

# Series SV1000/2000/3000/4000

## How to Order

SV 1 1 00 [ ] — 5 W1 U D [ ] [ ]

• **Series**

1	SV1000
2	SV2000
3	SV3000
4	SV4000

• **Thread type**

Nil	Rc
F	G
N	NPT
T	NPTF

• **Type of actuation**

1	2 position single solenoid 
2	2 position double solenoid 
3	3 position closed center 
4	3 position exhaust center 
5	3 position pressure center 
A	4 position dual 3 port valve: N.C./N.O. 
B	4 position dual 3 port valve: N.O./N.O. 
C	4 position dual 3 port valve: N.C./N.O. 

• **Pilot specification**

Nil	Internal pilot
R	External pilot

\* External pilot specification is not available for 4 position dual 3 port valves.

• **Rated voltage**

5	24VDC
6	12VDC

• **M12 waterproof connector**

Symbol	Cable length (mm)
W1	300
W2	500
W3	1000
W4	2000
W7	5000

• **Port size**

Symbol	Port size	Applicable series
Nil	Without sub-plate	
01	1/8	SV1000
02	1/4	SV2000 SV3000
03	3/8	SV3000 SV4000
04	1/2	SV4000

• **Manual override**

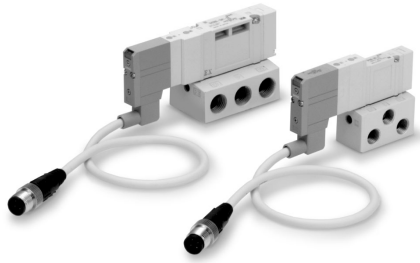
Nil	Non-locking push type
D	Slotted locking type

• **Light/Surge voltage suppressor**

U	With light and surge voltage suppressor
R	With surge voltage suppressor

SV3000 and 4000 are not available with dual 3 port valve.

### Series SV Solenoid Valve Specifications



Fluid		Air
Internal pilot operating pressure range MPa (psi)	2 position single	0.15 to 0.7 (22 to 101)
	4 position dual 3 port valve	
	2 position double	0.1 to 0.7 (14 to 101)
External pilot operating pressure range MPa (psi)	3 position	0.2 to 0.7 (14 to 101)
	Operating pressure range	-100kPa to 0.7 (-14.5 to 101)
Ambient and fluid temperature °C (°F)	2 position single, double	-10 to 50 (with no freezing)* (14 to 22)
	4 position dual 3 port valve	
	3 position	
Maximum operating frequency Hz	2 position single, double	5
	4 position dual 3 port valve	
	3 position	3
Manual override		Non-locking push type
		Slotted locking type
Pilot exhaust method	Internal pilot	Main valve/Pilot valve common exhaust
	External pilot	Pilot valve individual exhaust
Lubrication		Not required
Mounting orientation		Unrestricted
Impact/Vibration resistance ms <sup>2</sup>		150/30 (8.3 to 2000Hz)
Enclosure		IP67 (based on IEC529)
Electrical entry		M12 waterproof connector
Rated coil voltage		24VDC, 12VDC
Allowable voltage fluctuation		±10% of rated voltage
Power consumption W		0.6 (With light: 0.65)
Surge voltage suppressor		Zener diode
Indicator light		LED

Note) Impact resistance: No malfunction when tested with a drop tester in the axial direction and at a right angle to the main valve and armature, one time each in energized and de-energized states (at initial value).

Vibration resistance: No malfunction when tested with one sweep of 8.3 to 2000Hz in the axial direction and at a right angle to the main valve and armature, in both energized and de-energized states (at initial value).

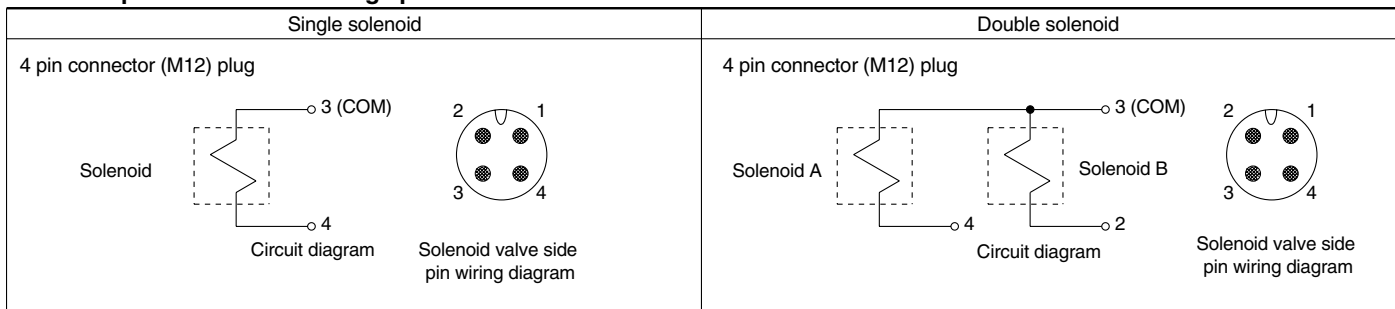
\* Refer to page 102.

#### Response time

Type of actuation	Response time ms at 0.5MPa (72.5psi)			
	SV1000	SV2000	SV3000	SV4000
2 position single	11 or less	25 or less	28 or less	40 or less
2 position double	10 or less	17 or less	26 or less	40 or less
3 position	18 or less	29 or less	32 or less	82 or less
4 position dual 3 port valve	15 or less	33 or less	—	—

Note) Based on JISB8375-1981 dynamic performance test (with coil temperature of 20°C, at rated voltage).

#### M12 waterproof connector wiring specifications



Note) Solenoid valves do not have polarity.

## Model

### Series SV1000

Note) Values inside [ ] are applicable normal position. Values inside ( ) are applicable without sub-plate.

Valve Model	Type of Actuation		Port size	Flow characteristics						Weight (g) <sup>Note)</sup>
				1→4, 2 (P→A, B)			4, 2→5, 3 (A, B→EA, EB)			M12 waterproof connector (cable length 300mm)
				C[dm <sup>3</sup> /(s·bar)]	b	Cv	C[dm <sup>3</sup> /(s·bar)]	b	Cv	
SV1□00-□-01	2 position	Single	Rc 1/8	1.0	0.30	0.24	1.1	0.30	0.26	123 (88)
		Double								128 (93)
	3 position	Closed center		0.77	0.28	0.18	0.85	0.30	0.19	130 (95)
		Exhaust center		0.73	0.31	0.18	1.1 [0.55]	0.26 [0.52]	0.24 [0.16]	
		Pressure center		1.2 [0.51]	0.24 [0.45]	0.29 [0.14]	0.89	0.47	0.24	
	4 position dual	N.C./N.C.		0.68	0.35	0.18	1.1	0.39	0.29	128 (93)
		N.O./N.O.		0.87	0.31	0.23	0.77	0.44	0.21	

### Series SV2000

Valve Model	Type of Actuation		Port size	Flow characteristics						Weight (g) <sup>Note)</sup>
				1→4, 2 (P→A, B)			4, 2→5, 3 (A, B→EA, EB)			M12 waterproof connector (cable length 300mm)
				C[dm <sup>3</sup> /(s·bar)]	b	Cv	C[dm <sup>3</sup> /(s·bar)]	b	Cv	
SV2□00-□-02	2 position	Single	Rc 1/4	2.4	0.41	0.64	2.8	0.29	0.66	159 (96)
		Double								163 (100)
	3 position	Closed center		1.8	0.47	0.50	1.8	0.40	0.47	168 (105)
		Exhaust center		1.4	0.55	0.44	3.0 [1.2]	0.33 [0.48]	0.72 [0.37]	
		Pressure center		3.3 [0.84]	0.36 [0.60]	0.85 [0.28]	1.8	0.40	0.48	
	4 position dual	N.C./N.C.		2.2	0.40	0.55	2.6	0.31	0.60	163 (100)
		N.O./N.O.		2.7	0.24	0.57	2.3	0.36	0.54	

