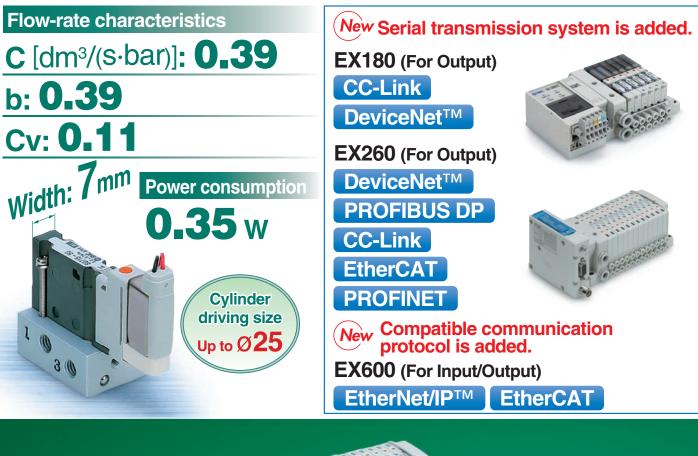
5 Port Solenoid Valve









CE New

5 Port Solenoid Valve

Slim Compact Plug-in Manifold Bar Base

- Footprint: Reduced by 45%*
- Height: Reduced by 20 mm
- * Compared with plug-in manifold stacking base

Plug-in Manifold Stacking Base

Many Combinations Available to Fit Your Needs

- Serial transmission
- D-sub connector
- Flat ribbon cable
- PC wiring system compatible flat ribbon cable
- Terminal block box
- Lead wire
- Circular connector
- Connector

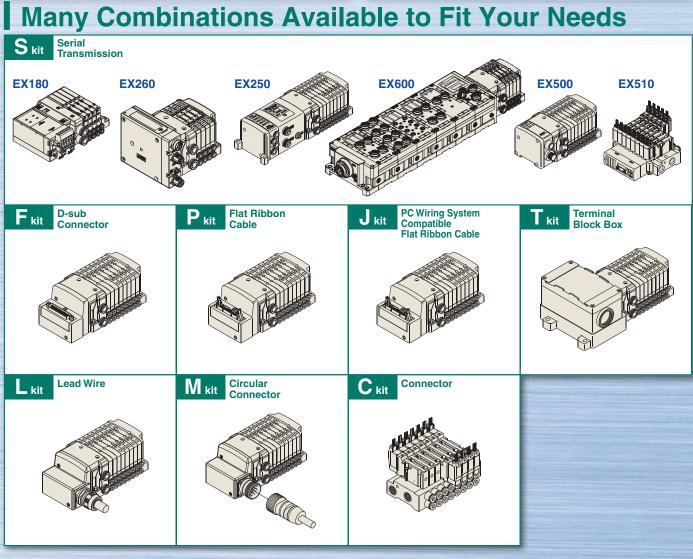
Many Combinations of Serial Transmission Systems Available

	Series	Applicable protocol	Configuration
New EX180	For Output Serial Transmission System	• CC-Link • DeviceNet™	A second designed
New EX260	For Output Serial Transmission System	DeviceNet [™] PROFIBUS DP CC-Link EtherCAT PROFINET	
EX250	For Input/Output Serial Transmission System	DeviceNet [™] PROFIBUS DP CANopen CC-Link AS-Interface EtherNet/IP [™]	
EX600	For Input/Output Serial Transmission System	DeviceNet [™] PROFIBUS DP CC-Link New • EtherNet/IP [™] New • EtherCAT	
EX500	Gateway-type Serial Transmission System	• DeviceNet [™] • PROFIBUS DP • CC-Link • EtherNet/IP [™]	
EX510	Gateway-type Serial Transmission System	• DeviceNet™ • PROFIBUS DP • CC-Link	

SMC

Series S0700



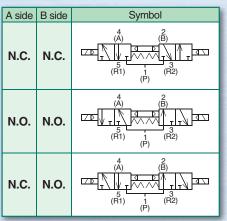


SMC

Features 2

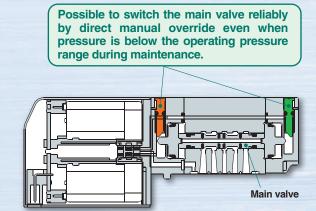
4-Position Dual 3-Port Valve

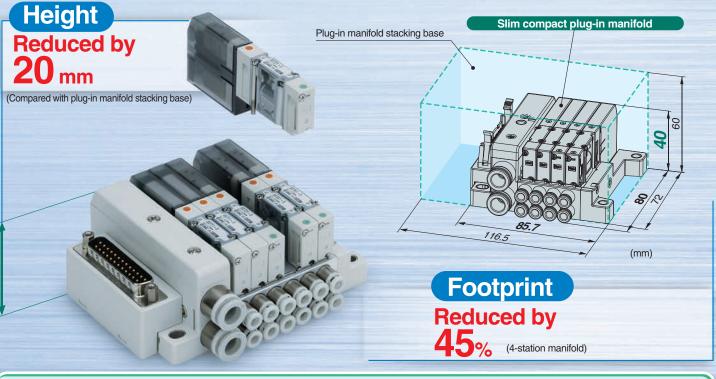
- Two 3-port valves in one body.
- Independently operating 3-port valve at each side of A and B.
- Number of stations occupied for 3-port valve halved.
- Available as 4-position 5-port valve.



Slim Compact Plug-in Manifold Bar Base

Direct Manual Is Adopted.



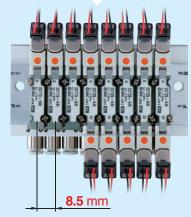


2 Types of Manifold Pitch Are Selectable.

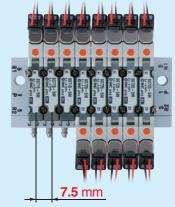
(Plug Lead Manifold Bar Base)

8.5 mm pitch

With one-touch fittings (ø2, ø3.2, ø1/8", ø5/32")



7.5 mm pitch With barb fittings (ø2, ø3.2, ø4)

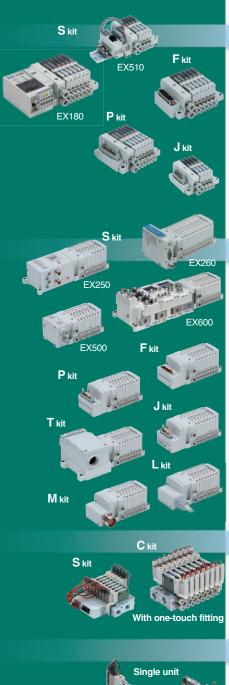


The mounting screw is tightened with the valve.

INDEX

5 Port Solenoid Valve Series S0700

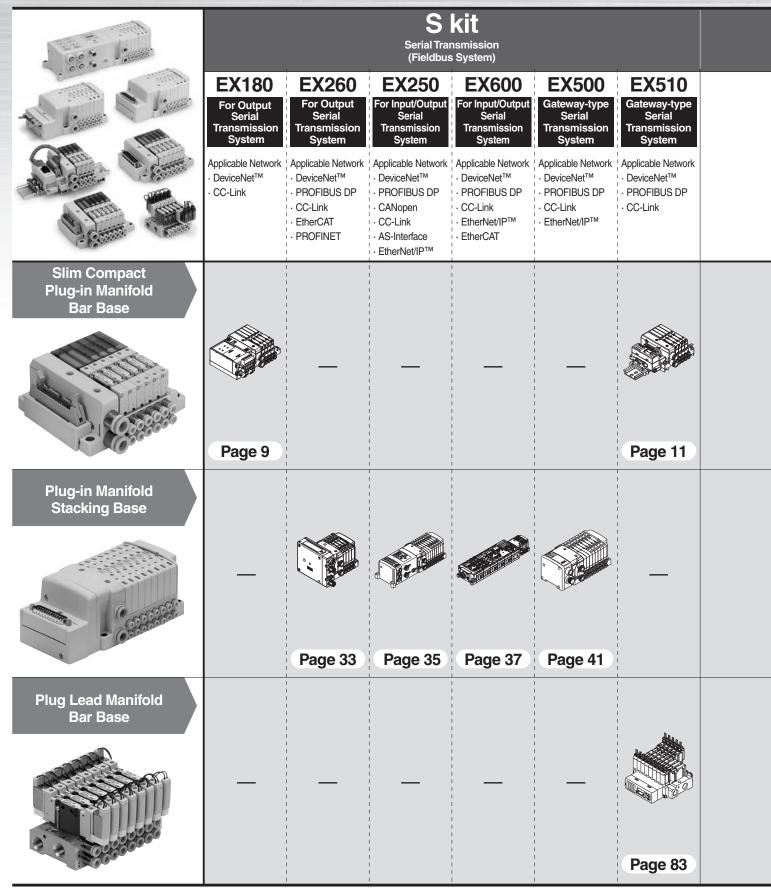
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D-sub Connector F kit	Page 14
Flat Ribbon Cable P kit	Page 18
PC Wiring System Compatible Flat Ribbon Cable J kit	Page 22
Manifold Optional Parts	Page 26
Construction	Page 28
Manifold Exploded View	Page 29
Plug-in Manifold Stacking Base	Page 32
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Flat Ribbon Cable P kit	Page 48
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Lead Wire kit	Page 60
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Connector C kit	Page 78
Serial Transmission S kit	Page 82
Manifold Optional Parts	Page 85
Plug Lead Single Unit	Page 88
Construction	Page 90
Plug Lead Replacement Parts	Page 91
Specific Product Precautions	Page 92
Troubleshooting	Page 103
Safety Instructions	Back page



Slim Compact Plug-in Manifold Bar Base

Features 4

Series S0700 Variations

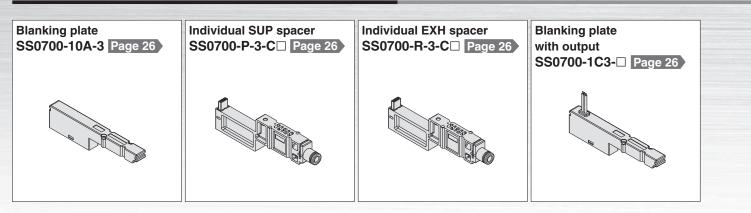


F kit D-sub Connector	P kit Flat Ribbon Cable	J kit PC Wiring System Compatible Flat Ribbon Cable	T kit Terminal Block Box	L kit Lead Wire	M kit Circular Connector	C kit _{Connector}
MIL Standard	MIL Standard	MIL Standard				
			_	—	—	—
Page 15	Page 19	Page 23				
						_
Page 45	Page 49	Page 53	Page 57	Page 61	Page 65	
_		_		_		Page 79

Series S0700

Options

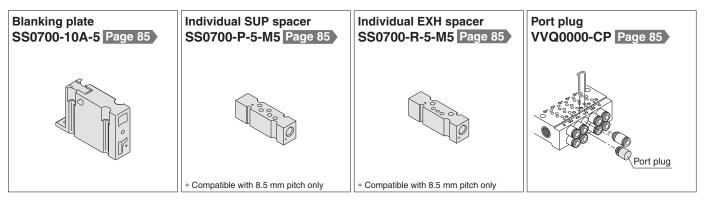
Slim Compact Plug-in Manifold Bar Base / Options



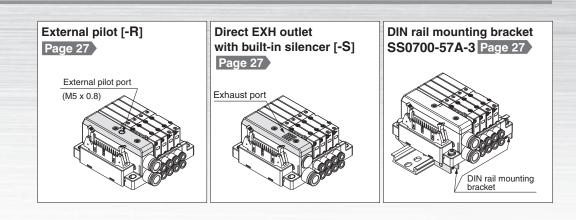
Plug-in Manifold Stacking Base / Options

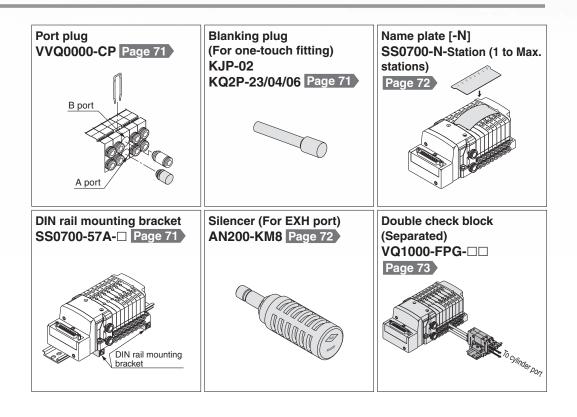
Blanking plate SS0700-10A-1 Page 69	Direct EXH outlet with built-in silencer [-S] Page 69	SUP block plate SS0700-B-P Page 70	Back pressure check valve [-B] SS0700-7A-1 Page 70
	Exhaust port	SUP passage	
External pilot [-R] Page 69	Individual SUP/EXH spacer SS0700-PR-1 Page 69	EXH block plate SS0700-B-R Page 70	Blanking plate with output SS0700-1C-□ Page 71
External pilot port (M5 x 0.8)		U side D side EXH passage	Blanking plate with output

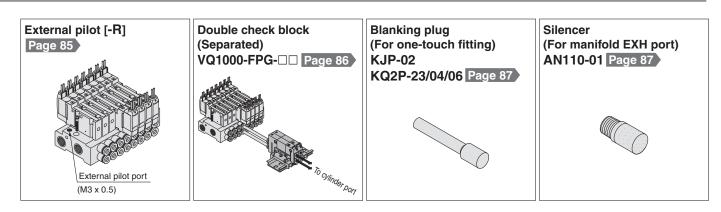
Plug Lead Manifold Bar Base / Options













Series S0700 Valve Specifications

Valve Specifications

Model

					F	low-rate cha	racteristics			Note 2)	
Series		Type of actuation	Model	1->4/	1→4/2 (P→A/B)			i/3 (A/B→R1/	R2)	Response	Weight (g)
				C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	time (msec)	(9)
Slim compact	2-position	Single	S0711	0.39	0.39	0.11	0.37	0.39	0.10	18 or less	36
Plug-in manifold Bar base	2-розшон	Double	S0721	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	41
	4-position	Dual 3-port valve	S07B1	0.34	0.34	0.09	0.33	0.33	0.08	18 or less	41
	2-position	Single	S0710	0.39	0.39	0.11	0.37	0.39	0.10	18 or less	30
Plug-in manifold Stacking base	2-розшон	Double	S0720	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	38
	4-position	Dual 3-port valve	S07B0	0.34	0.34	0.09	0.33	0.33	0.08	18 or less	38
	2-position	Single	S0715	0.39	0.39	0.11	0.37	0.39	0.10	12 or less	28
Plug lead manifold Bar base		Double	S0725	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	36
	4-position	Dual 3-port valve	S07 ^A B5 c	0.34	0.34	0.09	0.33	0.33	0.08	12 or less	36

Note 1) Values for cylinder port fitting port size C6

Note 2) Based on JIS B 8375-1993 (Supply pressure: 73 psi (0.5 MPa), with indicator light and surge voltage suppressor, clean air. This will change depending on pressure and air quality.) The value when ON for the double type.

Specifications

	Valve construction			Rubber seal				
	Fluid			Air/Inert gas				
	Max. operating pressu	re	102 psi (0.7 MPa)					
	Min. operating pressur	e		29 psi (0.2 MPa)				
S	Ambient and fluid temp	perature	14	4 to 122°F (–10 to 50°C) Not	e 1)			
tior	Max. operating cycle			5 Hz				
Valve specifications	Pilot valve exhaust me	thod	Slim compact Plug-in manifold Bar base	Plug-in manifold Stacking base	Plug lead manifold Bar base			
Valv			Common e	Individual exhaust				
	Pilot valve manual ove	rride	Push type					
	Lubrication			Not required				
	Impact/Vibration resist	ance Note 3)	30/100 m/s ²					
	Enclosure			IP40				
S	Coil rated voltage			24 VDC				
cal	Allowable voltage fluct	uation		$\pm 10\%$ of rated voltage				
ifica	Coil insulation type			Class B or equivalent				
Electrical specifications	Power consumption (Current)	24 VDC		DC 0.35 W (15 mA)				

Note 1) Use dry air to prevent condensation when operating at low temperatures.

Note 2) Valves with the external pilot specifications have a pilot EXH with individual exhaust specifications.

Note 3) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at

the right angles to the main valve and armature in both energized and de-energized

states every once for each condition.

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature.

Series S0700 **Manifold Specifications**

Manifold Specifications

Μ	od	el
		•••

woder		Pining spe	ecifications		Note 1)	Nata (1)	Note O	
	Base model		size	Type of connection	Note 1) Applicable	Note 3) 5-station	Note 3) Addition	
		1(P), 3(R)	4(A), 2(B)		stations	weight (g)	per station (g)	
				S kit: Serial transmission (EX510)	Max. 16 stations	270 Note 2)	19 Note 6)	
act ifold		C6 (ø6) C8 (ø8) N7 (ø1/4")	C2 (ø2)	C2 (ø2)	S kit: Serial transmission (EX180)	Max. 32 stations	230 Note 2)	17
Slim compact Plug-in manifold Bar base	SS0751-□□□	N9 (ø1/4) N9 (ø5/16") Option (Direct EXH outlet	C3 (ø3.2) C4 (ø4) N1 (ø1/8")	F kit: D-sub connector	Max. 24 stations	185	17	
Sli Plug	6nd	with built-in silencer)	N3 (ø5/32")	P kit: Flat ribbon cable	Max. 24 stations	181	17	
				J kit: PC wiring compatible flat ribbon cable	Max. 16 stations	181	17	
				S kit: Serial transmission (EX500)	Max. 16 stations	260 Note 2)	20	
	g base			S kit: Serial transmission (EX250/260/600)	Max. 24 stations	260 Note 2)	20	
		C6 (ø6)		F kit: D-sub connector	Max. 24 stations	330	20	
nanifold ig base		C8 (ø8) N7 (ø1/4") N9 (ø5/16")	C2 (ø2) C3 (ø3.2)	P kit: Flat ribbon cable	Max. 24 stations	325	20	
Plug-in manifold Stacking base	SS0750-□□□	Option (Direct EXH outlet with built-in silencer)	C4 (ø4) N1 (ø1/8") N3 (ø5/32")	J kit: PC wiring compatible flat ribbon cable	Max. 16 stations	325	20	
-				T kit: Terminal block box	Max. 20 stations	660	20	
				L kit: Lead wire	Max. 24 stations	455 Note 4)	20	
				M kit: Circular connector	Max. 24 stations	390	20	
old	SS0755-□C□C	Rc1/8	M5 thread C2 (ø2) C3 (ø3.2)	C kit: Connector	Max. 20 stations	115	20	
Plug lead manifold Bar base	(Manifold pitch: 8.5)	nG1/0	C4 (ø4) N1 (ø1/8") N3 (ø5/32")	S kit: Serial transmission (EX510)	Max. 16 stations	115 Note 2)	20	
Plug le: Ba	SS0755-□V□C (Manifold pitch: 7.5)	M5 thread	M3 (M3 thread) V2 (ø2 barb fitting) V3 (ø3.2 barb fitting) V4 (ø5 barb fitting)	C kit: Connector	Max. 20 stations	75	10	
Single unit	S07□5-5□-M5	M5 thread	M5 thread	Connector kit	_	14	Note 5)	

Note 1) Maximum stations in the case of mixed single and double wiring (special wiring specifications) Note 2) Differs depending on the serial unit type. For details, refer to page 35.

Note 4) Weight with lead wire length 0.6 m

Note 5) Weight of sub-plate only. Refer to page 5 for valve weight. Note 6) Including DIN rail weight

Note 3) Weight excluding valve. Refer to page 5 for valve weight.

Series S0700

Cylinder Speed Chart

Base Mounte	ed			Please co	guide for se onfirm the a ng Program	ctual conditio	ons with	
					Bore size			
Series	Average speed mm/s		re 73 psi (0 actor 50%	0.5 MPa)	Pi	eries CM2 ressure 73 bad factor 5 troke 300 m	0%`	°a)
		ø6	ø10	ø16	ø20	ø25	ø32	ø40
	800 700 600						Perpendi upward a Horizonta actuation	actuation
S0715-5G-M5	500 400							
307 13-3G-103	300							
	200 100 0							

* It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.
* The average velocity of the cylinder is what the stroke is divided by the total stroke time.
* Load factor: ((Load mass x 9.8)/Theoretical force) x 100%

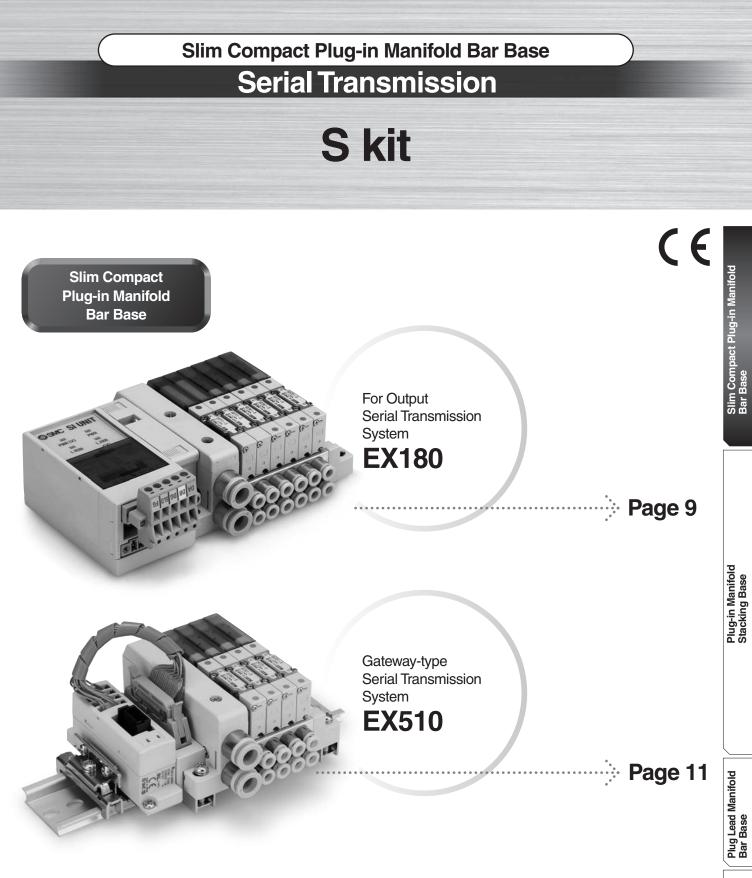
Conditions

Bas	se mounted	Series CJ2 Series CM			
	Tube bore x Length	ø6 x	1 m		
S0715-5G-M5	Speed controller	AS2002F-06	AS2002F-06		
	Silencer	AN12	20-M5		

Symbol

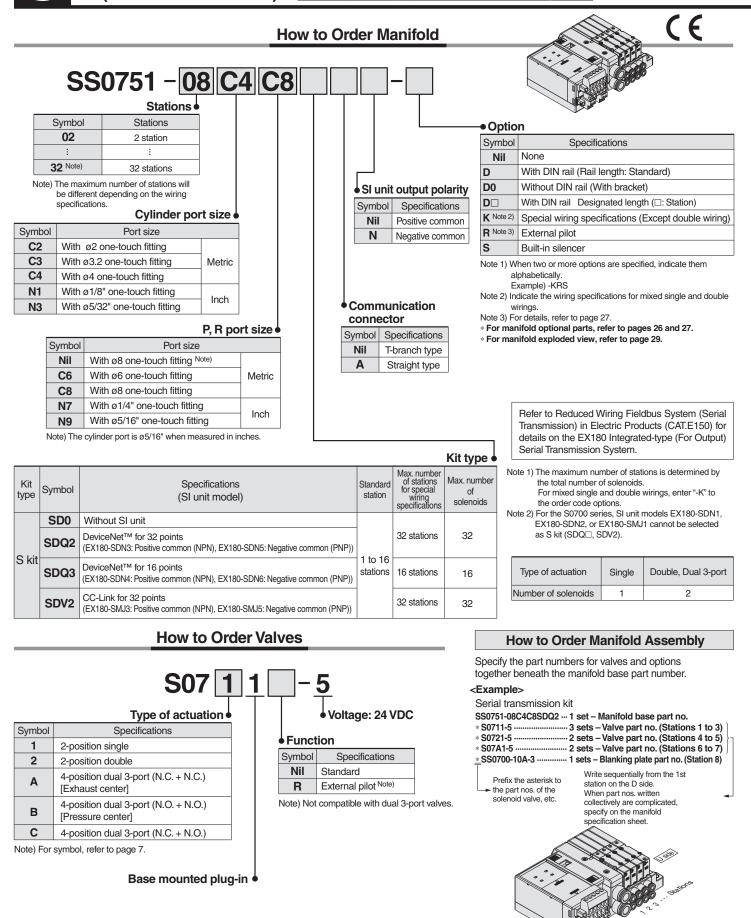
Model	Type of actuation	JIS symbol
S0710 S0711 S0715	2-position single	(A) (B) $4 2$ T
S0720 S0721 S0725	2-position double	(A) (B) 4 2 5 1 3 (R1) (P) (R2)
S07A0 S07A1 S07A5	4-position dual 3-port (N.C. + N.C.) [Exhaust center]	$\begin{array}{c c} 4 & 2 \\ (A) & (B) \\ \hline \\ $
S07B0 S07B1 S07B5	4-position dual 3-port (N.O. + N.O.) [Pressure center]	$\begin{array}{c} 4 & 2 \\ (A) & (B) \\ \hline \hline \hline \hline \\ \hline $
S07C0 S07C1 S07C5	4-position dual 3-port (N.C. + N.O.)	$\begin{array}{c} 4 & 2 \\ (A) & (B) \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$





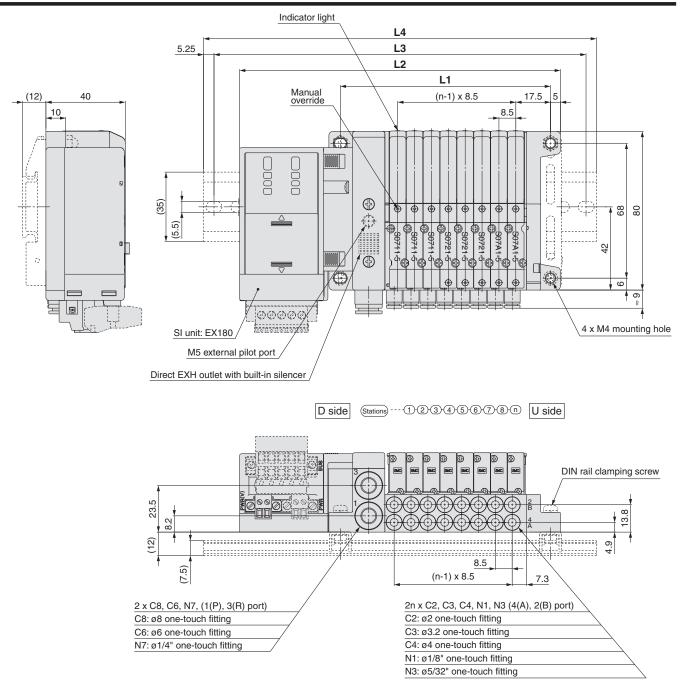
Series S0700 Slim Compact Plug-in Manifold Bar Base

kit (Serial Transmission) EX180 (For Output) Serial Transmission System



SMC

Slim Compact Plug-in Manifold Bar Base EX180 (For Output) Serial Transmission System Series S0700



* Dotted line indicates DIN rail mounting bracket (-D).

