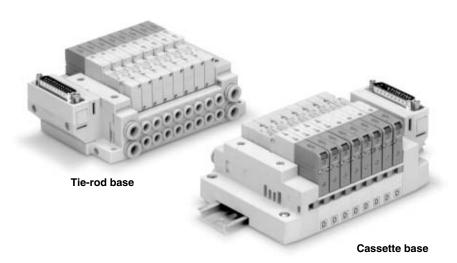
D-sub Connector



Cassette base manifold SV1000/SV2000

Applicable series

Tie-rod base manifold SV1000/SV2000/SV3000/SV4000

- Number of connectors: 25 pins
- MIL-C-24308

Conforming to JIS-X-5101

SV

SZ

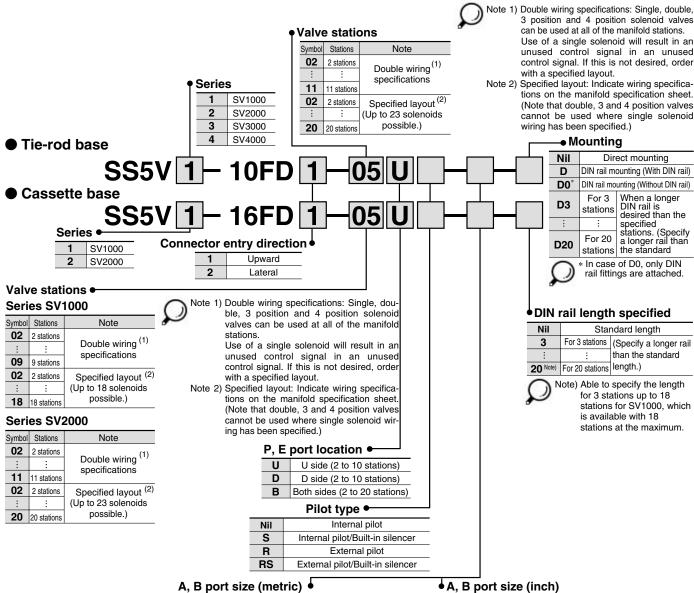
SY

SYJ

SX

D-sub Connector Series SV

How to Order



A, B p	ort size (metric) •			
Symbol	A, B port	P, E port	Applicable series	
C3	One-touch fitting for ø3.2	One touch		
C4	One-touch fitting for ø4	One-touch	SV1000	
C6	One-touch fitting for ø6	fitting for ø8		
C4	One-touch fitting for ø4	One-touch		
C6	One-touch fitting for ø6		SV2000	
C8	One-touch fitting for ø8	fitting for ø10		
C6	One-touch fitting for ø6	One-touch		
C8	One-touch fitting for ø8	fitting for ø12	SV3000	
C10	One-touch fitting for ø10	Illuling for \$12		
C8	One-touch fitting for ø8	One-touch		
C10	One-touch fitting for ø10	fitting for ø12		
C12	One-touch fitting for ø12	Illuling for \$12		
02	Rc 1/4	D- 0/0	SV4000	
03	Rc 3/8	Rc 3/8		
02F	G 1/4	0.0/0		
03F	G 3/8	G 3/8		
M	A, B ports	s mixed		

	∳ A,	В	port	size	(inch)
•	$\overline{}$				

_			<u> </u>			
	Applicable series	Symbol	A, B port	P, E port	Applicable series	
		N1	One-touch fitting for ø1/8"	0		
	SV1000	N3	One-touch fitting for ø5/32"	One-touch	SV1000	
,		N7	One-touch fitting for ø1/4"	fitting for ø5/16"		
		N3	One-touch fitting for ø5/32"	0		
_	SV2000	N7	One-touch fitting for ø1/4"	One-touch	SV2000	
0		N9	One-touch fitting for ø5/16"	fitting for ø3/8"		
		N7	One-touch fitting for ø1/4"	One-touch		
2	SV3000	N9	One-touch fitting for ø5/16"	fitting for ø3/8"	SV3000	
_		N11	One-touch fitting for ø3/8"	1111111y 101 Ø3/6		
		N9	One-touch fitting for ø5/16"	One-touch		
2		N11	One-touch fitting for ø3/8"	fitting for ø3/8"		
_		02N	NPT 1/4	NPT 3/8		
	SV4000	03N	NPT 3/8	INP I 3/8	SV4000	
		02T	NPTF 1/4	NDTE 0/0		
		03T	NPTF 3/8	NPTF 3/8		
		М	A, B ports	mixed		

- * In the case of mixed specifications (M), indicate separately on the manifold specification sheet.
- * Port sizes of X, PE port for external pilot specifications (R, RS) are ø4 (metric), ø5/32" (inch) for SV1000/2000 and ø6 (metric) and ø1/4" (inch) for SV3000/4000.





Cassette base manifold



Manifold Specifications

App	olicable series	SV1000	SV2000				
Manifold type		Stacking type cass	sette base manifold				
1 (P: SUP)/3,	5 (E: EXH) type	Common SUP, EXH					
Valve stations	s (maximum)	18 stations	20 stations				
Max. number	of solenoids	18 points	26 points				
	1(P), 3/5(E) port	C8, N9	C10, N11				
Port size	4(A) 2(B) port	C3, C4, C6	C4, C6, C8				
	4(A), 2(B) port	N1, N3, N7	N3, N7, N9				

be easily done by lever operation.

Flow Characteristics Port size Flow characteristics Model 1, 5, 3 4.2 $1 \rightarrow 4/2 \ (P \rightarrow A/B)$ $4/2 \rightarrow 3/5 \text{ (A/B} \rightarrow \text{E)}$ C [dm3/(s·bar)] Cv C [dm3/(s·bar)] Cv (P, EA, EB) (A, B) b b SS5V1-16 0.22 C8 C6 0.89 0.22 0.98 0.21 0.23 SS5V2-16 C10 C8 2.3 0.28 0.50 2.7 0.18 0.56



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

Tie-rod base manifold



• 34 pins connector allows up to 16 stations with double solenoids.