### Series SV3000

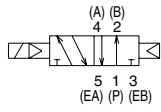
Valve Model	Type of Actuation		Port size	Flow characteristics						Weight (g) <sup>Note)</sup>
				1→4, 2 (P→A, B)			4, 2→5, 3 (A, B→EA, EB)			M12 waterproof connector (cable length 300mm)
				C[dm <sup>3</sup> /(s·bar)]	b	Cv	C[dm <sup>3</sup> /(s·bar)]	b	Cv	
SV3□00-□-02	2 position	Single	Rc 1/4	4.1	0.41	1.1	4.1	0.29	1.0	250 (121)
		Double								253 (124)
	3 position	Closed center		3.0	0.43	0.80	2.6	0.41	0.72	261 (132)
		Exhaust center		2.6	0.42	0.71	4.7 [1.7]	0.35 [0.48]	1.1 [0.49]	
		Pressure center		5.3 [2.3]	0.39 [0.49]	1.3 [0.65]	2.2	0.49	0.63	
SV3□00-□-03	2 position	Single	Rc 3/8	4.9	0.29	1.2	4.5	0.27	1.1	235
		Double								238
	3 position	Closed center		3.0	0.40	0.80	2.6	0.45	0.73	246
		Exhaust center		2.6	0.42	0.71	4.8 [1.7]	0.35 [0.48]	1.1 [0.34]	
		Pressure center		5.3 [2.3]	0.31 [0.51]	1.3 [0.64]	2.3	0.45	0.66	

### Series SV4000

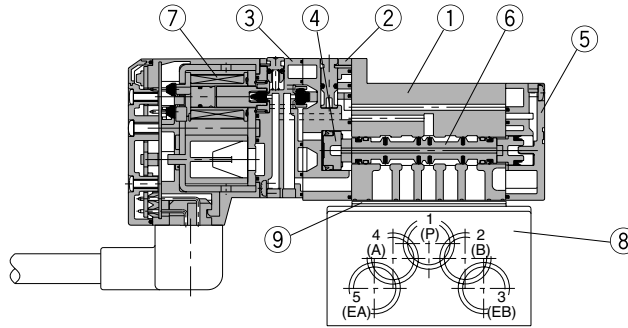
Valve Model	Type of Actuation		Port size	Flow characteristics						Weight (g) <sup>Note)</sup>
				1→4, 2 (P→A, B)			4, 2→5, 3 (A, B→EA, EB)			M12 waterproof connector (cable length 300mm)
				C[dm <sup>3</sup> /(s·bar)]	b	Cv	C[dm <sup>3</sup> /(s·bar)]	b	Cv	
SV4□00-□-03	2 position	Single	Rc 3/8	7.9	0.34	2.0	9.6	0.43	2.5	505 (208)
		Double								509 (212)
	3 position	Closed center		7.6	0.32	1.8	7.3	0.30	1.7	530 (233)
		Exhaust center		7.2	0.34	1.7	13 [4.0]	0.23 [0.41]	2.8 [0.95]	
		Pressure center		12 [3.3]	0.26 [0.41]	2.8 [0.84]	6.7	0.40	1.9	
SV4□00-□-04	2 position	Single	Rc 1/2	8.0	0.48	2.2	10	0.29	2.5	484
		Double								488
	3 position	Closed center		7.6	0.32	1.8	7.3	0.32	1.8	509
		Exhaust center		7.3	0.42	2.0	13 [4.7]	0.32 [0.54]	3.6 [1.5]	
		Pressure center		12 [3.3]	0.33 [0.51]	3.3 [0.94]	7.4	0.33	1.9	

Construction: SV1000/2000/3000/4000 Tie-rod Base Type

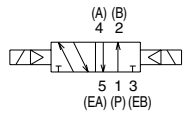
2 position single



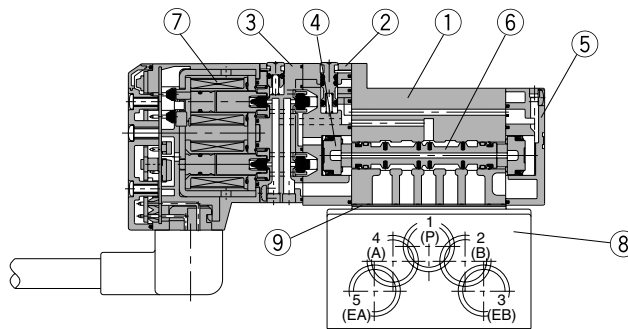
2 position single



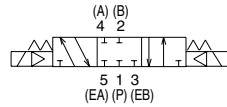
2 position double



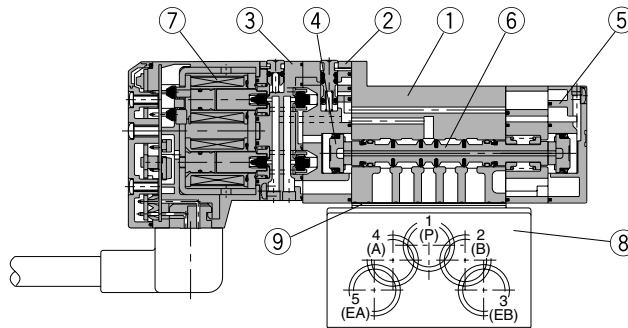
2 position double



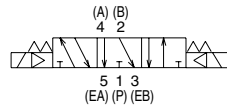
3 position closed center



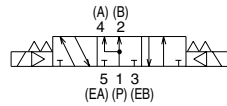
3 position closed center/exhaust center/pressure center



3 position exhaust center



3 position pressure center



Parts list

No.	Description	Material	Note
1	Body	Die-cast aluminum (SV1000 is die-cast zinc)	White
2	Adapter plate	Resin	White
3	Pilot body	Resin	White
4	Piston	Resin	—
5	End plate	Resin	White
6	Spool valve assembly	Aluminum/H-NBR	—
7	Molded coil	Resin	Gray