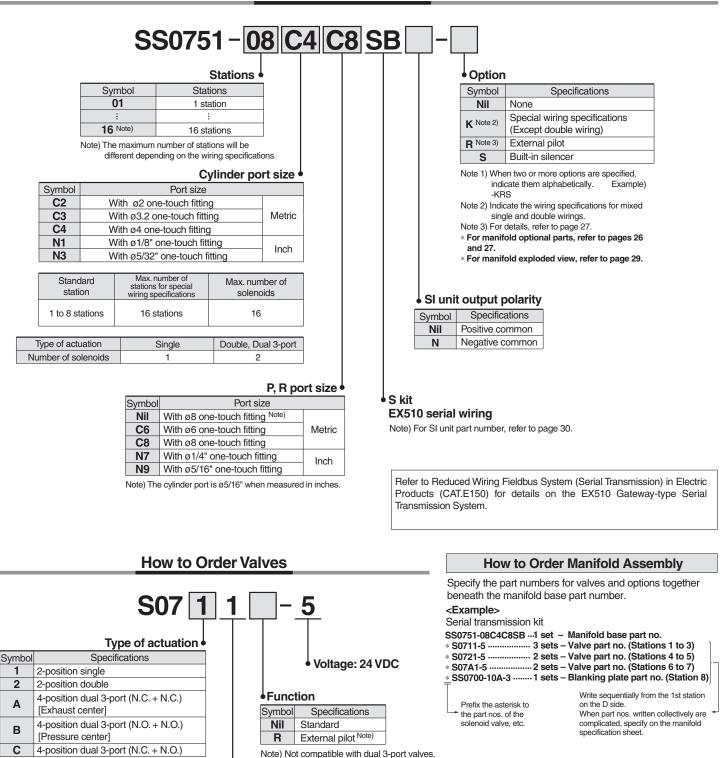
Dimensi	ons								For	mula L1 :	= 8.5n + 3	38, L2 = 8	.5n + 93.	7 n: Sta	ation (Max	kimum 32	stations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191
L2	110.7	119.2	127.7	136.2	144.7	153.2	161.7	170.2	178.7	187.2	195.7	204.2	212.7	221.2	229.7	238.2	246.7
L3	137.5	150	150	162.5	175	175	187.5	200	200	212.5	225	225	237.5	250	250	262.5	275
L4	148	160.5	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5
, n	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
L	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
L n L1	19 199.5	20 208	21 216.5	22 225	23 233.5	24 242	25 250.5	26 259	27 267.5	28 276	29 284.5	30 293	31 301.5	32 310			
L	19																
L L1	19 199.5	208	216.5	225	233.5	242	250.5	259	267.5	276	284.5	293	301.5	310			
L L1 L2	19 199.5 255.2	208 263.7	216.5 272.2	225 280.7	233.5 289.2	242 297.7	250.5 306.2	259 314.7	267.5 323.2	276 331.7	284.5 340.2	293 348.7	301.5 357.2	310 365.7			

SMC

10

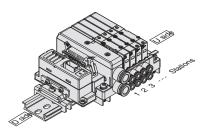
Series S0700 Slim Compact Plug-in Manifold Bar Base kit (Serial Transmission) EX510 Gateway-type Serial Transmission System

How to Order Manifold



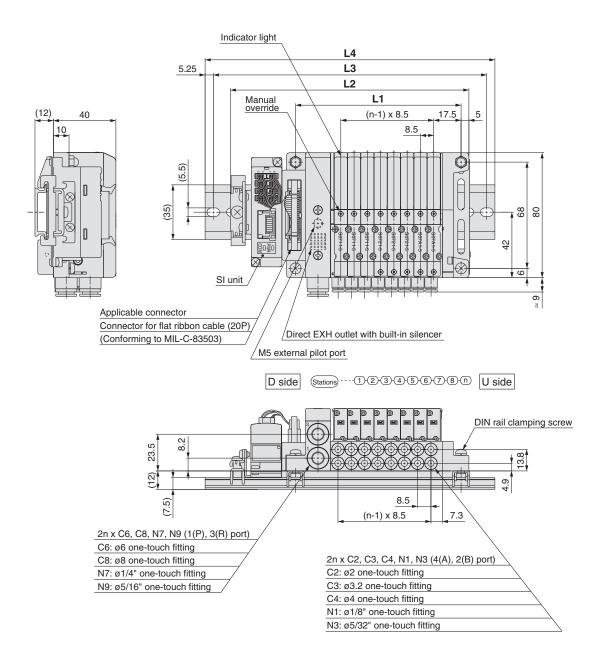
Base mounted plug-in

∕∂SMC



Note) For symbol, refer to page 7.

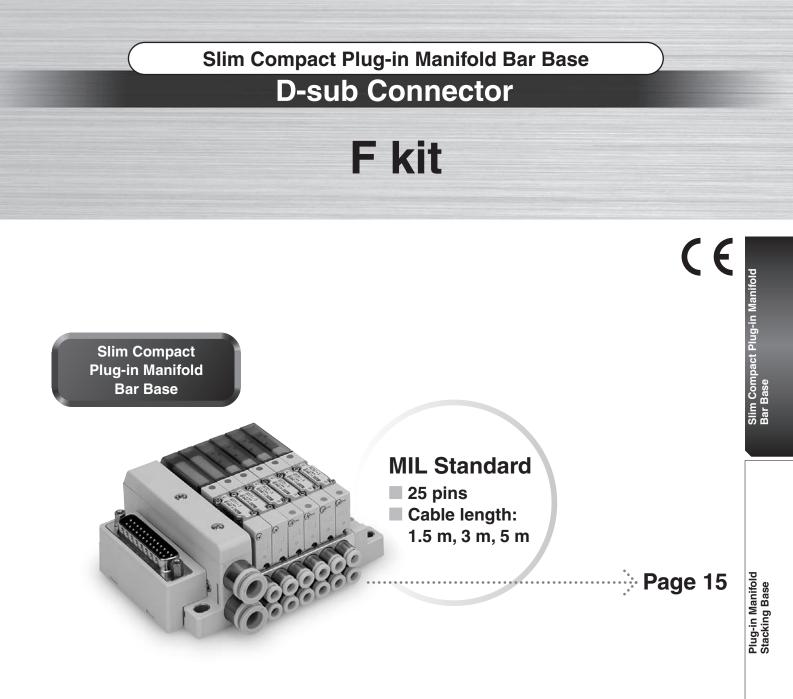
Slim Compact Plug-in Manifold Bar Base EX510 Gateway-type Serial Transmission System Series S0700



Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 84.7												84.7 n: S	Station (Ma	aximum 16	6 stations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174
L2	101.7	110.2	118.7	127.2	135.7	144.2	152.7	161.2	169.7	178.2	186.7	195.2	203.7	212.2	220.7
L3	125	137.5	150	150	162.5	175	175	187.5	200	200	212.5	225	225	237.5	250
L4	135.5	148	160.5	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5

SMC

Plug Lead Single Unit



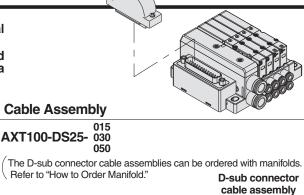
Series S0700 Slim Compact Plug-in Manifold Bar Base kit (D-sub Connector)

- The D-sub connector reduces installation labor for electrical connections.
- Using the D-sub connector (25P), conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.

Electrical Wiring Specifications

D-sub connector

 \bigcirc



Wire Color by

Terminal No.

color

Black

Brown

Red

Orange

Yellow

Pink

Blue

Purple

Gray

White

White

Yellow Orange

Yellow

Pink

Blue

Purple

Gray

Orange

Red

Brown

Pink

Gray

Black

White

Dot

marking

None

None

None

None

None

None

None

White

Black

Black

Red

Red

Red

Black

Black White

None

None

Black

White

White

Red

Red

White

None

Terminal Lead wire

no.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

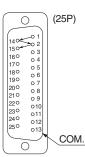
25

As the standard electrical wiring specifications, double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station for 12 stations or less, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer to "Special Wiring Specifications" (Option) below.

250 012 013	Connector terminal no.				(15000000000000000000000000000000000000
	Terminal no.		Polarity	Lead wire color	Dot marking
	SOL.A 0 1	()	(+)	Black	None
Station 1 {	SOL.B 0 14	(-)	(+)	Yellow	Black
Chatian O	SOL.A 0 2	(-)	(+)	Brown	None
Station 2	SOL.B 0 15	(-)	(+)	Pink	Black
Station 3	SOL.A 0 3	(-)	(+)	Red	None
	SOL.B 0 16	(-)	(+)	Blue	White
Station 4	SOL.A 0 4	(-)	(+)	Orange	None
	SOL.B 0 17	(-)	(+)	Purple	None
Station 5	SOL.A 0 5	(-)	(+)	Yellow	None
	SOL.B 0 18	(-)	(+)	Gray	None
Station 6	SOL.A 0 6	(-)	(+)	Pink	None
	SOL.B 0 19	(-)	(+)	Orange	Black
Station 7	SOL.A 0 7	(-)	(+)	Blue	None
	SOL.B 0 20	(-)	(+)	Red	White
Station 8	SOL.A 0 8	(-)	(+)	Purple	White
	SOL.B 0 21	(-)	(+)	Brown	White
Station 9	SOL.A 9	(-)	(+)	Gray	Black
	SOL.B O 22	(-)	(+)	Pink	Red
Station 10	SOL.A 0 10	(-)	(+)	White	Black
	SOL.B 0 23	(-)	(+)	Gray	Red
Station 11	<u>SOL.A</u> 0 11	(-)	(+)	White	Red
	SOL.B O 24	(-)	(+)	Black	White
Station 12	SOL.A 0 12	(-)	(+)	Yellow	Red
	SOL.B 0 25	(-)	(+)	White	None
	COM. 0 13	(+)	()	Orange	Red
\sim	F	Positi CON		Note)	
()					

Note) Mounting valve has no polarity. It can also be used as a negative common.

Special Wiring Specifications (Option) [-K]



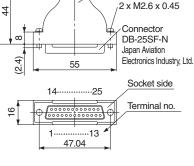
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24.

1. How to Order valves

Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers



Cable

≈ ø10

O.D. ø1.4

Seal (Length)

Molded cover

0.3 mm² x 25 pins

D-sub Connector Cable Assembly (Option)

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-DS25-015	Cable
3 m	AXT100-DS25-030	0.3 mm ² x
5 m	AXT100-DS25-050	25 cores

* For other commercial connectors, use a 25pin type with female connector conforming to MIL-C-24308.

* Cannot be used for movable wiring.

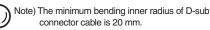
Electrical Characteristics

Item	Property								
Conductor resistance Ω/km, 20°C	65 or less								
Voltage limit V, 1 min, AC	1000								
Insulation resistance MΩ/km, 20°C	5 or more								

SMC

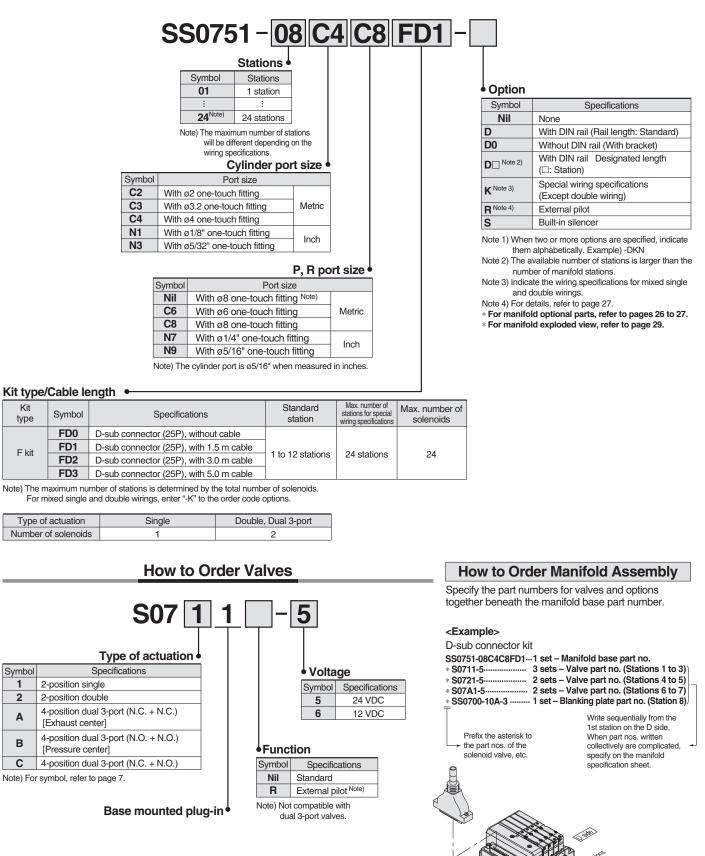
Connector manufacturers' example

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



Slim Compact Plug-in Manifold Bar Base Series S0700

How to Order Manifold



Kit

type

F kit

Symbol

1

2

Α

в

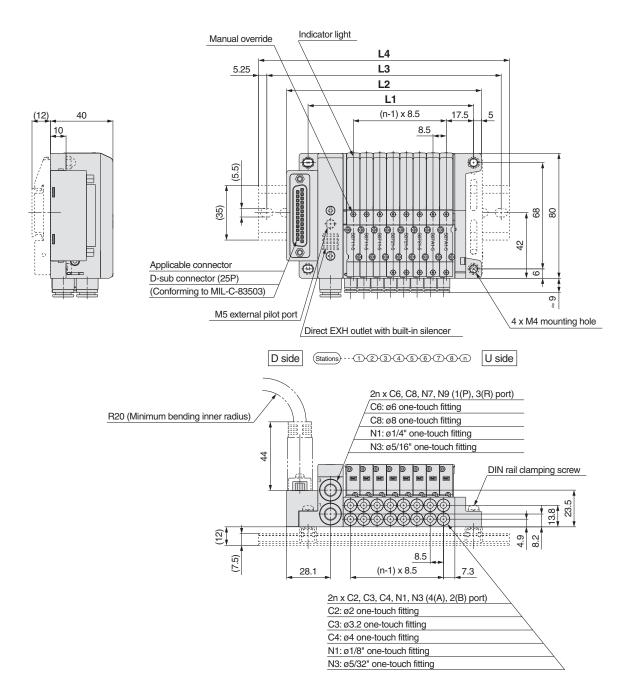
С

Plug Lead Manifold Bar Base

Plug Lead Single Unit

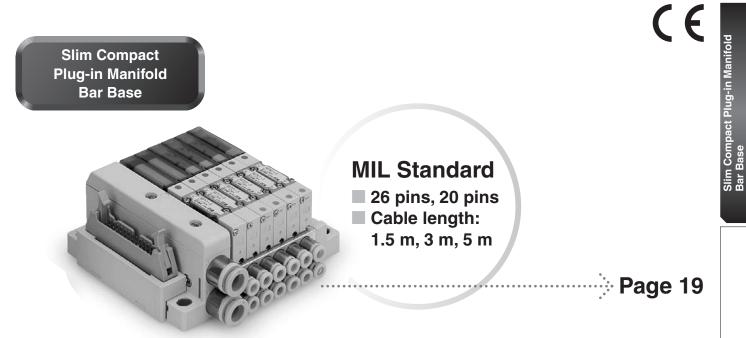
∕∂SMC





Dimens	sions													Formula	a L1 = 8.	.5n + 38	8, L2 = 8	1.5n + 5	6.7 n:	Station	(Maxim	um 24 s	stations)
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191	199.5	208	216.5	225	233.5	242
L2	73.7	82.2	90.7	99.2	107.7	116.2	124.7	133.2	141.7	150.2	158.7	167.2	175.7	184.2	192.7	201.2	209.7	218.2	226.7	235.2	243.7	252.2	260.7
L3	100	112.5	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	237.5	250	262.5	275	275	287.5
L4	110.5	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298

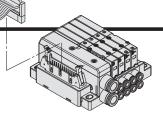
Slim Compact Plug-in Manifold Bar Base Flat Ribbon Cable **P kit**



Plug-in Manifold Stacking Base

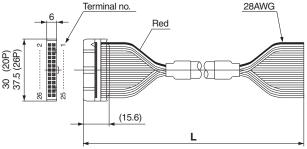
Series S0700 Slim Compact Plug-in Manifold Bar Base kit (Flat Ribbon Cable)

- Flat ribbon cable connector reduces installation labor for electrical connection.
- Using the connector for flat ribbon cable (26P, 20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.



Electrical Wiring Specifications Flat ribbon cable connector Double wiring (connected to SOL. A and 26 🗆 🗆 25 SOL. B) is adopted for the internal wiring 24 🗆 🗆 23 of each station, regardless of valve and 22 0 0 21 option types. 20 🗆 🗆 19 Mixed single and double wiring is 180 017 available as an option. For details, refer to 16 🗆 🗆 15 "Special Wiring Specifications" (Option) 14 0 0 13 12 0 0 11 below. 10 🗆 🗆 9 8 🗆 🗆 7 6005 Connector terminal no. 4 🗆 🗆 3 2 🗆 🗆 1 Triangle mark indicator position <26P> <20P> Terminal Polarity Terminal Polarity no. no. SOL.A SOL.A (--) 0 1 (+)1 (-)(+)SOL.B 2 SOL.B Station 1 Station 1 (-) (+) 2 (-) (+) SOL.A 3 SOL.A (-) (+) 3 (-) (+) SOL.B 4 SOL.B Station 2 Station 2 (-) 4 (+) (-) (+) SOLA 5 SOL.A (-) (+) 5 (-) (+) SOL.B₀6 SOL.B Station 3 Station 3 6 (--) (+)(-) (+)SOL.A 0 7 SOL.A 7 (--) (+) (-) (+) SOL.B 8 SOL.B₀₈ Station 4 Station 4 (-) (+) (-) (+) SOL.A 9 SOL.A 9 (-) (+) (-) (+) SOL.B 0 10 SOL.B 0 10 Station 5 Station 5 (-) (+) (-) (+) SOL.A 0 11 SOL.A 0 11 (--) (+)(-)(+)SOL.B₀12 SOL.B_{0 12} Station 6 Station 6 (--) (+) (-) (+) SOL.A 0 13 SOL.A 0 13 (-) (+) (-) (+) SOL.B 0 14 SOL.B₀14 Station 7 Station 7 (-) (+) (-) (+) SOL.A 0 15 SOL.A 0 15 (-) (+) (-) (+) SOL.B 0 16 SOL.B 0 16 Station 8 Station 8 (--) (+)(--) (+)SOL.A 0 17 SOL.A_{0 17} (-) (+) (-) (+) SOL.B 0 18 SOL.B 0 18 Station 9 Station 9 (--) (+) (-) (+) SOL.A 0 19 (-) (+) (-) COM. 0 19 (+) SOL.B₀₂₀ Station 10 (-) (+) COM. 0 20 (-) (+) SOL.A 0 21 (--) (+)Positivo Negative COM SOL.B₀₂₂ Station 11 (--) (+) COM SOL.A 23 (-) (+) SOL.B₀₂₄ Station 12 (--) (+) (-) COM. 0 25 (+) COM. 0 26 (-) (+) Positive Negative Note) COM COM Note) Mounting valve has no polarity. It can also be used as a negative common.

Cable Assembly AXT100-FC 20 26 3 (Type 26P flat ribbon cable connector assemblies can be ordered with manifolds. Refer to "How to Order Manifold." Terminal no. 28AWG



Flat Ribbon Cable Connector Assembly (Option)

Cable	Assembly part no.								
length (L)	26P	20P							
1.5 m	AXT100-FC26-1	AXT100-FC20-1							
3 m	AXT100-FC26-2	AXT100-FC20-2							
5 m	AXT100-FC26-3	AXT100-FC20-3							

* For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.

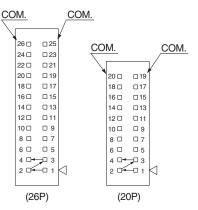
Cannot be used for movable wiring.

Connector manufacturers' example

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

Oki Electric Cable Co., Ltd.

Special Wiring Specifications (Option) [-K]



Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24 for 26P, 18 for 20P.

