

Valve Manifold Common Specifications Series SV



Manifold Specifications

	-			
Ap	plicable series	SV1000	SV2000	
Manifold type)	Stacking type case	sette base manifold	
1 (P: SUP)/3	, 5 (E: EXH) type	Common SUP, EXH		
Valve stations (maximum)		18 stations	20 stations	
Max. number	r of solenoids	18 points	26 points	
	1(P), 3/5(E) port	C8, N9	C10, N11	
Port size	4(A) 0(D) port	C3, C4, C6	C4, C6, C8	
	4(A), 2(B) port	N1, N3, N7	N3, N7, N9	

 Changing the number of stations can be easily done by lever operation.

Flow Characteristics

	Port	size			Flow char	acteristics			
Model	1, 5, 3	4, 2	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			4	$4/2 \rightarrow 3/5 (A/B \rightarrow 1)$	E)	
	(P, EA, EB)	(A, B)	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv	
SS5V1-16	C8	C6	0.89	0.22	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

Applicable series		SV1000	SV2000	SV3000	SV4000			
Manifold type		Tie-rod base manifold						
1 (P: SUP)/3, 5 (E: E	EXH) type	Common SUP, EXH						
Valve stations (maximum)		20 stations						
Max. number of sole	enoids	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			
		N1, N3, N7	N3, N7, N9	N7, N9, N11	N9, N11, 02, 03			

Flow Characteristics

Port size		Flow characteristics					
1, 5, 3	4, 2		$1 \rightarrow 4/2(P \rightarrow A/B)$			$4/2 \rightarrow 3/5(A/B \rightarrow E)$	
(P, EA, EB)	(A, B)	C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
C8	C6	0.98	0.26	0.24	1.1	0.35	0.28
C10	C8	2.1	0.20	0.46	2.4	0.18	0.48
C12	C10	4.2	0.22	0.91	4.3	0.21	0.93
C12	C12	6.2	0.19	1.3	7.0	0.18	1.6
	1, 5, 3 (P, EA, EB) C8 C10 C12	1, 5, 3 4, 2 (P, EA, EB) (A, B) C8 C6 C10 C8 C12 C10	1, 5, 3 4, 2 C [dm³/(s·bar)] (P, EA, EB) (A, B) C [dm³/(s·bar)] C8 C6 0.98 C10 C8 2.1 C12 C10 4.2	$ \begin{array}{c ccccc} 1, 5, 3 & 4, 2 & & 1 \rightarrow 4/2(P \rightarrow A/B) \\ \hline (P, EA, EB) & (A, B) & C \left[dm^{3}/(s \cdot bar) \right] & b \\ \hline C8 & C6 & 0.98 & 0.26 \\ \hline C10 & C8 & 2.1 & 0.20 \\ \hline C12 & C10 & 4.2 & 0.22 \\ \end{array} $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

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lote) 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)

•			
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.



Series SV Solenoid Valve Specifications



Made to Order Specifications (For details, refer to page 1-2-108.)

JIS Symbol

2 position single solenoid

$$\begin{array}{c|c} (A) & (B) \\ 4 & 2 \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \\ \\ (EA)(P)(EB) \end{array}$$

2 position double solenoid

3 position closed center

3 position exhaust center

3 position pressure center

4 position dual 3 port valve: N.C./N.C.

$$\begin{array}{c|c} (A) & (B) \\ (EA) & (EA) & (EB) \\ (EA) & (EA) & (EB) \\ (P) & (P) \end{array}$$

4 position dual 3 port valve: N.O./N.O.



$$\begin{array}{c|c} & & & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$$

Fluid			Air	
Internal pilot Operating	2 position single 4 position dual 3 port valve		0.15 to 0.7	
pressure range	2 positio	on double	0.1 to 0.7	
(MPa)	3 positio	on	0.2 to 0.7	
External pilot	Operatir	ng pressure range	-100 kPa to 0.7	
Operating pressure range (MPa)	2 positio 3 positio	on single, double on	0.25 to 0.7	
Ambient and	fluid tem	perature (°C)	-10 to 50 (No freezing. Refer to page 1-7-4.)	
Max. operating frequency	2 position single, double 4 position dual 3 port valve		5	
(Hz)	3 positio	on	3	
Manual avarrida			Non-locking push type	
ivianual oven	Manual override		Push-turn locking slotted type	
Pilot exhaust metho		Internal pilot	Common exhaust type for main and pilot valve	
FIIOL EXITAUSI	methou	External pilot	Pilot valve individual exhaust	
Lubrication			Not required	
Mounting orie	entation		Unrestricted	
Impact/Vibrat	ion resis	tance (ms ²)	150/30	
Enclosure			IP67 (Based on IEC529)	
Coil rated vol	tage		24 VDC, 12 VDC	
Allowable vol	tage fluc	tuation	±10% of rated voltage	
Power consu	mption		0.6 (With indicator light: 0.65)	
Surge voltage	e suppre	ssor	Zener diode	
Indiator light			LED	

and armature in both energized and de-energized states every once for each condition. (Values at the initial period) Vibration resisitance: No malfunction occured in a one-sweep test between 45 and 2000 Hz. Test was perfomed at both energized and deenergized states in the axial direction and at the right angles

to the main valve and armature. (Values at the initial period)

Response Time

Type of estuction	Response time (ms) (at the pressure of 0.5 MPa)					
Type of actuation	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 dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage)

Weight

Series	Type of actuation	Weight (g)
	Single solenoid	66
SV1000	Double solenoid	71
501000	3 position	73
	4 position dual 3 port	71
	Single solenoid	74
SV2000	Double solenoid	78
572000	3 position	83
	4 position dual 3 port	78
	Single solenoid	99
SV3000	Double solenoid	102
	3 position	110
	Single solenoid	186
SV4000	Double solenoid	190
	3 position	211
Note) Weight	of solenoid valve only	

Note) Weight of solenoid valve only.



SV

SZ

SY

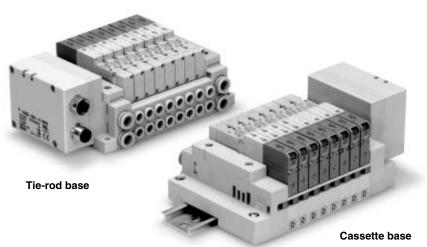
SYJ

SX

Decentralized Serial Wiring

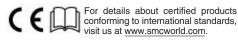
Series **EX500**

IP67 compliant



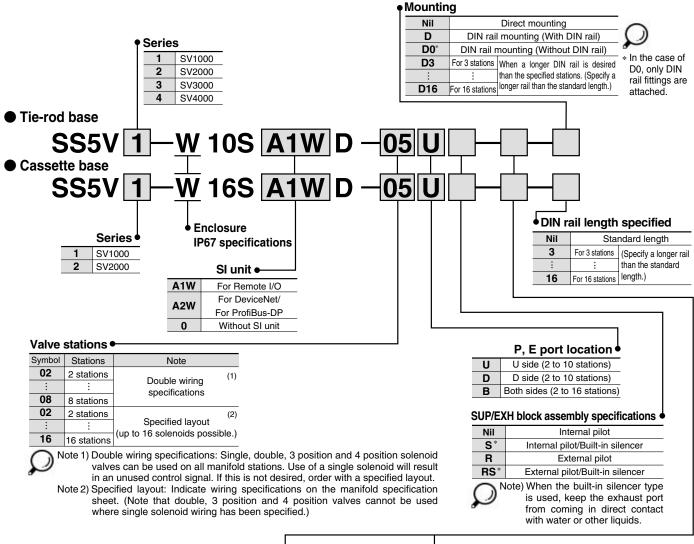
Applicable series	Cassette base manifold SV1000/SV2000
	Tie-rod base manifold SV1000/SV2000/SV3000/SV4000
	 Number of output points: 16 points EX500 gateway unit communication specifications Remote I/O, DeviceNet, PROFIBUS-DP

SV
SZ
SY
SYJ
SX



Series EX500 **Decentralized Serial Wiring** Series SV





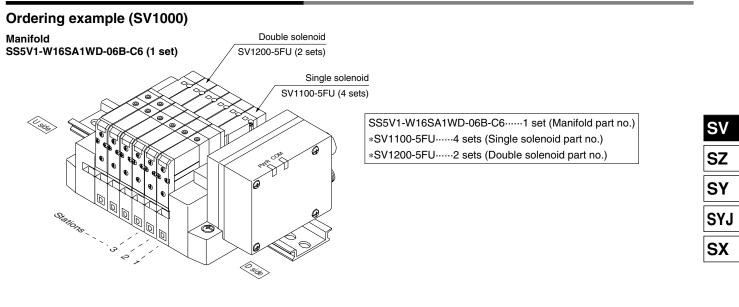
	А, В р	ort size (metric) 🜢		
	Symbol	A, B port	P, E port	Applicable series
	C3	One-touch fitting for ø3.2		
	C4	One-touch fitting for ø4	One-touch fitting for ø8	SV1000
	C6	One-touch fitting for ø6	inturing for Øo	
	C4	One-touch fitting for ø4	One touch	
	C6	One-touch fitting for ø6	One-touch fitting for ø10	SV2000
	C8	One-touch fitting for ø8		<u> </u>
	C6	One-touch fitting for ø6	One-touch	SV3000
In the second of university	C8	One-touch fitting for ø8	fitting ø12	
 In the case of mixed specifications (M), indicate 	C10	One-touch fitting for ø10	Inturing 012	
separately on the manifold	C8	One-touch fitting for ø8	One touch	
specification sheet.	C10	One-touch fitting for ø10	One-touch fitting ø12	
* Port sizes of X, PE port for	C12	One-touch fitting for ø12	Inting 012	
external pilot specifications (R, RS) are ø4 (metric), ø5/32" (inch) for SV1000/2000 and ø6	02	Rc 1/4	Rc 3/8	SV4000
	03	Rc3/8	RC 3/8	
	02F	G 1/4	G 3/8	
(metric) and ø1/4" (inch)	03F	G 3/8	G 3/0	
for SV3000/4000.	М	A, B ports mixed		

A, B port size (inch)

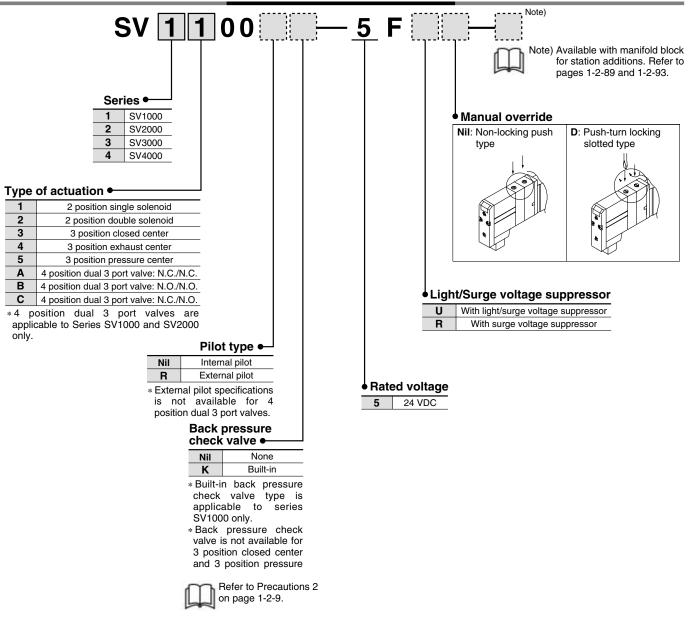
<u>,</u>				
Symbol	A, B port	P, E port	Applicable series	
N1	One-touch fitting for ø1/8"	One-touch		
N3	One-touch fitting for ø5/32"	fitting for	SV1000	
N7	One-touch fitting for ø1/4"	ø5/16"		
N3	One-touch fitting for ø5/32"	One-touch		
N7	One-touch fitting for ø1/4"	fitting for	SV2000	
N9	One-touch fitting for ø5/16"	ø3/8"		
N7	One-touch fitting for ø1/4"	One-touch		
N9	One-touch fitting for ø5/16"	fitting for	SV3000	
N11	One-touch fitting for ø3/8"	ø3/8"		
N9	One-touch fitting for ø5/16"	One-touch		
N11	One-touch fitting for ø3/8"	fitting for ø3/8"		
02N	NPT 1/4	NPT 3/8	SV4000	
03N	NPT 3/8	INFT 3/8		
02T	NPTF 1/4]	
03T	NPTF 3/8	NPTF 3/8		
М	A, B ports mixed			