Manifold Specifications

App	licable series	SV1000	SV1000 SV2000 SV3000 SV4						
Manifold type			Tie-rod bas	e manifold					
1 (P: SUP)/3, 5 (E	E: EXH) type		Common S	SUP, EXH					
Valve stations (ma	aximum)	20 stations							
Max. number of s	olenoids		32 points						
	1(P), 3/5(E) port	C8, N9	C10, N11	C12, N11	C12, N11, 03				
Port size	4(A), 2(B) port	C3, C4, C6	C4, C6, C8	C6, C8, C10	C8, C10, C12				
	4(A), 2(B) port	N1, N3, N7	N3, N7, N9	N7, N9, N11	N9, N11, 02, 03				

Flow Characteristics

	Port	size			Flow char	racteristics				
Model	1, 5, 3	4, 2		$1 \rightarrow 4/2(P \rightarrow A/B)$		4	$1/2 \rightarrow 3/5 (A/B \rightarrow E)$	<u>:</u>)		
	(P, EA, EB)	(A, B)	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv		
SS5V1-10	C8	C6	0.98	0.26	0.24	1.1	0.35	0.28		
SS5V2-10	C10	C8	2.1	0.20	0.46	2.4	0.18	0.48		
SS5V3-10	C12	C10	4.2	0.22	0.91	4.3	0.21	0.93		
SS5V4-10	C12	C12	6.2	0.19	1.3	7.0	0.18	1.6		

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

Enclosure of Manifold Variations (Common for cassette base and tie-rod base)

(Common to Cassonia Base and In	, , , , , , , , , , , , , , , , , , , ,
Series	Enclosure (Based on IEC529)
Series EX500 Decentralized serial wiring	IP67 *
Series EX250 Serial wiring with input/output onit	IP67
Series EX120 Dedicated output serial wiring	Dusttight (IP40)
For circular connector	IP67
D-sub connector	Dusttight (IP40)
Flat ribbon cable	Dusttight (IP40)

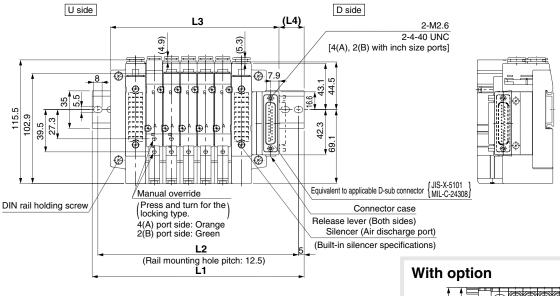
^{*} Enclosure of a gateway unit and input manifold is IP65.

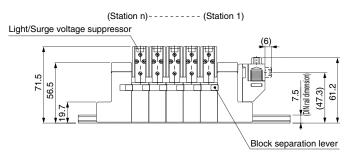
Dimensions: Series SV2000 for D-sub Connector

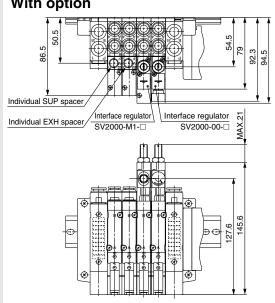
- Cassette base manifold: SS5V2-16FD 1/2 Stations | U | (S, R, RS) C6, N7 | C8, N9
 - When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
 - External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

One-touch fitting [1(P), 3/5(E) port] Applicable tubing O.D.: ø10 ø3/8" (Pitch) P = 16 17.5 35 (Lateral connector entry) One-touch fitting [4(A), 2(B) port] Applicable tubing O.D.: ø4, ø5/32" ø6, ø1/4" ø8, ø5/16"

One-touch fitting [PE: Pilot EXH port] Applicable tubing O.D.: ø4 ø5/32" With External Pilot Specifications One-touch fitting [X: External pilot port] Applicable tubing O.D.: ø4 ø5/32"



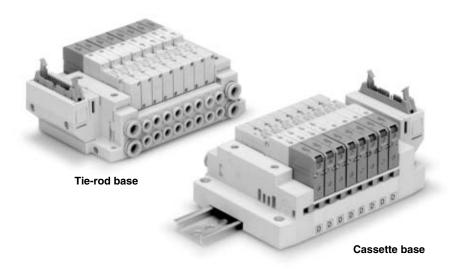




L Dimension	'n	: Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	148	160.5	173	198	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	423	435.5
L2	137.5	150	162.5	187.5	200	212.5	225	250	262.5	275	300	312.5	325	337.5	362.5	375	387.5	412.5	425
L3	109.5	125.5	141.5	157.5	173.5	189.5	205.5	221.5	237.5	253.5	269.5	285.5	301.5	317.5	333.5	349.5	365.5	381.5	397.5
L4	22.5	20.5	19	23.5	21.5	20	18	22.5	21	19	23.5	22	20	18.5	23	21	19.5	24	22