1. How to Order valves

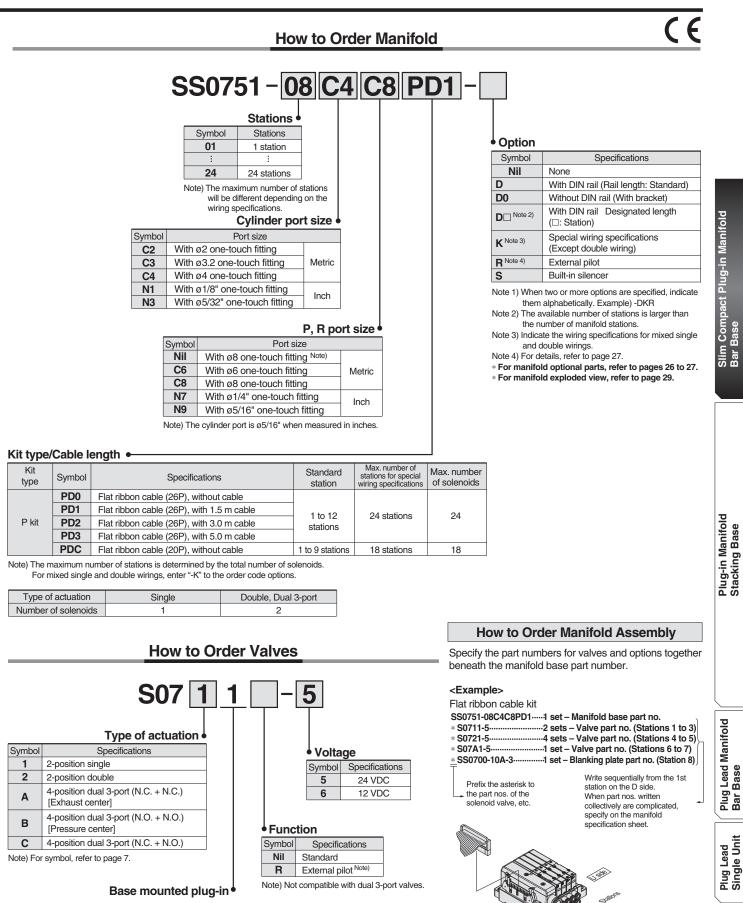
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

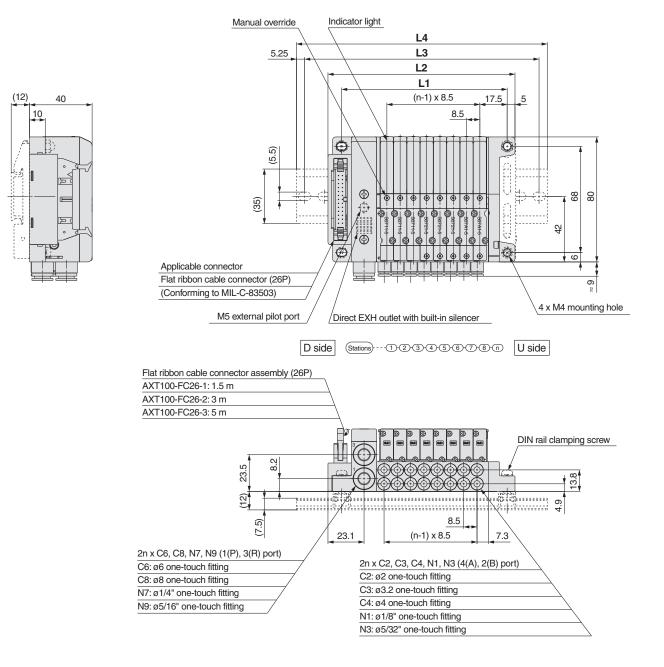
Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



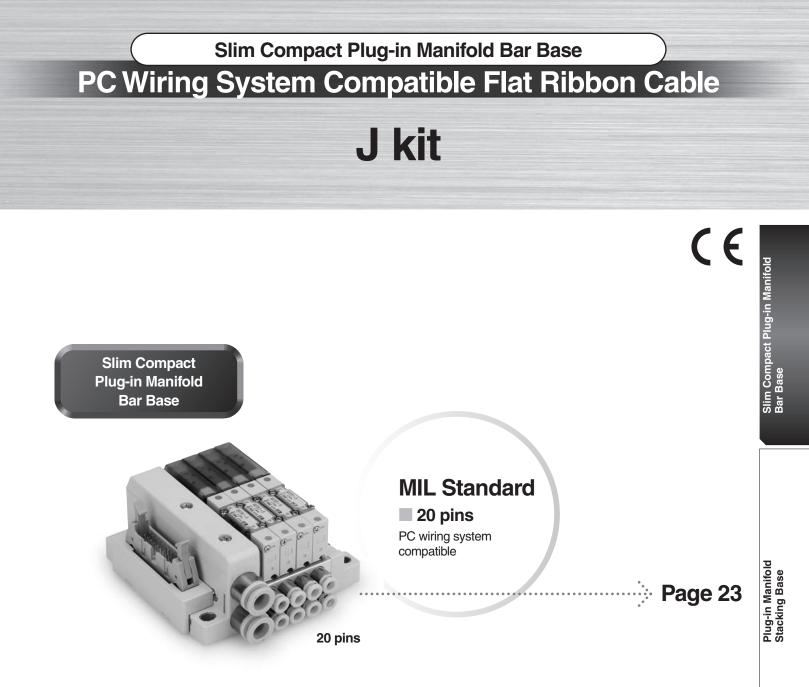
Slim Compact Plug-in Manifold Bar Base Series S0700



SMC

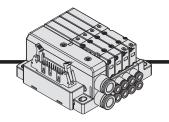


Dimens	ions												F	ormula	L1 = 8.	5n + 38	, L2 = 8	.5n + 51	.7 n:	Station (Maximu	um 24 s	tations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191	199.5	208	216.5	225	233.5	242
L2	68.7	77.2	85.7	94.2	102.7	111.2	119.7	128.2	136.7	145.2	153.7	162.2	170.7	179.2	187.7	196.2	204.7	213.2	221.7	230.2	238.7	247.2	255.7
L3	100	100	112.5	125	137.5	137.5	150	150	162.5	175	175	187.5	200	200	212.5	225	225	237.5	250	250	262.5	275	275
L4	110.5	110.5	123	135.5	148	148	160.5	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5



Plug Lead Single Unit

Series S0700 Slim Compact Plug-in Manifold Bar Base kit (PC Wiring System Compatible Flat Ribbon Cable)



- Compatible with PC wiring system.
- Using connector for flat ribbon cable (20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.

Electrical Wiring Specifications

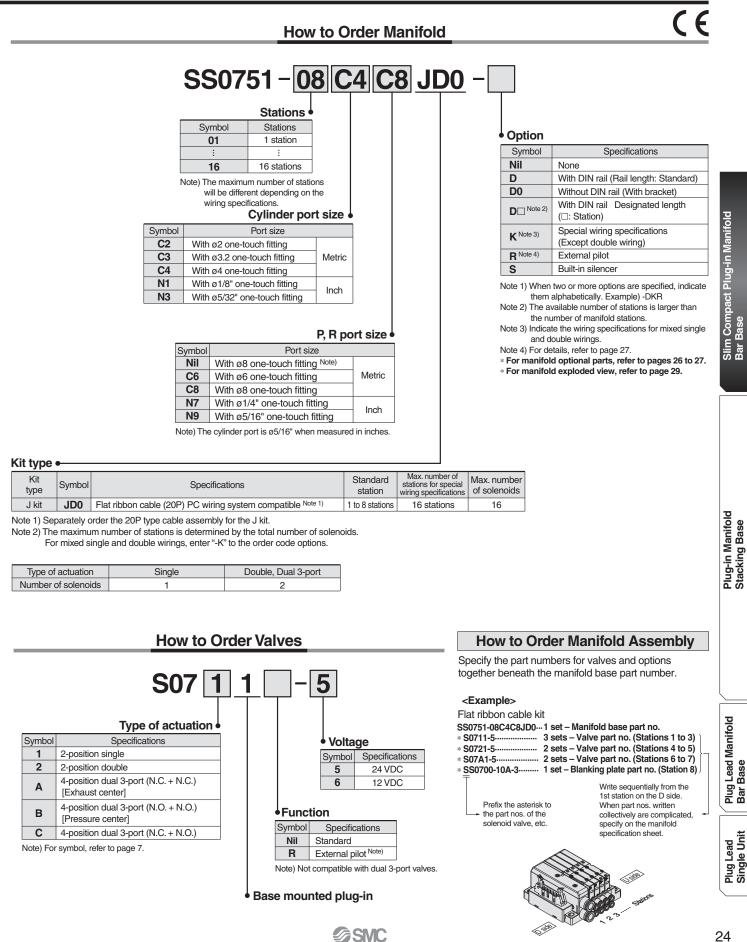
Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer to "Special Wiring Specifications" (Option) below. Terminal Polarity Flat ribbon cable connector no (+) o 20 (--) 20 🗌 🗌 19 Station 1 (+) (--) 18 🗌 🗌 17 (--) (+)16 🗌 🗌 15 Station 2 SOL.B (-) (+) 14 🗌 🗌 13 12 🗌 🗌 11 (+) (--) Station 3 10 🗌 🗌 9 (+) (-) 8 🗌 🗍 7 SOL (+) (--) Connector terminal no. Station 4 6 🗌 🗌 5 SOL B -0 (-) (+) 4 🗌 🗌 3 SOL.A -0 19 (-) (+) 2 🗌 🗌 1 Triangle mark Station 5 SOL.B -0.17 (-) (+) indicator position SOL.A (+) -0 15 (--) Station 6 SOL.B -0 13 Special Wiring Specifications (Option) [-K] (-) (+) 0 11 (+) (-) Station 7 SOL.B 20 🖵 □ 19 0 (-) (+) Ċ 18 17 SOL.A (+) (--) Station 8 15 SOL.B 16 -0 5 (-) (+) 13 14 0 4 (-) (+) 11 12 0 3 (-) (+) 10 **b** 9 **†** 7 COM 8 -0 2 (+) (--) 5 <u>COM.</u> 0 1 6 Н (+) (-) 4 🗌 🗌 3 Positive Negativ COM COM 2 🗌 🗌 1 COM COM J kit Flat ribbon cable connector (20P) Note) Mounting valve have no polarity. It can also be used as a PC wiring system compatible negative common. For details about the PC wiring system, refer to catalog Mixed single and double wiring are available as an option. The maximum number CAT.ES02-20 separately. of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 16. 1. How to Order valves

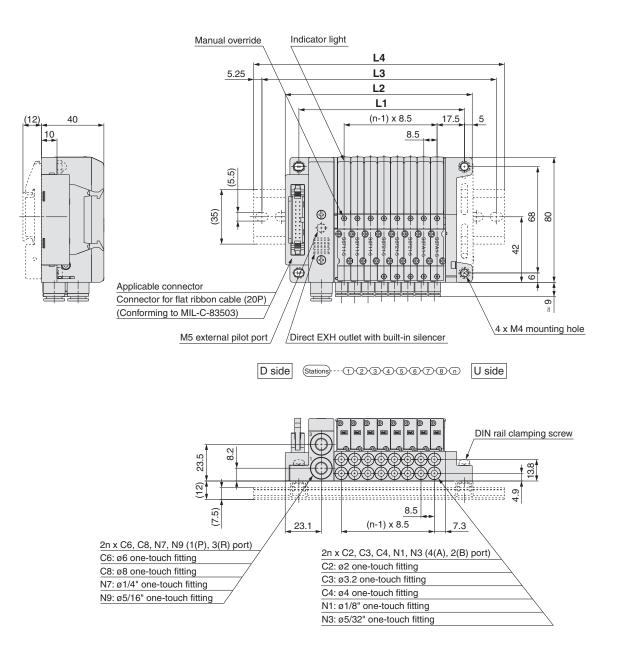
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.

Slim Compact Plug-in Manifold Bar Base Series \$0700





Dimensi	ions								Formula L1	= 8.5n + 3	88, L2 = 8.5	in + 51.7	n: Station (Maximum [.]	16 stations)
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174
L2	68.7	77.2	85.7	94.2	102.7	111.2	119.7	128.2	136.7	145.2	153.7	162.2	170.7	179.2	187.7
L3	100	100	112.5	125	137.5	137.5	150	150	162.5	175	175	187.5	200	200	212.5
L4	110.5	110.5	123	135.5	148	148	160.5	160.5	173	185.5	185.5	198	210.5	210.5	223

Manifold Optional Parts

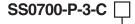
Blanking plate assembly

SS0700-10A-3

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Weight: 0.3 oz (8 g)

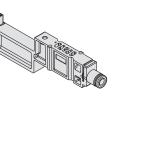
Individual SUP spacer



Mounted on the manifold block to make an independent supply port when each solenoid valve uses different operating pressure.

Weight: 0.53 oz (15 g)

Port size									
Applicable tube									
Applicable tube ø2									
Applicable tube ø3									
Applicable tube ø4									
Applicable tube ø1/8"									
Applicable tube ø5/32"									



œ

Q

26 26

Individual EXH spacer

SS0700-R-3-C

Mounted on the manifold block to make an independent exhaust port when the exhaust from one valve affects valves on other stations in the air circuit.

Nil

10

15

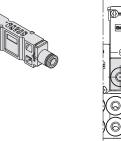
Blanking plate with output

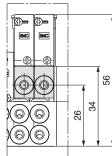
Weight: 0.53 oz (15 g)

SS0700-1C3-

Port size

Symbol	Applicable tube
C2	Applicable tube ø2
C3	Applicable tube ø3
C 4	Applicable tube ø4
N1	Applicable tube ø1/8"
N3	Applicable tube ø5/32"





Plug-in Manifold Stacking Base

oact Plug-in Manifold

Som

Bar

202000252500303000

Lead wire length (mm)

600

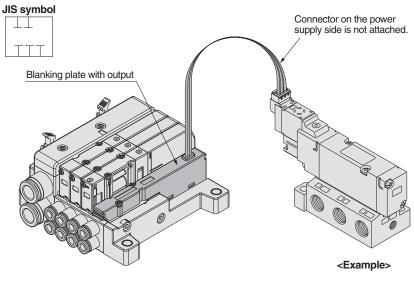
1000

1500

(Including the mounted valves) When the current is output from two positions at the same time, the current should be 0.25 A or less.

Note 2) Please consult with SMC for the max. allowable current for serial transmission kit.

Weight: 0.8 oz (23 g)



Series S0700 Slim Compact Plug-in Manifold Bar Base Manifold Optional Parts

External pilot [-R]

This can be used when the air pressure is 14.5 to 29.0 psi (0.1 to 0.2 MPa) lower than the minimum operating pressure of the solenoid valves or used for vacuum specifications. Add R to the part numbers of manifolds and valves to indicate the external pilot specifica-

tions. An M5 port will be installed on the top side of the manifold's SUP/EXH block.

- How to Order Valves (Example)
- S0710 R -5

• External pilot

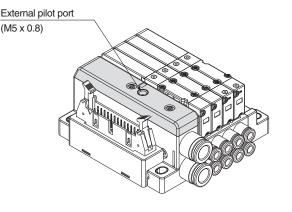
- How to Order Manifold (Example)
- * Indicate R for an option.
- SS0750-08C4FD1-R

• External pilot

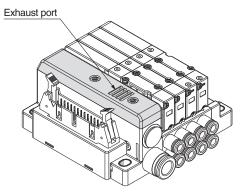
Direct EXH outlet with built-in silencer [-S]

This is a type with an exhaust port atop the manifold end plate. The built-in silencer exhibits an excellent noise suppression effect. (Noise reduction: 30 dB)

- Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.
 - When ordering this option incorporated with a manifold, suffix "-S" to the end of the manifold part number.
 - For precautions on handling and how to replace elements, refer to "Specific Product Precautions."



Note 1) Not compatible with dual 3-port valves. Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specifications of the external pilot valve. Note 3) Valves with the external pilot have a pilot EXH with individual exhaust specifications and EXH can be pressurized. However, the pressure supplied from EXH should be 0.4 MPa or lower.



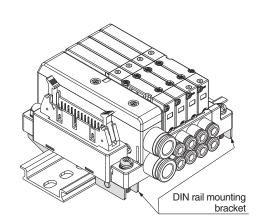
DIN rail mounting bracket SS0700 - 57A - 3

It is used for mounting a manifold on a DIN rail. The DIN rail mounted bracket is fixed to the manifold end plate. (The specification is the same as that for the option "-D".)

1 set of DIN rail mounting bracket is included for 1 manifold (2 or 3 DIN rail mounting brackets (S, T kit)).



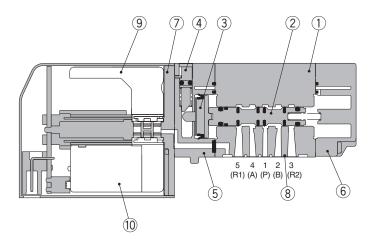
When ordering this option incorporated with a manifold, suffix "D" to the end of the manifold part number.

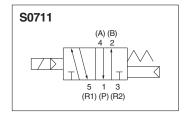


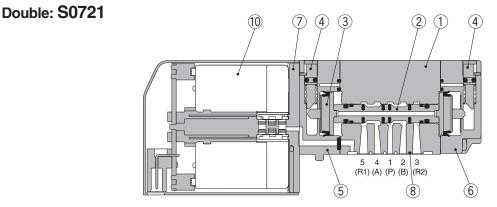
Slim Compact Plug-in Manifold Bar Base Series S0700

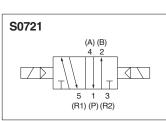
Construction





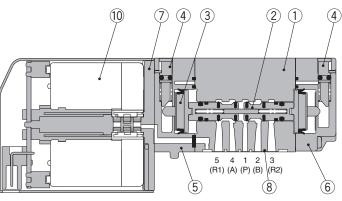






Slim Compact Plug-in Manifold Bar Base



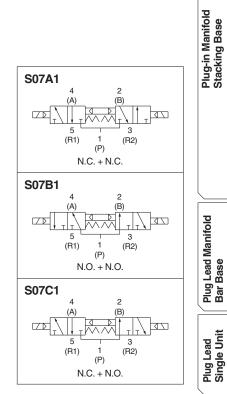


SMC

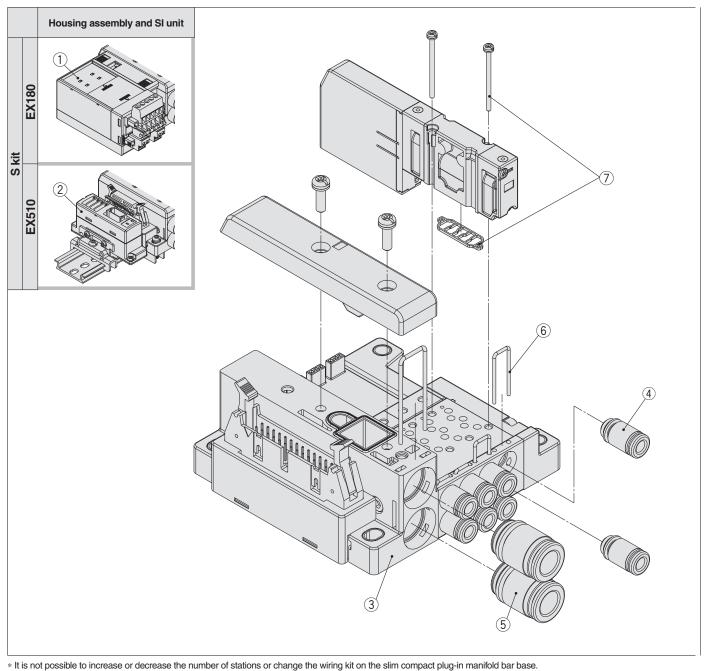
Component Parts

No.	Description	Material
1	Body	Zinc die-casted
2	Spool	Aluminum
3	Piston	Resin
4	Manual override	Resin
5	Adapter plate	Resin
6	End plate	Resin
7	Pilot spacer	Resin
8	Interface gasket	HNBR
9	Plate	Resin
10	Pilot valve assembly Note)	_

Note) Please consult with SMC for pilot valve replacement.



Series S0700 Slim Compact Plug-in Manifold Bar Base Manifold Exploded View

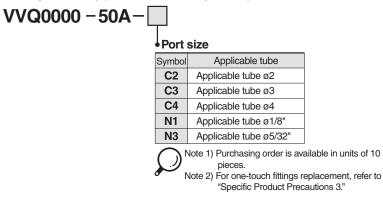


To change them, please change the entire base unit.

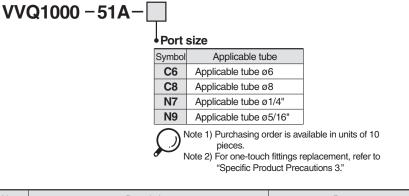
Manifold Assembly Part No.

No.	Description	Part no.	Note
		EX180-SDN3	DeviceNet [™] 32 outputs NPN (positive common) T-branch type communication connector
		EX180-SDN3A	DeviceNet [™] 32 outputs NPN (positive common) Straight type communication connector
		EX180-SDN4	DeviceNet [™] 16 outputs NPN (positive common) T-branch type communication connector
		EX180-SDN4A	DeviceNet [™] 16 outputs NPN (positive common) Straight type communication connector
		EX180-SMJ3	CC-Link 32 outputs NPN (positive common) T-branch type communication connector
	01	EX180-SMJ3A	CC-Link 32 outputs NPN (positive common) Straight type communication connector
	SI unit	EX180-SDN5	DeviceNet [™] 32 outputs PNP (negative common) T-branch type communication connector
		EX180-SDN5A	DeviceNet [™] 32 outputs PNP (negative common) Straight type communication connector
		EX180-SDN6	DeviceNet [™] 16 outputs PNP (negative common) T-branch type communication connector
		EX180-SDN6A	DeviceNet [™] 16 outputs PNP (negative common) Straight type communication connector
		EX180-SMJ5	CC-Link 32 outputs PNP (negative common) T-branch type communication connector
		EX180-SMJ5A	CC-Link 32 outputs PNP (negative common) Straight type communication connector
	01	EX510-S002A	NPN (Positive common)
2	SI unit	EX510-S102A	PNP (Negative common)
3	Base unit	SS0751-000	Refer to "How to Order" for each kit.

4 Fitting assembly part number for cylinder port



5 Fitting assembly part number for P, R port



No.	Description	Part no.
6	Clip	SS0700-80A-5
•	•þ	

Note) 1 set includes 10 pieces.

No.	Description	Part no.
7	Gasket, Screw	S0700-GS-3

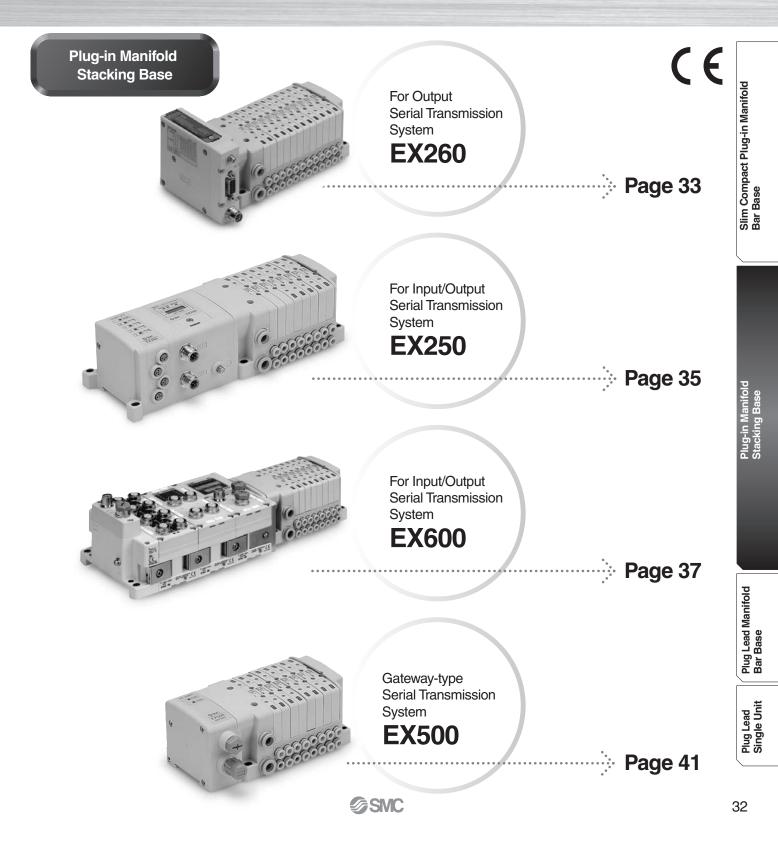
Note) Above part number consists of 10 units. Each unit has one gasket and two screws.

Plug Lead Single Unit



Plug-in Manifold Stacking Base Serial Transmission

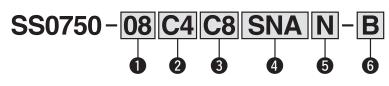
S kit

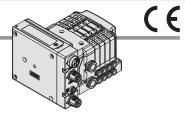


Series S0700 Plug-in Manifold Stacking Base

kit (Serial Transmission) EX260 (For Output) Serial Transmission System

How to Order Manifold





6 Option

Symbol

S

Stations

In the case of the 32-output SI unit

Symbol	Stations	Note
01	1 station	
:		Double wiring Note 1)
16	16 stations	
01	1 station	Cracified levent Note 2)
:	:	Specified layout Note 2) (Available up to 32 solenoids)
24	24 stations	(Available up to 32 soleholds)

In the case of the 16-output SI unit

Symbol	Stations	Note
01	1 station	
:	:	Double wiring Note 1)
08	8 stations	
01	1 station	Creatived Invest Note 2)
:	:	Specified layout Note 2) (Available up to 16 solenoids)
16	16 stations	(Available up to 18 soleriolds)

Note 1) Double wiring : single, double, 3-position and 4-position solenoid valves can be used on all manifold stations. Up to 24 stations due to the structure of the

manifold. Please note the maximum number of stations is 24 for single wiring, too.