How to Order Valve Manifold Assembly



How to Order Solenoid Valves







Gateway (GW) unit



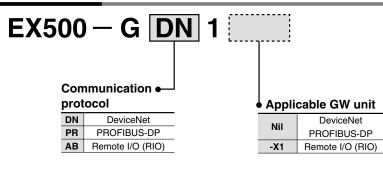
Specifications

Model	EX500-GAB1-X1	EX500-GDN1	EX500-GPR1			
Applicable PLC/Communication protocol	Rockwell Automation, Inc. PLC	DeviceNet Release 2.0	PROFIBUS-DP			
Communication speed	57.6 Kbit/sec, 115.2 Kbit/sec 230.4 Kbit/sec	125 Kbit/sec, 250 Kbit/sec 500 Kbit/sec	9.6/19.2/93.75/187.5/500 kbit/sec 1.5/3/6/12 Mbit/sec			
Rated voltage		24 VDC				
Power supply voltage range		control unit power supply: 24 VDC +10%/-5% (Powe	24 VDC ±10% r drop warning at approx. 20 V)			
Current consumption		200 mA or less				
No. of input/output points	Ma	ximum 64 inputs/64 o	utputs			
No. of input/output branches	4 branches (16 inputs/16 outputs per branch)					
Branch cable		8 core heavy duty cal	ble			
Branch cable length	5 m or le	ess (total extension 10) m or less)			
Communication connector	M12	2 connector (8 pins, S	Socket)			
Power connector	M	12 connector (5 pins,	Plug)			
Ambient operating temperature/humidity	+5 to +45°C/35 to 85% RH (No condensation)					
Enclosure	IP65					
Applicable standard	UL, CSA, CE					
Weight (g)	470					
* Communication cables and connectors are sold senarately						

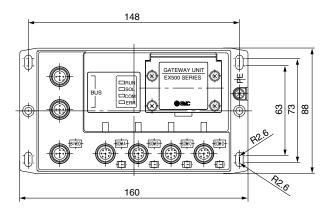
m

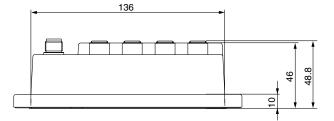
 Communication cables and connectors are sold separately. Refer to options on page 1-2-27.

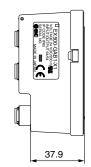
How to Order



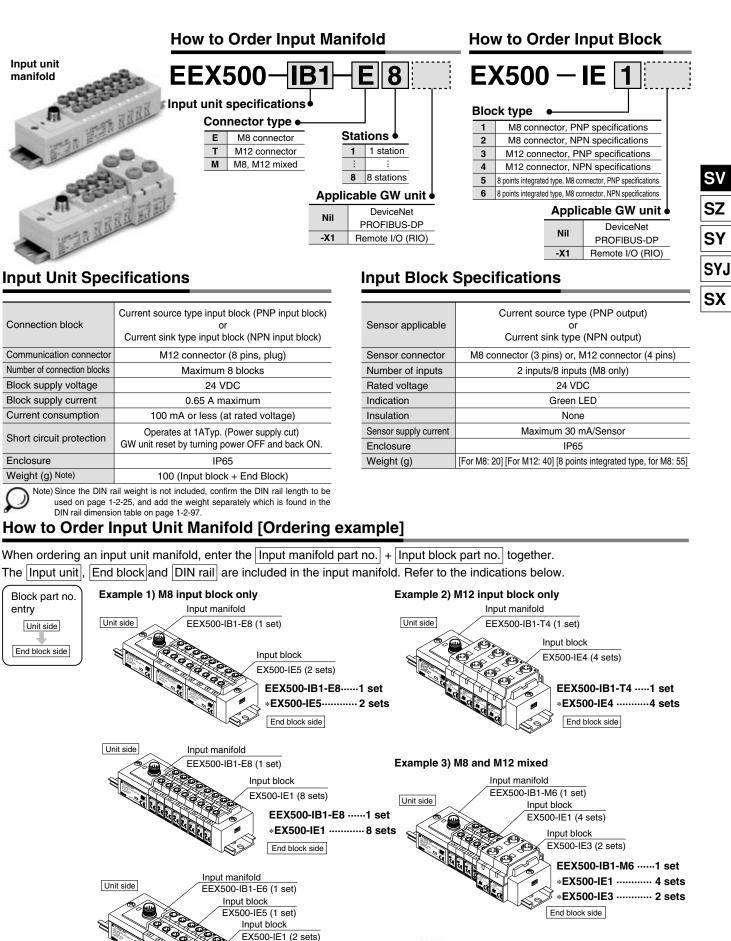
Dimensions







Series EX500 Decentralized Serial Wiring Series SV



EEX500-IB1-E61 set

*EX500-IE51 set

*EX500-IE12 sets

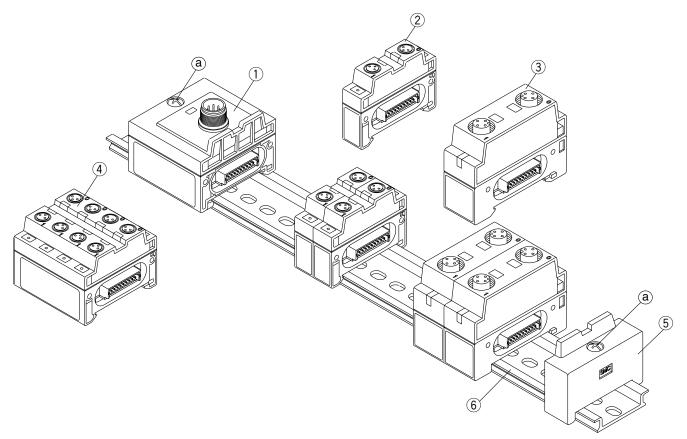
SMC

End block side

Note) • Since the 8 point integrated type input block is equivalent to the length of four stations on an M8 input block, pay attention to the number of stations on an input manifold.
• When an input block layout becomes complicated, indicate on the input unit manifold specification sheet.

1-2-23

Input Unit Manifold Exploded View



Component Parts

No.	Description	Par	t no.	Note	
INO.	Description	For standard	For RIO	Note	
1	Input unit	EX500-IB1	EX500-IB1-X1		
2	Input block (M8 connector)	EX500-IE EX500-IE X1		PNP specifications 1, NPN specifications 2	
3	Input block (M12 connector)	EX500-IE	EX500-IE□-X1	PNP specifications····□: 3, NPN specifications····□: 4	
(4)	8 input block (M8 connector)	EX500-IE EX500-IE X1		PNP specifications	
(5)	End block	EX500-EB1			
6	DIN rail	VZ1000-11-1-□		□: Length (Refer to page 1-2-97.)	

How to add input block stations

(1) Loosen the screws (a) (2 places) that hold the end block.

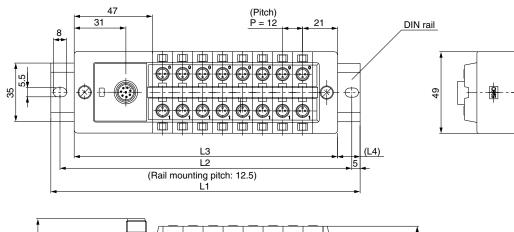
 $(\overset{v}{2})$ Separate the blocks at the locations where stations are to be added.

(3) Attach the additional blocks to the DIN rail, and connect the blocks so that they fit together securely.

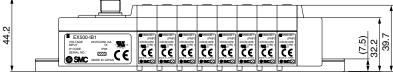
(4) While holding the blocks together so that there are no gaps between them, secure them to the DIN rail by tightening the screws (a). Note: Be sure to tighten the round head combination screw with the prescribed tightening torque. (0.6 N·m)

Input Unit Manifold Dimensions

Input block (M8) only

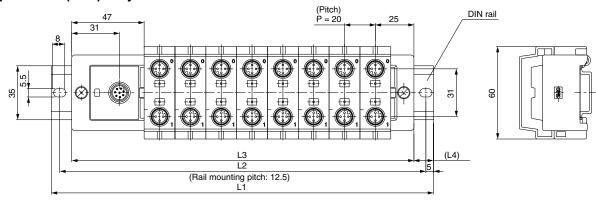


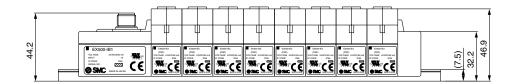
	<u> </u>
	SV
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Γ	SY
L	
	SYJ
Γ	SX
L	



_								(mm)
Stations	1	2	3	4	5	6	7	8
Rail length L1	98	110.5	123	135.5	148	160.5	173	185.5
Mounting pitch L2	87.5	100	112.5	125	137.5	150	162.5	175
Manifold length L3	74	86	98	110	122	134	146	158
L4	12	12	12.5	12.5	13	13	13.5	13.5

Input block (M12) only



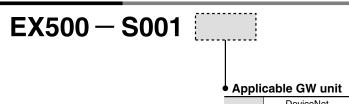


								(mm)
Stations	1	2	3	4	5	6	7	8
Rail length L1	110.5	123	148	173	185.5	210.5	223	248
Mounting pitch L2	100	112.5	137.5	162.5	175	200	212.5	237.5
Manifold length L3	82	102	122	142	162	182	202	222
L4	12	12	12.5	12.5	13	13	13.5	13.5



For valve specifications, refer to page 1-2-15.