Flat Ribbon Cable Connector



Cassette base manifold SV1000/SV2000

Applicable series

Tie-rod base manifold SV1000/SV2000/SV3000/SV4000

• Number of connectors: 26, 20, 10 pins

• With strain relief Conforming to MIL-C-83503 SV

SZ

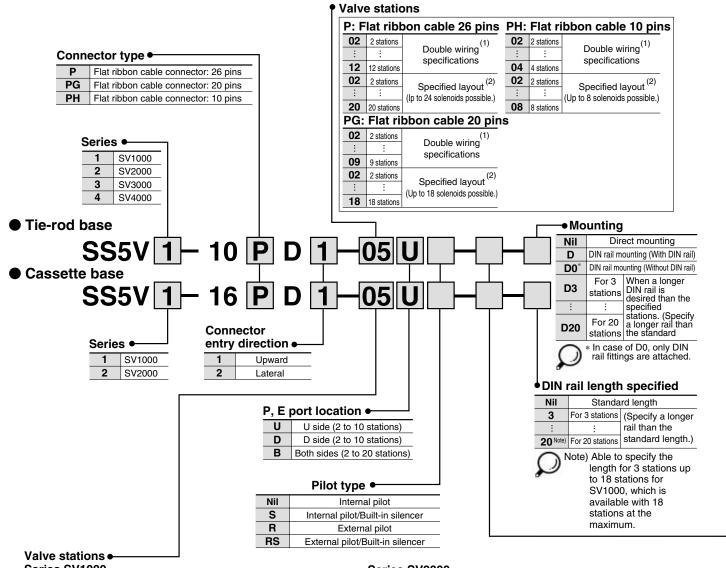
SY

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Flat Ribbon Cable Connector Series SV

How to Order



Series SV1000 P: Flat ribbon cable 26 pins PH: Flat ribbon cable 10 pins

02	2 stations	(1)	02	2 stations	Double wiring (1)
:	:	Double wiring (1)	:	;	specifications
09	9 stations	specifications	04	4 stations	opodilioationo
02	2 stations	Specified layout (2)	02	2 stations	Consisted layout (2)
÷	:	(Up to 18 solenoids possible.)	:	:	Specified layout ⁽²⁾ (Up to 8 solenoids possible.)
18	18 stations		08	8 stations	(Op to 0 soleriolds possible.)

PG: Flat ribbon cable 20 pins

		<u> </u>
02	2 stations	D (1)
:	:	Double wiring ⁽¹⁾ specifications
09	9 stations	specifications
02	2 stations	0 ''' 11 (2)
:	:	Specified layout ⁽²⁾ (Up to 18 solenoids possible.)
18	18 stations	(Up to 16 soletiolds possible.)

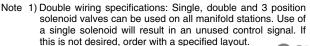
Series SV2000

P: F	lat ribl	oon cable 26 pins	PH: Flat ribbon cable 10 pins					
02	2 stations	- (1)	02	2 stations	- (1)			
:	:	Double wiring (1)	:	:	Double wiring (1)			
12	12 stations	specifications	04	4 stations	specifications			
02	2 stations	Specified layout (2)	02	2 stations	Specified layout (2)			
:	:	(Up to 24 solenoids possible.)	:	:	(Up to 8 solenoids possible.)			
		(Op to 24 solcholds possible.)			(Op to 0 solcholds possible.)			

08 8 stations

20 20 stations PG: Flat ribbon cable 20 pins

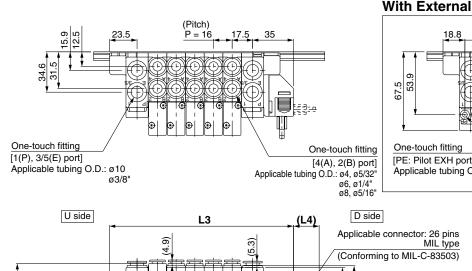
02	2 stations	D (1)				
:	÷	Double wiring ⁽¹⁾ specifications				
09	9 stations	specifications				
02	2 stations	0 (2)				
:	:	Specified layout ⁽²⁾ (Up to 18 solenoids possible.)				
18	18 stations					

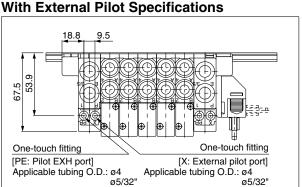


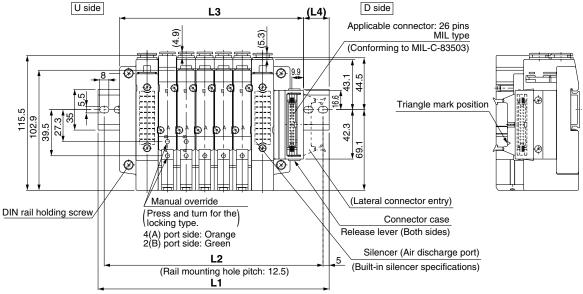
Note 2) Specified layout: Indicate wiring specifications on a manifold specification sheet.

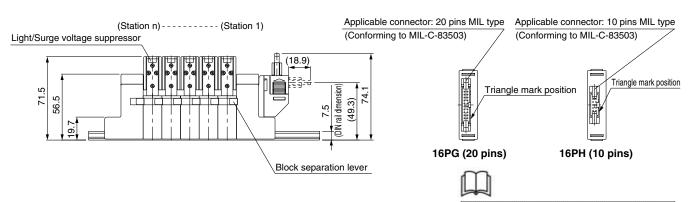
Dimensions: Series SV2000 for Flat Ribbon Cable

- Cassette base manifold: SS5V2-16 PG PH D 1 Stations B (S, R, RS) C6, N3 C6, N7 C8, N9
 - When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
 - External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.









Refer to page 1-2-70 (compliant for D-sub connector) for dimensions with interface regulator and individual SUP/EXH spacer.