- Note 2) Specified layout: Indicate the wiring specifications with the manifold specification sheet. (Note that double, 3-position and 4-position valves cannot be used where single solenoid wiring has been specified.)
- Note 3) This also includes the number of blanking plate assembly.

2 Cylinder port size

Symbol	Port size	
C2	With ø2 one-touch fitting	
C3	With ø3.2 one-touch fitting	
C4	C4 With ø4 one-touch fitting	
CM	Mixed sizes and with port plug Note)	
N1	N1 With ø1/8" one-touch fitting	
N3	N3 With ø5/32" one-touch fitting	
NM	Mixed sizes and with port plug Note)	

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

B P, R port size

Symbol	Port size	
Nil With ø8 one-touch fitting ^{Note)}		
C6 With ø6 one-touch fitting N		Metric
C8	With ø8 one-touch fitting	
N7	With ø1/4" one-touch fitting	lun ala
N9	With ø5/16" one-touch fitting	Inch

Note) The cylinder port is ø5/16" when measured in inches.

4 Kit type

Symbol	Protocol	Number of outputs	Communication connector	
SD0	Without SI unit			
SQA	DeviceNet™	32	M12	
SQB	Devicemet	16	IVITZ	
SNA		32	M12	
SNB	PROFIBUS	16	IVITZ	
SNC	DP	32	D-sub	
SND		16	D-Sub	
SVA	CC-Link	32	M12	
SVB	CC-LINK	16	IVIIZ	
SDA	EtherCAT	32	M12	
SDB	EulerCAT	16	10112	
SFA	PROFINET	32	M12	
SFB	FROFINEI	16	11/12	

Note 1) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options.

Note 2) For SI unit part number, refer to page 76.

	Single	Double, Dual 3 port
Number of solenoids	1	2

5 SI unit output polarity

Nil	Positive common
Ν	Negative common

SMC

Symbol	opecilications
Nil	None
B Note 2)	With back pressure check valve (All stations)
D	With DIN rail (Rail length: Standard)
D0	Without DIN rail (with bracket)
D Note 3)	With DIN rail Designated length (: Station)
K Note 4)	Special wiring specifications (Except double wiring)
N	With name plate
R Note 5)	External pilot

Specifications

Note 1) When two or more options are specified, indicate them alphabetically. Example) -BKN

- Note 2) When installing a back pressure check valve on the required station, enter the part number and specify the station position on the manifold specification sheet.
- Note 3) The available number of stations is larger than the number of manifold stations.
- Note 4) Indicate the wiring specifications for mixed single
- and double wirings.

Built-in silencer

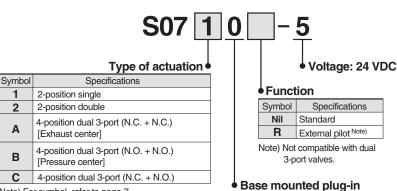
- Note 5) For details, refer to page 69.
- * For manifold optional parts, refer to pages 69 to 73. * For manifold exploded view, refer to page 75.
- * When the "SD0" (Without SI unit) is specified,

How to Order Manifold Assembly

Specify the part numbers for valves and options

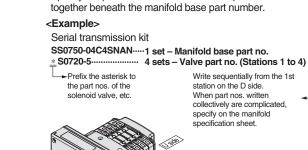
"-D", "-D \square " cannot be selected.

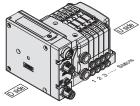
Refer to Fieldbus System (CAT.E02-25) for details on the EX260 Integrated-type (For Output) Serial Transmission System.



How to Order Valves

Note) For symbol, refer to page 7.





Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify on the manifold specification sheet.

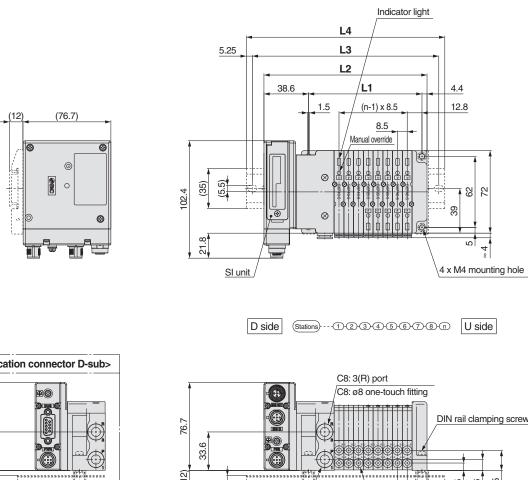
2

Α

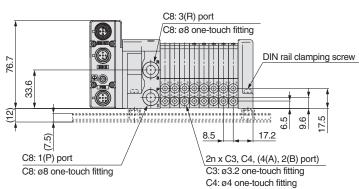
В

С

Plug-in Manifold Stacking Base EX260 (For Output) Serial Transmission System Series S0700

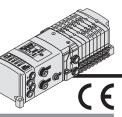


<communication connector="" d-sub=""></communication>
(7.5) (7.5) (7.5) (7.5) (7.5) (7.5)



Dimens	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 74 n: Station (Maximum 24 stations)															
L n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	39.5	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	82.5	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210
L3	112.5	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5
L4	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248
L	17	18	19	20	21	22	23	24								
L1	175.5	184	192.5	201	209.5	218	226.5	235								
L2	218.5	227	235.5	244	252.5	261	269.5	278								
L3	250	250	262.5	275	275	287.5	300	300	-							
L4	260.5	260.5	273	285.5	285.5	298	310.5	310.5								

kit (Serial Transmission) EX250 (For Input/Output) Serial Transmission System



How to Order Manifold

SS0750-08 C4 C8 SDQ 5 6

(1) Stations

Symbol	Stations
01	1 station
:	
24 Note)	24 stations

Note) The maximum number of stations will be different depending on the wiring specifications.

(2) Cylinder port size

Symbol	Port size				
C2	With ø2 one-touch fitting				
C3	With ø3.2 one-touch fitting				
C4	A With ø4 one-touch fitting				
CM	Mixed sizes and with port plug Note)				
N1	With ø1/8" one-touch fitting				
N3	N3 With ø5/32" one-touch fitting Inch				
NM	Mixed sizes and with port plug Note)				

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

3 P. R port size

_ ,	1		
Symbol	Port size		
Nil	With ø8 one-touch fitting Note)		
C6	With ø6 one-touch fitting	Metric	
C8	With ø8 one-touch fitting		
N7	With ø1/4" one-touch fitting	Inch	
N9	With ø5/16" one-touch fitting	men	

Note) The cylinder port is ø5/16" when measured in inches.

(4) Kit type

Kit type		Note 2) Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids									
		SD0	Without SI unit												
		SDQ	DeviceNet™	1 to 16	24 ^{Note 3)} stations	32									
		SDN	PROFIBUS DP												
	For I/O serial transmission	SDV	CC-Link	stations											
S kit		SDY	CANopen												
5 KIL		SDZEN	EtherNet/IP™												
		SDTA	AS-Interface 31 slave, 8 in/8 out, 2 isolated common type	1 to 4 stations	8 stations	8									
											SDTB	AS-Interface 31 slave, 4 in/4 out, 2 isolated common type	1 to 2 stations	4 stations	4
		SDTC	AS-Interface 31 slave, 8 in/8 out, 1 common type	1 to 4 stations	8 stations	8									
		SDTD	AS-Interface 31 slave, 4 in/4 out, 1 common type	1 to 2 stations	4 stations	4									

Note 1) The maximum number of stations is determined by the total number of solenoids.

For mixed single and double wirings, enter "-K" to the order code options.

Note 2) For SI unit part number, refer to page 76.

Note 3) Up to 24 stations due to the structure of the manifold. Please note the maximum number of stations is 24 for single wiring, too.

Type of actuation	Single	Double, Dual 3-port
Number of solenoids	1	2

S07

How to Order Valves

Type of actuation

Symbol	Specifications
1	2-position single
2	2-position double
Α	4-position dual 3-port (N.C. + N.C.) [Exhaust center]
В	4-position dual 3-port (N.O. + N.O.) [Pressure center]
С	4-position dual 3-port (N.C. + N.O.)

Note) For symbol, refer to page 7.

(5) SI u	nit output polarity	
	01	

	SI unit common		EX250						
			DeviceNet™	PROFIBUS DP	CC-Link	AS-Interface	CANopen	EtherNet/IP™	
	Nil	Positive common	_	_	0	_	_	—	
	N	Negative common	0	0	_	0	0	0	

9 Option

Symbol

Nil

D Note 3)

K Note 4)

R Note 5)

B Note 2)

D

D0

Ν

None

(All stations)

(□: Station)

Note) Without SI unit (SD0), the symbol is nil.

(6) Input block (for I/O unit only)

<u> </u>	
Symbol	Specifications
Nil	SI unit/Input block: None (SD0)
0	Input block: None
1	Input block: 1 pc.
:	:
8	Input block: 8 pcs.

Note) Without SI unit (SD0), the symbol is nil.

(7) Input block type (for I/O unit only)

Symbol	Specifications					
Nil	Input block: None					
1	M12 2 inputs					
2	M12 4 inputs					
3	M8 4 inputs (3 pins)					
Note) Without SI unit (SD0), the symbol is nil.						

(8) Input block COM. (for I/O unit only)

\leq	,	.,
Symbol	Specifications	
Nil	PNP sensor input (Positive com or without input block	mon)

NPN sensor input (Negative common) Note) Without SI unit (SD0), the symbol is nil.

5

Function Symbol

Base mounted plug-in

Nil

R

Voltage: 24 VDC

Note) Not compatible with dual 3-port valves.

Specifications

Standard External pilot Note)

double wirings. Note 5) For details, refer to page 69. * For manifold optional parts, refer to pages 69 to 73.

Refer to Reduced Wiring Fieldbus System (Serial Transmission) in Electric Products (CAT.E150) for details on the EX250 Integrated-type (For Input/Output) Serial Transmission System.

How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

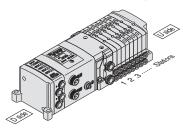
<Example>

Serial transmission kit

- SS0750-08C4SDQN13N 1 set Manifold base part no.
- S0720-5..... 2 sets - Valve part no. (Stations 4 to 5)
- S07A0-5..... 2 sets Valve part no. (Stations 6 to 7)
- SS0700-10A-1..... 1 set Blanking plate part no. (Station 8)

 - Prefix the asterisk to the part nos. of the solenoid valve, etc.

Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify on the manifold specification sheet.



Built-in silencer S Note 1) When two or more options are specified, indicate them alphabetically. Example) -BKN Note 2) When installing a back pressure check valve on the required station, enter the part number and specify the station position on the manifold specification sheet. Note 3) The available number of stations is larger than the number of manifold stations. Note 4) Indicate the wiring specifications for mixed single and

Specifications

With DIN rail (Rail length: Standard)

With back pressure check valve

Without DIN rail (With bracket) With DIN rail Designated length

Special wiring specifications

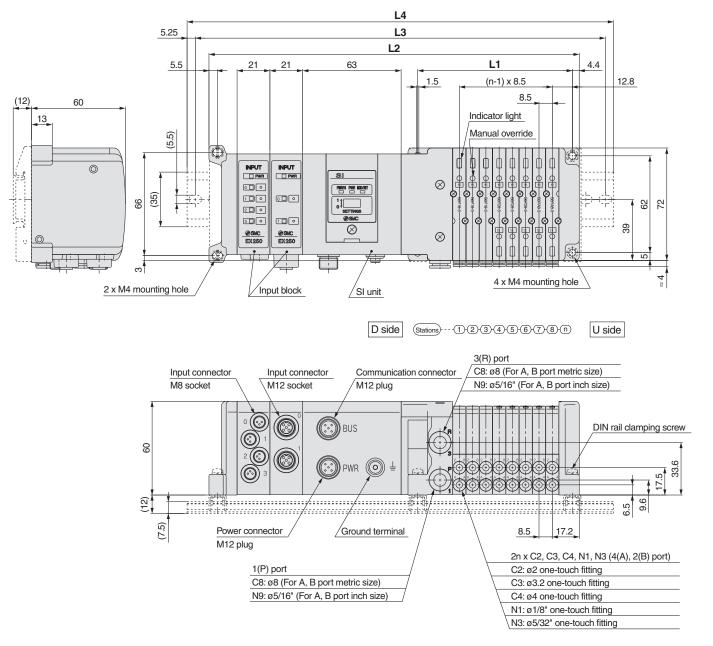
(Except double wiring)

With name plate

External pilot

* For manifold exploded view, refer to page 75.

Plug-in Manifold Stacking Base EX250 (For Input/Output) Serial Transmission System



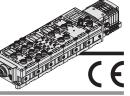
Dimens	sions		Formula L	1 = 8.5n +	31, L2 = 8	put blocks, 21 mm is added per 1 pc.) n: Station (Maximum 24 stations)									
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	186	194.5	203	211.5	220	228.5	237	245.5	254	262.5	271	279.5	288	296.5	305
L3	212.5	225	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5	325	325
L4	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	335.5
L	17	18	19	20	21	22	23	24							
L1	175.5	184	192.5	201	209.5	218	226.5	235							
L2	313.5	322	330.5	339	347.5	356	364.5	373							
L3	337.5	350	350	362.5	375	387.5	387.5	400							
L4	348	360.5	360.5	373	385.5	398	398	410.5							

SMC

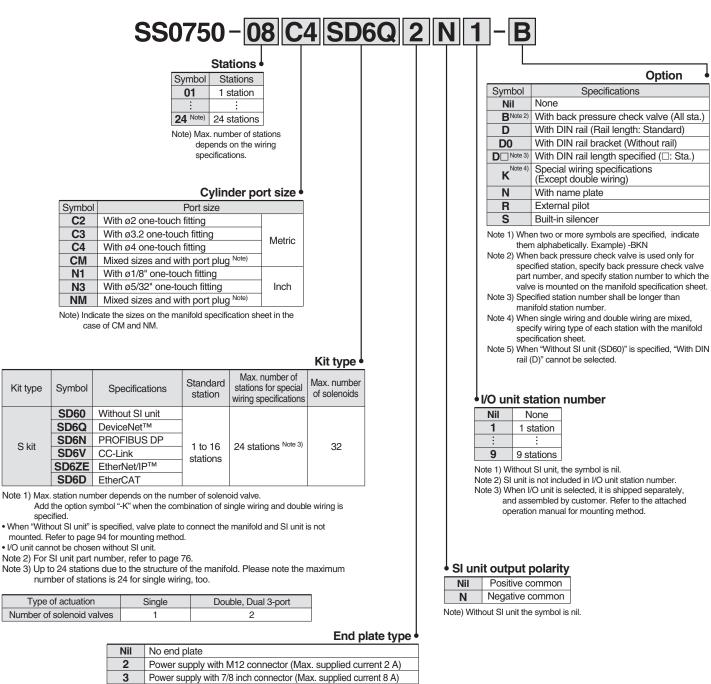
Slim Compact Plug-in Manifold Bar Base

Series S0700 Plug-in Manifold Stacking Base

kit (Serial Transmission) EX600 (For Input/Output) Serial Transmission System (Fieldbus System)



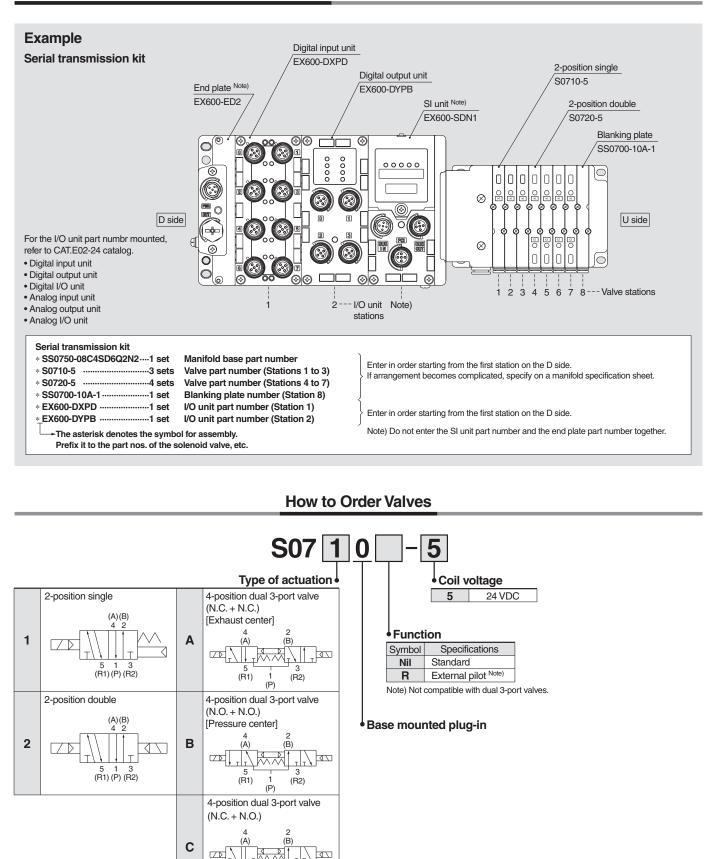
How to Order Manifold



Note) Without SI Unit, the symbol is nil.

Refer to Fieldbus System (For Input/Output) catalog CAT.E02-24 for details on the EX600 Integrated-type (For I/O) Serial Transmission System.

How to Order Manifold Assembly (Example)



Slim Compact Plug-in Manifold Bar Base

Plug Lead Single Unit

5

(R1)

(P)

3

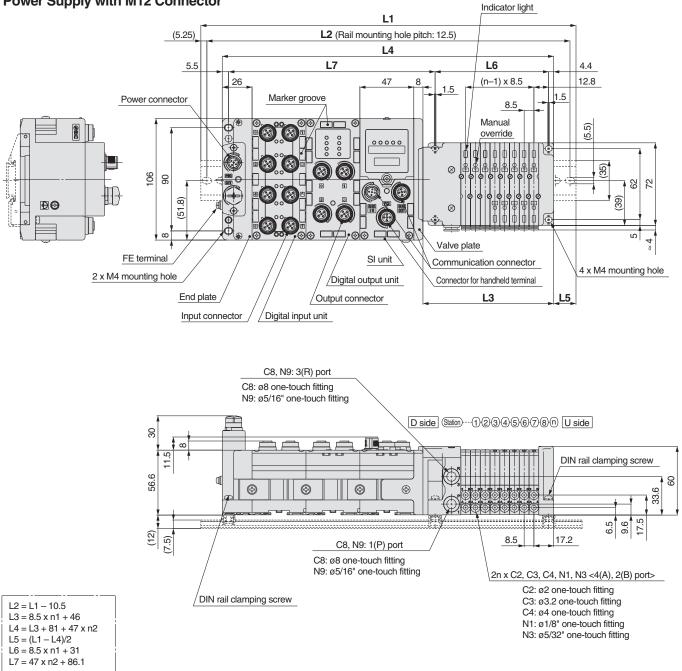
(R2)

Series S0700 Plug-in Manifold Stacking Base

EX600 (For Input/Output) Serial Transmission System (Fieldbus System)

Power Supply with M12 Connector

kit (Serial Transmission)

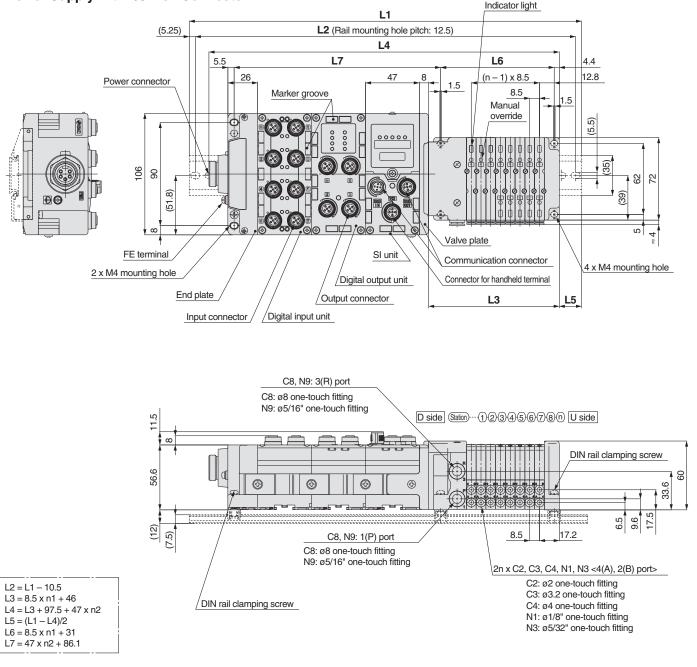


L1: DIN Rail Overall Length

I/O stations unit (n1) stations (n2)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	173	185.5	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	373
1	223	223	235.5	248	248	260.5	273	273	285.5	298	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	410.5
2	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	398	410.5	423	423	435.5	448	448	460.5
3	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5
4	360.5	373	373	385.5	398	398	410.5	423	423	435.5	448	448	460.5	473	473	485.5	498	498	510.5	523	535.5	535.5	548	560.5
5	410.5	410.5	423	435.5	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	523	523	535.5	548	548	560.5	573	573	585.5	598	598
6	448	460.5	473	473	485.5	498	510.5	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	635.5	648
7	498	510.5	523	523	535.5	548	548	560.5	573	573	585.5	598	598	610.5	623	623	635.5	648	648	660.5	673	673	685.5	698
8	548	560.5	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	660.5	673	685.5	698	698	710.5	723	723	735.5	748
9	598	598	610.5	623	623	635.5	648	648	660.5	673	685.5	685.5	698	710.5	710.5	723	735.5	735.5	748	760.5	760.5	773	785.5	785.5



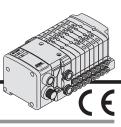
Power Supply with 7/8 Inch Connector

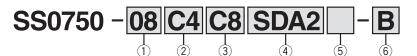


L1: DIN Rail Overall Length

			<u> </u>							1														
Valve I/O stations unit (n1) stations (n2)		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5
1	235.5	248	248	260.5	273	273	285.5	298	298	310.5	323	323	335.5	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5
2	285.5	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	398	410.5	423	423	435.5	448	448	460.5	473	473
3	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	510.5	523
4	373	385.5	398	398	410.5	423	423	435.5	448	448	460.5	473	473	485.5	498	498	510.5	523	523	535.5	548	560.5	560.5	573
5	423	435.5	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	510.5	523	535.5	548	548	560.5	573	573	585.5	598	598	610.5	623
6	473	473	485.5	498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	660.5
7	523	523	535.5	548	548	560.5	573	573	585.5	598	598	610.5	623	623	635.5	648	648	660.5	673	673	685.5	698	698	710.5
8	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	660.5	673	685.5	685.5	698	710.5	723	723	735.5	748	748	760.5
9	610.5	623	623	635.5	648	648	660.5	673	673	685.5	698	710.5	710.5	723	735.5	735.5	748	760.5	760.5	773	785.5	785.5	798	810.5

How to Order Manifold





(6) Option

Symbol Nil

D

Ν

S

D0

B Note 2)

D Note 3)

K Note 4)

R Note 5)

-BKN

Note 5) For details, refer to page 69.

None

(1) Stations

-	
Symbol	Stations
01	1 station
:	:
16 Note)	16 stations

Note) The maximum number of stations will be different depending on the wiring specifications.

(2) Cylinder port size

Symbol	Port size	
C2	With ø2 one-touch fitting	
C3	With ø3.2 one-touch fitting	Metric
C4	With ø4 one-touch fitting	Ivietric
CM	Mixed sizes and with port plug Note)	
N1	With ø1/8" one-touch fitting	
N3	With ø5/32" one-touch fitting	Inch
NM	Mixed sizes and with port plug Note)	

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

(3) P. R port size

Symbol	Port size	
Nil	With ø8 one-touch fitting Note)	
C6	With ø6 one-touch fitting	Metric
C8	With ø8 one-touch fitting	
N7	With ø1/4" one-touch fitting	Inch
N9	With ø5/16" one-touch fitting	Inch

Note) The cylinder port is ø5/16" when measured in inches.