How to Order SI Unit



NII DeviceNet PROFIBUS-DP

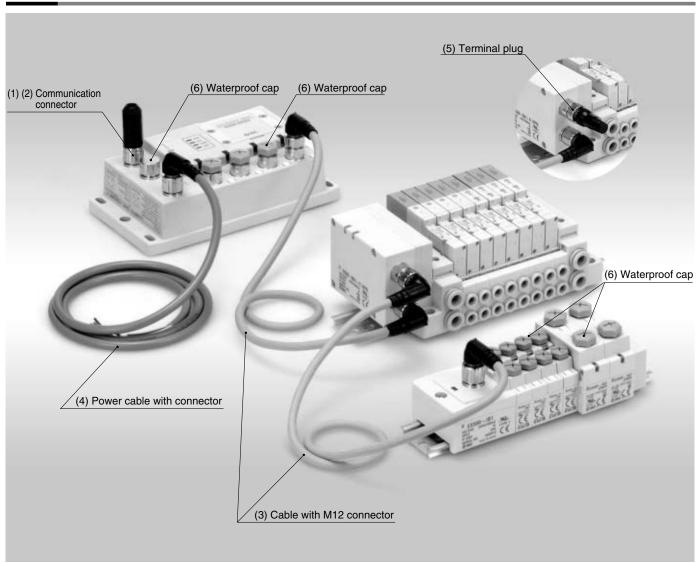
-X1 Remote I/O (RIO)

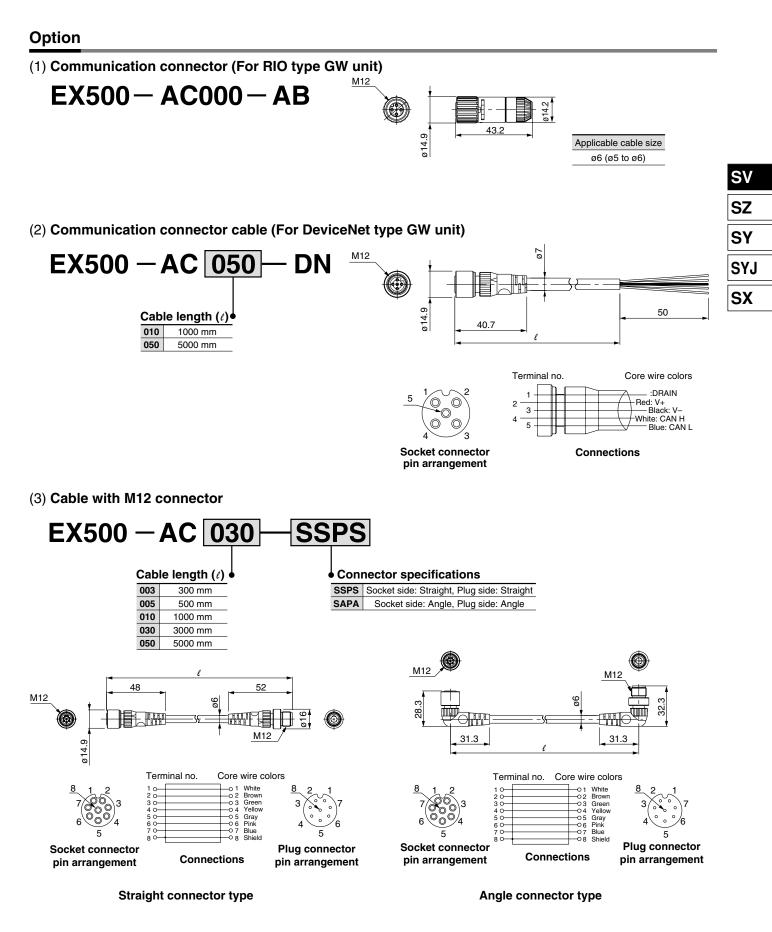
Specifications

Connection block	Solenoid valve (Single, Double) Relay output module (1 output, 2 outputs)
Communication connector	M12 connector (8 pins, Plug, Socket)
Connection block stations	Double solenoid valve Relay output module (2 points): Maximum 8 stations Single solenoid valve Relay output module (1 point): Maximum 16 stations
Block supply voltage	24 VDC
Block supply current	0.65 A maximum
Current consumption	100 mA or less (at rated voltage)
Enclosure Note)	IP65
Weight (g)	115

Note) A single SI unit of Series EX500 has an enclosure compliant with IP65. The IP67 protection can be achieved when it is mounted on a manifold.

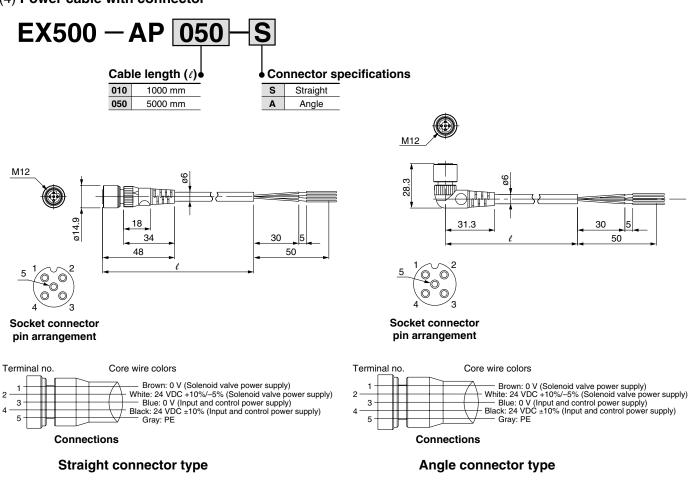
Option





Option

(4) Power cable with connector

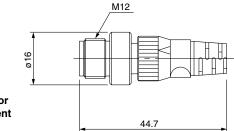


(5) Terminal plug

This is used where an input manifold (input unit/input block) is not being used. (If a terminal plug is not used, the GW unit is COM LED will not light up.)

EX500 - AC000 - S

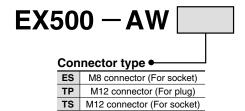




(6) Waterproof cap

Use this on ports that are not being used for a GW unit or input block. Use of this waterproof cap maintains the integrity of the IP65 enclosure. (Included with each input block.)

Note) Tighten the waterproof cap with the prescribed tightening torque. (For M8: 0.05 N·m, For M12: 0.1 N·m)





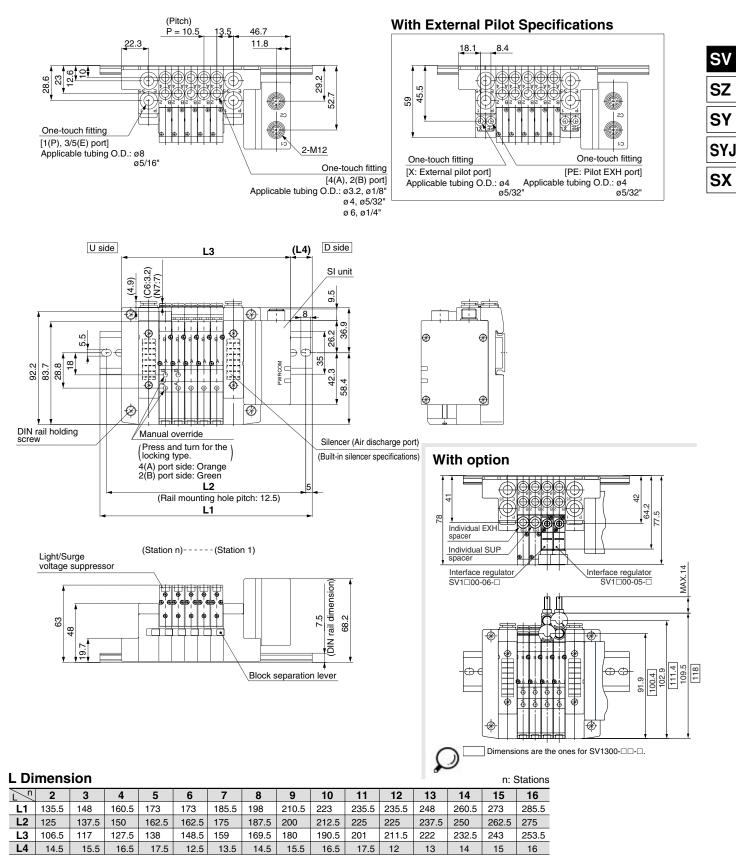
Waterproof cap



Dimensions: Series SV1000 for EX500 Decentralized Serial Wiring

• Cassette base manifold: SS5V1-W16SA \Box WD-Stations B_{B}^{U} (S, R, RS)- $C_{C4, N3}^{C3, N1}$

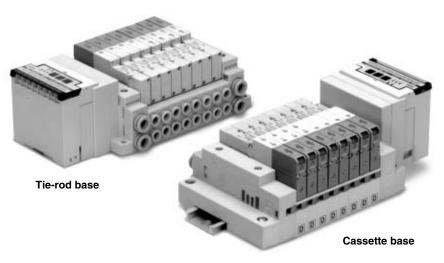
When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.





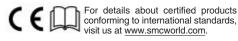
Dedicated Output Serial Wiring

Series **EX120**

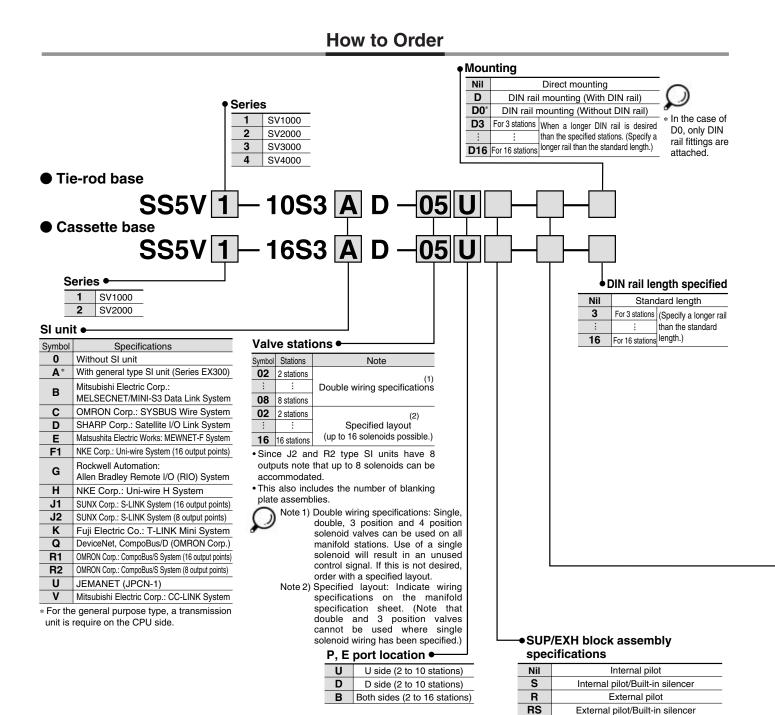


Anniachte ervier	Cassette base manifold SV1000/SV2000
Applicable series	Tie-rod base manifold SV1000/SV2000/SV3000/SV4000
	Number of outputs points: 16 points

SV
SZ
SY
SYJ
SX



Series EX120 **Dedicated Output Serial Wiring** Series SV

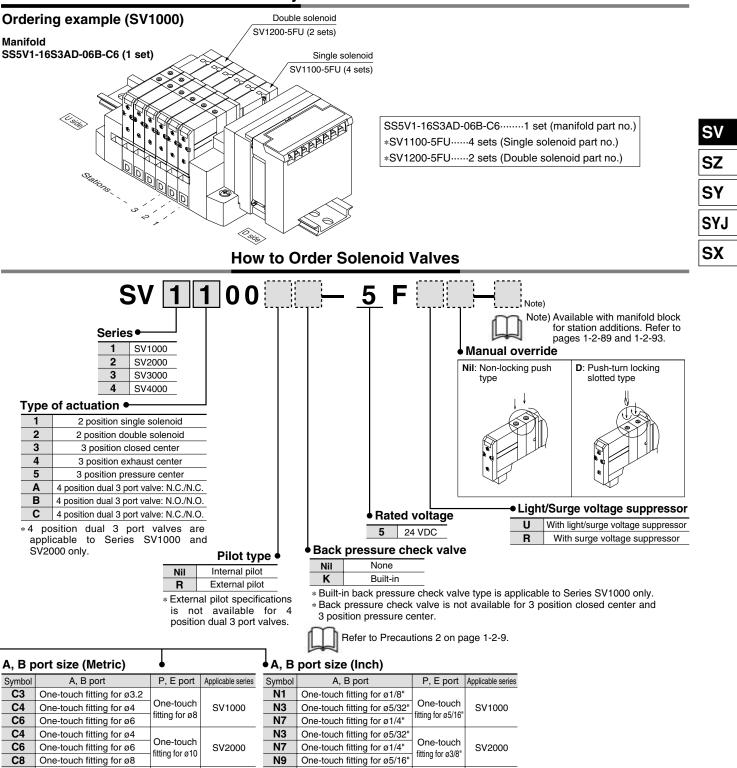


SI Unit Part No.

