

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Terminal Block Box (Spring Type)

SY3000/5000/7000 Series



How to Order Manifolds

Refer to pages 160 (SY5000) and 161 (SY7000) for the dimensions of Type 11/Bottom-ported type.

SS5Y **3** - **10** TC - **05** **D** - **C6**

1 Series

3	SY3000
5	SY5000
7	SY7000

2 Type

10	Side ported
11	Bottom ported *1

*1 The SY5000 manifold base is used for the bottom-ported SY3000. When ordering, refer to the "Plug-in Mixed Mounting Type Manifold" (from page 165).

4 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

5 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

* 3/5(E) port is plugged for the built-in silencer type.

* When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

3 Valve stations

TC: Spring type terminal block box

Symbol	Stations	Note
02	2 stations	Double wiring *1
:	:	
16	16 stations	Specified layout *2 (Up to 32 solenoids available)
02	2 stations	
:	:	
24	24 stations	

*1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

*2 Specified layout: Indicate the wiring specifications with the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)

* This also includes the number of the blanking plate assembly.

7 Mounting and Option

Symbol	Mounting	Option
Nil	Direct mounting	None
AA		Name plate (with station number)
BA		Name plate (without station number)
D	DIN rail mounting	Without name plate
A		Name plate (with station number)
B		Name plate (without station number)

DIN Rail Option

Nil	DIN rail mounting (with DIN rail)
0	DIN rail mounting (without DIN rail)
3	For 3 stations
:	Specify a length longer than that of the standard rail.
24	For 24 stations

* Enter the number of stations inside □. (Refer to "DIN Rail Option" above.)
* Only direct mounting is available for the type 11 bottom-ported type.

6 A, B port size (Metric/One-touch fitting)

Symbol	A, B port	Type 10/Side ported			Type 11/Bottom ported		
		SY3000	SY5000	SY7000	SY5000	SY7000	
C2	ø2	●	—	—	—	—	
C3	ø3.2	●	—	—	—	—	
C4	ø4	●	●	—	●	—	
C6	ø6	●	●	●	●	●	
C8	ø8	—	●	●	●	●	
C10	ø10	—	—	●	●	●	
C12	ø12	—	—	●	—	●	
CM*1	Straight port, mixed sizes	●	●	●	●	●	
L4	ø4	●	●	—	—	—	
L6	ø6	●	●	●	—	—	
L8	ø8	—	●	●	—	—	
L10	ø10	—	—	●	—	—	
L12	ø12	—	—	●	—	—	
B4	ø4	●	●	—	—	—	
B6	ø6	●	●	●	—	—	
B8	ø8	—	●	●	—	—	
B10	ø10	—	—	●	—	—	
B12	ø12	—	—	●	—	—	
LM*1	Elbow port, mixed sizes (Including upward and downward piping)	●	●	●	—	—	
P, E port size (One-touch fittings)		ø8	ø10	ø12	ø10	ø12	

A, B port size (Inch/One-touch fitting)

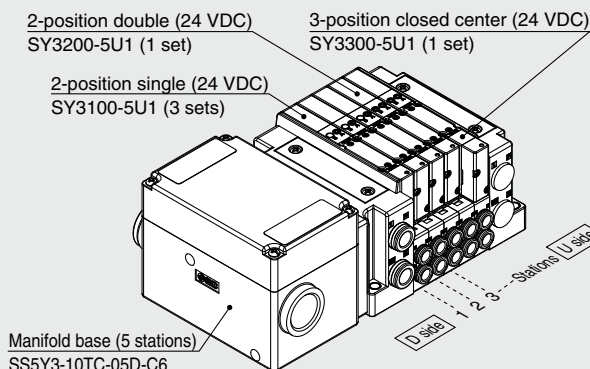
Symbol	A, B port	Type 10/Side ported			Type 11/Bottom ported		
		SY3000	SY5000	SY7000	SY5000	SY7000	
N1	ø1/8"	●	—	—	—	—	
N3	ø5/32"	●	●	—	●	—	
N7	ø1/4"	●	●	●	●	●	
N9	ø5/16"	—	●	●	●	●	
N11	ø3/8"	—	—	●	—	●	
CM*1	Straight port, mixed sizes	●	●	●	●	●	
LN3	ø5/32"	●	—	—	—	—	
LN7	ø1/4"	●	●	—	—	—	
LN9	ø5/16"	—	●	—	—	—	
LN11	ø3/8"	—	—	●	—	—	
BN3	ø5/32"	●	—	—	—	—	
BN7	ø1/4"	●	●	—	—	—	
BN9	ø5/16"	—	●	—	—	—	
BN11	ø3/8"	—	—	●	—	—	
LM*1	Elbow port, mixed sizes (Including upward and downward piping)	●	●	●	—	—	
P, E port size (One-touch fittings)		ø5/16"	ø3/8"	ø1/2"	ø3/8"	ø1/2"	