23

21.5

24

L Di	L Dimension n: Station							Stations											
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	148	160.5	173	198	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	423	435.5
L2	137.5	150	162.5	187.5	200	212.5	225	250	262.5	275	300	312.5	325	337.5	362.5	375	387.5	412.5	425
L3	109.5	125.5	141.5	157.5	173.5	189.5	205.5	221.5	237.5	253.5	269.5	285.5	301.5	317.5	333.5	349.5	365.5	381.5	397.5

23

22.5

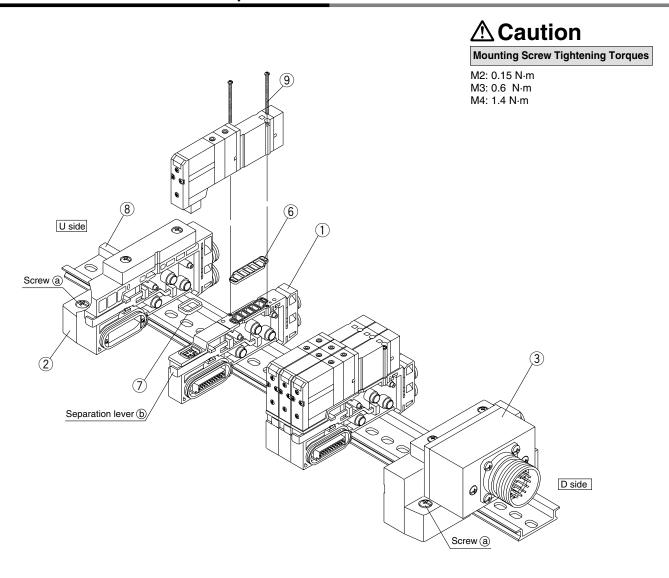
22

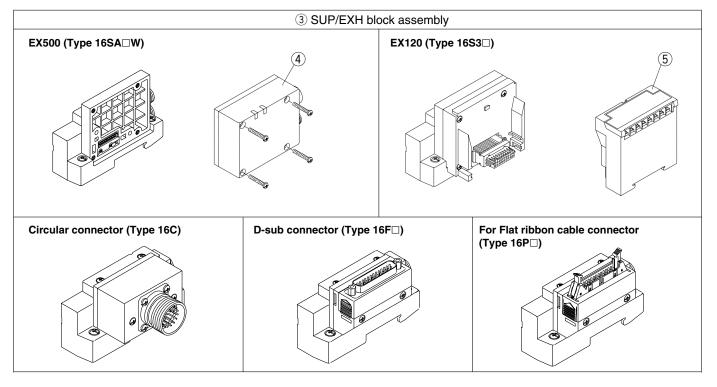
20

24

22

Type 16: Cassette Base Manifold Exploded View





1) Manifold Block Assembly Part No.

Series	Wiring specifications	Manifold block assembly part no.	Note				
SV1000	Single	SV1000-50-3A-□□	C3: With One-touch fitting for ø3.2 N1: One-touch fitting for ø1/8" C4: With One-touch fitting for ø4 N3: One-touch fitting for ø5/32"				
CV 1000	Double 61/1000 50 44 00		C6: With One-touch fitting for Ø6 N7: One-touch fitting for Ø1/4" (Gaskets $\textcircled{6}$ and $\textcircled{7}$ are included.)				
SV2000	Single	SV2000-50-3A-□□	C4: With One-touch fitting for ø4 N3: One-touch fitting for ø5/32" C6: With One-touch fitting for ø6 N7: One-touch fitting for ø1/4"				
	Double	SV2000-50-4A-□□	C8: With One-touch fitting for ø8 N9: One-touch fitting for ø5/16" (Gaskets ⑥ and ⑦ are included.)				

Upward

Lateral

SUP/EXH block assembly specifications

2

(D-sub, flat types only)

30	For EX500 (decentralized serial)
32	For circular connector
33	D-sub connector
34	For flat ribbon cable connector (26 pins)
35	For flat ribbon cable connector (20 pins)
36	For flat ribbon cable connector (10 pins)
38	For fX120 (dedicated output serial)

^{*} Since EX500 and EX120 type SI units are not included, order them separately.

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SV1000

SV2000

All series

N11 One-touch fitting for ø3/8"

Internal pilot specifications

Internal pilot/Built-in silencer

External pilot specifications

External pilot/Built-in silencer

* "00" (Plug) is not available for S, R and RS types.

00 Plug

Pilot specifications

Nil

S

R

RS

No.	Description	Part	no.	Note	
INO.	Description	SV1000	SV2000	Note	
4	Series EX500 SI unit	Refer to pa	age 1-2-26.		
5	Series EX120 SI unit	Refer to page 1-2-44.			
6	Gasket	SX3000-57-4	SX5000-57-6		
7	Connector gasket	SX3000-146-2			
8	DIN rail	VZ1000	-11-1-□	Refer to DIN rail dimension tables on page 1-2-97.	
(9)	Round head combination screw	SX3000-22-2	SV2000-21-1		
9)	Hourid flead combination screw	(M2 x 24)	(M3 x 30)		

Type 16: Cassette Base Manifold

How to increase manifold bases (Type 16)

- (1) Loosen the screws (a) (2 pcs. on one side) that hold the manifold base onto the DIN rail.

 (When removing the manifold base from the DIN rail, loosen the holding screws at four locations.)
- (2) Using a flat head screwdriver, etc., pull the lever b forward on the manifold block assembly where a station is to be added, and disconnect the manifold block assemblies.
- (3) Attach the manifold block assembly to be added to the DIN rail as shown in the figure.

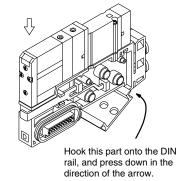


Figure. Block mounting procedure

(4) Connect the block assemblies by pressing them together, and push the lever in firmly until it stops.

Then secure them to the DIN rail by tightening the screws (a).

⚠ Caution (Tightening torque: 1.4 N⋅m)

⚠ Caution

Fitting assembly replacement

By replacing manifold fitting assemblies, it is possible to change the size of the A, B ports and P, E ports. To replace them, Remove the clip with a flat head screwdriver, etc., and pull out the fitting assembly. Mount the new fitting assembly by inserting it and then replacing the clip to its fully inserted position.