5101	iit Fait NO.						
Symbol	Specifications	For SS5V□-□□S3	Symbol	Specifications	For SS5VD-DDS3		
A *	With general type SI unit (Series EX300)	EX320-S001	н	NKE Corp.: Uni-wire H System	EX120-SUH1		
в	Mitsubishi Electric Corp.:	EX120-SMB1	J1	SUNX Corp.: S-LINK System (16 output points)	EX120-SSL1		
D	MELSECNET/MINI-S3 Data Link System	EX120-SIVID1	J2	SUNX Corp.: S-LINK System (8 output points)	EX120-SSL2		
С	OMRON Corp.: SYSBUS Wire System	EX120-STA1	κ	Fuji Electric Co.: T-LINK Mini System	EX120-SFU1		
D	SHARP Corp.: Satellite I/O Link System	EX120-SSH1	Q	DeviceNet, CompoBus/D (OMRON Corp.)	EX120-SDN1		
Е	Matsushita Electric Works: MEWNET-F System	EX120-SPA1	R1	OMRON Corp.: CompoBus/S System (16 output points)	EX120-SCS1		
F1 NKE Corp.: Uni-wire System (16 output points)		EX120-SUW1	R2	OMRON Corp.: CompoBus/S System (8 output points)	EX120-SCS2		
G	Rockwell Automation: Allen Bradley Remote I/O (RIO) System EX120-SAB1		U	JEMANET (JPCN-1)	EX120-SJN1		
G			V	Mitsubishi Electric Corp.: CC-LINK System	EX120-SMJ1		
m	* For terminal LED descriptions for each SI unit and cable wiring, etc., refer to pages 1-2-46 to 1-2-48.						

GSMC

How to Order Valve Manifold Assembly



60	One-touch fitting for Ø8	fitting for ø12	SV3000	N9	One-touch fitting for Ø5/16"	fitting for ø3/8"	
C10	One-touch fitting for ø10			N11	One-touch fitting for ø3/8"	inturing for \$3/6	
C8	One-touch fitting for ø8			N9	One-touch fitting for ø5/16"	One-touch	
C10	One-touch fitting for ø10		N11	N11	One-touch fitting for ø3/8"	fitting for ø3/8"	
C12	One-touch fitting for ø12			02N	NPT 1/4	NPT 3/8	
02	Rc 1/4		SV4000	03N	NPT 3/8	INF I 3/0	
03	Rc 3/8			02T	NPTF 1/4		
02F	G 1/4	G 3/8		03T	NPTF 3/8	NPTF 3/8	
03F	G 3/8	G 3/8		М	A, B ports	mixed	
М	A, B ports	s mixed					

SV3000

One-touch

One-touch fitting for ø6

One-touch fitting for ø8

C6

C8

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

Port sizes of X, PE port for external pilot specification (R, RS) are ø4 (metric), ø5/32" (inch) for SV1000/2000 and ø6 (metric) and ø1/4" (inch) for SV3000/4000.

N7

N9



One-touch fitting for ø1/4"

One-touch fitting for ø5/16"

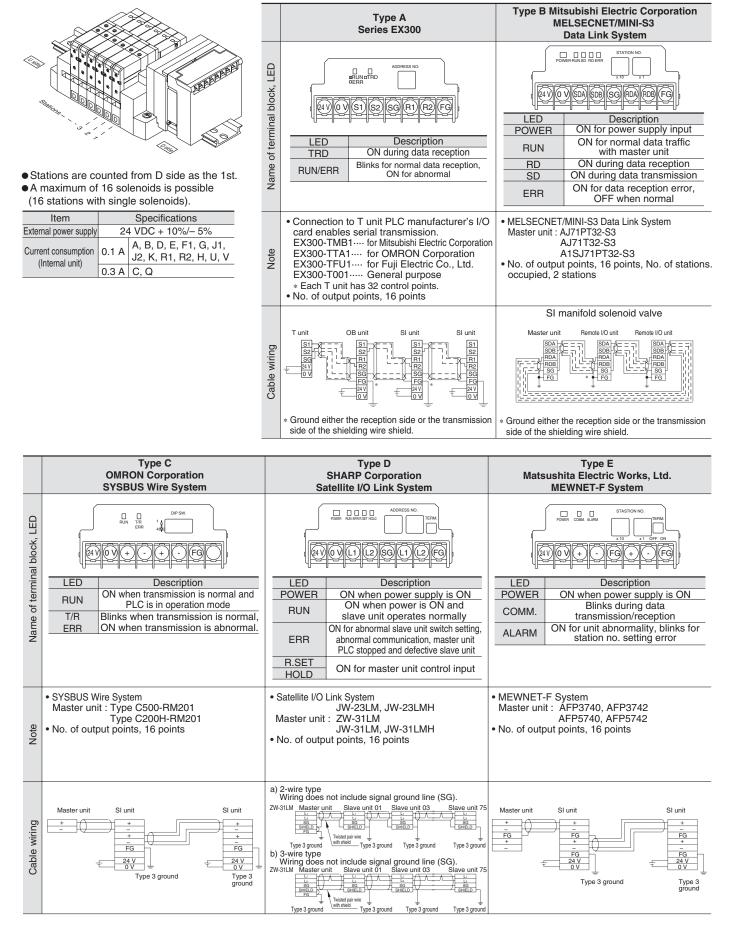
One-touch

SV3000

SV4000

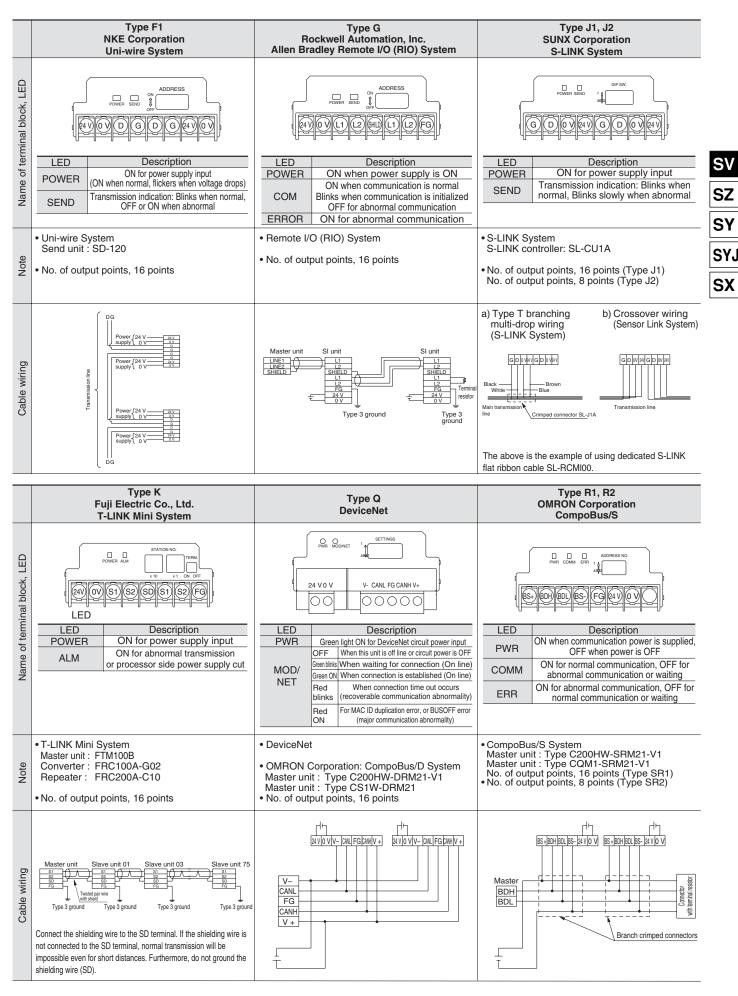
The serial transmission system reduces wiring work, while minimizing wiring and saving space.

Maximum 16 stations (Specify a model with more than 9 stations by means of the manifold specification sheet.)





Series EX120 Dedicated Output Serial Wiring Series SV

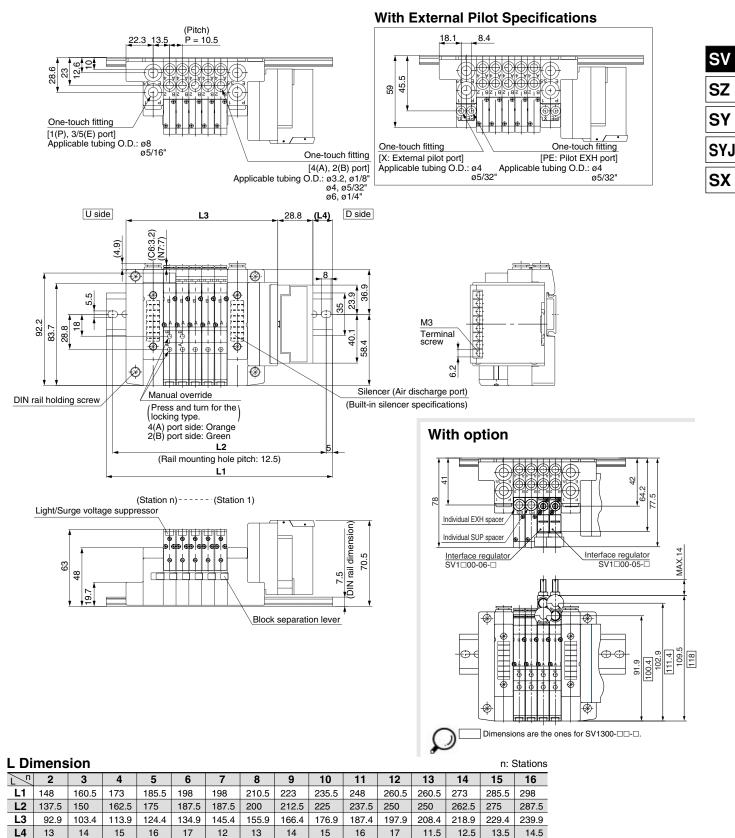


	Type H NKE Corporation Uni-wire H System	Type U JEMANET (JPCN-1)	Type V Mitsubishi Electric Corporation CC-LINK System
Name of terminal block, LED	LED Description POWER CON for power supply input (ON when normal, flickers when voltage drops) SEND Transmission indication: Blinks when normal, OFF or ON when abnormal	Opencion Opencion Opencion Power A B C Image: Comparison of the second se	Image: Second
Note	 Uni-wire H System Send unit: SD-H2 No. of output points, 16 points 	• JEMANET (JPCN-1) (Reference) AJ71J92-S3 (Mitsubishi Electric Corporation) A1SJ71J92-S3 (Mitsubishi Electric Corporation) Type C200HW-JRM21 (OMRON Corporation) NJ-JPCN-1 (Fuji Electric Co., Ltd.) NP1L-JP1 (Fuji Electric Co., Ltd.) No. of output points, 16 points	CC-Link System Master unit : AJ61BT11 Master unit : A1SJ61BT11 Master unit : AJ61QBT11 Master unit : A1SJ61QBT11 No. of output points, 16 points
Cable wiring	el og begregererererererererererererererererer	a) 2-wire type Master station Slave unit Slave unit (S1 unit) with shield b) 3-wire type Master station (S1 unit) Slave unit (S1 unit) Master station (S1 unit) Slave unit (S1 unit) Master station (S1 unit) Slave unit (S1 unit) Master station (S1 unit) Slave unit (S1 unit) (S1 unit) Master station (S1 unit)	Master unit Terminal resistor DA DB DB DB DB DB DB DB DB DB DB

Dimensions: Series SV1000 for EX120 Dedicated Output Serial Wiring

C3, N1 C4, N3 C6, N7 Cassette base manifold: SS5V1-16S3□D-Stations ^U_P(S, R, RS

• 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.