**Caution**

Mounting screw tightening torques

- M2: 0.15N·m
- M3: 0.6N·m
- M4: 1.4N·m

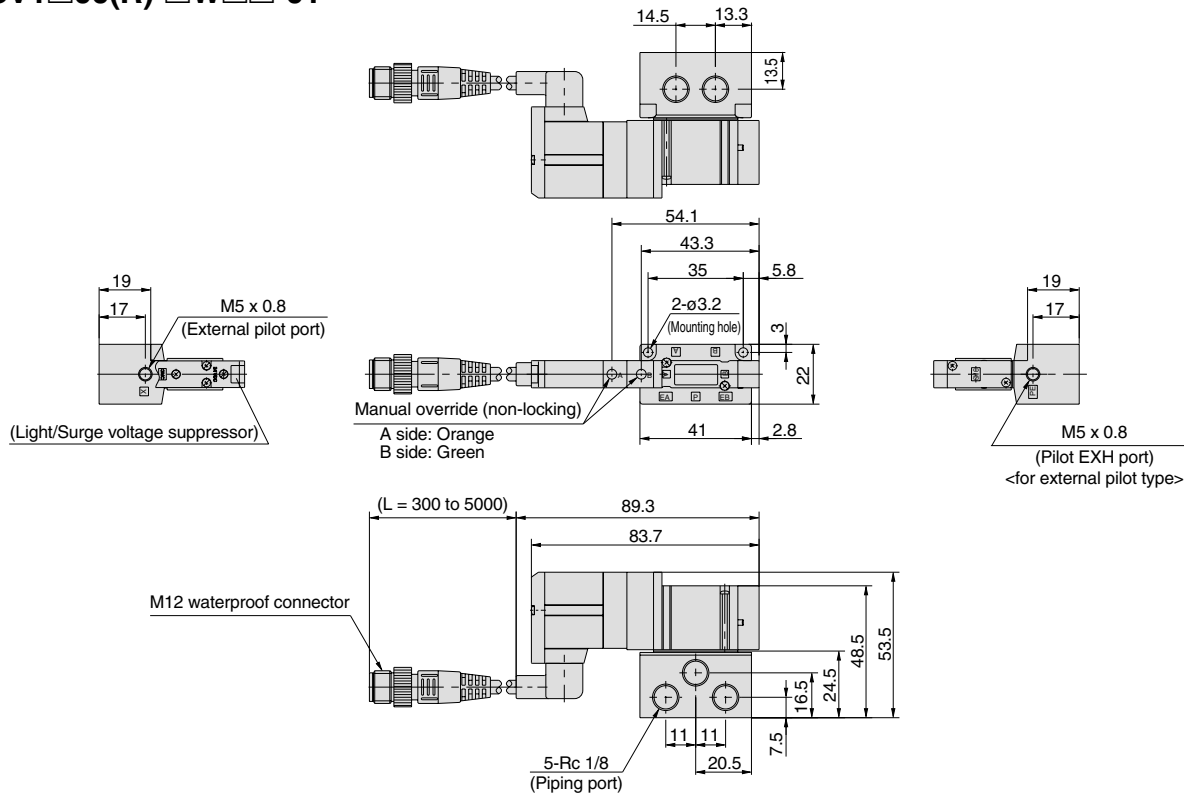
Replacement parts

No.	Description	Part number				Note
		SV1□00	SV2□00	SV3□00	SV4□00	
8	Sub-plate	SY3000-27-1□-Q	SY5000-27-1□-Q	1/4: SY7000-27-1□-Q 3/8: SY7000-27-2□-Q	3/8: SY9000-27-1□ 1/2: SY9000-27-2□	Die-cast aluminium See thread types on page 86 for □.
9	Gasket	SY3000-11-25	SY5000-11-18	SY7000-11-14	SY9000-11-2	
—	Round head combination screw	SX3000-22-2 (M2 x 24)	SV2000-21-1 (M3 x 30)	SV3000-21-1 (M4 x 35)	SV2000-21-2 (M3 x 40)	For valve mounting (flat nickel plated)

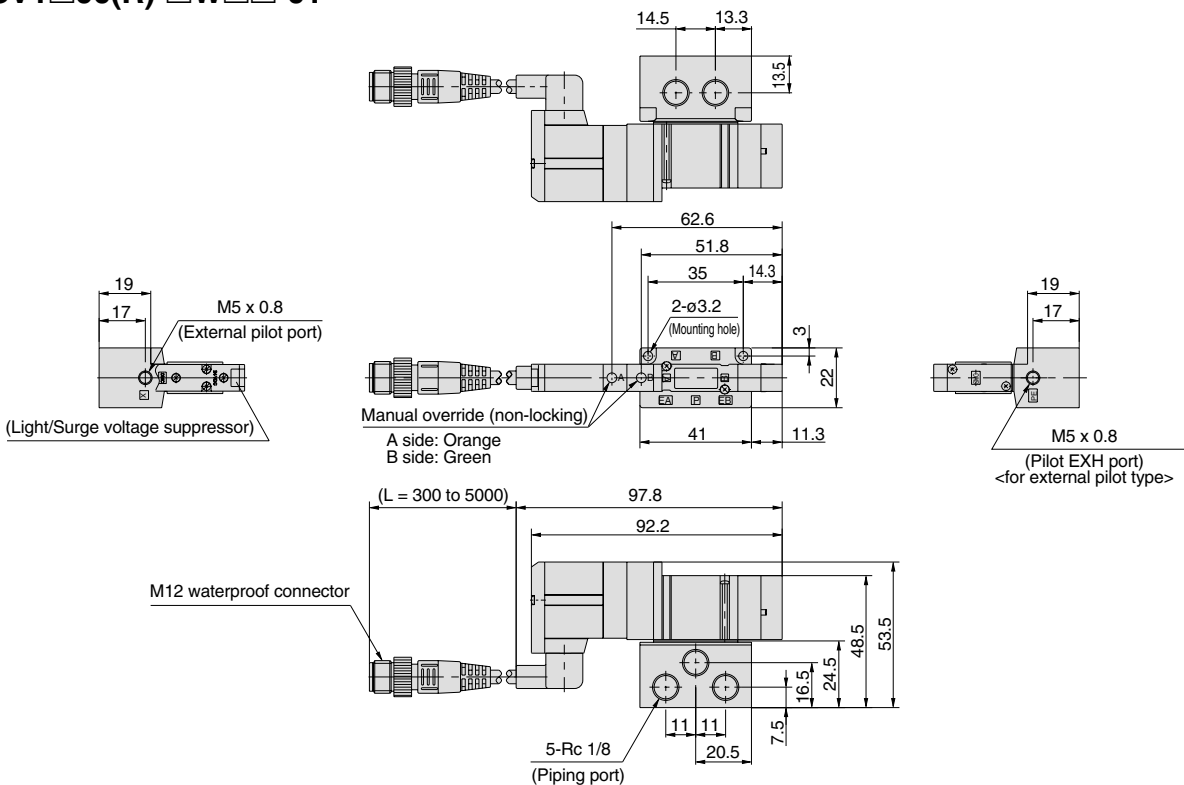
## Dimensions: Series SV1000

1in = 25.4mm

### 2 position single/double/4 position dual 3 port [M12 waterproof connector type] SV1□00(R)-□W□□-01



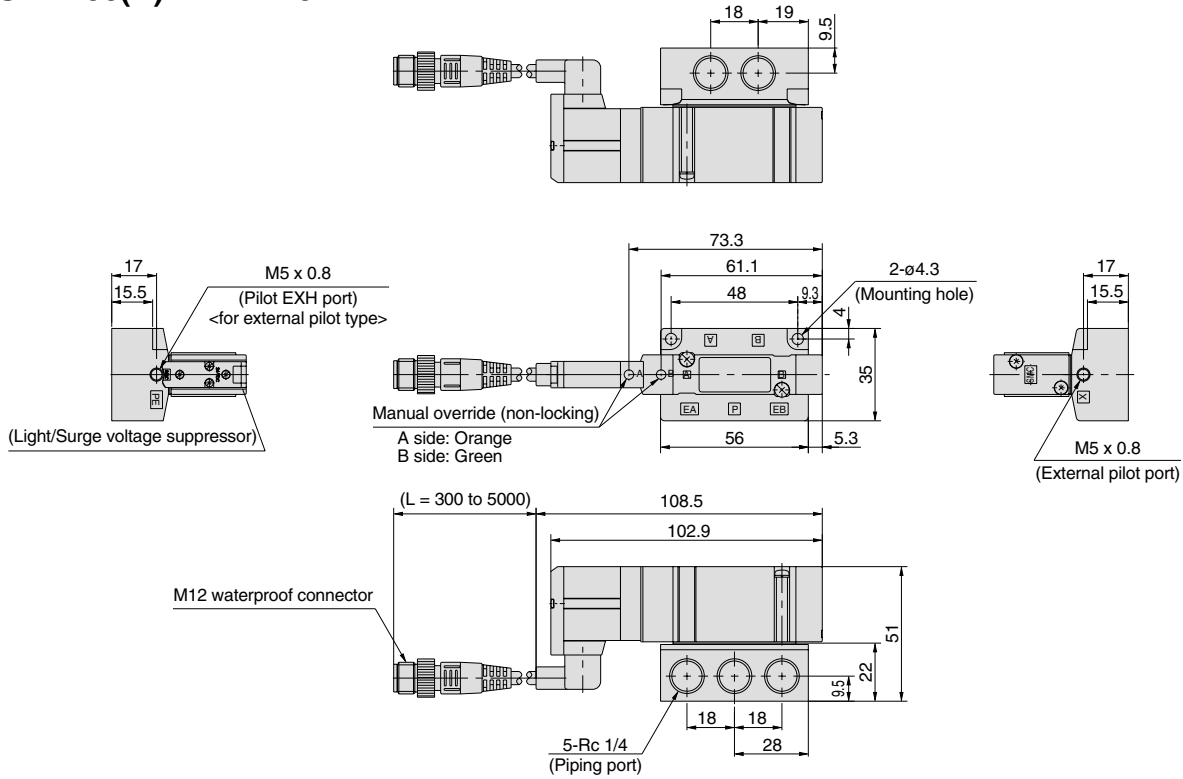
### 3 position closed center/exhaust center/pressure center [M12 waterproof connector type] SV1□00(R)-□W□□-01