(4) Kit type

	Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
S kit	Gateway-type	SD0	Without SI unit	1 to 8 stations	16 stations	16
3 KIL	serial transmission	SDA2	DeviceNet [™] , PROFIBUS DP, CC-Link, EtherNet/IP [™]	I TO O STATIONS	TO SIGUOIS	10

Note 1) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options. Note 2) For SI unit part number, refer to page 76.

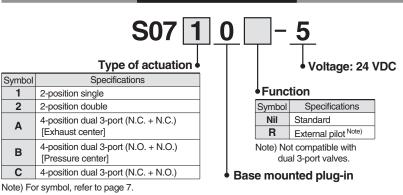
Type of actuation	Single	Double, Dual 3 port
Number of solenoids	1	2

(5) SI unit output polarity

61	unit output polarity		EX	500	
31	unit output polarity	DeviceNet™	PROFIBUS DP	CC-Link	EtherNet/IP™
Nil	Positive common	0	0	0	0
Ν	Negative common	0	0	0	0

Note) Without SI unit (SD0), the symbol is nil.

How to Order Valves



Refer to Reduced Wiring Fieldbus System (Serial Transmission) in Electric Products (CAT.E150) for details on the EX500 Gatewaytype Serial Transmission System.

How to Order Manifold Assembly

Specifications

With back pressure check valve (All stations)

With DIN rail Designated length (
: Station)

Special wiring specifications (Except double wiring)

With DIN rail (Rail length: Standard)

Note 1) When two or more options are specified, indicate them alphabetically. Example)

Note 2) When installing a back pressure check valve on the required station, enter the part number and specify the station position on the manifold specification sheet. Note 3) The available number of stations is larger than the number of manifold stations. Note 4) Indicate the wiring specifications for mixed single and double wirings.

Without DIN rail (with bracket)

With name plate

External pilot

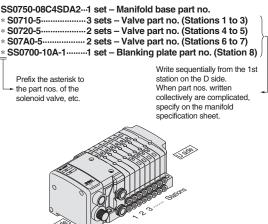
* For manifold optional parts, refer to pages 69 to 73. * For manifold exploded view, refer to page 75.

Built-in silencer

Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

Serial transmission kit



Symbol

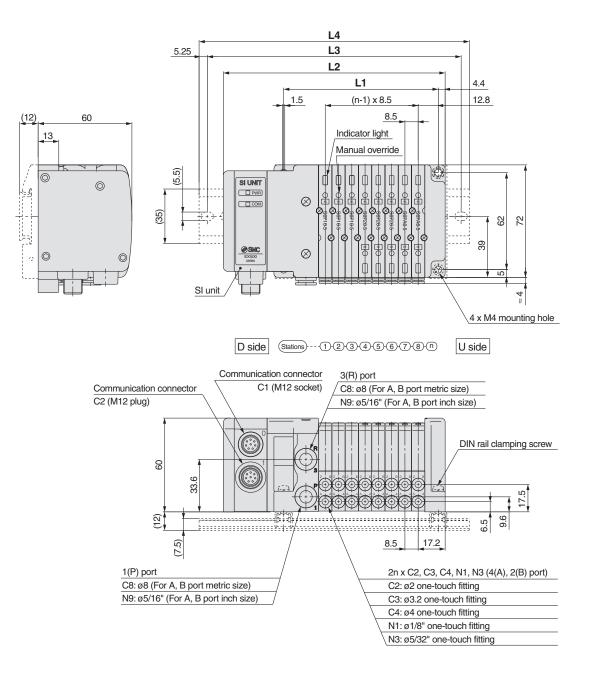
2

Α

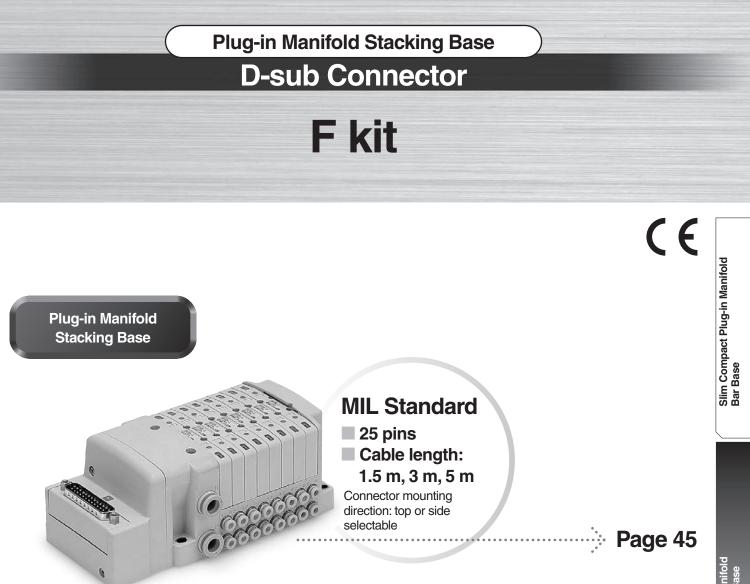
В

С

Plug-in Manifold Stacking Base EX500 Gateway-type Serial Transmission System Series S0700



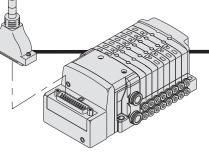
Dimens	sions						Formula L1 = 8.5n + 31, L2 = 8.5n + 74 n: Station (Maximum 16 stations									
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	
L2	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	
L3	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	
L4	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	



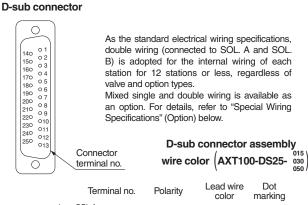
Plug-in Manifold Stacking Base

Series S0700 Plug-in Manifold Stacking Base kit (D-sub Connector)

- The D-sub connector reduces installation labor for electrical connections.
- Using the D-sub connector (25P), conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.

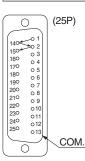


Electrical Wiring Specifications



			nai no.	FC	nanty	color	marking
		SOL.A O	1	(-)	(+)	Black	None
Station 1 $\left\{ \right\}$	\wedge	SOL.B	14	(-)	(+)	Yellow	Black
Otation of		SOL.A O	2	(-)	(+)	Brown	None
Station 2 $\left\{ \right\}$	h	SOL.B	15	(-)	(+)	Pink	Black
Station 3 $\left\{ \right\}$		SOL.A	3	(-)	(+)	Red	None
Stations		SOL.B	16	(-)	(+)	Blue	White
Station 4 $\left\{ \right\}$		SOL.A	4	(-)	(+)	Orange	None
Station 4	H	SOL.B_O	17	(-)	(+)	Purple	None
Station 5 $\left\{ \right\}$		SOL.A	5	(-)	(+)	Yellow	None
	H	SOL.B	18	()	(+)	Gray	None
Station 6 $\left\{ \right\}$		SOL.A	6	()	(+)	Pink	None
	$ \sim$	SOL.B	19	()	(+)	Orange	Black
Station 7 $\left\{ \right\}$	\vdash	SOL.A	7	()	(+)	Blue	None
	\vdash	SOL.B	20	()	(+)	Red	White
Station 8		SOL.A	8	()	(+)	Purple	White
		SOL.B	21	()	(+)	Brown	White
Station 9		SOL.A	9	()	(+)	Gray	Black
	H	SOL.B_O	22	()	(+)	Pink	Red
Station 10	$ \wedge $	SOL.A_O	10	(-)	(+)	White	Black
	h	SOL.B_O	23	(-)	(+)	Gray	Red
Station 11		SOL.A_O		(-)	(+)	White	Red
	H	SOL.B	24	(-)	(+)	Black	White
Station 12		SOL.A	12	(-)	(+)	Yellow	Red
	$ \wedge $	SOL.B	25	()	(+)	White	None
		сомо	13	(+)	()	Orange	Red
				Positive	Negative		
\bigcirc				COM	COM		
Note)		-	has no	polarit	y. It can als	o be used	as a negative
•	comm	UII.					

Special Wiring Specifications (Option) [-K]



Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24. 1. How to Order valves

Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

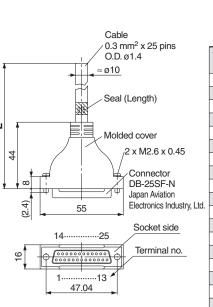
2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.

Cable Assembly

015 AXT100-DS25- 030 050

The D-sub connector cable assemblies can be ordered with manifolds. Refer to "How to Order Manifold."



	Те	rminal	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
Ltd.	10	White	Black
Liu.	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

D-sub connector

cable assembly

Wire Color by

D-sub Connector Cable Assembly (Option)

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-DS25-015	Cable
3 m	AXT100-DS25-030	0.3 mm ² x
5 m	AXT100-DS25-050	25 cores

* For other commercial connectors, use a 25-

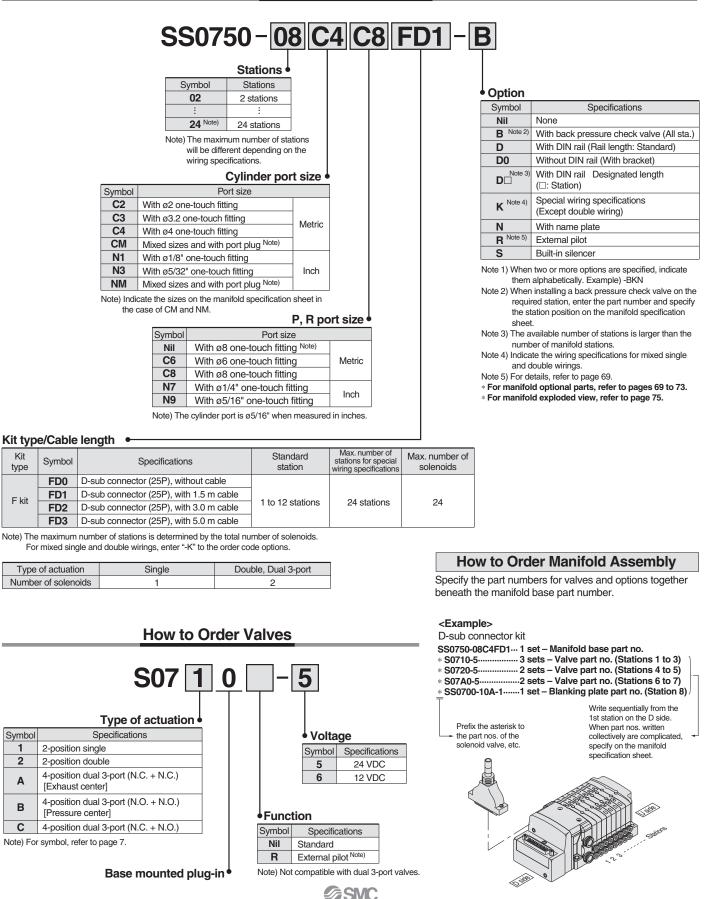
pin type with female connector conforming to MIL-C-24308.

Cannot be used for movable wiring.

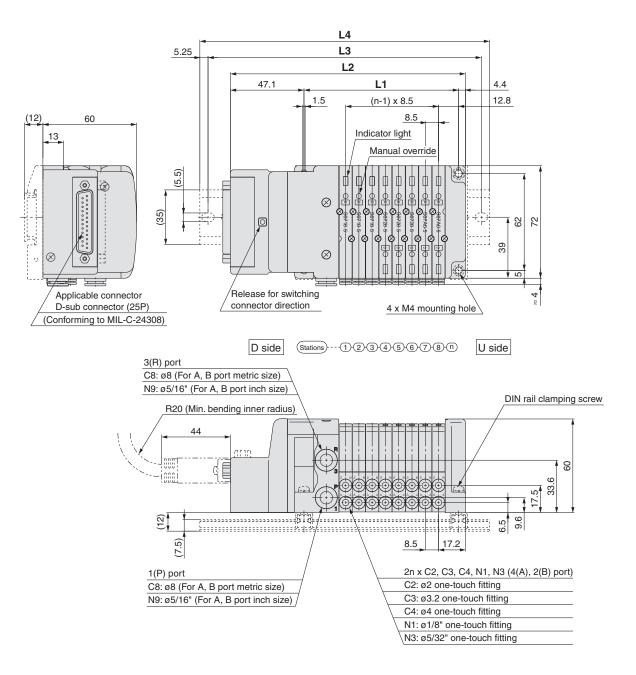
Electrical Cha	racteristics	Connector manufacturers' example							
Item	Property								
Conductor resistance Ω/km, 20°C	65 or less	 Fujitsu Limited Japan Aviation Electronics Industry, Ltd. 							
Voltage limit V, 1 min, AC	1000	 J.S.T. Mfg. Co., Ltd. Hirose Electric Co., Ltd. 							
Insulation resistance MΩ/km, 20°C	5 or more								
Note) The minimum bending inner radius of D-sub connector cable is 20 mm.									

Plug-in Manifold Stacking Base Series S0700

How to Order Manifold



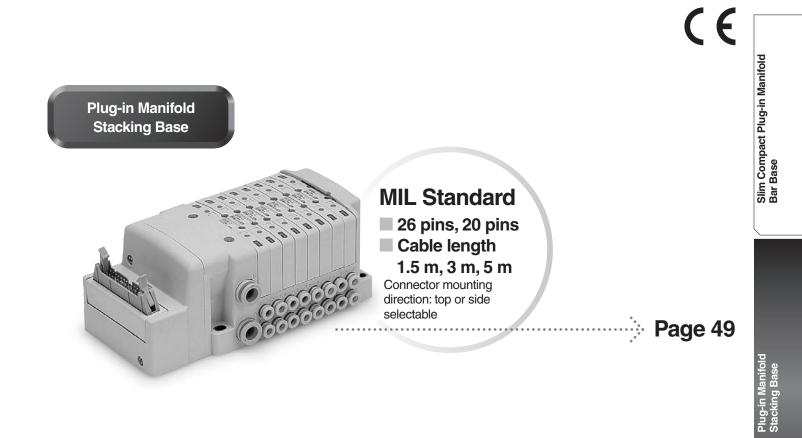
Plug Lead Manifold Bar Base



Dimens	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 24 stations)													ations)									
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5	227	235.5	244	252.5	261	269.5	278	286.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323

Plug-in Manifold Stacking Base Flat Ribbon Cable

P kit

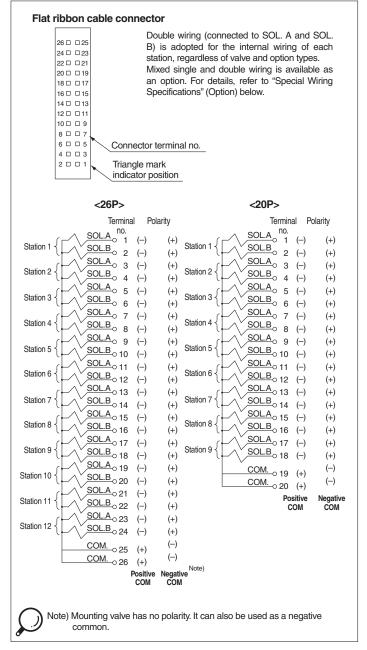


Plug Lead Manifold Bar Base

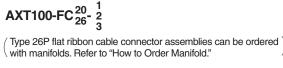
Series S0700 Plug-in Manifold Stacking Base kit (Flat Ribbon Cable)

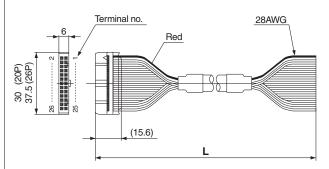
- Flat ribbon cable connector reduces installation labor for electrical connection.
- Using the connector for flat ribbon cable (26P, 20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.

Electrical Wiring Specifications



Cable Assembly





Flat Ribbon Cable Connector Assembly (Option)

Cable	Assembl	y part no.
length (L)	26P	20P
1.5 m	AXT100-FC26-1	AXT100-FC20-1
3 m	AXT100-FC26-2	AXT100-FC20-2
5 m	AXT100-FC26-3	AXT100-FC20-3
		00 1 1 11 1

* For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.

Cannot be used for movable wiring.

Connector manufacturers' example

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

Special Wiring Specifications (Option) [-K]

• Oki Electric Cable Co., Ltd.

ĆC	M.		COM.			
\backslash			V			
	26 🗆	□ 25	co	М		COM.
	24 🗆	□ 23		111.		
	22 🗆	□ 21				\vee
	20 🗆	□ 19		20 🗆	□19 [′]	ſ
	18 🗆	□ 17		18 🗆	□17	
	16 🗆	□ 15		16 🗆	□15	
	14 🗆	□ 13		14 🗆	□13	
	12 🗆	011		12 🗆	□11	
	10 🗆	□ 9		10 🗆	□9	
	8 🗆	07		8 🗆	□ 7	
	6 🗆	□ 5		6 🗆	□ 5	
	4 🗗	J 3		4 🗗	J 3	
	2 🗗	-01	\triangleleft	2 🗗	-01	\triangleleft
	(26	SP)		(20)P)	

Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24 for 26P, 18 for 20P.

1. How to Order valves

Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wring on the manifold specification sheet.

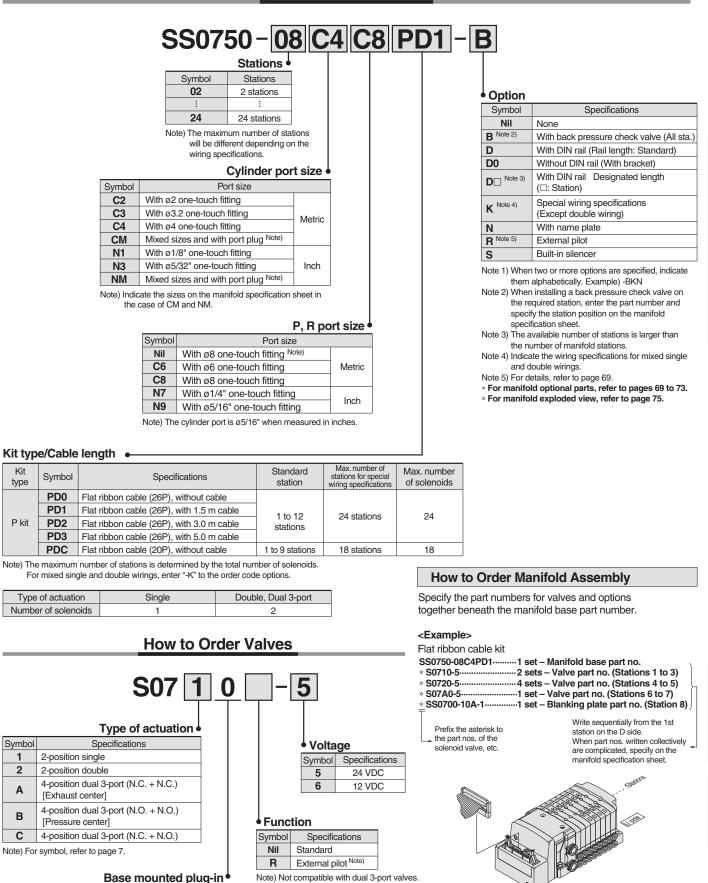
2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



Plug-in Manifold Stacking Base Series S0700

How to Order Manifold



SMC

Kit

type

P kit

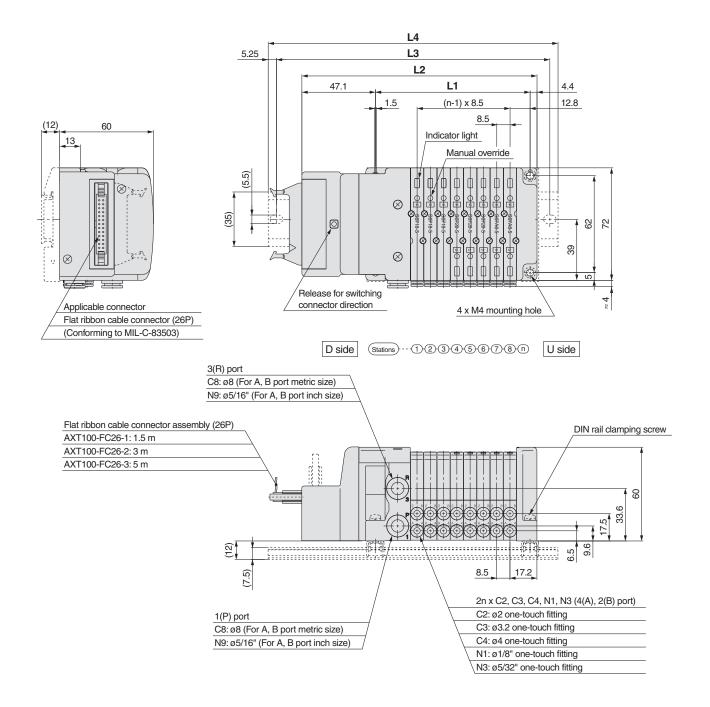
Symbol

2

Α

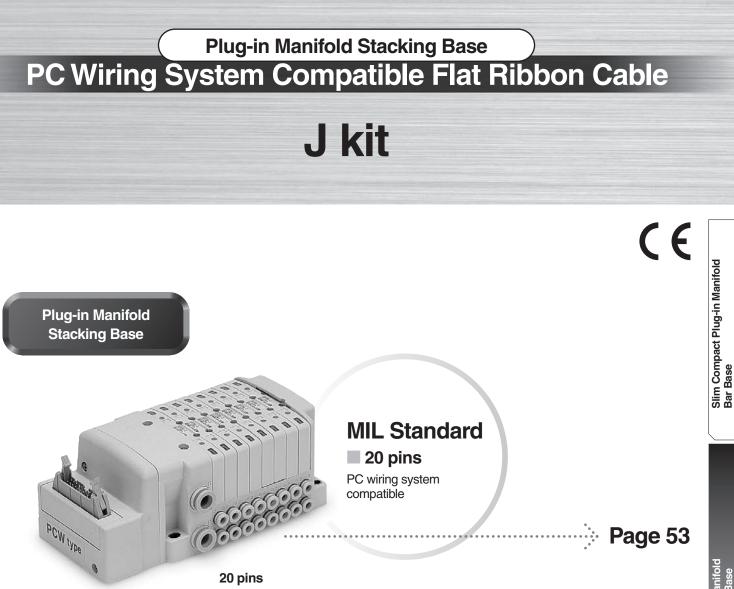
в

С



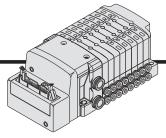
Dimens	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 24 station)												stations)										
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5	227	235.5	244	252.5	261	269.5	278	286.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323





Plug-in Manifold Stacking Base

Series S0700 Plug-in Manifold Stacking Base kit (PC Wiring System Compatible Flat Ribbon Cable)



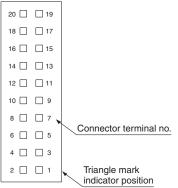
- Compatible with PC wiring system.
- Using connector for flat ribbon cable (20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.

Electrical Wiring Specifications

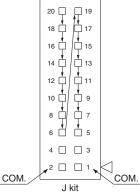
Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types. Mixed single and double wiring is available as an option.

For details, refer to "Special Wiring Specifications" (Option) below.

Flat ribbon cable connector



Special Wiring Specifications (Option) [-K]



Flat ribbon cable connector (20P) PC wiring system compatible

Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 16.

1. How to Order valves

Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.

	Terminal no.	Pol	arity
ſ		()	(+)
Station 1		()	(+)
		()	(+)
Station 2	O <u>SOL.B_</u> o 14	()	(+)
Station 3		(-)	(+)
		(-)	(+)
Station 4	SOL.A 0 8	()	(+)
	SOL.B 6	(-)	(+)
Station 5		()	(+)
Stations		(-)	(+)
Station 6		()	(+)
	O 13	(-)	(+)
Station 7	O 11	()	(+)
Station	SOL.B 9	(-)	(+)
Station 8	O 7	(-)	(+)
Station o	SOL.B 5	()	(+)
	0 4	()	(+)
	03	(-)	(+)
	O 2	(+)	()
	<u>COM.</u> 0 1	(+)	(-)
		ositive COM	Negative COM



Note) Mounting valve has no polarity. It can also be used as a negative common. For details about the PC wiring system, refer to catalog CAT.ES02-20 separately.

Plug-in Manifold Stacking Base Series S0700

Option Symbol

Nil

D

D0

Note 3

K^{Note 4)}

R Note 5)

Ν

S

B Note 2)

None

(□: Station)

With name plate

External pilot

specification sheet.

and double wirings. Note 5) For details, refer to page 69.