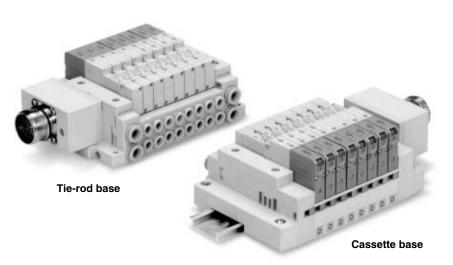


Note) The width of type E (Matsushita Electric Works, Ltd.) and type G (Rockwell Automation, Inc.) SI units are 24.3 mm greater. For details, please contact SMC.



Circular Connector

IP67 compliant

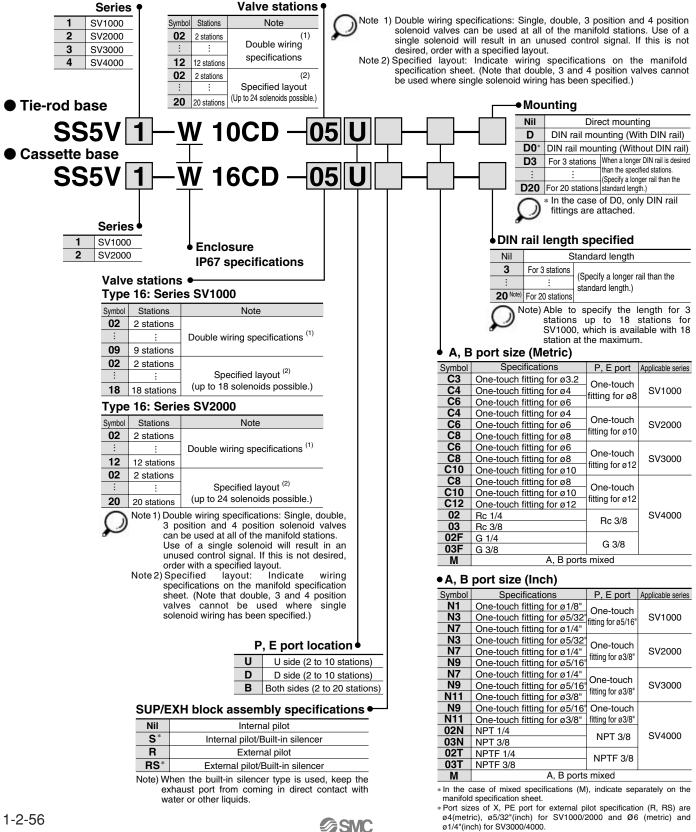


Applicable series	Cassette base manifold SV1000/SV2000
	Tie-rod base manifold SV1000/SV2000/SV3000/SV4000
	Number of connectors: 26 pins

SV
SZ
SY
SYJ
SX

Circular Connector Series SV

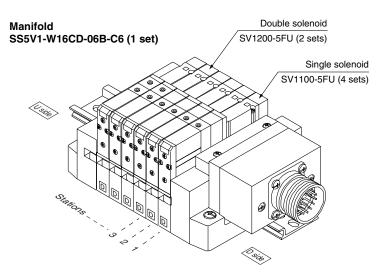
How to Order





How to Order Valve Manifold Assembly

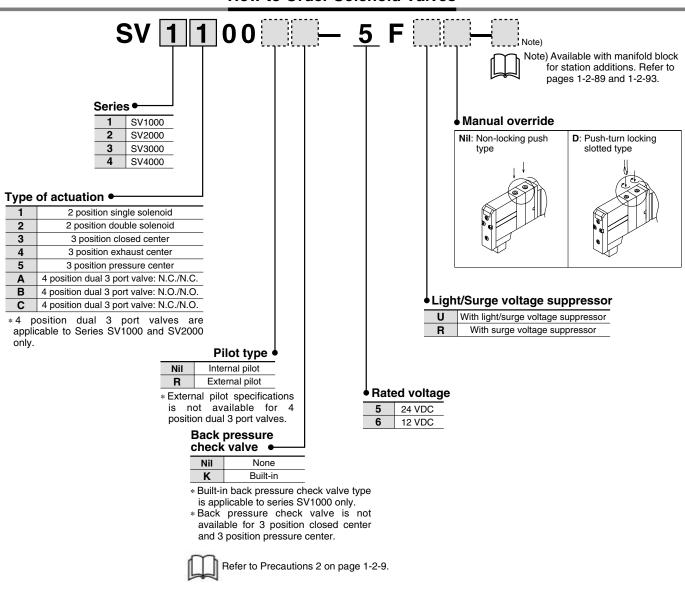
Ordering example (SV1000)



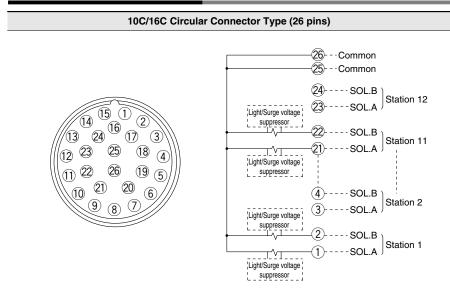
SS5V1-W16CD-06B-C6······1 set (manifold part no.)
* SV1100-5FU······4 sets (Single solenoid part no.)
* SV1200-5FU······2 sets (Double solenoid part no.)

SV
SZ
SY
SYJ
SX

How to Order Solenoid Valves



Manifold Electrical Wiring



- This circuit has double wiring specifications for up to 12 stations. Since the usable number of solenoids differs depending on the manifold type, refer to the table below. In the case of single solenoids, connect to SOL. A. Furthermore, when wiring is specified on a manifold specification sheet, connections are made without skipping any connectors, and connections are made without skipping and A, B for double are in order $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$, etc.
- Stations are counted from D side (connector side) as the 1st.
- Since solenoid valves do not have polarity, either the +COM or -COM can be used.

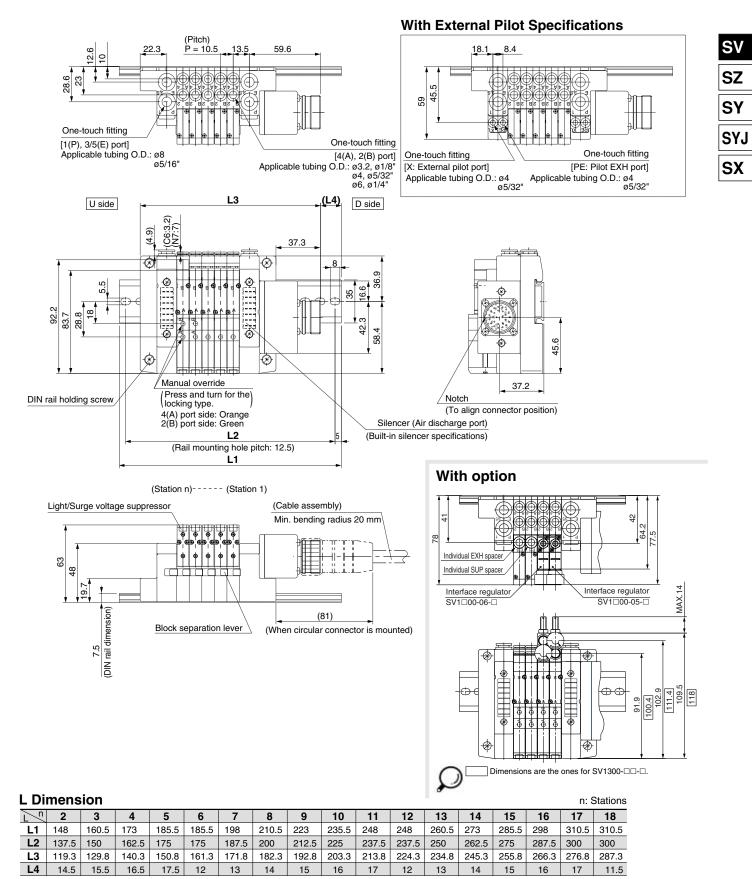
Usable No. of Solenoids

Model	Max. no. of solenoids	
Tie-rod base type 10	SV1000 to SV4000	24
Coopetto base turne 16	SV1000	18
Cassette base type 16	SV2000	24

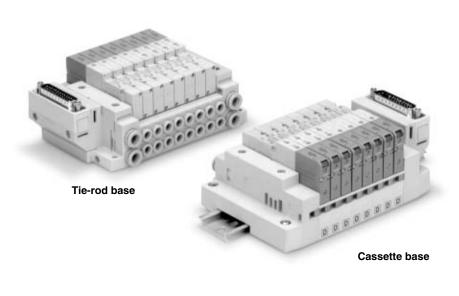
Dimensions: Series SV1000 for Circular Connector

● Cassette base manifold: SS5V1-W16CD-Stations B (S, R, RS)-C4, N3 C6, N7

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.



D-sub Connector

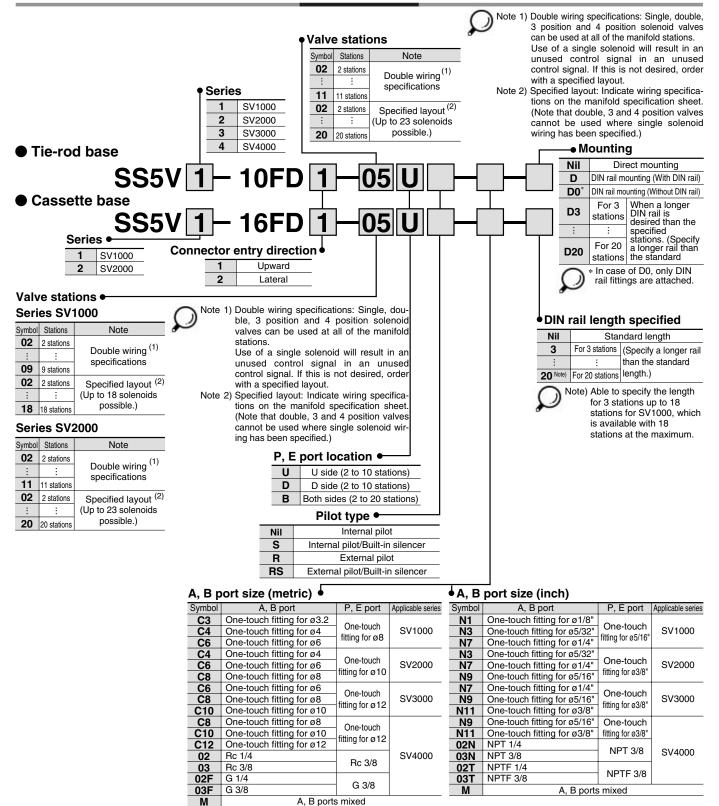


Applicable series	Cassette base manifold SV1000/SV2000
	Tie-rod base manifold SV1000/SV2000/SV3000/SV4000
	Number of connectors: 25 pins MIL-C-24308 Conforming to JIS-X-5101

SV	
SZ	
SY	
SYJ	
SX	

D-sub Connector Series SV

How to Order



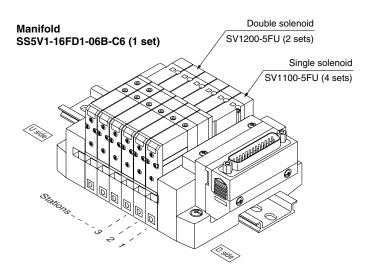
* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

* 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.