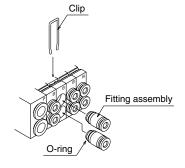
Fitting Assembly Part No.

	Port size	SV1000	SV2000
	One-touch fitting for ø3.2	VVQ1000-50A-C3	_
	One-touch fitting for ø4	VVQ1000-50A-C4	VVQ1000-51A-C4
+	One-touch fitting for ø6	VVQ1000-50A-C6	VVQ1000-51A-C6
Port	One-touch fitting for ø8	_	VVQ1000-51A-C8
m .	One-touch fitting for ø1/8"	VVQ1000-50A-N1	_
Ą	One-touch fitting for ø5/32"	VVQ1000-50A-N3	VVQ1000-51A-N3
	One-touch fitting for ø1/4"	VVQ1000-50A-N7	VVQ1000-51A-N7
	One-touch fitting fo ø5/16"	_	VVQ1000-51A-N9
T	One-touch fitting for ø8	VVQ1000-51A-C8	_
Port	One-touch fitting for ø10	_	VVQ2000-51A-C10
Д,	One-touch fitting for ø5/16"	VVQ1000-51A-N9	_
ш	One-touch fitting for ø3/8"	_	VVQ2000-51A-N11

Note 1) Be careful to avoid damage or contamination of O-rings, as this can cause air leakage.

Note 2) When removing a fitting assembly from a valve, after removing the clip, attach tubing or a plug (KQ2P-□□) to the One-touch fitting, and pull it out while holding the tubing (or plug). If it is pulled out while holding the release button of the fitting assembly (resin part), the release button may be damaged.

Note 3) Be sure to shut off the power and air supplies before disassembly. Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.



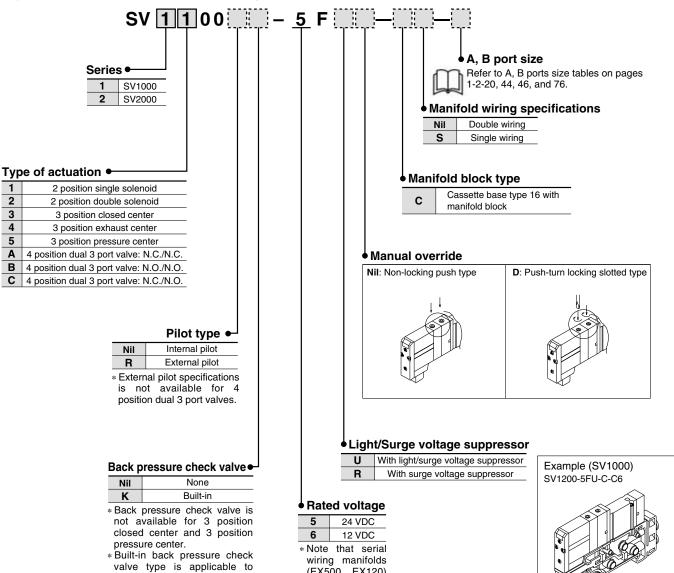
■ How to order cassette base type 16 solenoid valves with manifold block

[Series SV1000/SV2000]

• Type with manifold block is used when adding stations, etc.

series SV1000 only.

Refer to Precautions 2 on page 1-2-9.



(EX500, EX120)

are only available

with 24 VDC.

SV

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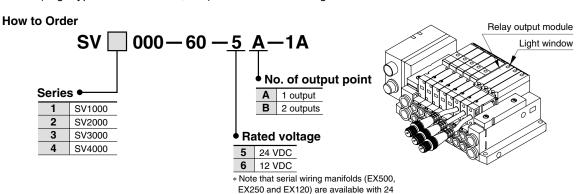
SYJ

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Manifold Option (Common for Type 16 and 10)

■ Relay output module

By adding a relay output module to a series SV manifold, devices up to 110 VAC, 3 A (large type solenoid valves, etc.) can be controlled together with Series SV valves.



Relay Output Module Specifications

Item	Specifications						
No. of output points	1 output [connector	with lead wire (M12)]	2 outputs [connector with lead wire (M12)]				
	4 pins connector (M12) plug		4 pins connector (M12) plug				
Output type	1. — 2. Output A 3. — 4. Output A Contact type ("a" contact)	2 1 3 4 A Relay output module side pin arrangement	1. Output B 2. Output A 3. Output B 4. Output A Contact type ("a" contact)	1 2 1 3 3 4 Relay output module side pin arrangement			
Load voltage	110 VAC	30 VDC	110 VAC	30 VDC			
Load current	3 A	3 A	0.3 A	1 A			
Indicator light	Orai	nge	A side: Orange B side: Green				
Enclosure	Based on IP67 (IEC529)						
Current consumption	20 mA or less						
Polarity	Non-polar						
weight (g)		4	8				

■ Y type connector

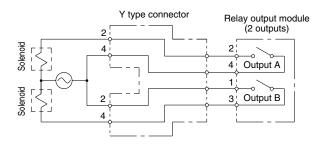
Used to branch a two output relay output module to two separate systems.

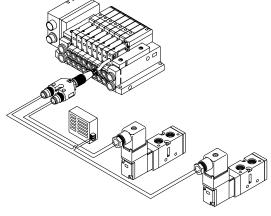
How to Order

EX500 - ACY00 - S



Relay output module and Y type connector wiring example

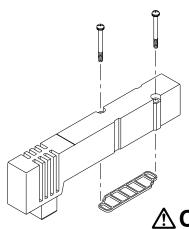




Manifold Option

■ Blanking plate assembly

Used in situations where valves will be added in the future.