Built-in silencer Note 1) When two or more options are specified, indicate them alphabetically. Example) -BKN Note 2) When installing a back pressure check valve on the required station, enter the part number and

How to Order Manifold

Specifications

With back pressure check valve (All sta.)

With DIN rail (Rail length: Standard)

Without DIN rail (With bracket)

Special wiring specifications (Except double wiring)

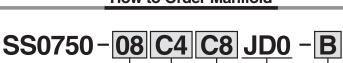
specify the station position on the manifold

Note 3) The available number of stations is larger than the number of manifold stations.

Note 4) Indicate the wiring specifications for mixed single

* For manifold optional parts, refer to pages 69 to 73. * For manifold exploded view, refer to page 75.

With DIN rail Designated length



Stations								
Stations								
2 stations								
:								
16 16 stations								
Note) The maximum number of stations will be different depending on the wiring specifications.								

Cylinder port size

	- / · · ·	
Symbol	Port size	
C2	With ø2 one-touch fitting	
C3	With ø3.2 one-touch fitting	Metric
C4	With ø4 one-touch fitting	Ivietric
СМ	Mixed sizes and with port plug Note)]
N1	With ø1/8" one-touch fitting	
N3	With ø5/32" one-touch fitting	Inch
NM	Mixed sizes and with port plug Note)	1

Note) Indicate the sizes on the manifold specification sheet in the case of CM and NM.

P, R port size

Symbol	Port size						
Nil	With ø8 one-touch fitting Note)						
C6							
C8	C8 With ø8 one-touch fitting						
N7	N7 With ø1/4" one-touch fitting						
N9	With ø5/16" one-touch fitting	Inch					

Note) The cylinder port is ø5/16" when measured in inches.

Kit type

	Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
[J kit	JD0	Flat ribbon cable (20P) PC wiring system compatible Note 1)	1 to 8 stations	16 stations	16

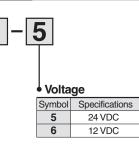
Note 1) For 20P type table assembly of J kit, order it separately.

Note 2) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options.

Type of actuation	Single	Double, Dual 3-port
Number of solenoids	1	2

How to Order Valves **S07** 5 Type of actuation Symbol Specifications 2-position single 2 2-position double 5 4-position dual 3-port (N.C. + N.C.) 6 Α [Exhaust center] 4-position dual 3-port (N.O. + N.O.) В [Pressure center] Function 4-position dual 3-port (N.C. + N.O.) С Note) For symbol, refer to page 7.

Base mounted plug-in



Symbol	Specifications				
Nil	Standard				
R	External pilot Note)				

Note) Not compatible with dual 3-port valves.

SMC

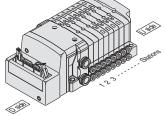
How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

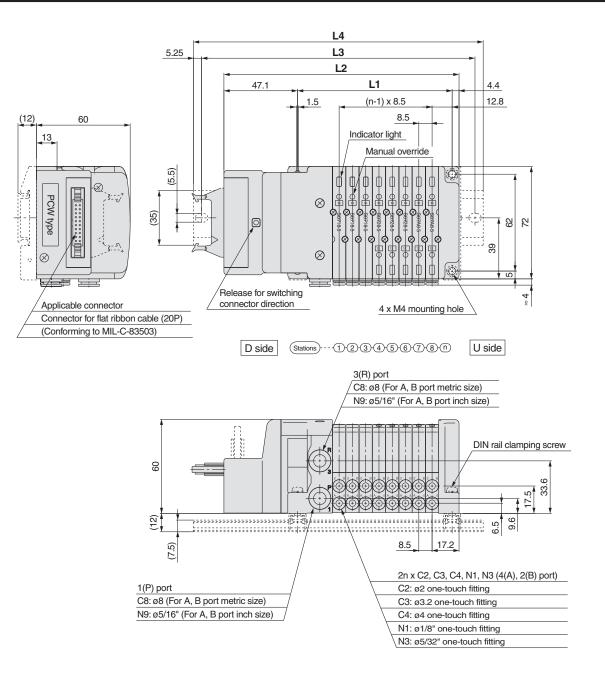
<Example>

Flat ribbon cable kit SS0750-08C4JD0 ... 1 set - Manifold base part no. S0710-5...... 3 sets – Valve part no. (Stations 1 to 3) * S0720-5..... 2 sets - Valve part no. (Stations 4 to 5) * S07A0-5...... 2 sets - Valve part no. (Stations 6 to 7)

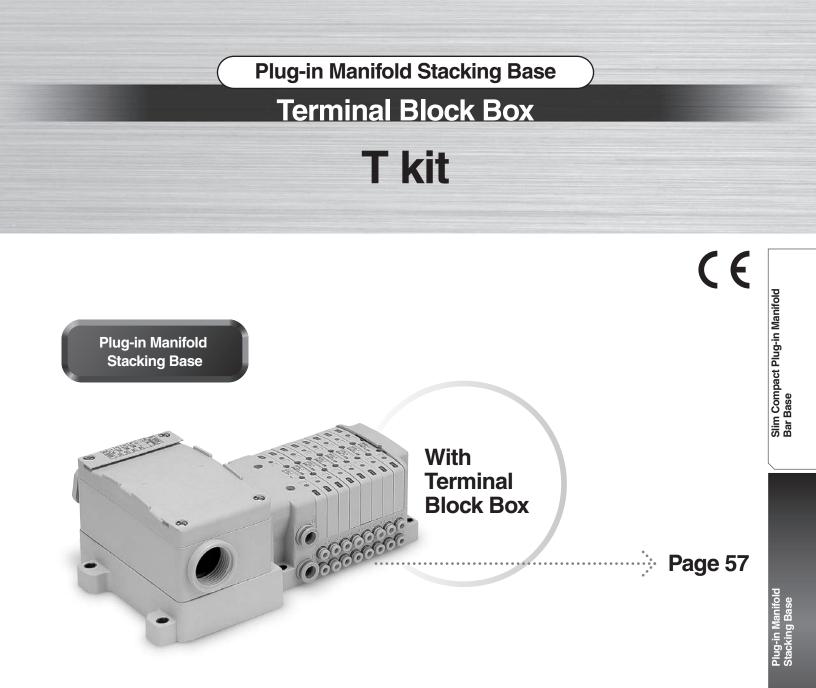
SS0700-10A-11 set - B	lanking plate part no. (Station 8
Prefix the asterisk to the part nos. of the solenoid valve, etc.	Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify on the manifold specification sheet.



Series S0700 kit (PC Wiring System Compatible Flat Ribbon Cable)

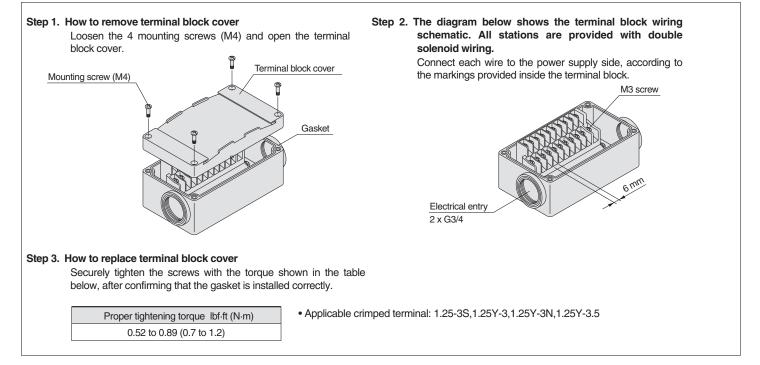


Dimens	sions						Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 16 stations)							6 stations)	
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5

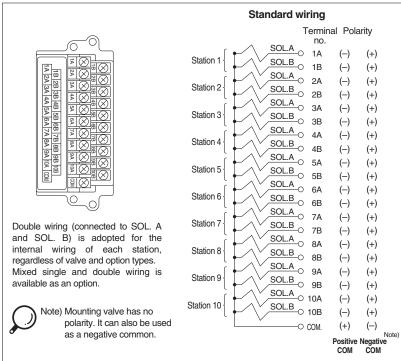


• This kit has a small terminal box inside a junction box. The electrical entry port (G3/4) permits connection of conduit fittings.

Terminal Block Connection



Electrical Wiring Specifications



Special Wiring Specifications (Option) [-K]

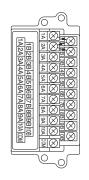
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 20.

1. How to Order valves

Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



Specifications

With back pressure check valve (All stations)

With DIN rail Designated length (D: Station)

Special wiring specifications (Except double wiring)

With DIN rail (Rail length: Standard)

Without DIN rail (With bracket)

Note 1) When two or more options are specified, indicate them alphabetically. Example)

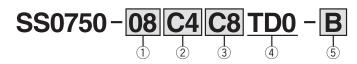
Note 2) When installing a back pressure check valve on the required station, enter the part number and specify the station position on the manifold specification sheet. Note 3) The available number of stations is larger than the number of manifold stations. Note 4) Indicate the wiring specifications for mixed single and double wirings.

With name plate

External pilot

Built-in silencer

How to Order Manifold



(5) Option Symbol

D

D0

Ν

S

Nil

B Note 2)

D Note 3)

K Note 4)

R Note 5)

-BKN

Note 5) For details, refer to page 69.

* For manifold optional parts, refer to pages 69 to 73.

* For manifold exploded view, refer to page 75.

None

(1) Stations

0	
Symbol	Stations
01	1 station
:	:
20 Note)	20 stations

Note) The maximum number of stations will be different depending on the wiring specifications.

(2) Cylinder port size

Symbol	Port size	
C2	With ø2 one-touch fitting	
C3	With ø3.2 one-touch fitting	Metric
C4	With ø4 one-touch fitting	weinc
СМ	Mixed sizes and with port plug Note)	
N1	With ø1/8" one-touch fitting	
N3	With ø5/32" one-touch fitting	Inch
NM	Mixed sizes and with port plug Note)	

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

3 P, R port size

Symbol	Port size						
Nil	With ø8 one-touch fitting Note)						
C6	C6 With ø6 one-touch fitting						
C8	With ø8 one-touch fitting						
N7	N7 With ø1/4" one-touch fitting						
N9	With ø5/16" one-touch fitting	Inch					

Note) The cylinder port is ø5/16" when measured in inches.

(4) Kit type

Symbol

1

2

Α

в

С

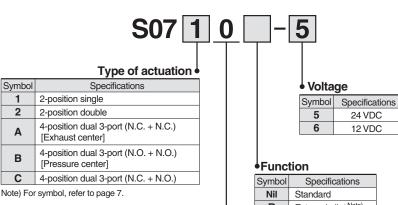
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
T kit	TD0	Terminal block	1 to 10 stations	20 stations	20

Note) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options.

Type of actuation	Single	Double, Dual 3-port
Number of solenoids	1	2

Base mounted plug-in

How to Order Valves



External pilot Note) R

Note) Not compatible with dual 3-port valves.

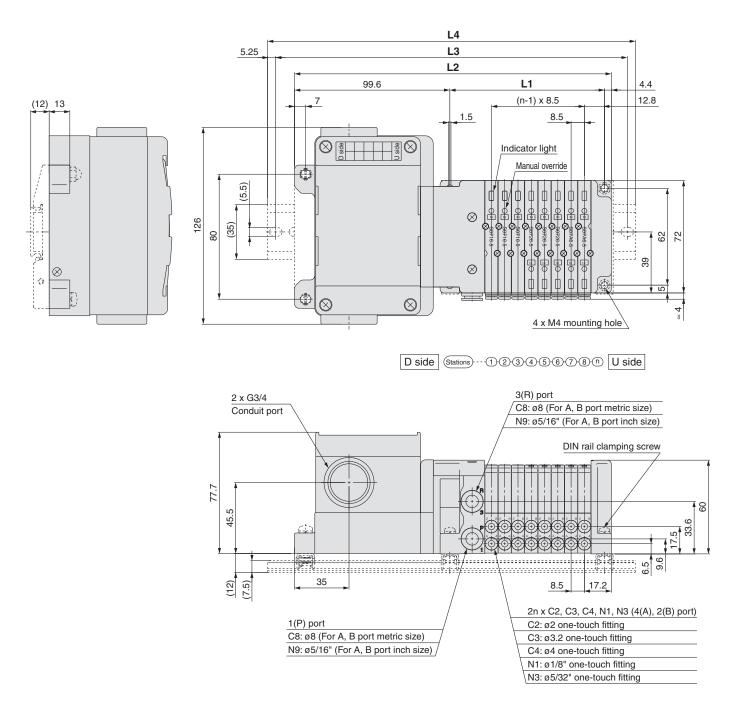
SMC

How to Order Manifold Assembly

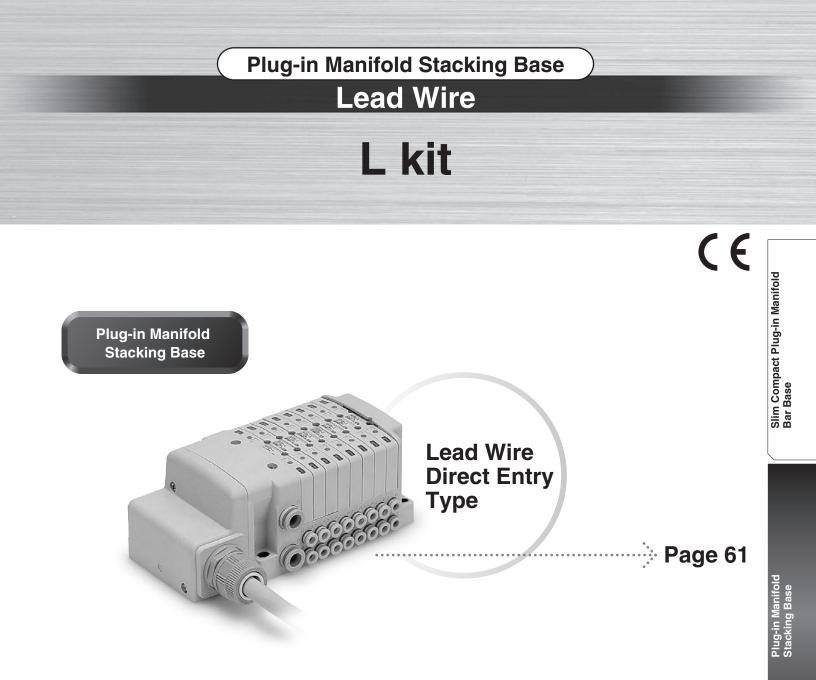
Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

Terminal block box kit SS0750-08C4TD01 set – Mar * S0710-5	Ive part no. (Stations 1 to 3) Ive part no. (Stations 4 to 5) Ive part no. (Stations 6 to 7)
Prefix the asterisk to the part nos. of the solenoid valve, etc.	Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify on the manifold specification sheet.
	2 00 2 2



Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 135											n + 135	n: Stati	on (Maxi	mum 20	stations)				
L	n 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201
L2	152	160.5	169	177.5	186	194.5	203	211.5	220	228.5	237	245.5	254	262.5	271	279.5	288	296.5	305
L3	175	187.5	200	200	212.5	225	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5	325	325
L4	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	335.5



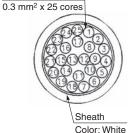
Plug Lead Manifold Bar Base

Direct electrical entry type

Electrical Wiring Specifications

Lead wire specifications

Lead wire $0.3 \text{ mm}^2 \times 25$



As the standard electrical wiring specifications, double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station for 12 stations or less, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer to "Special Wiring Specifications" (Option) below.

	Terminal	Pola	arity	Lead wire color	Dot marking
	DL.A no.	(-)	(+)	Black	None
Station 1	<u>)L.B</u> 0 14	(-)	(+)	Yellow	Black
	DL.A 0 2	(-)	(+)	Brown	None
Station 2	<u>DL.B</u> 0 15	(-)	(+)	Pink	Black
	DL.A 3	(-)	(+)	Red	None
Station 3	<u>DL.B</u> 0 16	(-)	(+)	Blue	White
	DL.A 0 4	(-)	(+)	Orange	None
Station 4	<u>DL.B</u> 0 17	(-)	(+)	Purple	None
	DL.A ₀₅	(-)	(+)	Yellow	None
Station 5	<u>DL.B</u> o 18	(-)	(+)	Gray	None
	<u>DL.A</u> 0 6	(-)	(+)	Pink	None
Station 6	<u>DL.B</u> 0 19	(-)	(+)	Orange	Black
Station 7	<u>DL.A</u> 0 7	(-)	(+)	Blue	None
	<u>DL.B</u> o 20	(-)	(+)	Red	White
	DL.A ₀₈	(-)	(+)	Purple	White
	<u>DL.B</u> 0 21	(-)	(+)	Brown	White
	<u>DL.A</u> og	(-)	(+)	Gray	Black
	<u>DL.B</u> o 22	(-)	(+)	Pink	Red
Station 10	<u>DL.A</u> o 10	(-)	(+)	White	Black
	<u>DL.B</u> o 23	(-)	(+)	Gray	Red
Station 11	<u>DL.A</u> o 11	(-)	(+)	White	Red
	<u>DL.B</u> o 24	(-)	(+)	Black	White
Station 12	<u>DL.A</u> o 12	(-)	(+)	Yellow	Red
	<u>DL.B</u> o 25	(-)	(+)	White	None
CC	<u>DM.</u> o 13	(+)	(-) N	Orange	Red
	F	Positive COM	Negative COM	,	
Note) Mountir negative	ng valve has e common.	no pola	rity. It can	also be us	ed as a

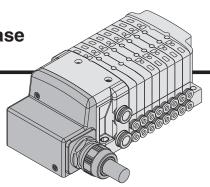
Special Wiring Specifications (Option) [-K]

Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24. **1. How to Order valves**

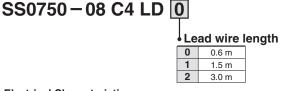
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



Lead wire length



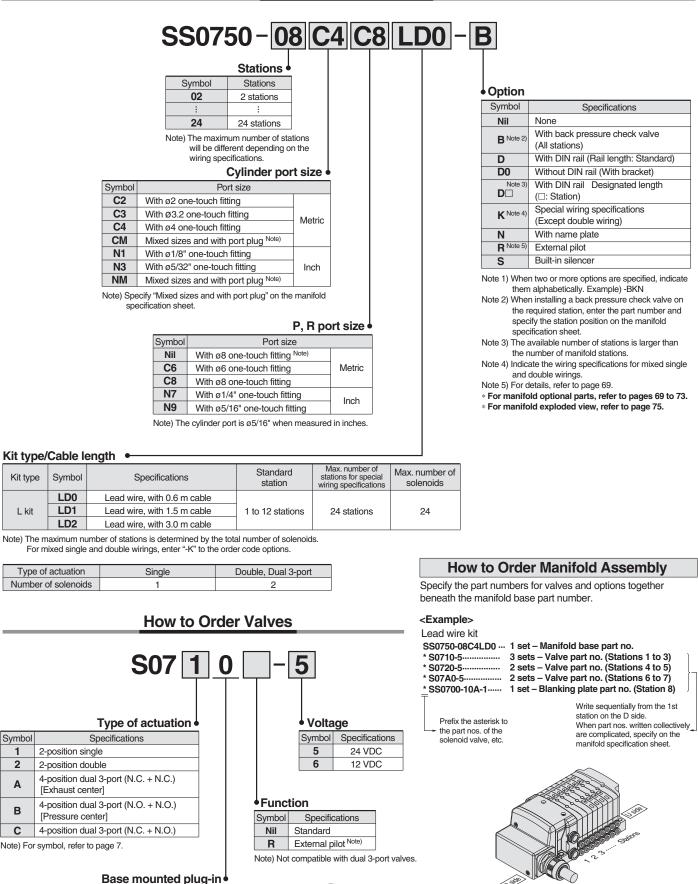
Electrical Characteristics

Item	Property	
Conductor resistance Ω/km, 68°F (20°C)	65 or less	
Voltage limit V, 1 min, AC	1000	
Insulation resistance MΩ/km, 68°F (20°C)	5 or more	
Note) Cannot be	used for moval	, ole wiriı

Cannot be used for movable wiring. The minimum bending inner radius of cable is 20 mm.

Plug-in Manifold Stacking Base Series S0700

How to Order Manifold



SMC

L kit

Symbol

1 2

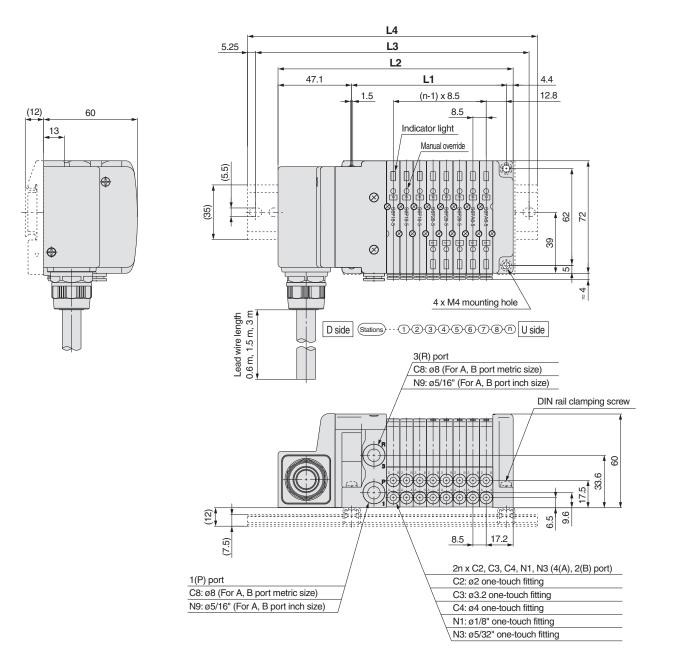
Α

в

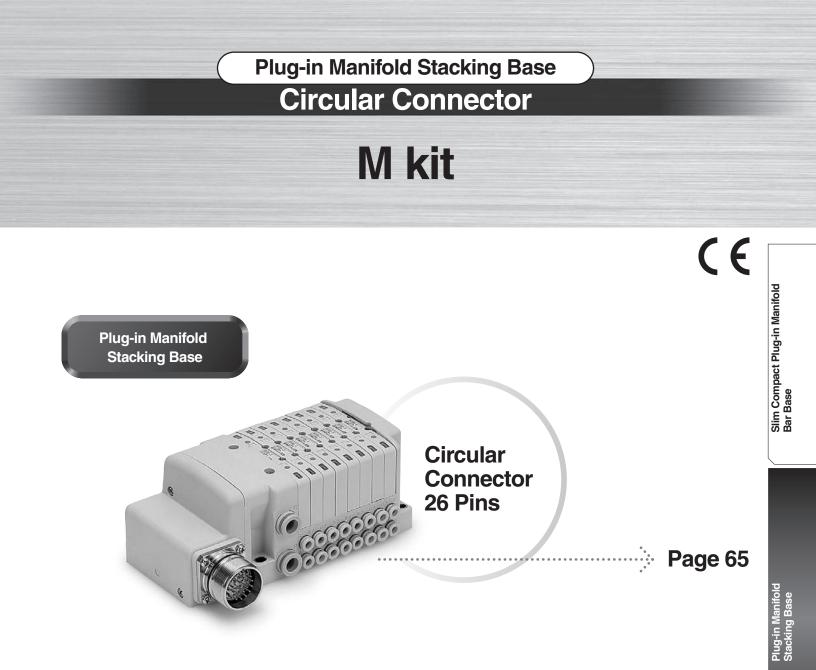
С

62





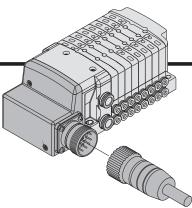
Dimens	sions												F	Formula	ι L1 = 8.	.5n + 31	, L2 = 8	8.5n + 8	2.5 n:	Station	(Maxim	um 24 s	stations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5	227	235.5	244	252.5	261	269.5	278	286.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323



Plug Lead Manifold Bar Base

Series S0700 Plug-in Manifold Stacking Base kit (Circular Connector)

Simplification and labor savings for wiring work can be achieved by using a circular connector for the electrical connection.