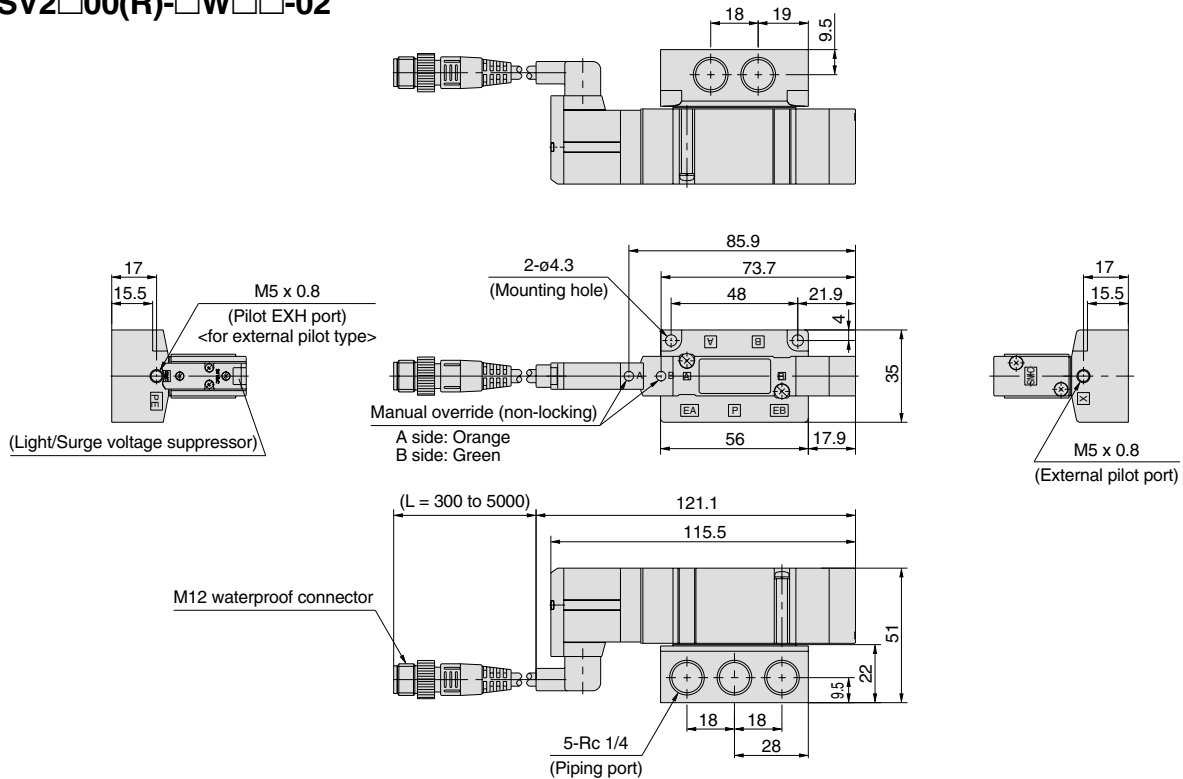
1in = 25.4mm

**Dimensions: Series SV2000**

**2 position single/double/4 position dual 3 port [M12 waterproof connector type]  
SV2□00(R)-□W□□-02**



**3 position closed center/exhaust center/pressure center [M12 waterproof connector type]  
SV2□00(R)-□W□□-02**

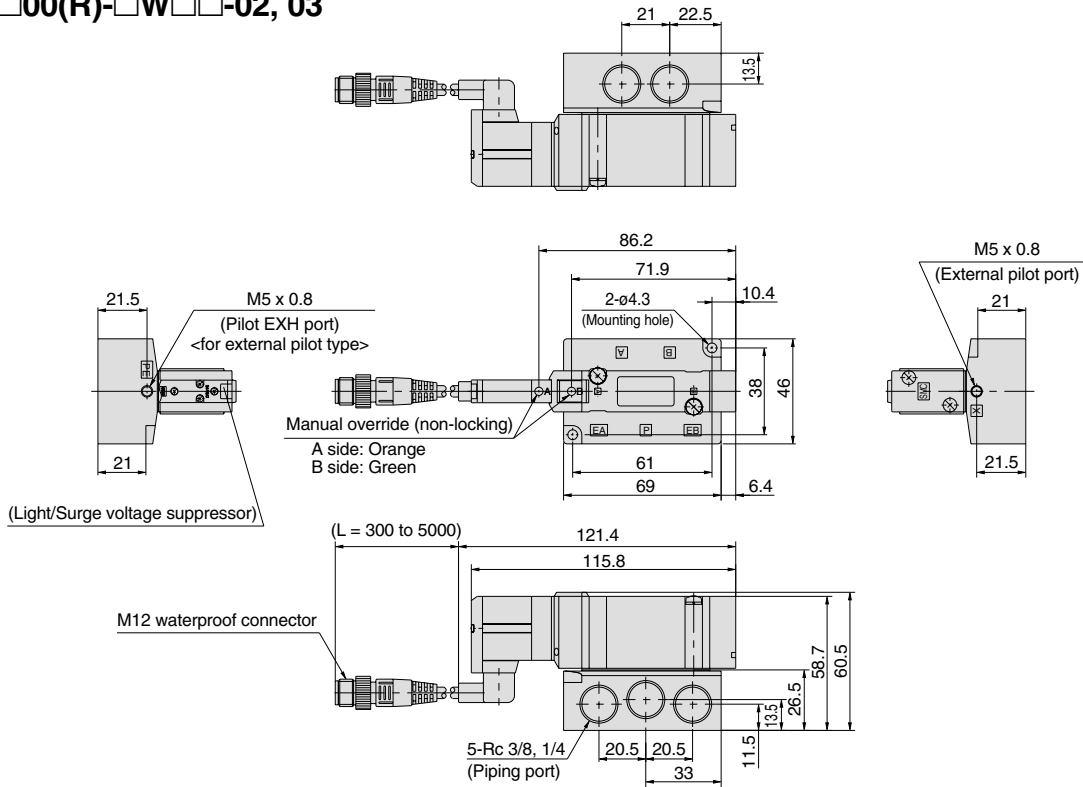


## Dimensions: Series SV3000

1in = 25.4mm

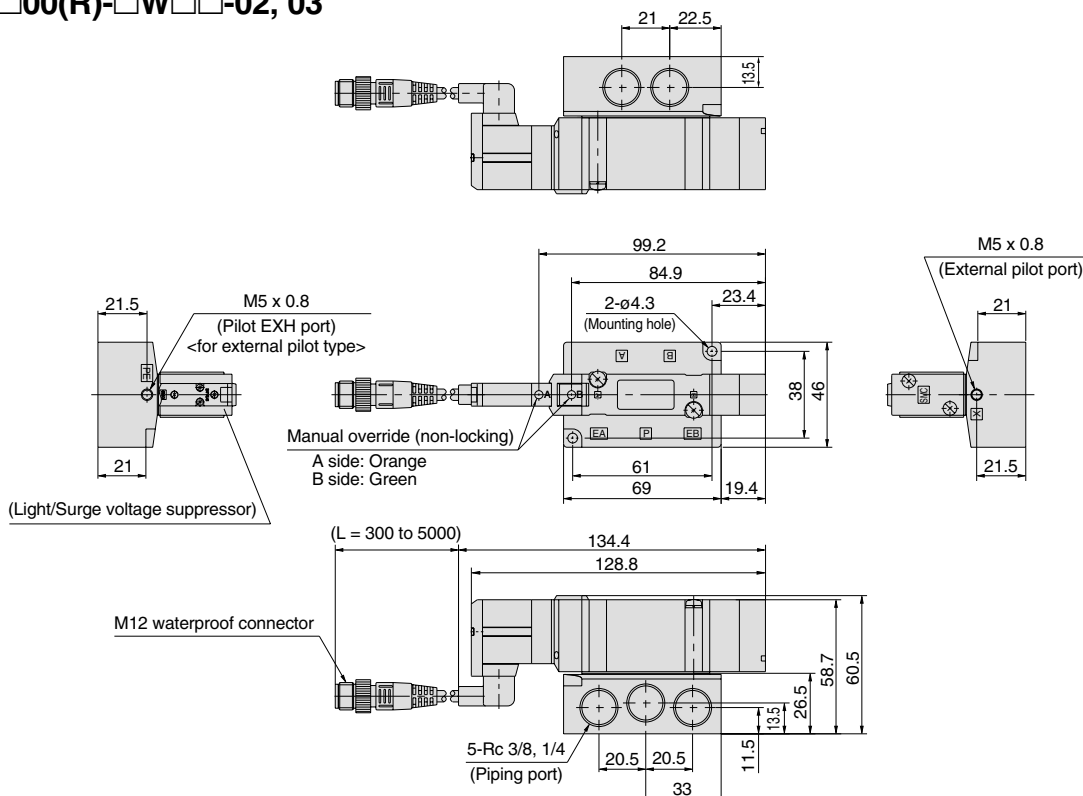
### 2 position single/double [M12 waterproof connector type]

SV3□00(R)-□W□□-02, 03