Series	Blanking plate assembly part no.
SV1000	SV1000-67-1A
SV2000	SV2000-67-1A
SV3000	SV3000-67-1A
SV4000	SV4000-67-1A

Caution

Mounting screw tightening torques

M2: 0.15 N·m M3: 0.6 N·m M4: 1.4 N·m

■ SUP/EXH block disk

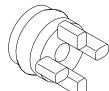
[SUP block disk]

By placing a SUP block disk in a manifold valve's pressure supply passage, two different high and low pressures can be supplied to one manifold.

[EXH block disk]

By installing an EXH block disk in a manifold valve's exhaust passage, the valve's exhaust can be separated so that it will not affect other valves. It can also be used on a manifold with mixed positive pressure and vacuum.

(Two pieces are required to block EXH on both sides. However, Series SV1000 and 2000 type 10 manifolds require only one piece.)





Cassette base type 16



Tie-rod base type 10

Series	Manifold Model	SUP block disk	EXH block disk
SV1000	10	SV1000-59-1A	SV1000-59-2A
571000	16	SX3000-77-1A	SX3000-77-1A
SV2000	10	SV2000-59-1A	SV2000-59-2A
372000	16	SV2000-59-3A	SV2000-59-3A
SV3000	10	SV3000-59-1A	SV3000-59-1A
SV4000	10	SY9000-57-1A	SY9000-57-1A

■ Label for block disk

These labels are attached to manifolds in which SUP and EXH block disks have been installed, in order to identify the installed locations. (Three sheets each included.)

SV1000 - 74 - 1A

Label for SUP block disk



block disk

 $\mathsf{E} \mid \mathsf{E}$

Label for EXH

Label for SUP/EXH block disk



SV

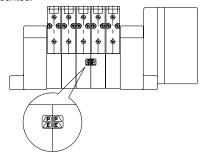
SZ

SY

SYJ

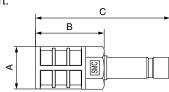
SX

* 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

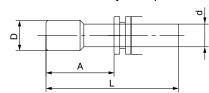
This silencer can be quickly mounted on the manifold's E (exhaust) port.



Series	Model	Effective area	Α	В	С
SV1000 (For Ø8)	AN203-KM8	14 mm ²	ø16	26	51
OV(0000 (F10)	AN200-KM10	26 m ²	ø22	53.8	80.8
SV2000 (For ø10)	AN300-KM10	30 mm ²	ø25	70	97
SV3000 SV4000 (For Ø12)	AN300-KM12	41 mm ²	ø25	70	98

■ Plug (White)

These are inserted in unused cylinder ports and P, E ports.



Applicable fitting size d	Model	Α	L	D
ø4	KQP-04	16	32	ø6
ø6	KQP-06	18	35	ø8
ø8	KQP-08	20.5	39	ø10
ø10	KQ2P-10	22	43	ø12
ø12	KQ2P-12	24	44.5	ø14
ø1/8"	KQ2P-01	16	31.5	ø5
ø5/32"	KQ2P-03	16	32	ø6
ø1/4"	KQ2P-07	18	35	ø8.5
ø5/16"	KQ2P-09	20.5	39	ø10
ø3/8"	KQ2P-11	22	43	ø11.5

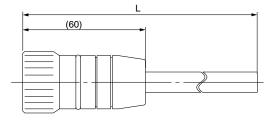
Manifold Option

■ Circular connector/Cable assembly (26 pins)

AXT100 – MC26 – □

Lead Wire Length

Part no.	L dimension
AXT100-MC26-015	1.5 m
AXT100-MC26-030	3 m
AXT100-MC26-050	5 m



Plug terminal no. (arrangement as seen from lead wire side)



Circular Connector Cable Assembly Terminal No.

① Black None ② Brown None ③ Red None ④ Orange None ⑤ Yellow None ⑥ Pink None ⑥ Pink None ⑦ Blue None ⑧ Gray Black ⑩ White Black ⑪ White Red ⑫ Yellow Red ⑪ Yellow Black ⑪ Yellow Black ⑪ Pink Black ⑪ Pink Black ⑩ Purple None ⑩ Orange Black ⑩ Pink Red ⑩ Pink Red ⑩ Pink Red ⑩ Red White ② Pink Red ② Black White ② Black	Terminal no.	Lead wire color	Dot marking
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 ⑪ Yellow Black ⑬ Pink Black ⑬ Pink Black ⑪ Purple None ⑬ Gray None ⑫ Red White ② Red White ② Pink Red ② Pink Red ② Pink Red ② Black White	1)	Black	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 20 Red White 21 Brown White 22 Pink Red 23 Gray Red 24 Black White	2	Brown	None
⑤ Yellow None ⑥ Pink None ⑦ Blue None ⑧ Purple White ⑨ Gray Black ⑩ White Black ⑪ White Red ⑪ Yellow Red ⑪ Yellow Black ⑮ Pink Black ⑯ Blue White ⑰ Purple None ⑱ Orange Black ⑩ Red White ② Red White ② Pink Red ② Gray Red ② Gray Red ② Black White	3	Red	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	4	Orange	None
Tolerance 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 20 Red White 21 Brown White 22 Pink Red 23 Gray Red 24 Black White	(5)	Yellow	None
® 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 20 Red White 21 Brown White 22 Pink Red 23 Gray Red 24 Black White	6	Pink	None
⑤ Gray Black ⑥ White Black ⑥ White Red ⑥ Yellow Red ⑥ Pack Black ⑥ Blue White ⑥ Blue White ⑦ Purple None ⑥ Gray None ⑨ Orange Black ② Red White ② Pink Red ② Gray Red ② Black White	7	Blue	None
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	8	Purple	White
(1) 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	9	Gray	Black
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	10	White	Black
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	11)	White	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	12	Yellow	Red
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	13	Orange	Red
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	14	Yellow	Black
17 Purple None 18 Gray None 19 Orange Black 20 Red White 21 Brown White 22 Pink Red 23 Gray Red 24 Black White	15		Black
® Gray None 19 Orange Black 20 Red White 21 Brown White 22 Pink Red 23 Gray Red 24 Black White	16	Blue	White
(9) Orange Black 20) Red White 21) Brown White 22) Pink Red 23 Gray Red 24 Black White	17	Purple	None
20 Red White 21 Brown White 22 Pink Red 23 Gray Red 24 Black White	18	Gray	None
②1 Brown White ②2 Pink Red ②3 Gray Red ②4 Black White	19	Orange	Black
Ø Pink Red Ø Gray Red Ø Black White	20	Red	White
23 Gray Red 24 Black White	21)	Brown	White
24 Black White	22	Pink	Red
<u> </u>	23	Gray	Red
②5 White None	24	Black	White
	25	White	None

Note) Terminal no. 26 is connected to 25 inside the connector.