Electrical Wiring Specifications

15 1 2

17

6

~24⁽¹⁶⁾

25

26

10 21 20

14

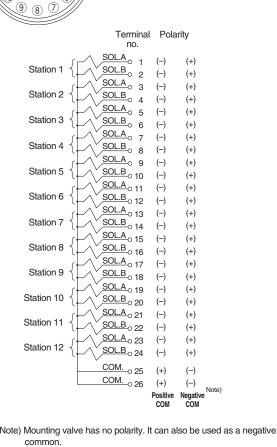
(13)

12 23

11 2

Circular connector Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types. (3 Mixed single and double wiring is available 18 (4) as an option. For details, refer to "Special 19 (5)

Wiring Specifications" (Option) below.



Special Wiring Specifications (Option) [-K]

Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of

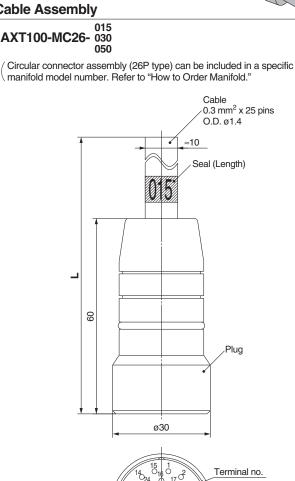
solenoids (points) must not exceed 24. 1. How to Order valves

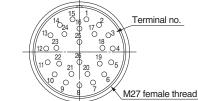
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

2. Wiring specifications

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.

Cable Assembly



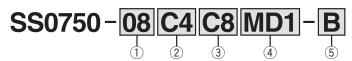


Circular Connector Cable Assembly (Option)

Ouble Assem	ouble Assembly (option)											
Cable	Assembly part no.											
length (L)	26P											
1.5 m	AXT100-MC26-015											
3 m	AXT100-MC26-030											
5 m	AXT100-MC26-050											
Cannot be used for movable wiring.												



How to Order Manifold



(1) Stations

Symbol	Stations
02	2 stations
:	:
24 Note)	24 stations

Note) The maximum number of stations will be different depending on the wiring specifications.

(2) Cylinder port size

Symbol	Port size	
C2	With ø2 one-touch fitting	
C3	With ø3.2 one-touch fitting	Metric
C4	With ø4 one-touch fitting	wieuric
СМ	Mixed sizes and with port plug Note)	1
N1	With ø1/8" one-touch fitting	
N3	With ø5/32" one-touch fitting	Inch
NM	Mixed sizes and with port plug Note)	

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

3 P, R port size

Symbol	Port size				
Nil	With ø8 one-touch fitting Note)				
C6	With ø6 one-touch fitting	Metric			
C8	With ø8 one-touch fitting				
N7	17 With ø1/4" one-touch fitting				
N9	Inch				

Note) The cylinder port is ø5/16" when measured in inches.

(4) Kit type/Cable length

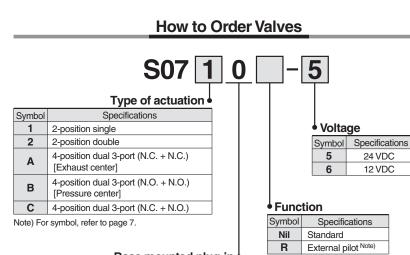
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	MD0	Circular connector (26P), without cable			
NA L-H	MD1	Circular connector (26P), with 1.5 m cable	1 +- 10 -+-+		0.1
M kit	MD2	Circular connector (26P), with 3.0 m cable	1 to 12 stations	24 stations	24
	MD3	Circular connector (26P), with 5.0 m cable			

Note) Not compatible with dual 3-port valves.

SMO

Note) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options.

Type of actuation	Single	Double, Dual 3-port
Number of solenoids	1	2



Base mounted plug-in

Symbol Specifications						
Nil	None					
B Note 2)	With back pressure check valve (All stations)					
D	With DIN rail (Rail length: Standard)					
D0 Without DIN rail (With bracket)						
D Note 3)	D Note 3) With DIN rail Designated length (Station)					
K Note 4)	Special wiring specifications (Except double wiring)					
N	With name plate					
R Note 5) External pilot						
S	Built-in silencer					

Example) -BKN

Note 2) When installing a back pressure check valve on the required station, enter the part number and specify the station position on the manifold specification . sheet.

Note 3) The available number of stations is larger than the number of manifold stations. Note 4) Indicate the wiring specifications for mixed single and double wirings.

Note 5) For details, refer to page 69.

* For manifold optional parts, refer to pages 69 to 73. * For manifold exploded view, refer to page 75.

How to Order Manifold Assembly	
ify the part numbers for valves and options together	

Speci beneath the manifold base part number.

<Example>

ŀ

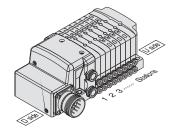
Circular connector kit

SS0750-08C4MD1...1 set - Manifold base part no.

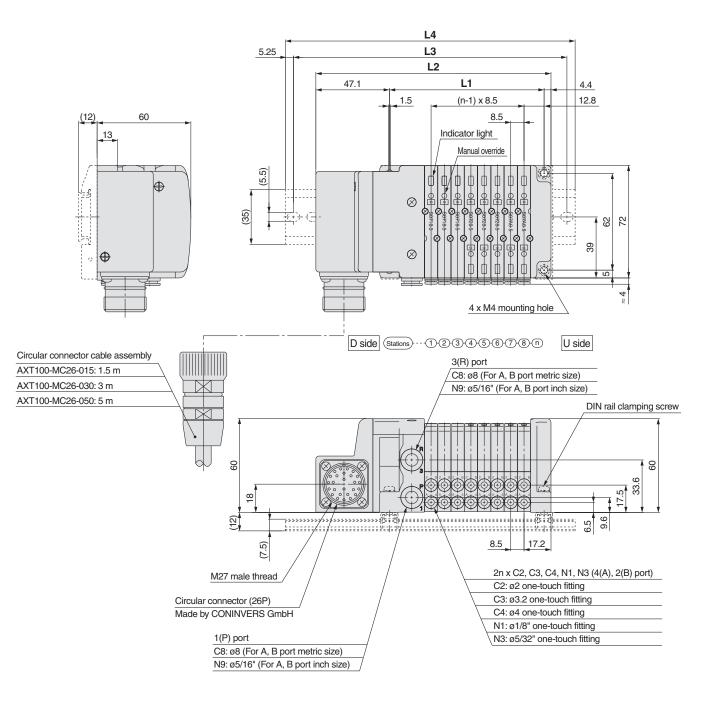
- * S0710-5...... 3 sets Valve part no. (Stations 1 to 3)
- S0720-5------2 sets Valve part no. (Stations 4 to 5) S07A0-5------2 sets Valve part no. (Stations 6 to 7)
- SS0700-10A-1.....1 set Blanking plate part no. (Station 8)
 - Write sequentially from the 1st station on the D side.
 - Prefix the asterisk to the part nos. of the solenoid valve, etc.

When part nos. written collectively

are complicated, specify on the manifold specification sheet.



Slim Compact Plug-in Manifold Bar Base



Dimens	ions												F	Formula	L1 = 8.	5n + 31	, L2 = 8	.5n + 82	2.5 n:	Station	(Maxim	um 24 s	tations)
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5	227	235.5	244	252.5	261	269.5	278	286.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323

Series S0700 Plug-in Manifold Stacking Base

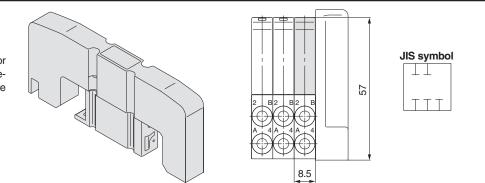
Manifold Optional Parts

Blanking plate

SS0700-10A-1

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Weight: 0.88 oz (25 g)



External pilot [-R]

This can be used when the air pressure is 0.1 to 0.2 MPa lower than the minimum operating pressure of the solenoid valves or used for vacuum specifications.

Add R to the part numbers of manifolds and valves to indicate the external pilot specifications. An M5 port will be installed on the top side of the manifold's SUP/EXH block.

 How to Order Valves (Example) S0710 R -5

• External pilot

• How to Order Manifold (Example)

* Indicate R for an option. SS0750-08C4FD1- $\frac{R}{T}$

• External pilot

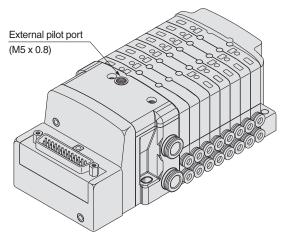
Direct EXH outlet with built-in silencer [-S]

This is a type with an exhaust port atop the manifold end plate. The built-in silencer exhibits an excellent noise suppression effect. (Noise reduction: 30 dB)



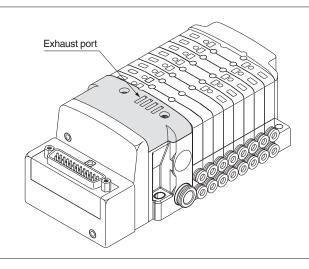
Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.

- When ordering this option incorporated with a manifold, suffix "-S" to the end of the manifold part number.
- For precautions on handling and how to replace elements, refer to "Specific Product Precautions."



Note 1) Not compatible with dual 3-port valves.

- Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specifications of the external pilot valve.
- Note 3) Valves with the external pilot have a pilot EXH with individual exhaust specifications and EXH can be pressurized. However, the pressure supplied from EXH should be 58 psi (0.4 MPa) or lower.

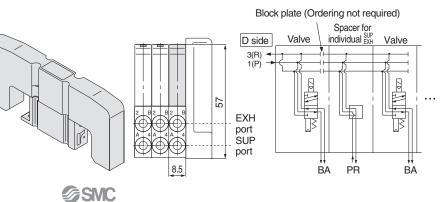


Individual SUP/EXH spacer

SS0700-PR-1

If this spacer is installed instead of a valve, it is possible to add SUP and EXH ports. In this condition, the A port should be an SUP port and the B port an EXH port.

- Specify the spacer mounting position and SUP/EXH passage shut off positions on the manifold specification sheet.
- \ast The spacer comes with a SUP block plate and an EXH block plate.
- * Electrical wiring is also connected to the spacer mounting position.



SUP block plate

SS0700-B-P

When different pressures, high and low, are supplied to one manifold, a SUP block plate is inserted between the stations under different pressures.

* Specify the number of stations on the manifold specification sheet.

<Block indication label>

When using block plates for SUP passage, indication label for confirmation of the blocking position from outside is attached. (One label of each)

* When ordering a block plate for SUP incorporated with the manifold, a block indication label is attached to the manifold.

Weight: 0.3 g

EXH block plate

SS0700-B-R

When valve exhaust affects the other stations on the circuit, insert EXH block plate in between stations to separate valve exhaust.

* Specify the number of stations on the manifold specification sheet.

<Block indication label>

When using block plates for EXH passage, indication label for confirmation of the blocking position from outside is attached. (One label of each)

* When ordering a block plate for EXH incorporated with the manifold, a block indication label is attached to the manifold.

Weight: 0.3 g

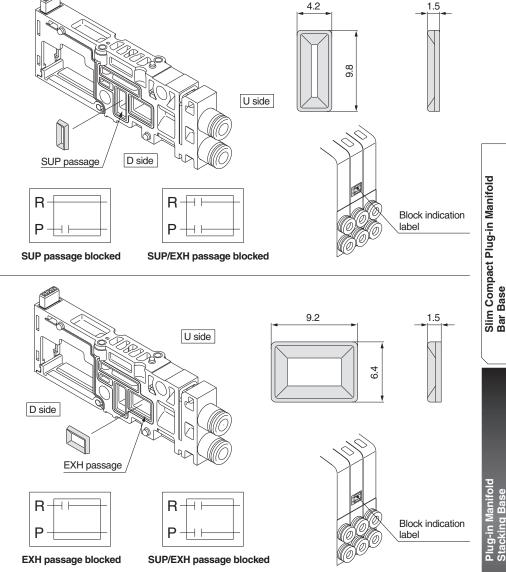
Back pressure check valve [-B]

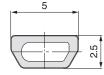
SS0700-7A-1

It prevents cylinder malfunction caused by other valve exhaust. Insert it into R (EXH) port on the manifold side of a valve which is affected. It is effective when a single action cylinder is used or an exhaust center type solenoid valve is used.

- * When a check valve for back pressure prevention is desired, and is to be installed only in certain manifold stations, clearly write the part number and specify the number of stations on the manifold specification sheet.
- * When ordering this option incorporated with a manifold, suffix "-B" to the end of the manifold part number.

Weight: 0.1 g









A Precautions

1. The back pressure check valve assembly is assembly parts with a check valve structure. However, as slight air leakage is allowed for the back pressure, take care the exhaust air will not be restricted at the exhaust port

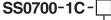
2. When a back pressure check valve is mounted, the effective area of the valve will decrease by about 20%.

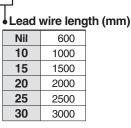


Plug Lead Manifold Bar Base

Series S0700 Plug-in Manifold Stacking Base Manifold Optional Parts

Blanking plate with output





Blanking plate with a connector for individually outputting electricity to drive a single valve or equipment that are not on the manifold base.

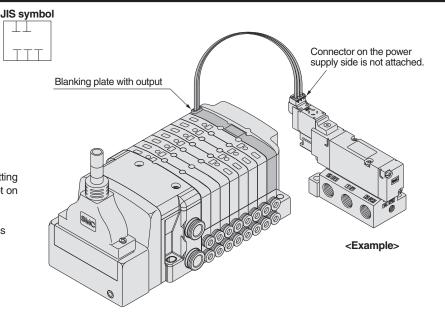
- Note 1) Electric current should be 0.5 A or less. (Including the mounted valves) When the current is output from two positions at the same time, the current should be 0.25 A or less.
- Note 2) Please consult with SMC for the max. allowable current for serial transmission kit.

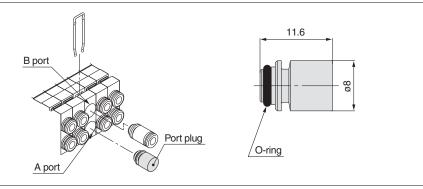
Weight: 34 g

Port plug VVQ0000-CP

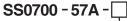
The plug is used to block the cylinder port when using a 5-port valve as a 3-port valve.

* When ordering a plug incorporated with a manifold, indicate "CM" for the port size in the manifold part number, as well as, the mounting position and number of stations and cylinder port mounting positions, A and B on the manifold specification sheet.





DIN rail mounting bracket For S(EX260/600/500, EX250), F, P, J, T, L, M kit

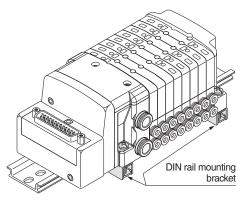


<u> </u>	
Symbol	Specifications
Nil	S(EX260/600/ 500), F, P, J, L, M kit
S	S(EX250) kit
Т	T kit

It is used for mounting a manifold on a DIN rail. The DIN rail mounted bracket is fixed to the manifold end plate. (The specification is the same as that for the option "-D".)

1 set of DIN rail mounting bracket is included for 1 manifold (2 or 3 DIN rail mounting brackets (S, T kit)).

* When ordering this option incorporated with a manifold, suffix "D" to the end of the manifold part number.



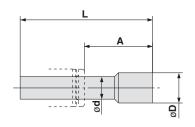
Blanking plug (For one-touch fittings)





It is inserted into an unused cylinder port and SUP/EXH ports.

Purchasing order is available in units of 10 pieces.



Dimensions					(mm)
Applicable fitting size ø d	Model	Α	L	D	Weight: g
2	KJP-02	8.2	17	3	0.1
3.2	KQ2P-23	16	31.5	3.2	1
4	KQ2P-04	16	32	6	1
6	KQ2P-06	18	35	8	1

71

Applicable to DIN rail mounting

Each manifold can be mounted on a DIN rail. Order it by indicating a manifold mounting symbol for DIN rail mounting [-D]. Standard DIN rail which is approx. 30 mm longer than the manifold with the specified number of stations is attached. The following options are also available.

• DIN rail length longer than the standard (for stations to be added later, etc.)

In the manifold part number, specify -D for the manifold mounting symbol and add the number of required stations after the symbol.

Example) SS0750-08C4FD0-D09K

8-station manifold

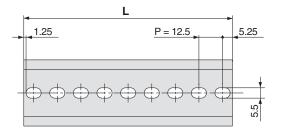
Optional symbol (alphabetically) DIN rail for 9 stations

How to Order DIN rail only

DIN rail part number

AXT100- DR- n

Note) For n, enter a number from the No. line in the table below. For L dimension, refer to the dimensions of each kit.



Slim Compact Plug-in Manifold Bar Base

Plug-in Manifolc

7.5

10 5 4 5 10 5

25 35

L Dimension

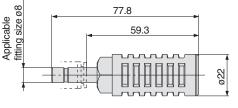
L Dimensio	n								L=	$12.5 \times n + 10.5$
No.	1	2	3	4	5	6	7	8	9	10
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5
No.	11	12	13	14	15	16	17	18	19	20
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30
L dimension	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5
No.	31	32	33	34	35	36	37	38	39	40
L dimension	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5

Silencer (For EXH port)

This silencer is to be inserted into the EXH port (one-touch fitting) of the common exhaust type.

AN200-KM8





Specifications

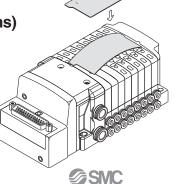
Model	Effective area (mm ²) (Cv factor)	Noise reduction (dB)	
AN200-KM8	20 (1.1)	30	l

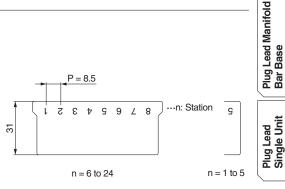
Name plate [-N]

SS0700-N-Station (1 to max. stations)

It is a transparent resin plate for placing a label that indicates solenoid valve function, etc. Insert it into the groove on the side of the end plate and bend it as shown in the figure.

* When ordering this option incorporated with a manifold, suffix "-N" to the end of the manifold part number.





Series S0700 Plug-in Manifold Stacking Base **Manifold Optional Parts**

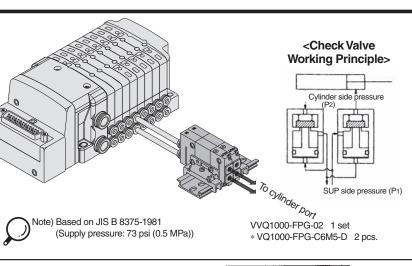
Double check block (Separated)

VQ1000-FPG-

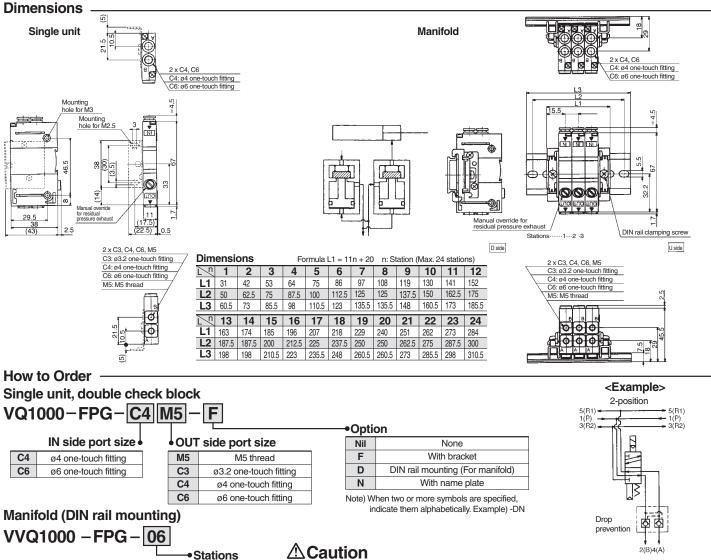
It is used on the outlet side piping to keep the cylinder in the intermediate position for long periods of time. Combining the double check block with a built-in pilot type double check valve and a 2-position single/double solenoid valve will permit this block to be used for preventing the dropping at the cylinder stroke end when the SUP residual pressure is released.

Specifications

Max. operating pressure	116 psi (0.8 MPa)
Min. operating pressure	22 psi (0.15 MPa)
Ambient and fluid temperature	23 to 122°F (-5 to 50°C)
Flow-rate characteristics: C	0.60 dm³/(s·bar)
Max. operating frequency	180 c.p.m



Dimensions



- · Air leakage from the pipe between the valve and cylinder
- or from the fittings will prevent the cylinder from stopping for long periods of time. Check the leakage using neutral household detergent, such as dish washing soap Also, check the cylinder's tube gasket, piston seal and rod seal for air leakage.

 Since one-touch fittings allow slight air leakage, screw piping (with M5 thread) is recommended when stopping the cylinder in the middle for long periods of time

SMC

- M5 fitting assembly is attached, not incorporated into the double check block. After screwing in the M5 fittings, mount the assembly on the double check block. (Tightening torque: 0.6 to 0.8 lbf ft (0.8 to 1.2 N·m)}
- If the exhaust of the double check block is restricted too much, the cylinder may not operate properly and may not stop intermediately. Set the cylinder load so that the cylinder pressure will be within two times that of the supply pressure.
- Air leakage from the pipe between the valve and cylinder or from the fittings will prevent the cylinder from stopping for long periods of time. Check the leakage using neutral household detergent, such as dish washing soap.

Also, check the cylinder's tube gasket, piston seal and rod seal for air leakage.

<Example>

When ordering a double check block,

order the DIN rail mounting [-D]

VVQ1000-FPG-06--station manifold

* VQ1000-FPG-C4M5-D: 3 sets

* VQ1000-FPG-C6M5-D: 3 sets

Bracket Assembly

Part no

VQ1000-FPG-FB

01

Double check

Tightening torque

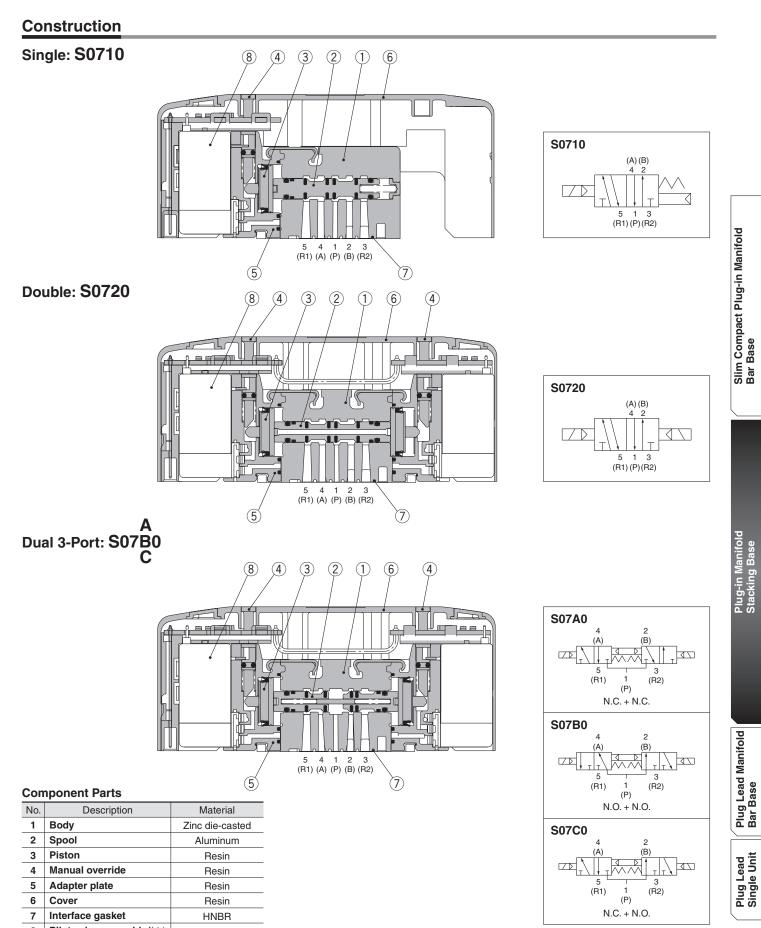
0.16 to 0.18 lbf.ft (0.22 to 0.25 N·m)

block

1 station

16 16 stations

Plug-in Manifold Stacking Base Series \$0700

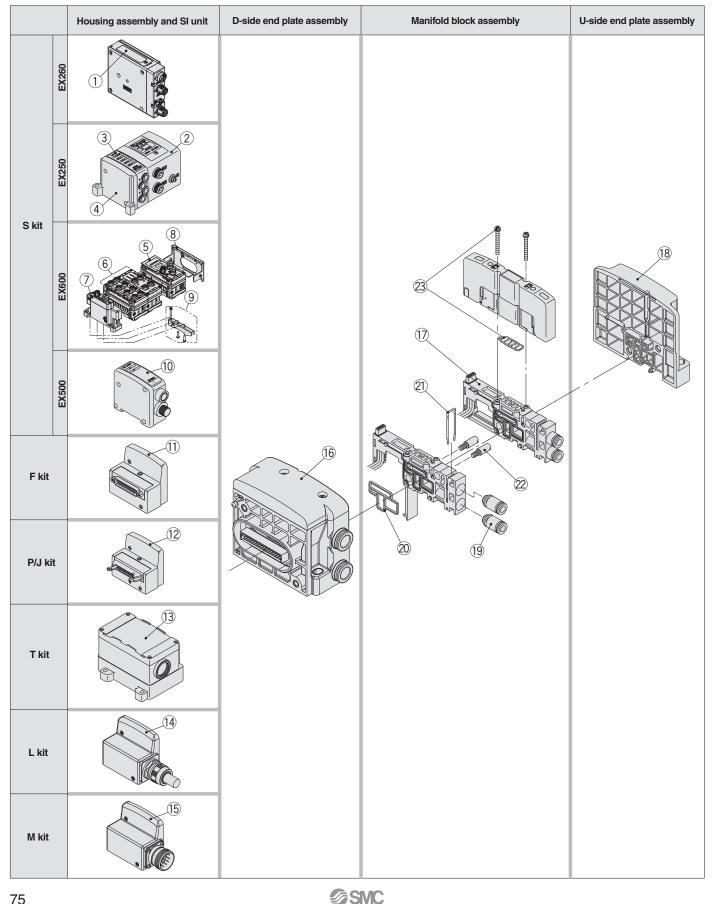


SMC

8 Pilot valve assembly Note) ____

Note) Please consult with SMC for pilot valve replacement.