How to Order Valve Manifold Assembly

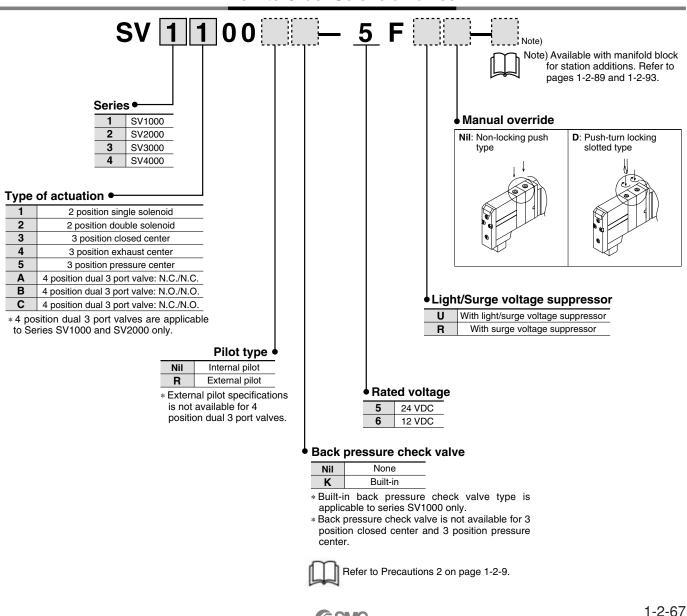
Ordering example (SV1000)



SS5V1-16FD1-06B-C61 set (manifold part no.)
*SV1100-5FU······4 sets (Single solenoid part no.)
*SV1200-5FU······2 sets (Double solenoid part no.)

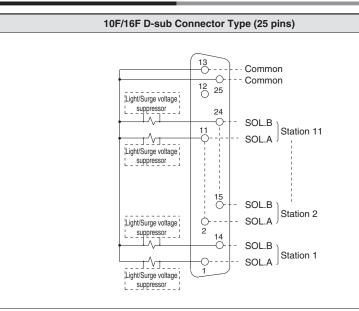
SV
SZ
SY
SYJ
SX

How to Order Solenoid Valves



多SMC

Manifold Electrical Wiring



• This circuit has double wiring specifications for up to 11 stations. Since the usable number of solenoids differs depending on the manifold type, refer to the table below. In the case of single solenoids, connect to SOL.A. Furthermore, when wiring is specified on the manifold specification sheet, connections are made without skipping any connectors, and signals A for single and A, B for double are in order $1 \rightarrow 14 \rightarrow 2 \rightarrow 15$, etc.

Stations are counted from D side (connector side) as the 1st.
Since solenoid valves do not have polarity, either the +COM or -COM can be used.

Usable No. of Solenoids

Model		Max. no. of solenoids			
Tie-rod base type 10	SV1000 to SV4000	23			
Cassette base type 16	SV1000	18			
SV200		23			

SZ

SY

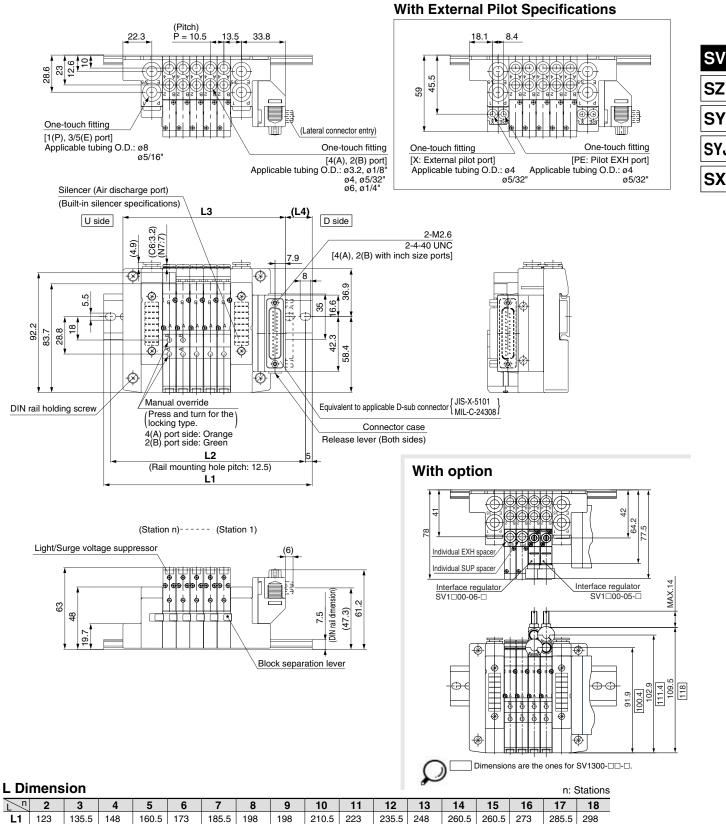
SYJ

SX

Dimensions: Series SV1000 for D-sub Connector

Cassette base manifold: SS5V1-16FD¹₂-Stations^D_B (S, R, RS)-^{C3, N1}_{C4, N3} ^{C3, N1}_{C4, N3}

• 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.

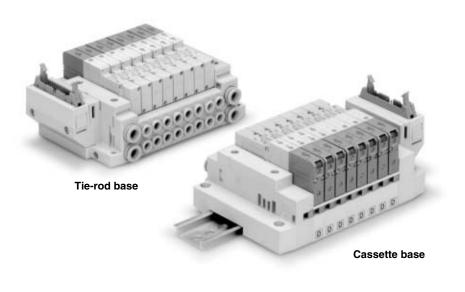


L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
L1	123	135.5	148	160.5	173	185.5	198	198	210.5	223	235.5	248	260.5	260.5	273	285.5	1
L2	112.5	125	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5	275	
L3	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5	230	240.5	251	1
L4	18	19	20	21	22	23	24	18.5	19.5	20.5	21.5	22.5	23.5	18.5	19.5	20.5	

287.5 261.5

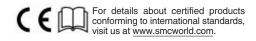
21.5

Flat Ribbon Cable Connector



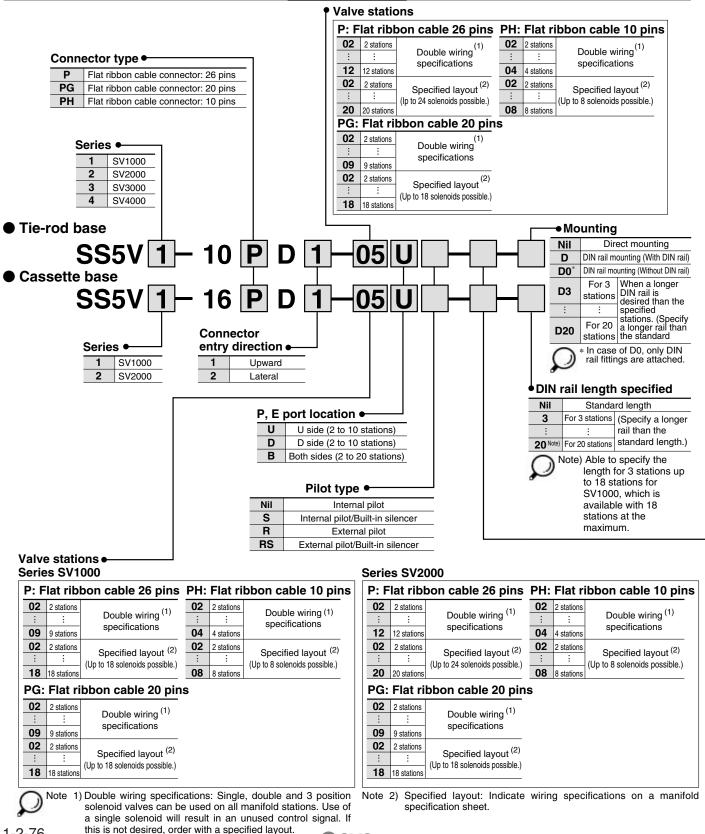
Applicable series	Cassette base manifold SV1000/SV2000
	Tie-rod base manifold SV1000/SV2000/SV3000/SV4000
	 Number of connectors: 26, 20, 10 pins With strain relief Conforming to MIL-C-83503

SV
SZ
SY
SYJ
SX



Flat Ribbon Cable Connector Series SV

How to Order



GSMC

Double solenoid Manifold SV1200-5FU (2 sets) SS5V1-16PD1-06B-C6 (1 set) Single solenoid SV1100-5FU (4 sets) SS5V1-16PD1-06B-C6.....1 set (manifold part no.) *SV1100-5FU.....4 sets (Single solenoid part no.) *SV1200-5FU2 sets (Double solenoid part no.) Osido How to Order Solenoid Valves **SV** 1 00 5 Note) Note) Available with manifold block for station additions. Refer to Series • pages 1-2-89 and 1-2-93. 1 SV1000 Manual override 2 SV2000 Nil: Non-locking push D: Push-turn locking 3 SV3000 type slotted type SV4000 4 Type of actuation • 2 position single solenoid 2 2 position double solenoid 3 3 position closed center 4 3 position exhaust center 5 3 position pressure center Α 4 position dual 3 port valve: N.C./N.C. Light/Surge voltage suppressor В 4 position dual 3 port valve: N.O./N.O. Rated voltage With light/surge voltage suppressor U С 4 position dual 3 port valve: N.C./N.O. 24 VDC 5 With surge voltage suppressor *4 position dual 3 port valves are R 6 12 VDC applicable to Series SV1000 and SV2000 only. Back pressure check valve Pilot type • Nil None Internal pilot Nil Κ Built-in R External pilot * Built-in back pressure check valve type is applicable to series SV1000 only. * External pilot specifications * Back pressure check valve is not available for 3 position closed center and 3 is not available for 4 position position pressure center. dual 3 port valves. Refer to Precautions 2 on page 1-2-9.