### 3 position closed center/exhaust center/pressure center [M12 waterproof connector type]

SV3□00(R)-□W□□-02, 03

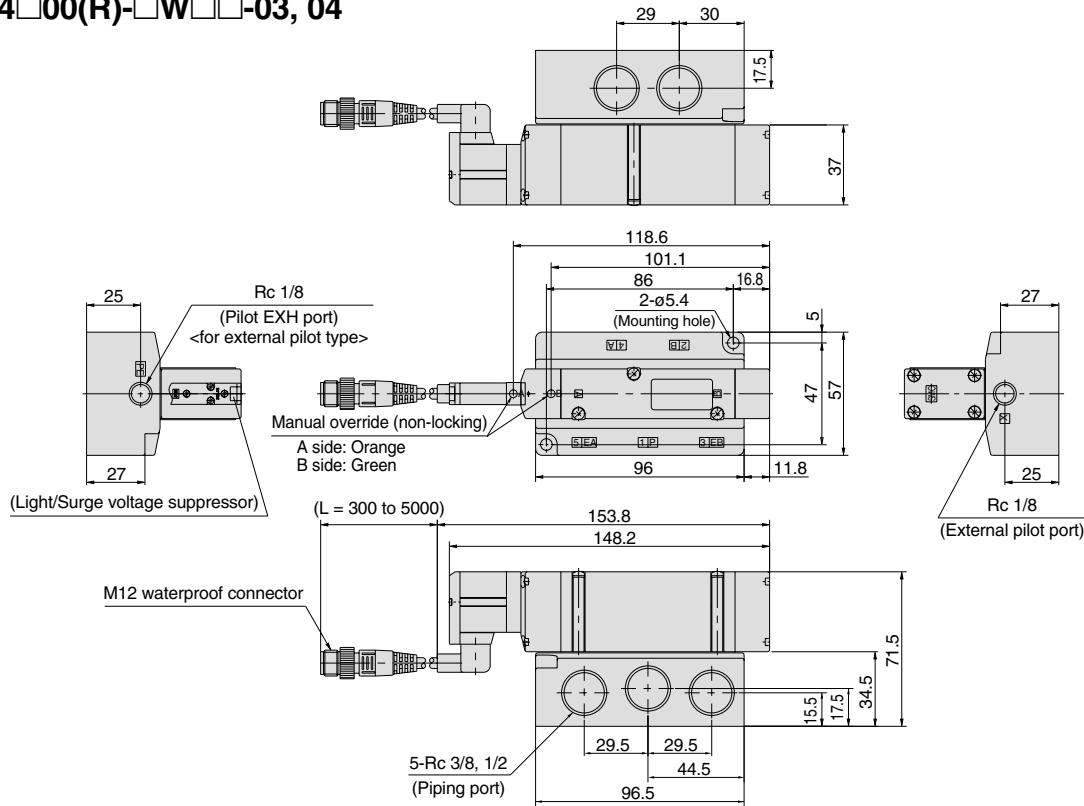


1in = 25.4mm

**Dimensions: Series SV4000**

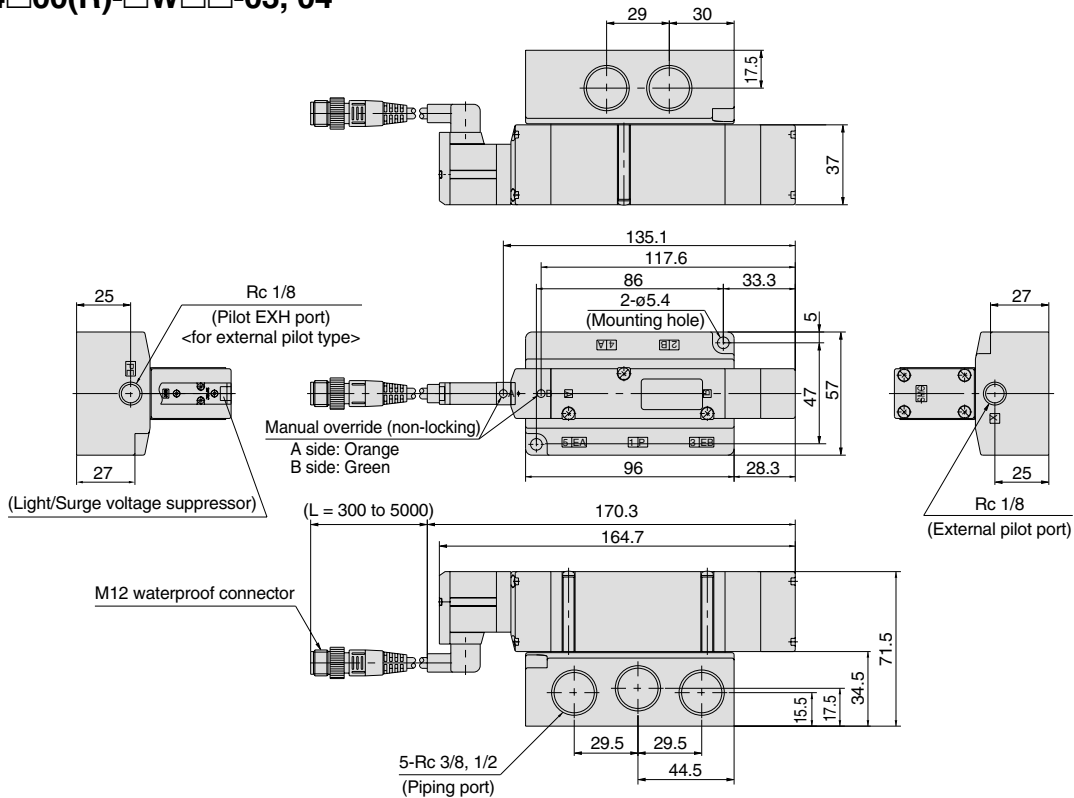
**2 position single/double [M12 waterproof connector type]**

**SV4□00(R)-□W□□-03, 04**



**3 position closed center/exhaust center/pressure center [M12 waterproof connector type]**

**SV4□00(R)-□W□□-03, 04**





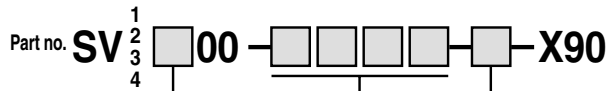
Contact SMC regarding detailed specifications, lead times and pricing.