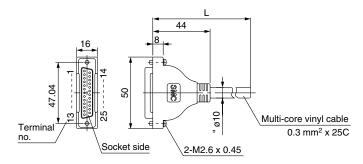
■ D-sub connector/Cable assembly (25 pins)

AXT100 - DS25 - □

Lead Wire Length

Part no.	L dimension
AXT100-DS25-015	1.5 m
AXT100-DS25-030	3 m
AXT100-DS25-050	5 m

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



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

Circular Connector, D-sub Connector Cable Assembly Electric Characteristics

Item	Characteristics
Conductor resistance W/km, 20°C	65 or less
Withstand voltage VAC, 1 min.	1000
Insulation resistance, M/km, 20°C	5 or less

Note) The minimum inside bending radius for each cable is 20 mm.

SV

SZ

SY

SYJ

SX

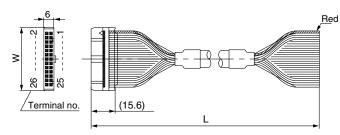
Manifold Option

■ Flat ribbon cable/Cable assembly

AXT100 – FC □ **–** □

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 conforming to MIL-C-83503.



Connector manufacturers' example

- · Hirose Electric Co., Ltd.
- · Sumitomo 3M Limited
- · Fujitsu Limited

Weight (g) 224

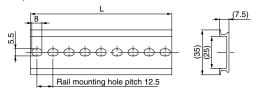
227.2 230.4 233.5 236.7 239.8 243

- · Japan Aviation Electronics Industry, Ltd.
- \cdot J.S.T. Mfg. Co., Ltd.

■ SV1000/2000 and Series EX500 input unit DIN rail dimensions and weights

VZ1000 − 11 − 1 − □

 \ast As for $\square,$ enter the number from the DIN rail dimensions table.

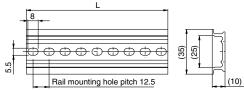


No.	0	1	2	3	4	5	6	7	8	9
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5
Weight (g)	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9
No.	10	11	12	13	14	15	16	17	18	19
L dimension	223	235.5	248	260.5	273	285.5	298	310.5	323	335.5
Weight (g)	40.1	42.4	44.6	46.9	49.1	51.4	53.6	55.9	58.1	60.4
No.	20	21	22	23	24	25	26	27	28	29
L dimension	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5
Weight (g)	62.5	64.9	67.1	69.4	71.6	73.9	76.1	78.4	80.6	82.9
No.	30	31	32	33	34	35	36	37	38	39
L dimension	473	485.5	498	510.5	523	535.5	548	560.5	573	585.5
Weight (g)	85.1	87.4	89.6	91.9	94.1	96.4	98.6	100.9	103.1	105.4
No.	40	41	42	43	44	45	46	47	48	49
				00-	C40	200 -	070		000	710.5
L dimension	598	610.5	623	635.5	648	660.5	673	685.5	698	
L dimension Weight (g)	598 107.6	610.5 109.9	623 112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9
Weight (g)	107.6	109.9	112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9
Weight (g)	107.6 50	109.9 51	112.1 52	114.4 53	116.6 547	118.9 55	121.1 56	123.4 57	125.6 58	127.9 59
Weight (g) No. L dimension	107.6 50 723	109.9 51 735.5	112.1 52 748	114.4 53 760.5	116.6 547 731	118.9 55 785.5	121.1 56 798	123.4 57 810.5	125.6 58 823	127.9 59 835.5
No. L dimension Weight (g)	107.6 50 723 130.1	109.9 51 735.5 132.4	112.1 52 748 134.6	114.4 53 760.5 136.9	116.6 547 731 39.1	118.9 55 785.5 141.4	121.1 56 798 143.6	123.4 57 810.5 145.9	125.6 58 823 148.1	127.9 59 835.5 150.4
No. L dimension Weight (g) No.	107.6 50 723 130.1	109.9 51 735.5 132.4 61	112.1 52 748 134.6	114.4 53 760.5 136.9	116.6 547 731 39.1 64	118.9 55 785.5 141.4 65	121.1 56 798 143.6 66	123.4 57 810.5 145.9	125.6 58 823 148.1	127.9 59 835.5 150.4
No. L dimension Weight (g) No. L dimension	107.6 50 723 130.1 60 848	109.9 51 735.5 132.4 61 860.5	112.1 52 748 134.6 62 873	114.4 53 760.5 136.9 63 885.5	116.6 547 731 39.1 64 898	118.9 55 785.5 141.4 65 910.5	121.1 56 798 143.6 66 923	123.4 57 810.5 145.9 67 935.5	125.6 58 823 148.1 68 948	127.9 59 835.5 150.4 69 960.5
Weight (g) No. L dimension Weight (g) No. L dimension Weight (g)	107.6 50 723 130.1 60 848 152.6	109.9 51 735.5 132.4 61 860.5 154.9	112.1 52 748 134.6 62 873	114.4 53 760.5 136.9 63 885.5	116.6 547 731 39.1 64 898	118.9 55 785.5 141.4 65 910.5	121.1 56 798 143.6 66 923	123.4 57 810.5 145.9 67 935.5	125.6 58 823 148.1 68 948	127.9 59 835.5 150.4 69 960.5

■ SV3000 and 4000 DIN rail dimensions and weights

VZ1000 − 11 − 4 − □

* As for \square , enter the number from the DIN rail dimensions table.