How to Order Valve Manifold Assembly

Ordering example (SV1000)

A, B port size (Inch) A, B port size (Metric) A, B port Applicable series A, B port Symbol P, E port P, E port Symbol C3 One-touch fitting for ø3.2 N1 One-touch fitting for ø1/8" One-touch One-touch One-touch fitting for ø4 One-touch fitting for ø5/32" C4 SV1000 N3 fitting for ø8 itting for ø5/16" One-touch fitting for ø1/4" C6 One-touch fitting for ø6 N7 C4 One-touch fitting for ø4 **N**3 One-touch fitting for ø5/32' One-touch One-touch C6 One-touch fitting for ø6 SV2000 N7 One-touch fitting for ø1/4" fitting for ø10 fittina for ø3/8" **C**8 One-touch fitting for ø8 N9 One-touch fitting for ø5/16" C6 One-touch fitting for ø6 N7 One-touch fitting for ø1/4" One-touch One-touch **C**8 One-touch fitting for ø8 SV3000 N9 One-touch fitting for ø5/16" fitting for ø12 fitting for ø3/8" C10 One-touch fitting for ø10 N11 One-touch fitting for ø3/8" **C**8 N9 One-touch fitting for ø8 One-touch fitting for ø5/16" One-touch One-touch C10 One-touch fitting for ø10 N11 One-touch fitting for ø3/8" fitting for ø3/8" fitting for ø12 C12 One-touch fitting for ø12 02N NPT 1/4 NPT 3/8 03N NPT 3/8 02 Rc 1/4 SV4000 Rc 3/8 03 02T NPTF 1/4 Rc 3/8 **NPTF 3/8** 02F G 1/4 03T **NPTF 3/8** G 3/8 G 3/8 03F М A, B ports mixed М A, B ports mixed

_					
	* In the case of	mixed	speci	ficati	ons
	(M), indicate	separa	tely	on	the
	manifold specifi	cation s	heet.		
	* Port sizes of X	PE po	rt for	exte	rnal
	pilot specificati	on (R,	RS)	are	ø4
	(metric), ø5	/32"	(incl	ר)	for

Applicable series

SV1000

SV2000

SV3000

SV4000

(metric), 05/32" (inch) for SV1000/2000 and 06(metric) and 01/4" (inch) for SV3000/4000.

SV

SZ

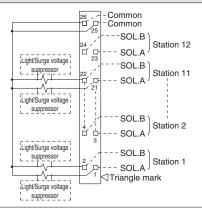
SY

SYJ

SX

Manifold Electrical Wiring

10P/16P Flat Ribbon Cable Type (26 pins)

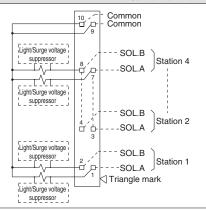


- This circuit has double wiring specifications for up to 12 stations. Since the usable number of solenoids differs depending on the manifold type, refer to the table below. In the case of single solenoids, connect to SOL. A. Furthermore, when wiring is specified on a manifold specification sheet, connections are made without skipping any connectors, and connections are made without skipping any connectors, and signals A for single and A, B for double are in order $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$, etc. • Stations are counted from D side (connector side) as the 1st one.
- Since terminal numbers are not indicated on the flat cable, use the triangle mark as a reference for wiring.
- Since solenoid valves do not have polarity, either the +COM or -COM can be used.

Usable No. of Solenoids

Model	Max. no. of solenoids	
Tie-rod base type 10	SV1000 to SV4000	24
Cassette base type 16	SV1000	18
Casselle base type 10	SV2000	24

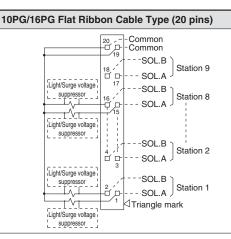
10PH/16PH Flat Ribbon Cable Type (10 pins)



- This circuit has double wiring specifications for up to 4 stations. Since the usable number of solenoids differs depending on the manifold type, refer to the table below. In the case of single solenoids, connect to SOL. A. Furthermore, when wiring is specified on a manifold specification sheet, connections are made without skipping any connectors, connections are made without skipping any connectors, and signals A for single and A, B for double are in order $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$, etc.
- Stations are counted from D side (connector side) as the 1st one.
- Since terminal numbers are not indicated on the flat cable, use the triangle mark as a reference for wiring
- Since solenoid valves do not have polarity, either the +COM or -COM can be used.

Usable No. of Solenoids

Model	Max. no. of solenoids	
	SV1000	
Tie-rod base type 10	to	
	SV4000	8
Cassette base type 16	SV1000	
Casselle base type 10	SV2000	



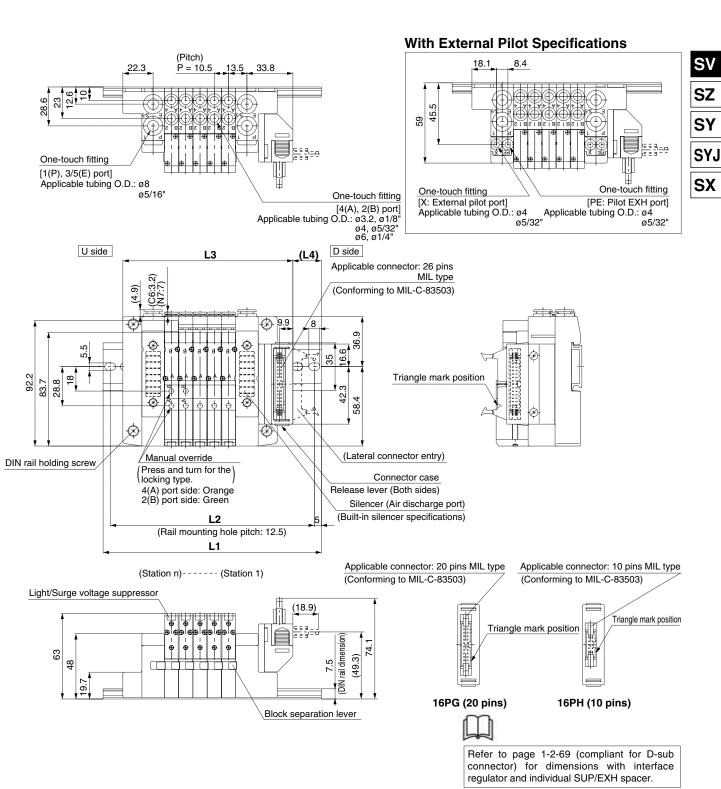
- This circuit has double wiring specifications for up to 9 stations. Since the usable number of solenoids differs depending on the manifold type, refer to the table below. In the case of single solenoids, connect to SOL. A. Furthermore, when wiring is specified on a manifold specification sheet, connections are made without skipping any connectors, and connections are made without skipping any connectors, and signals A for single and A, B for double are in order $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$, etc. • Stations are counted from D side (connector side) as the 1st one.
- Since terminal numbers are not indicated on the flat cable, use the triangle mark as a reference for wiring.
- Since solenoid valves do not have polarity, either the +COM or -COM can be used.

Usable No. of Solenoids

Model		Max. no. of solenoids
	SV1000	
Tie-rod base type 10	to	
	SV4000	18
Cassette base type 16	SV1000	
Casselle base type 10	SV2000	

C3, N1 C4, N3 C6, N7

• 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.



Stations B_{B}^{V} - (S, R, RS)

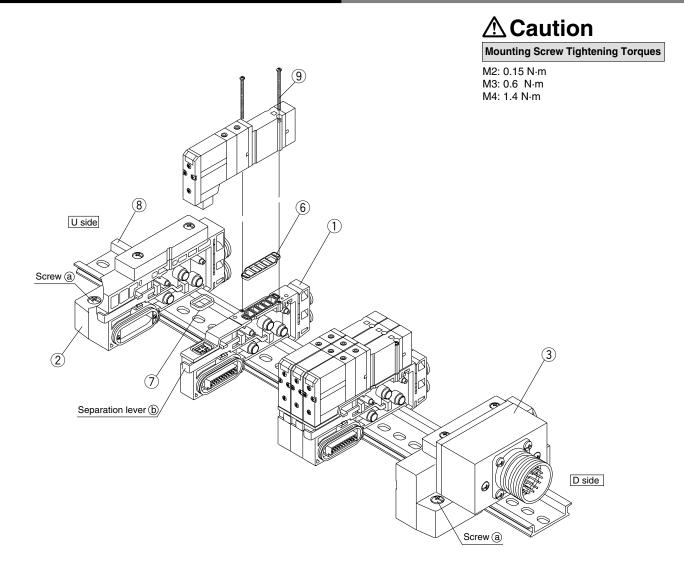
Dimensions: Series SV1000 for Flat Ribbon Cable

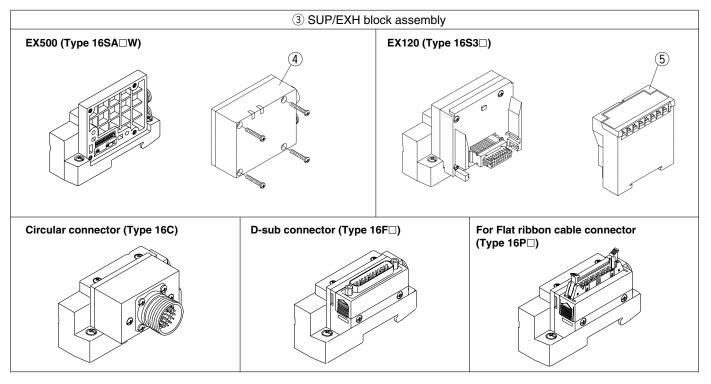
Cassette base manifold: SS5V1-16 $_{PH}^{P}$ D₂¹-

L Di	mens	sion														n: 8	Stations
<u> </u>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L1	135.5	135.5	148	160.5	173	185.5	198	198	210.5	223	235.5	248	260.5	260.5	273	285.5	298
L2	125	125	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5	275	287.5
L3	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5	230	240.5	251	261.5
L4	24.5	19	20	21	22	23	24	19	20	21	22	23	24	18.5	19.5	20.5	21.5

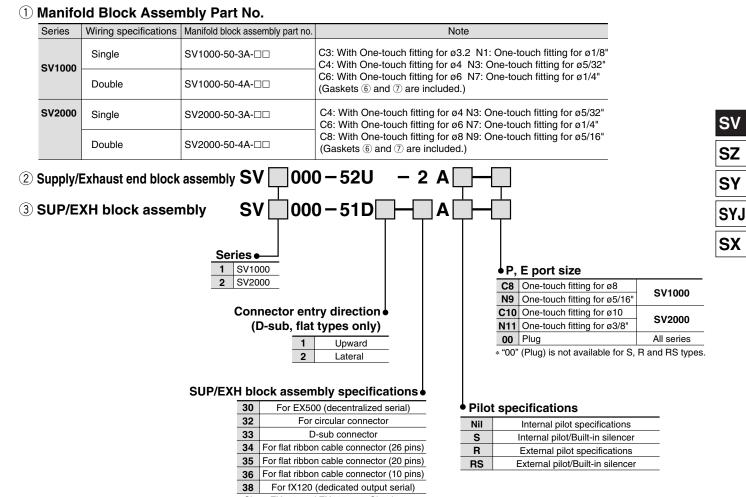
₿SMC

Type 16: Cassette Base Manifold Exploded View





SMC



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

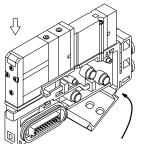
No.	Description	Part no.		Note
INO.	Description	SV1000	SV2000	Note
(4)	Series EX500 SI unit	Refer to page 1-2-26.		
(5)	Series EX120 SI unit	Refer to page 1-2-44.		
6	Gasket	SX3000-57-4	SX5000-57-6	
7	Connector gasket	SX3000-146-2		
8	DIN rail	VZ1000-11-1-□		Refer to DIN rail dimension tables on page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



Hook this part onto the DIN rail, and press down in the direction of the arrow.

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)

A 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.

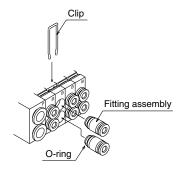
Fitting Assembly Part No.