## 1 Main Valve Fluoro Rubber Specification **-X90**

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

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



● **Entry is the same as standard products.**

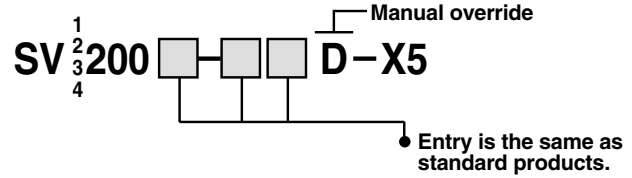
Specifications and performance are the same as standard products.

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

## 2 Single, Double Common Type **-X5**

Single solenoid and double solenoid can be changed at the installation.

### How to order



### Specifications

Valve configuration	Pilot type 2 position 5 port solenoid valve		
Type of actuation	Single solenoid, double solenoid common type		
Internal pilot operating pressure range MPa (psi)	2 position single	0.15 to 0.7 (24 to 101)	
	2 position double	0.15 to 0.7 (22 to 101)	
External pilot operating pressure range MPa (psi)	Operating pressure range		-100kPa to 0.7 (-14.5 to 101)
	Pilot pressure range	2 position single	0.25 to 0.7 (36 to 101)
2 position double		0.25 to 0.7 (36 to 101)	
Ambient and fluid temperature °C (°F)	-10 to 50 (with no freezing) Note) (14 to 122)		
Power consumption W	0.6 (With light: 0.65)		

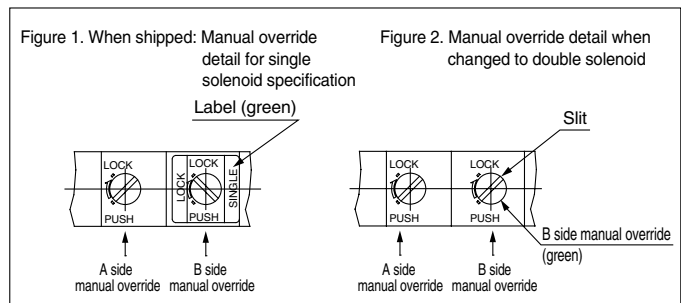
\* Other specifications (effective area, response time, etc.) are the same as standard products.

Note) Refer to page 102.

## ⚠ Caution

### Operating precautions

1. The single solenoid specification is applicable when shipped from the factory. (Refer to Figure 1.)
2. For use as a double solenoid, set the manual override and connector assembly as follows.
  - ① Remove the B side manual override (green) label, and turn the slit of the B side manual override with a watchmakers screw driver so that it is positioned as shown in Figure 2.
3. When set for double solenoid, do not apply current to solenoids on both sides at the same time.
4. Refer to page 105 for details on electrical connections and electrical circuits with light and surge voltage suppressor.
5. Dimensions are the same as standard products.



# EX500 Decentralized Serial Type Manifold

## Series SV<sup>1</sup>/<sub>2</sub>/<sup>3</sup>/<sub>4</sub>000: Tie-rod base Cassette base

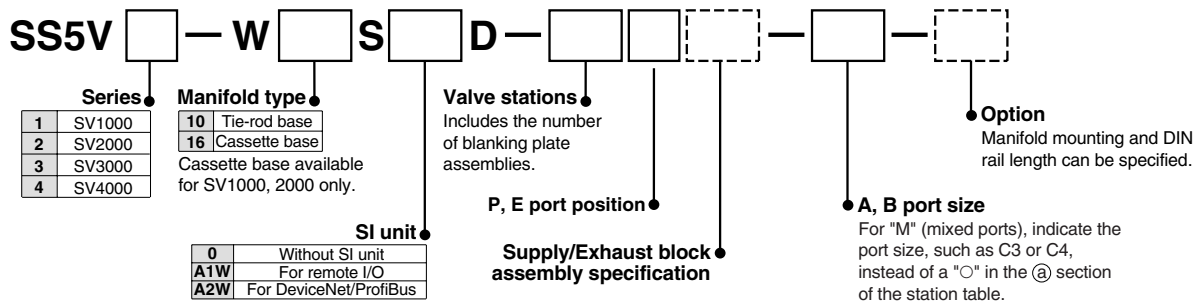
Date: \_\_\_\_\_

Customer name		
Contact person		
Specification sheet no.		
Purchase order no.		
Equipment name		
Quantity	set(s)	Required date

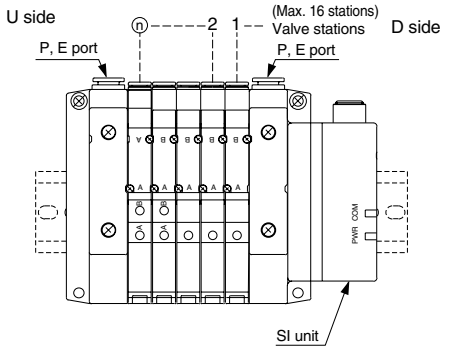
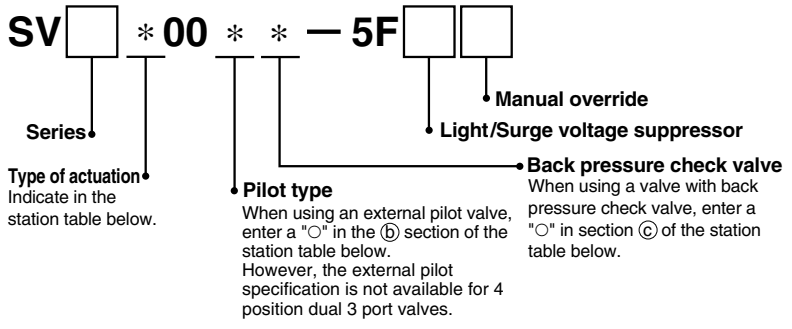
# Manifold Specification Sheet

Follow procedures ① through ③.

### ① Manifolds Refer to page 8 for appropriate specification symbols to fill in the blanks below.



### ② Valves Refer to page 9 for appropriate specification symbols to fill in the blanks below.



### ③ Stations

Indicate the layout of valves, etc., with a "O".

Valve stations		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
2 position	Single solenoid																	
	Double solenoid																	
3 position	Closed center																	
	Exhaust center																	
	Pressure center																	
④ 4 position dual 3 port valve	N.C./N.C.																	
	N.O./N.O.																	
Relay output module	1 output																	
	2 outputs																	
Blanking plate assembly																		
⑤ External pilot specification (enter only for external pilot)																		
③ With back pressure check valve (enter only for back pressure check valve)																		
④ SUP block plate assembly																		
④ EXH block plate assembly																		
⑥ Wiring specifications	Single wiring																	
	Double wiring																	

Enter only when specifying the wiring.

For SMC use only

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Date:

**EX250 Integrated Input/Output Serial Type Manifold**

**Series SV<sup>1</sup>/<sub>3</sub>000: Tie-rod base**

**Manifold Specification Sheet**

Follow procedures ① through ③.

Customer name		
Contact person		
Specification sheet no.		
Purchase order no.		
Equipment name		
Quantity	set(s)	Required date

**① Manifolds** Refer to page 24 for appropriate specification symbols to fill in the blanks below.

**SS5V**  — **W10S1**     **D** —

**Series**

1	SV1000
2	SV2000
3	SV3000

**SI unit**

0	Without SI unit
NW	For ProfiBus-DP
QW	For DeviceNet

**Input block**

Nil	Without input block
1	M12: 2 inputs
2	M12: 4 inputs
3	M8: 4 inputs (3 pins)

**Valve stations**  
Includes the number of blanking plate assemblies.

**P, E port position**

**Supply/Exhaust block assembly specification**

Nil	Positive COM
N	Negative COM

**Input block common specification**

**Option**  
Manifold mounting and DIN rail length can be specified.

**A, B port size**  
For mixed mounting, indicate the port size, such as C3 or C4, instead of a "O" in the ② section of the station table.