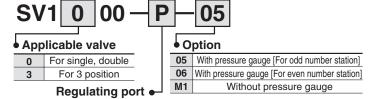


No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	233.5	248	260.5	273	285.5	298	310.5	323	335.5	348
Weight (g)	24.8	28	31.1	34.3	37.4	40.6	43.8	46.9	50.1	53.3	56.4	59.6	62.7	65.9	69.1	72.2	75.4	78.6	81.7	84.9	88
No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
L dimension	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5
Weight (g)	91.2	94.4	97.5	100.7	103.9	107	110.2	113.3	116.5	119.7	122.8	126	129.2	132.3	135.5	138.6	141.8	145	148.1	151.3	154.5
No.	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
L dimension	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823	835.5	848	860.5	873
Weight (g)	157.6	160.8	163.9	167.1	170.3	173.4	176.6	179.8	182.9	186.1	189.2	192.4	195.6	198.7	201.9	205.1	208.2	211.4	214.5	217.7	220.9
No.	63	64	65	66	67	68	69	70	71												
L dimension	885.5	898	910.5	923	935.5	948	960.5	973	985.5												

Manifold Option

■ Interface regulator How to order interface regulator

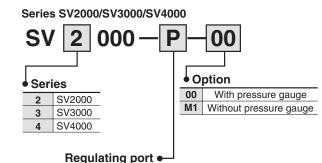




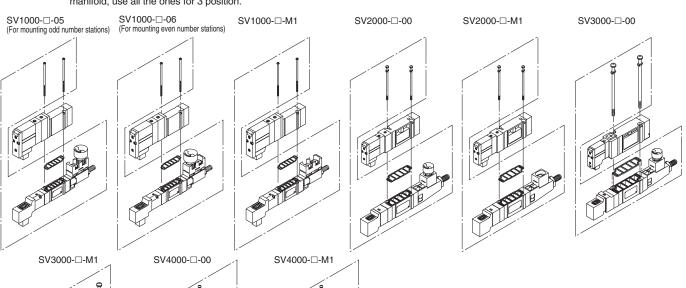
Р	P port
A1	A port (P controlled type, A port regulation)
B1	B port (P controlled type, B port regulation)

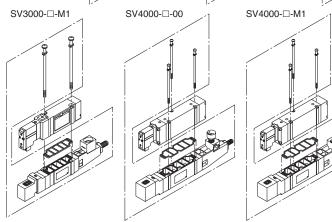
Note) In the case of Series SV1000 with a pressure gauge when mounting on the manifold, use caution that the part numbers are different between the odd no. stations and the even no. stations to avoid pressure gauges from interfering from each others.

Note) Use caution that the part numbers will be differed depending on the one for single/double and 3 position due to the different length of solenoid valves. Also, when at least the one for 3 position is included in the same manifold, use all the ones for 3 position.

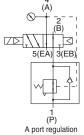


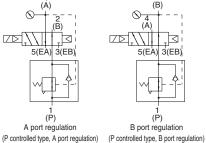
	3111
Р	P port
A1	A port (P controlled type, A port regulation)
B1	B port (P controlled type, B port regulation)

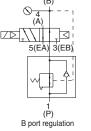




JIS Symbol	4 2 (A) (B)
	5(EA), 3(EB)
	(P) P port regulation







Accessory

Series	Round head combination screw	Gasket
SV1000	SX3000-22-9 (M2 x 39.5)	SX3000-57-4
SV2000	SV2000-21-7 (M3 x 53)	SX5000-57-6
SV3000	SV3000-21-4 (M4 x 57)	SX7000-57-5
SV4000	SV2000-21-8 (M3 x 69.5)	SY9000-11-2

⚠ Caution

Mounting Screw Tightening Torques

M2: 0.15 N·m M3: 0.6 N·m M4: 1.4 N·m

SV

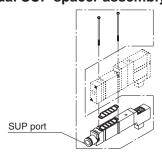
SZ

SY

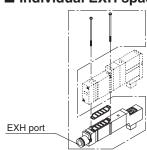
SYJ

Manifold Option

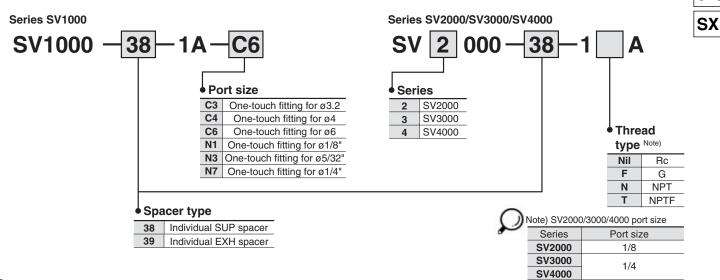
■ Individual SUP spacer assembly



■ Individual EXH spacer assembly



How to order individual SUP/EXH spacer assembly



Accessory

Series	Round head combination screw	Gasket
SV1000	SX3000-22-9	CV0000 F7 4
371000	(M2 x 39.5)	SX3000-57-4
SV2000	SV2000-21-6	SY5000-11-15
SV2000	(M3 x 46)	313000-11-13
SV3000	SV3000-21-3	SY7000-11-11
573000	(M4 x 53)	317000-11-11
SV4000	SV2000-21-5	SY9000-11-2
374000	(M3 x 60)	319000-11-2