	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
В	One-touch fitting for ø1/8"	VVQ1000-50A-N1	—
, Ă	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
Ш	One-touch fitting for ø5/16"	VVQ1000-51A-N9	_
ď.	One-touch fitting for ø3/8"	_	VVQ2000-51A-N11

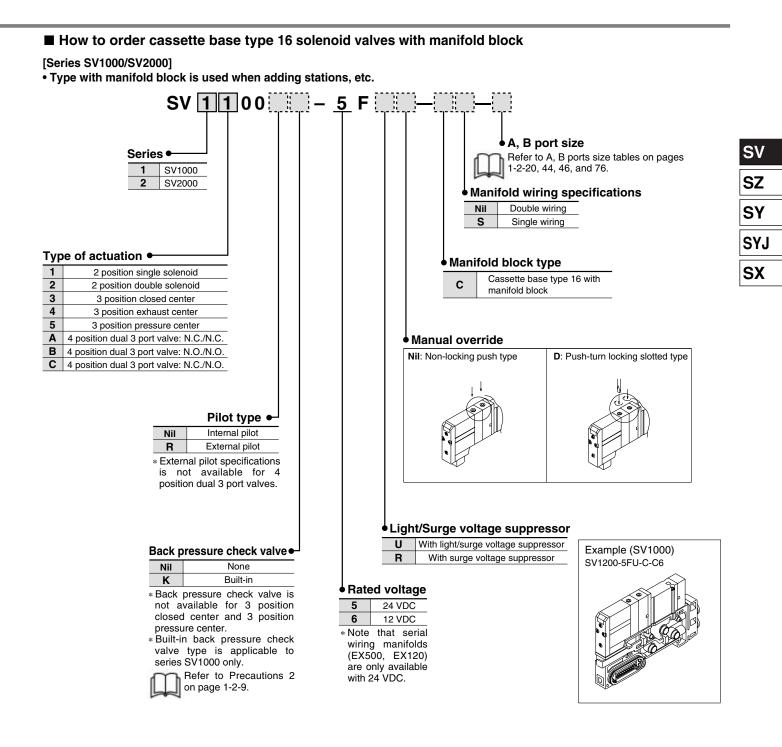
Note 1) Be careful to avoid damage or contamination of O-rings, as this can cause air leakage.

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.







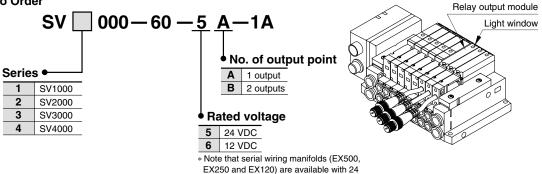
Series SV Manifold Option (Common for Type 16 and 10)

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.

VDC only.

How to Order



Relay Output Module Specifications

Item	Specifications						
No. of output points	1 output [connector	with lead wire (M12)]	2	outputs [connecto	r with lead wire (M12)]		
	4 pins connector (M12) plug		4 pins conne	ctor (M12) plug			
Output type	1. — 2. Output A 3. — 4. Output A ("a" contact type ("a" contact)	2 3 3 4 Relay output module side pin arrangement	1. Output B 2. Output A 3. Output B 4. Output A	Contact type ("a" contact)	2 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	Orar	nge		A side: Orange E	3 side: Green		
Enclosure	Based on IP67 (IEC529)						
Current consumption	20 mA or less						
Polarity	Non-polar						
weight (g)		48					

■ Y type connector

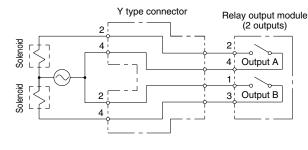
Used to branch a two output relay output module to two separate systems.

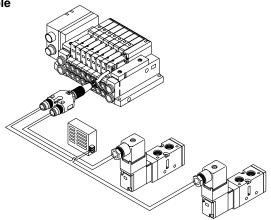
How to Order





Relay output module and Y type connector wiring example



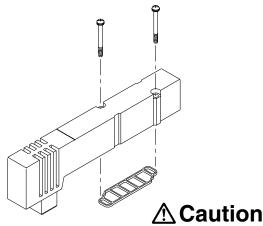


SMC

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

M2: 0.15 N⋅m M3: 0.6 N⋅m M4: 1.4 N⋅m

Mounting screw tightening torques

SUP/EXH block disk

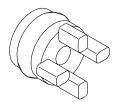
[SUP block disk]

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

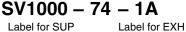
Series	Manifold Model	SUP block disk	EXH block disk
SV1000	10	SV1000-59-1A	SV1000-59-2A
501000	16	SX3000-77-1A	SX3000-77-1A
SV2000	10	SV2000-59-1A	SV2000-59-2A
572000	16	SV2000-59-3A	SV2000-59-3A
SV3000	10	SV3000-59-1A	SV3000-59-1A
SV4000	10	SY9000-57-1A	SY9000-57-1A

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.)

block disk

ΕI



Label for SUP block disk



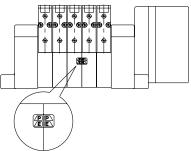
P

	P
E	E

Label for SUP/EXH

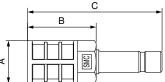
block disk

* 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

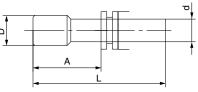
This silencer can be quickly mounted on the manifold's E (exhaust) port.



Series	Model	Effective area	Α	В	С
SV1000 (For ø8)	AN203-KM8	14 mm ²	ø16	26	51
SV2000 (For ø10)	AN200-KM10	26 m ²	ø22	53.8	80.8
	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

SV

SZ

SY

SYJ

SX

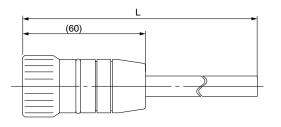


Manifold Option

■ 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.

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

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

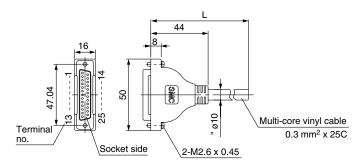
■ D-sub connector/Cable assembly (25 pins)

AXT100 – DS25 – 🗌

L	ead 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
\bigcirc	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.



(7.5)

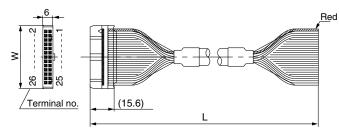
Manifold Option

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

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

VZ1000 − 11 − 1 − 🗌

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

		L .	
-•	8	-	
2			
ы. N		<u>+++++++++++++++++++++++++++++++++++++</u>	(35)
-			<u></u>
	-	Rail mounting hole pitch 12.5	

sv
SZ
SY
SYJ
SX

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
L dimension	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5
Weight (g)	107.6	109.9	112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9
No.	50	51	52	53	547	55	56	57	58	59
L dimension	723	735.5	748	760.5	731	785.5	798	810.5	823	835.5
Weight (g)	130.1	132.4	134.6	136.9	39.1	141.4	143.6	145.9	148.1	150.4
No.	60	61	62	63	64	65	66	67	68	69
L dimension	848	860.5	873	885.5	898	910.5	923	935.5	948	960.5
Weight (g)	152.6	154.9	157.1	159.4	161.6	163.9	166.1	168.4	170.6	172.9

No. 70 71

L dimension 973 985.5 Weight (g) 175.1 177.4

weight (g) 175.1 177.

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■ SV3000 and 4000 DIN rail dimensions and weights

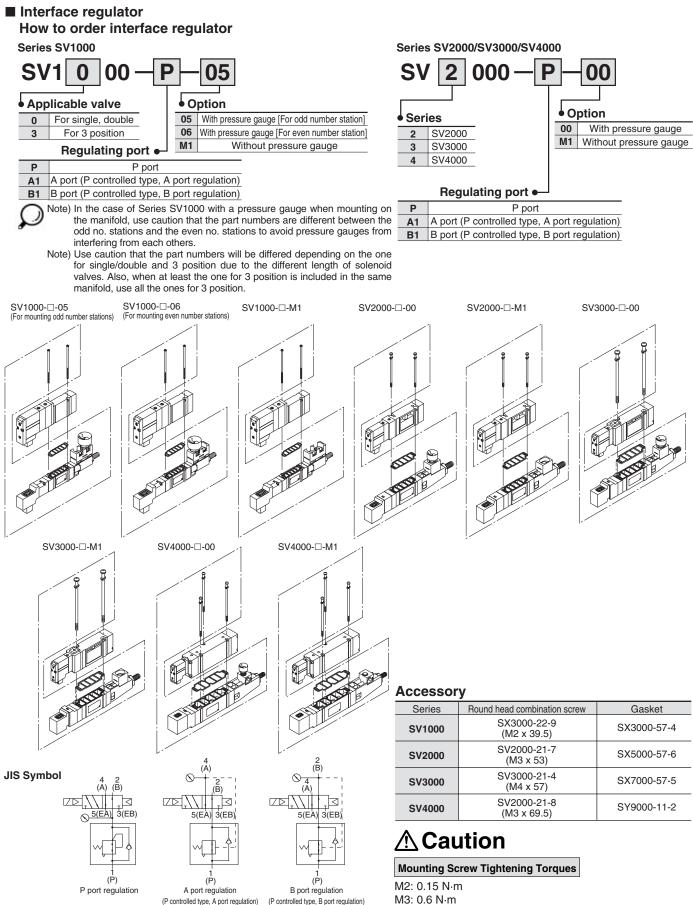
35)

VZ1000 - 11 - 4 - 🗌

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

		ומ						Rail mounting hole pitch 12.5					(10)								
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												
Weight (g)	224	227.2	230.4	233.5	236.7	239.8	243	246.2	249.3												

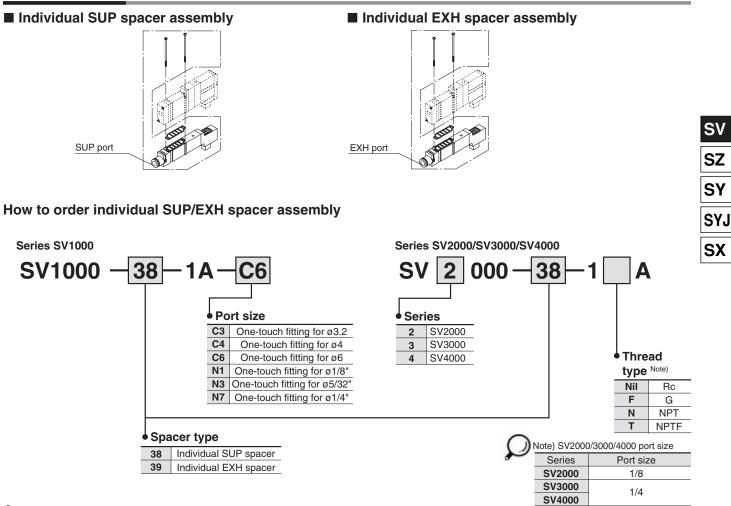
Manifold Option



M3: 0.6 N⋅m M4: 1.4 N⋅m



Manifold Option



Accessory

Series	Round head combination screw	Gasket				
SV1000	SX3000-22-9	SX3000-57-4				
311000	(M2 x 39.5)					
SV2000	SV2000-21-6	SY5000-11-15				
572000	(M3 x 46)	315000-11-15				
SV3000	SV3000-21-3	SY7000-11-11				
373000	(M4 x 53)					
SV4000	SV2000-21-5	SY9000-11-2				
374000	(M3 x 60)	319000-11-2				