**② Valves** Refer to page 25 for appropriate specification symbols to fill in the blanks below.

**SV**  \* **00** \* \* — **5F**

**Series**

**Type of actuation**  
Indicate in the station table below.

**Pilot type**  
When using an external pilot valve, enter a "O" in the ② section of the station table below. However, the external pilot specification is not available for 4 position dual 3 port valves.

**Manual override**

**Light/Surge voltage suppressor**

**Back pressure check valve**  
When using a valve with back pressure check valve, enter a "O" in section ③ of the station table below.

**③ Stations**

Indicate the layout of valves, etc., with a "O".

Valve stations		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
2 position	Single solenoid																					
	Double solenoid																					
3 position	Closed center																					
	Exhaust center																					
3 position Pressure center																						
4 position dual 3 port valve	N.C./N.C.																					
	N.O./N.O.																					
Relay output module	1 output																					
	2 outputs																					
Blanking plate assembly																						
External pilot specification (enter only for external pilot)																						
With back pressure check valve (enter only for back pressure check valve)																						
SUP block plate assembly																						
EXH block plate assembly																						
Wiring specifications	Single wiring																					
	Double wiring																					

Enter only when specifying the wiring.

For SMC use only

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Date:

# EX120 Dedicated Output Serial Type Manifold

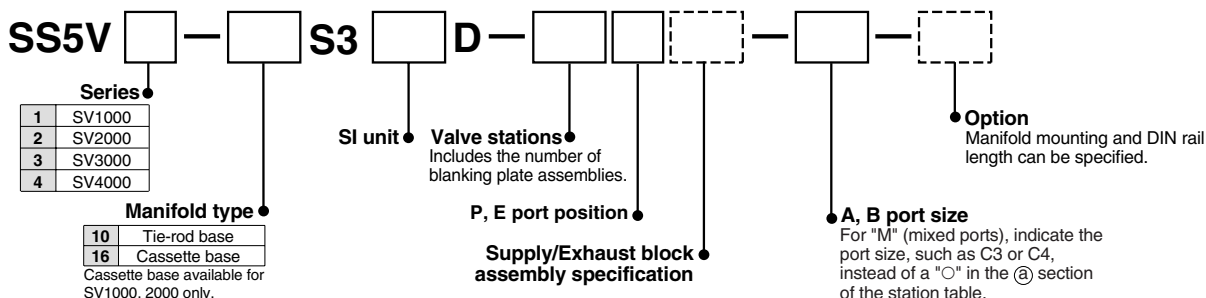
Series SV<sup>1</sup><sub>2</sub><sup>3</sup><sub>4</sub>000: Tie-rod base  
 Cassette base

## Manifold Specification Sheet

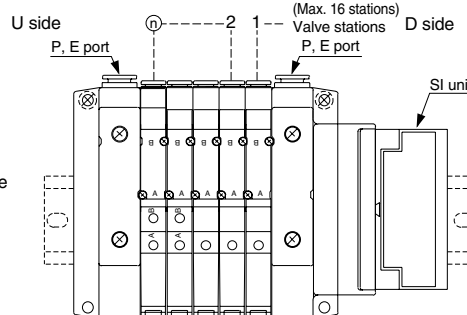
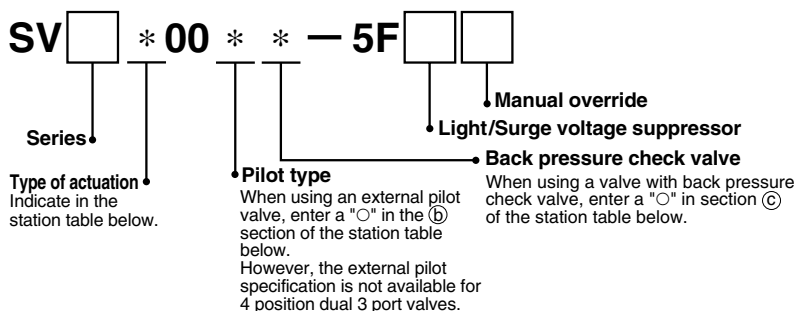
Follow procedures ① through ③.

Customer name		
Contact person		
Specification sheet no.		
Purchase order no.		
Equipment name		
Quantity	set(s)	Required date

### ① Manifolds Refer to page 32 for appropriate specification symbols to fill in the blanks below.



### ② Valves Refer to page 33 for appropriate specification symbols to fill in the blanks below.



### ③ Stations

Indicate the layout of valves, etc., with a "O".

Valve stations		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity	
①	2 position	Single solenoid																	
		Double solenoid																	
	3 position	Closed center																	
		Exhaust center																	
		Pressure center																	
4 position dual 3 port valve	N.C./N.C.																		
	N.O./N.O.																		
Relay output module	1 output																		
	2 outputs																		
Blanking plate assembly																			
②	External pilot specification (enter only for external pilot)																		
③	With back pressure check valve (enter only for back pressure check valve)																		
④	SUP block plate assembly																		
④	EXH block plate assembly																		
⑤	Wiring specifications	Single wiring																	
		Double wiring																	

Enter only when specifying the wiring.

For SMC use only

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Date:

# Circular Connector Type Manifold

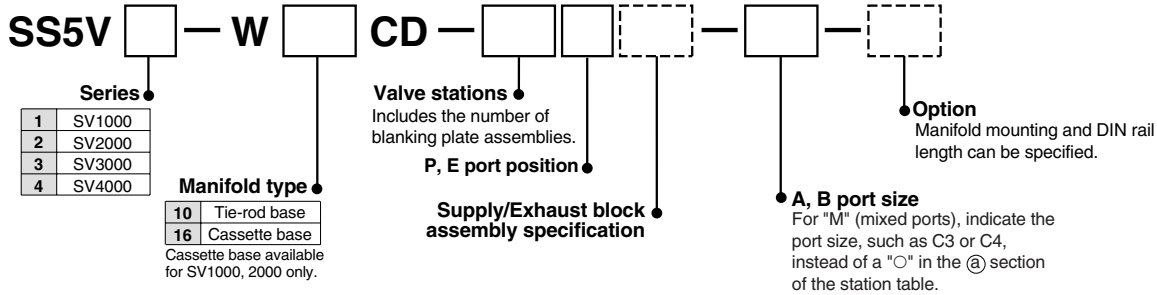
Series SV<sup>1</sup>/<sub>2</sub><sup>3</sup>000: Tie-rod base  
Cassette base<sup>4</sup>

## Manifold Specification Sheet

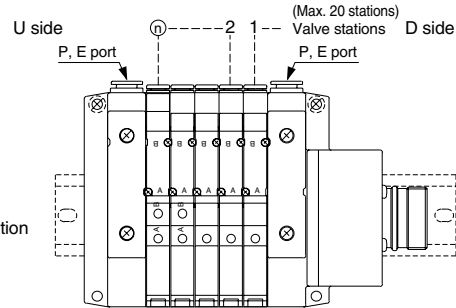
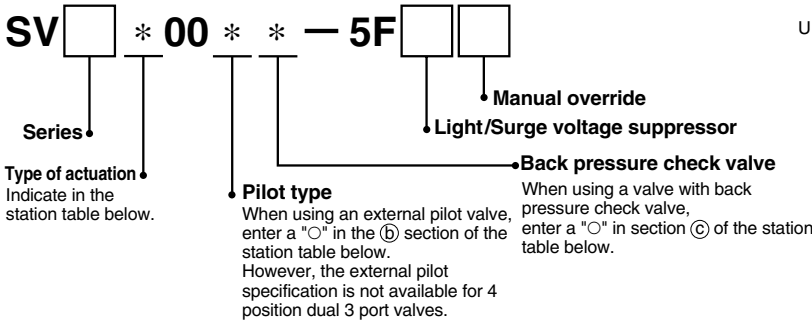
Follow procedures ① through ③.

Customer name		
Contact person		
Specification sheet no.		
Purchase order no.		
Equipment name		
Quantity	set(s)	Required date

### ① Manifolds Refer to page 44 for appropriate specification symbols to fill in the blanks below.



### ② Valves Refer to page 45 for appropriate specification symbols to fill in the blanks below.



### ③ Stations

Indicate the layout of valves, etc., with a "O".