*1 Indicate the sizes on the manifold specification sheet in the case of "CM" or "LM." The direction of P, E port fittings is the same as for the A, B port. If selecting "LM," indicate it on the manifold specification sheet for the P, E port fitting direction.

*2 To avoid interference with the body or piping, select a downward elbow port when mounting the optional spacer assembly.

How to Order Manifold Assembly

Example (SS5Y3-10TC-□)



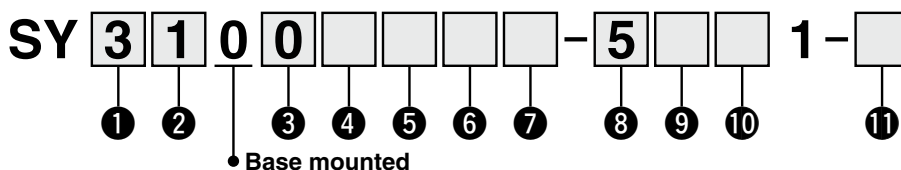
SS5Y3-10TC-05D-C6.....1 set (Type 10 5-station manifold base part no.)
* SY3100-5U1 3 sets (2-position single part no.)
* SY3200-5U1 1 set (2-position double part no.)
* SY3300-5U1 1 set (3-position closed center part no.)

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

• For the valve arrangement, the valve closest to the D side is considered the 1st station.
• Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure above. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

How to Order Valves (With mounting screw)

Refer to page 15 for valve specifications.



1 Series

3	SY3000
5	SY5000
7	SY7000

2 Type of actuation

1	2-position	Single
2		Double
3	3-position	Closed center
4		Exhaust center
5		Pressure center
A*1	4-position dual 3-port	N.C./N.C.
B*1		N.O./N.O.
C*1		N.C./N.O.

*1 Only the rubber seal type is available for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pilot type

Nil	Internal pilot
R	External pilot

5 Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

* Only the rubber seal type is available. A manifold installed type is available if a back pressure check valve with a metal seal is required. Refer to page 212 for ordering examples. However, it is not recommended to use the built-in valve type and the manifold installed type at the same time because it will reduce the flow.

* The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

6 Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)
K*1	High pressure type (1.0 MPa)

*1 Only the metal seal type is available for the high pressure type.

7 Coil type

Nil	Standard
T	With power saving circuit (Continuous duty type)

* Be sure to select the power saving circuit type if the valve is to be continuously energized for long periods of time.

* Be careful of the energizing time when the power saving circuit is selected. Refer to page 292 for details.

8 Rated voltage

5	24 VDC
6	12 VDC

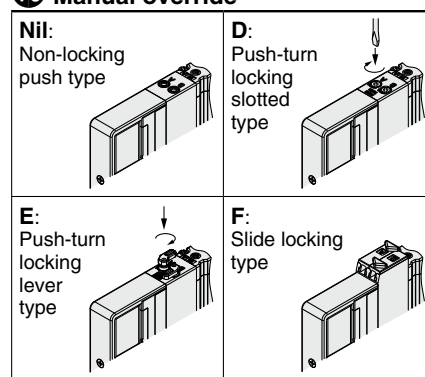
9 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
Nil	—	—	Non-polar
R	—	●	
U	●		
S	—		
Z	●		
NS	—	Positive common	
NZ	●		
		Negative common	

* For the non-polar type, be careful of surge voltage intrusion. Refer to page 293 for details.

* Only "Z" and "NZ" types are available with a power saving circuit.

10 Manual override



* Refer to page 34 for the safety slide locking manual override.

11 Type of mounting screw

Nil	Round head combination screw
B	Hexagon socket head cap screw
K	Round head combination screw (Drop prevention type)
H	Hexagon socket head cap screw (Drop prevention type)

* For "K" and "H," the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance, etc.

* **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. Refer to page 198 for base gasket and mounting screw part numbers.

* "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly, interface regulator, or double check spacer assembly with residual pressure release valve.