specifications
Symbol Specifications

| R | External pilot |
| :---: | :--- |
| $\mathbf{S}$ | Internal pilot/Built-in silencer |
| $\mathbf{R S}$ | External pilot/Built-in silencer |

## A, B port size

One-touch fitting (Metric size)

| Symbol | Port size | Applicable series |
| :---: | :---: | :---: |
| C4 | One-touch fitting for $\varnothing 4$ |  |
| C6 | One-touch fitting for $\varnothing 6$ |  |
| M | Mixed |  |
| C4 | One-touch fitting for $\varnothing 4$ |  |
| C6 | One-touch fitting for $\varnothing 6$ | SY5000 |
| C8 | One-touch fitting for $\varnothing 8$ |  |
| M | Mixed |  |

## How to Order Valve Manifold Assembly



The valve arrangement is numbered as the 1st. station from $D$ side regardless of the mounting position of SUP/EXH block assembly. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the manifold specification sheet to instruct us.
For manifolds with SUP/EXH block at each end of the manifold, external pilot ports and silencers will be also located at each end of the manifold.
The SUP/EXH block assembly (SX3/5000-51-1A), for special usage, as shown on page $1-4-130$, can also be mounted. Please specify the mounting position, by correctly filling in the blank space on the manifold specification sheet.
Two stations of the manifold base are necessary for the double, 3 position (Dual body type). Use caution when specifying the number of stations required for the manifold base.

How to Order Valves


| $\mathbf{5}$ | 24 VDC |
| :--- | :---: |
| $\mathbf{6}$ | 12 VDC |
| $\mathbf{V}^{*}$ | 6 VDC |
| $\mathbf{S}^{*}$ | 5 VDC |
| $\mathbf{R}^{*}$ | 3 VDC |


| Nil | Non-locking push type |
| :---: | :--- |
| D | Push-turn locking slotted type |
| E | Push-turn locking lever type |

* Mark: 45 T and T1 only
S $\square$ type is available
for 24 VDC only.


## SY3000: SS5Y3-45-Stations DRS-C4, $\begin{gathered}\text { C43 } \\ \text { C6, N7 }\end{gathered}$





[^3]* The dimensions of SS5Y $\mathbf{5}_{5}^{3}$-45-Stations URS are identical to those of SS5Y ${ }_{5}^{3}-45 \mathrm{~F}$ - Stations DRS.


## External Pilot/Built-in Silencer



# Made to Order Specifications: 

How to Order Manifold
Type M45 (Mixed mounting type)

| SS5Y5-M <br> Mixed mounting ${ }^{\text {d }}$ <br> type |  |  | 05 |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Valve stations |  |  |  |
| Symbol Stations | SUP/EXH block assembly mounting position © |  |  |
| 02 2 stations | Symb | Mounting position | Stations |
| ! $\vdots$ | U | U side | 2 to 10 stations |
| 20 20 stations | D | D side |  |
| The number of blanking | B | Both sides | 2 to 20 stations |
|  | M | Special sp | pecifications | plate ass'y is *For special specifications, indicate separately included, too. on the manifold specification sheet.

SUP/EXH block assembly specifications -

| Symbol | Specifications |
| :---: | :--- |
| Nil | Standard/Internal pilot |
| $\mathbf{S}$ | Built-in silencer |

* External pilot is unavailable for mixed mounting style.
One-touch fitting (Metric size)

|  | Port size |
| :---: | :---: |
| C | SY5000: One-touch fitting SY3000: One-touch fitting |
| C | SY5000: One-touch fitting SY3000: One-touch fitting |
| C64 | SY5000: One-touch fitting for $\varnothing 6$ SY3000: One-touch fitting for $\varnothing 4$ |
| C66 | SY5000: One-touch fitting for $\varnothing 6$ SY3000: One-touch fitting for $\varnothing 6$ |
| C84 | SY5000: One-touch fitting for $\varnothing 8$ SY3000: One-touch fitting for $\varnothing 4$ |
| C86 | SY5000: One-touch fitting for ø8 SY3000: One-touch fitting for $\sigma 6$ |
| M | Mixed |



* In the case of mixed specifications, indicate separately on the manifold specification sheet

How to Order Valve Manifold Assembly


How to Order Valves


[^4]SS5Y5-M45- Stations U


Applicable tubing O.D.: $\varnothing 4, \varnothing 5 / 32^{\prime \prime}$ (Station n)


## SS5Y5-M45- Stations B




[^0]:    * For terminal LED descriptions and cable wiring, etc. for each SI unit, refer to pages 1-4-171 to 1-4-173.

[^1]:    * In the case of mixed specifications, indicate separately on the manifold

[^2]:    The valve arrangement is numbered as the 1st. station from D side regardless of he mounting position of SUP/EXH block assembly. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the manifold specification sheet to instruct us.
    For manifolds with SUP/EXH block assembly at each end of the manifold, external pilot ports and silencers will be also located at each end of the manifold.
    The SUP/EXH block assembly (SX3/5000-51-1A), for special usage, as shown on page 1-4-130, can also be mounted. Please specify the mounting position, by correctly filling in the blank space on the manifold specification sheet.

[^3]:    * The dimensions L1 to L4 are identical to those of
    

[^4]:    ()

    * For type "W ", DC voltage is only available.