Valve stations		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
2 position	Single solenoid																					
	Double solenoid																					
3 position	Closed center																					
	Exhaust center																					
	Pressure center																					
(a) 4 position dual 3 port valve	N.C./N.C.																					
	N.O./N.O.																					
Relay output module	1 output																					
	2 outputs																					
Blanking plate assembly																						
(b)	External pilot specification (enter only for external pilot)																					
(c)	With back pressure check valve (enter only for back pressure check valve)																					
(d)	SUP block plate assembly																					
(d)	EXH block plate assembly																					
(e)	Wiring specifications																					
	Single wiring																					
	Double wiring																					

Enter only when specifying the wiring.

For SMC use only

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Date:

**D-sub Connector**      **Flat Ribbon Cable Connector**      **Type Manifold**

**Series SV 1000:** Tie-rod base  
2000: Cassette base  
3000:  
4000:

Customer name		
Contact person		
Specification sheet no.		
Purchase order no.		
Equipment name		
Quantity	set(s)	Required date

# Manifold Specification Sheet

Follow procedures ① through ③.

## ① Manifolds

Refer to page 54 for appropriate specification symbols to fill in the blanks below.

**SS5V**  —   **D**  —    —  —

**Series**

1	SV1000
2	SV2000
3	SV3000
4	SV4000

**Manifold type**

10	Tie-rod base
16	Cassette base

Cassette base available for SV1000, 2000 only.

**Connector type**

F	D-sub connector 25 pins
P	Flat ribbon cable connector 26 pins
PG	Flat ribbon cable connector 20 pins
PH	Flat ribbon cable connector 10 pins

**Valve stations**  
Includes the number of blanking plate assemblies.

**Connector entry direction**

1	Upward
2	Lateral

**Option**  
Manifold mounting and DIN rail length can be specified.

**A, B port size**  
For "M" (mixed ports), indicate the port size, such as C3 or C4, instead of a "O" in the (a) section of the station table.

**Supply/Exhaust block assembly specification**

**P, E port position**

## ② Valves

Refer to page 55 for appropriate specification symbols to fill in the blanks below.

**SV**  \*   \*  \*  — **5F**

**Series**

**Type of actuation**  
Indicate in the station table below.

**Pilot type**  
When using an external pilot valve, enter a "O" in the (b) section of the station table below. However, the external pilot specification is not available for 4 position dual 3 port valves.

**Light/Surge voltage suppressor**

**Back pressure check valve**  
When using a valve with back pressure check valve, enter a "O" in section (c) of the station table below.

**Manual override**

## ③ Stations

Indicate the layout of valves, etc., with a "O".

Valve stations		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Quantity
2 position	Single solenoid																					
	Double solenoid																					
3 position	Closed center																					
	Exhaust center																					
	Pressure center																					
(a) 4 position dual	N.C./N.C.																					
	N.O./N.O.																					
3 port valve	N.C./N.O.																					
	N.O./N.C.																					
Relay output module	1 output																					
	2 outputs																					
Blanking plate assembly																						
(b)	External pilot specification (enter only for external pilot)																					
(c)	With back pressure check valve (enter only for back pressure check valve)																					
(d)	SUP block plate assembly																					
(d)	EXH block plate assembly																					
(e)	Wiring specifications	Single wiring																				
		Double wiring																				

Enter only when specifying the wiring.

For SMC use only

Enter ordered part numbers.

Part no.	Qty.

Part no.	Qty.

Order no.	
Clerk (code no.)	
Dept. code	

Date:

# EX500 Serial System

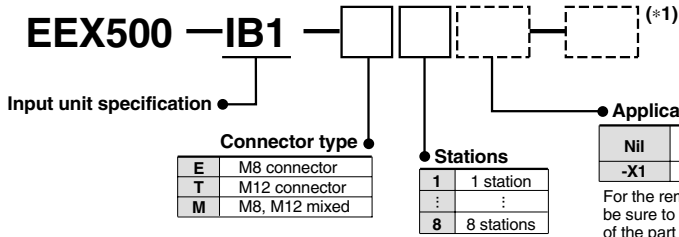
## Input Unit Manifold Specification Sheet

To order, enter the input manifold part number + \*block part number together.  
For remote I/O (RIO) type, be sure to enter "-X1" at the end of each part number.

Customer name		
Contact person		
Specification sheet no.		
Purchase order no.		
Equipment name		
Quantity	set(s)	Required date

### 1 Input Manifolds

Enter symbols for the required specifications in the blanks below.  
An input manifold includes the input unit + end block + DIN rail.

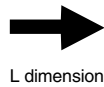


#### DIN rail L dimensions [mm]

Stations	M8 input block (m)									
	0	1	2	3	4	5	6	7	8	
M12 input block (n)	0	0	1	2	3	4	5	6	7	8
	1	1	2	3	4	5	6	7	8	
	2	2	3	4	5	6	7	8		
	3	4	5	6	7	8	9			
	4	6	7	8	9	10				
	5	7	8	9	10					
	6	9	10	11						
	7	10	11							
	8	12								

Connector type:  
For M (m + n = 2 to 4)

Connector type:  
For E (m = 1 to 8)



No.	L dimension	No.	L dimension
0	98	7	185.5
1	110.5	8	198
2	123	9	210.5
3	135.5	10	223
4	148	11	235.5
5	160.5	12	248
6	173		

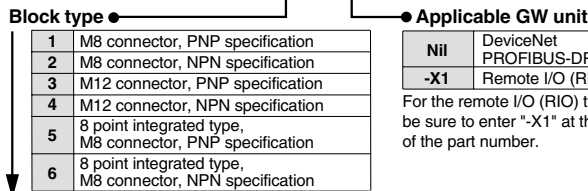
\*1) When a DIN rail other than the above is required, refer to the separate DIN rail dimensions (page 85), and enter a number from the L dimension table at the end of the part number.

Connector type:  
For T (n = 1 to 8)

### 2 Input Blocks

Enter symbols for the required specifications in the blanks below.  
Waterproof caps are attached to input blocks.

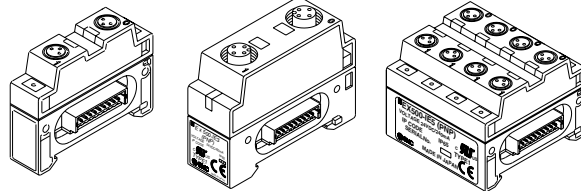
\*EX500 — IE [ ] [ ]



A M8 input block

B M12 input block

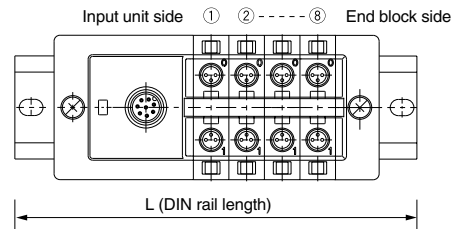
C 8 point integrated type input block



Indicate input sensor specifications and block arrangement (order) with "O" symbols.

Input sensor specifications	PNP (current source)		NPN (current sink)		Quantity
	1	2	3	4	
Arrangement (order)					
A M8 input block					
B M12 input block					
C 8 point integrated type input block (M8) *2					

\*2) The 8 point integrated type input block corresponds to four M8 input blocks.



For SMC use only

Enter the part number to be ordered, and circle the connector type and sensor specification.

Connector type	Sensor specification	Description	Part number <sup>Note 1)</sup>	Qty.
—	—	① Input manifold	EEX500-IB1-	
E	M8 connector	② Input block <sup>Note 2)</sup>	*EX500-IE	
T	M12 connector		*EX500-IE	
M	M8, M12 mixed		*EX500-IE	

Order no.	
P.O. no.	
Clerk (code no.)	
Dept. code	

Note 1) When the gateway (GW) unit is an RIO type, enter "-X1" at the end of each part number.

Note 2) For input blocks, enter the total number of each block used.