Series S0700 Plug-in Manifold **Manifold Exploded View**

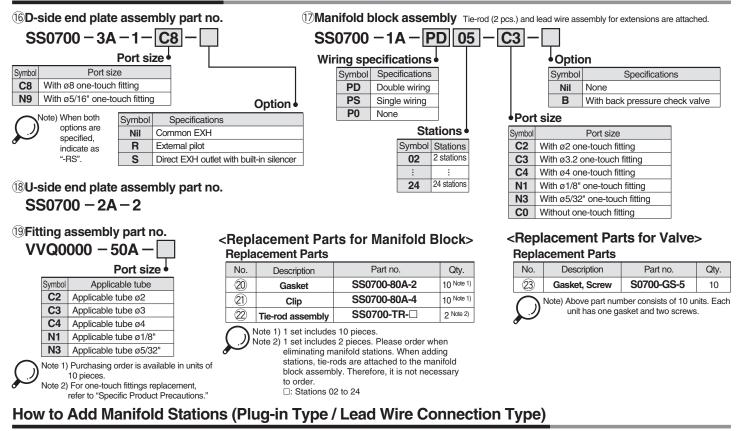


Manifold Assembly Part No.

No.			
	Description	Part no.	Note
		EX260-SDN1	DeviceNet [™] M12 connector, 32 outputs, Negative common (PNP)
		EX260-SDN1 EX260-SDN2	DeviceNet™ M12 connector, 32 outputs, Positive common (NPN)
			DeviceNet [™] M12 connector, 16 outputs, Negative common (NPP)
		EX260-SDN3	DeviceNet ¹ W12 connector, to outputs, Negative continion (FINF)
		EX260-SDN4	DeviceNet™ M12 connector, 16 outputs, Positive common (NPN)
		EX260-SPR1	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
		EX260-SPR2	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)
		EX260-SPR3	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP)
		EX260-SPR4	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)
		EX260-SPR5	PROFIBUS DP D-sub connector, 32 outputs, Negative common (PNP)
		EX260-SPR6	PROFIBUS DP D-sub connector, 32 outputs, Positive common (NPN)
		EX260-SPR7	PROFIBUS DP D-sub connector, 16 outputs, Negative common (PNP)
~		EX260-SPR8	PROFIBUS DP D-sub connector, 16 outputs, Positive common (NPN)
1	EX260 SI unit		CC-Link M12 connector, 32 outputs, Negative common (PNP)
		EX260-SMJ1	
		EX260-SMJ2	CC-Link M12 connector, 32 outputs, Positive common (NPN)
		EX260-SMJ3	CC-Link M12 connector, 16 outputs, Negative common (PNP)
		EX260-SMJ4	CC-Link M12 connector, 16 outputs, Positive common (NPN)
		EX260-SEC1	EtherCAT M12 connector, 32 outputs, Negative common (PNP)
		EX260-SEC2	EtherCAT M12 connector, 32 outputs, Positive common (NPN)
			EtherCAT M12 connector 16 outputs, Negative common (PNP)
		EX260-SEC3	
		EX260-SEC4	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
		EX260-SPN1	PROFINET M12 connector, 32 outputs, Negative common (PNP)
		EX260-SPN2	PROFINET M12 connector, 32 outputs, Positive common (NPN)
		EX260-SPN3	PROFINET M12 connector, 16 outputs, Negative common (PNP)
			PROFINET M12 connector, 16 outputs, Positive common (NPN)
		EX260-SPN4	PROFINE I NI Z CONNECTOR, 16 OLIPUIS, POSITIVE COMMON (NPN)
		EX250-SDN1	DeviceNet [™] Negative common (PNP)
		EX250-SPR1	PROFIBUS DP Negative common (PNP)
		EX250-SMJ2	CC-Link Positive common (NPN)
		EX250-SAS3	AS-Interface 31 slave, 8 in/8 out, 2 isolated common type, Negative common (PNP)
(2)	EX250 SI unit	EX250-SAS5	AS-Interface 31 slave, 4 in/4 out, 2 isolated common type, Negative common (PNP)
Ľ			
		EX250-SAS7	AS-Interface 31 slave, 8 in/8 out, 1 common type, Negative common (PNP)
		EX250-SAS9	AS-Interface 31 slave, 4 in/4 out, 1 common type, Negative common (PNP)
		EX250-SCA1A	CANopen Negative common (PNP)
		EX250-SEN1	EtherNet/IP™ Negative common (PNP)
			M12 2 inputs
		EX250-IE1	
3	EX250 input block	EX250-IE2	M12 4 inputs
		EX250-IE3	M8 4 inputs
~		EX250-EA1	Direct mounting
(4)	EX250 end plate assembly	EX250-EA2	DIN rail mounting
		EX600-SDN1A	DeviceNet [™] Negative common (PNP)
		EX600-SDN2A	DeviceNet [™] Positive common (NPN)
		EX600-SMJ1	CC-Link Negative common (PNP)
		EX600-SMJ2	CC-Link Positive common (NPN)
		EX600-SPR1A	PROFIBUS DP Negative common (PNP)
(5)	EX600 SI unit		
-		EX600-SPR2A	PROFIBUS DP Positive common (NPN)
		EX600-SEN1	EtherNet/IP™ Negative common (PNP)
		EX600-SEN2	EtherNet/IP™ Positive common (NPN)
		EX600-SEC1	EtherCAT Negative common (PNP)
		EX600-SEC2	EtherCAT Positive common (NPN)
		EX600-DXNB	NPN input, M12 connector, 5 pins (4 pcs.), 8 inputs
		EX600-DXPB	PNP input, M12 connector, 5 pins (4 pcs.), 8 inputs
		EX600-DXNC	NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs
		EX600-DXNC1	NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs, with open circuit detection
		EX600-DXPC	PNP input, M8 connector, 3 pins (8 pcs.), 8 inputs
		EX600-DXPC1	PNP input, M8 connector, 3 pins (8 pcs.), 8 inputs, with open circuit detection
	EX600 digital input unit		NPN input, M12 connector, 5 pins (8 pcs.), 16 inputs
		EX600-DXND	
		EX600-DXPD	PNP input, M12 connector, 5 pins (8 pcs.), 16 inputs
		EX600-DXNE	NPN input, D-sub connector, 25 pins, 16 inputs
		EX600-DXPE	PNP input, D-sub connector, 25 pins, 16 inputs
		EX600-DXNF	NPN input, Spring type terminal block, 32 pins, 16 inputs
		EX600-DXPF	PNP input, Spring type terminal block, 32 pins, 16 inputs
(6)			
101		EX600-DYNB	NPN output, M12 connector, 5 pins (4 pcs.), 8 outputs
\odot		EX600-DYPB	PNP output, M12 connector, 5 pins (4 pcs.), 8 outputs
U	EX600 digital output unit	EX600-DYNE	NPN output, D-sub connector, 25 pins, 16 outputs
۲		EX600-DYPE	PNP output, D-sub connector, 25 pins, 16 outputs
⋓			The output, D oub connector, 20 pins, To outputs
U		EX600-DYNF	NPN output, Spring type terminal block, 32 pins, 16 outputs
U		EX600-DYNF	NPN output, Spring type terminal block, 32 pins, 16 outputs
⋓		EX600-DYNF EX600-DYPE	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs
U		EX600-DYNF EX600-DYPE EX600-DMNE	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs
⋓		EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMPE	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs
⋓	EX600 digital I/O unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMPE EX600-DMNF	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP put/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs
⊎	EX600 digital I/O unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMPE	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs
V		EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMPE EX600-DMNF	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP put/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs
•	EX600 digital I/O unit EX600 analog input unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input
 	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel output
	EX600 digital I/O unit EX600 analog input unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-AXA EX600-AXA EX600-AXA EX600-AXA	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel output M12 connector, 5 pins (4 pcs.), 2-channel input/output
	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AMB EX600-AMB	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs MIP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, (4 pcs.), 2-channel input/output
_	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMPF EX600-DMPF EX600-AXA EX600-AXA EX600-AVA EX600-AVA EX600-ED2 EX600-ED2-2	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins, (2 pcs.), 2-channel input/output M12 connector, 5 pins, (2 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket
_	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AMB EX600-AMB	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A
_	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-AXA EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED2	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel output M12 connector, 5 pins, (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A
0	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AMB EX600-AMB EX600-ED2-2 EX600-ED3 EX600-ED3-2	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A
7	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-AXA EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input M12 connector, 5 pins, (4 pcs.), 2-channel input M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A
_	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3-2 EX600-ZMV1 EX600-ZMA2	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Enclosed parts: Round head
7 (7) (8) (9)	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-AXA EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input M12 connector, 5 pins, (4 pcs.), 2-channel input M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A 7/8 inch connector, 5 pins, Max. Supplied current 8 A
7 8 9	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AMB EX600-AMB EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ZMA2 EX600-ZMA2	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, M12 connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Positive common (NPN)
7 8 9 10	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate EX500 SI unit	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-AMNF EX600-AXA EX600-AXA EX600-AMB EX600-AMB EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3-2 EX600-ZMV1 EX600-ZMV1 EX500-Q001 EX500-Q101	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input M12 connector, 5 pins, (4 pcs.), 2-channel input M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 7 bins, Max. supplied current 8 A 7/8 inch connector, 9 pins, Max. supplied current 8 A 7/8 inch connector, 9 pins, Max. supplied current 8 A 7/8 inch connector, 9 pins, Max. Supplied curent 8 A 7/8 inch connector,
7 <u>8</u> <u>9</u> 10	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMPF EX600-DMPF EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3-2 EX600-	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket False contexter, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Positive common (NPN) EX500 Positive common (PNP) F kit, 25 pins
7 <u>8</u> <u>9</u> 10	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate EX500 SI unit D-sub connector housing assembly	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AXA EX600-AMB EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ZMA2 EX500-Q001 EX500-Q001 EX500-Q001 EX500-Q001 VVQC1000-F25-1 VVQC1000-F25-1	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Finclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Positive common (PNP) Fkit, 26 pins P kit, 26 pins
7 8 9 10 11	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate EX500 SI unit	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMPF EX600-DMPF EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3-2 EX600-	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket False contexter, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Positive common (NPN) EX500 Positive common (PNP) F kit, 25 pins
7 8 9 10 11	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate EX500 SI unit D-sub connector housing assembly Flat ribbon cable housing assembly	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMNF EX600-AXA EX600-AXA EX600-AXA EX600-AMB EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ZMA2 EX500-Q001 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q101 VVQC1000-F25-1 VVQC1000-F26-1	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Negative common (NPN) EX500 Negative common (PNP) F kit, 26 pins P kit, 20 pins
7 8 9 10 11	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 valve plate EX600 bracket for end plate EX500 SI unit D-sub connector housing assembly Flat ribbon cable housing assembly Flat ribbon cable housing assembly	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AXA EX600-AMB EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ZMA2 EX500-Q001 EX500-Q001 EX500-Q001 EX500-Q001 VVQC1000-F25-1 VVQC1000-F25-1	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Finclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Negative common (PNP) F kit, 25 pins P kit, 26 pins
7 <u>8</u> <u>9</u> <u>10</u> <u>11</u> <u>12</u>	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog output unit EX600 analog I/O unit EX600 bracket for end plate EX600 bracket for end plate EX600 bracket for end plate EX600 bracket for end plate EX600 analog I/O unit D-sub connector housing assembly Flat ribbon cable housing assembly Flat ribbon cable PC wiring system compatible	EX600-DYNF EX600-DYPE EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMNF EX600-AXA EX600-AXA EX600-AXA EX600-AMB EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ZMA2 EX500-Q001 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q01 EX500-ZMA2 EX500-Q01 EX500-ZMA2 EX500-Q01 EX500-ZMA2 EX500-Q01 EX500-ZMA2 EX500-QM1 EX500-QM1 EX500-ZMA2 EX500-QM1 EX500-ZMA2 EX500-	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Finclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Positive common (PNP) F kit, 26 pins P kit, 20 pins J kit, 20 pins
7 <u>8</u> <u>9</u> 10 11 12 12 12 12 12 12 12 12 12	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 valve plate EX600 bracket for end plate EX500 SI unit D-sub connector housing assembly Flat ribbon cable housing assembly Flat ribbon cable housing assembly	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AMA EX600-AMB EX600-ED2 EX600-ED3 EX600-ED3 EX600-2MV1 EX600-2	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input/output M12 connector, 5 pins, (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A
7 <u>8</u> <u>9</u> 10 11 12 13	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate EX500 SI unit D-sub connector housing assembly Flat ribbon cable housing assembly Flat ribbon cable housing assembly Flat ribbon cable PC wiring system compatible Terminal block box housing assembly	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-ANA EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED3 E	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inc
7	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog output unit EX600 analog I/O unit EX600 bracket for end plate EX600 bracket for end plate EX600 bracket for end plate EX600 bracket for end plate EX600 analog I/O unit D-sub connector housing assembly Flat ribbon cable housing assembly Flat ribbon cable PC wiring system compatible	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-DMPF EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3 EX600-ED3-2 EX600-2 EX	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket 7/8 inch connector, 5 pins, Max. supplied current 8 A, with DIN rail mounting bracket Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs. This bracket is used for the end plate of DIN rail mounting. EX500 Positive common (NPN) EX500 Negative common (PNP) F kit, 26 pins P kit, 20 pins J kit, Lead wire length 0.6 m L kit, Lead wire length 0.6 m L kit, Lead wire length 0.6 m
7 (8) (9) (10) (11) (12) (13)	EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog I/O unit EX600 end plate EX600 valve plate EX600 bracket for end plate EX500 SI unit D-sub connector housing assembly Flat ribbon cable housing assembly Flat ribbon cable housing assembly Flat ribbon cable PC wiring system compatible Terminal block box housing assembly	EX600-DYNF EX600-DYNF EX600-DMNE EX600-DMNF EX600-DMNF EX600-ANA EX600-AXA EX600-AXA EX600-AXA EX600-ED2 EX600-ED2 EX600-ED3 E	NPN output, Spring type terminal block, 32 pins, 16 outputs PNP output, Spring type terminal block, 32 pins, 16 outputs NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (2 pcs.), 2-channel input M12 connector, 5 pins (4 pcs.), 2-channel input/output M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 2 A M12 connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inch connector, 5 pins, Max. supplied current 8 A 7/8 inc

Series S0700

Manifold Assembly Part No.



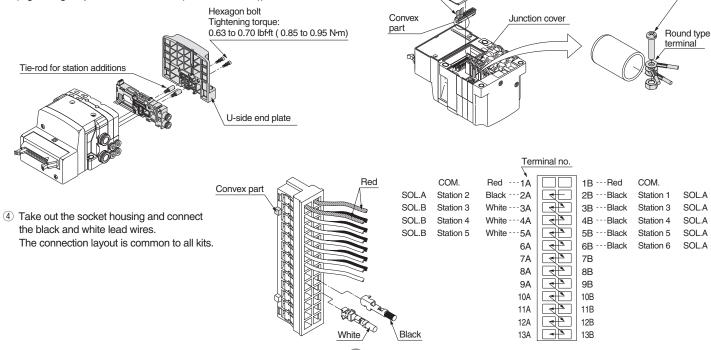
What to order

• Manifold block assembly (Refer to the above 17.)

Steps for adding stations

- ① Loosen hexagon bolts from the end plate at the U-side and remove the end plate.
- ② Connect the tie rod for increasing the station number, open the junction cover, mount the manifold block assembly and U-side end plate and tighten them by hexagon bolts.

(Tightening torque: 0.63 to 0.70 lbf·ft (0.85 to 0.95 N·m))

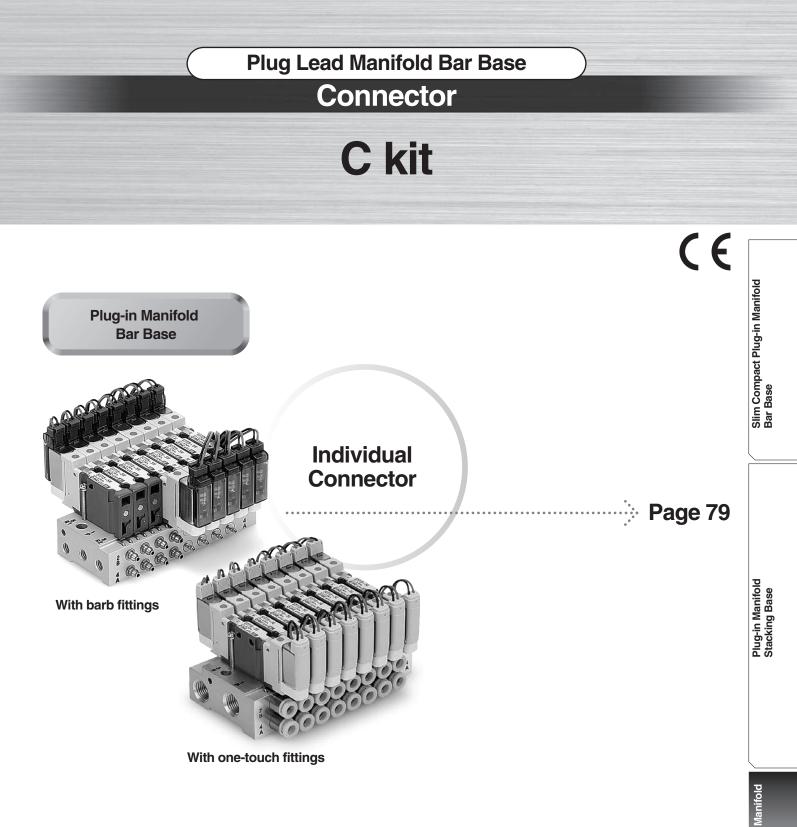


③ Connect the round type terminal of red lead wire to the common terminal inside the junction cover.

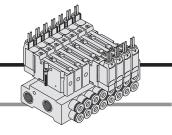
Tightening torque:

0.18 to 0.26 lbf ft (0.25 to 0.35 N·m)

Socket housing



Series S0700 Plug Lead Manifold Bar Base kit (Connector)



Specifications

External pilot

None

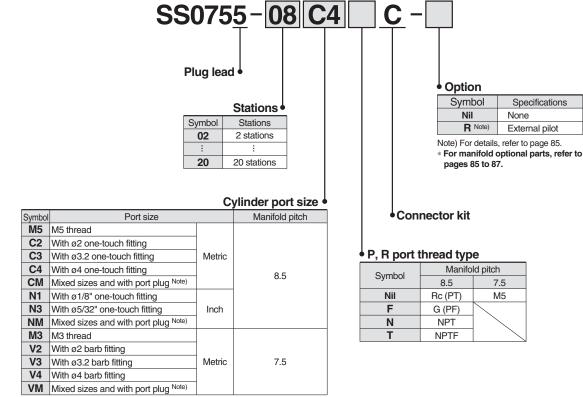
7.5

M5

Nil

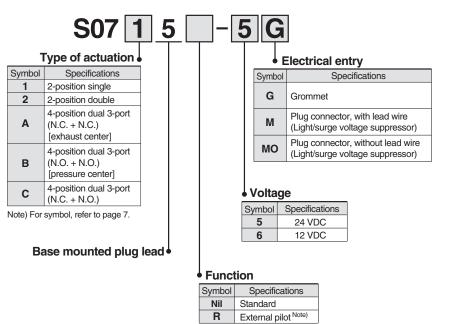
R Note)

How to Order Manifold

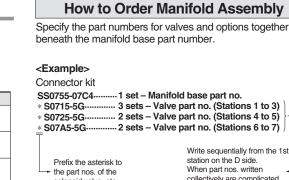


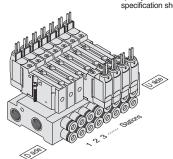
Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

How to Order Valves



Note) Not compatible with dual 3-port valves.

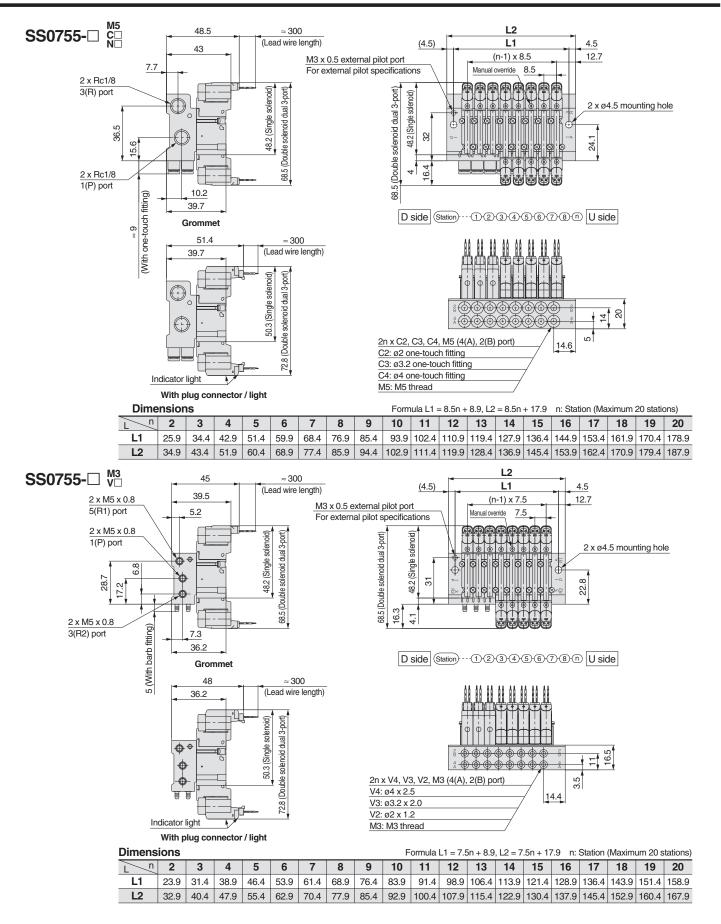




solenoid valve etc.

collectively are complicated, specify on the manifold specification sheet.





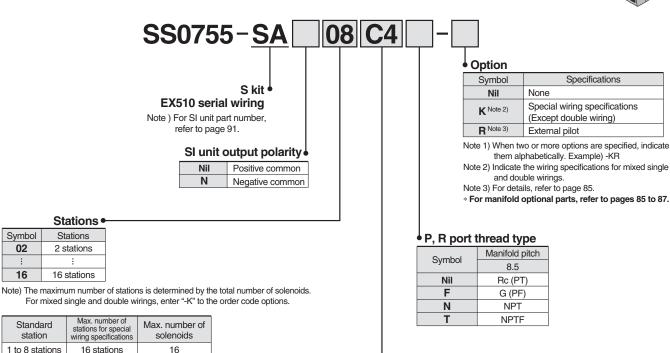


Plug Lead Manifold Bar Base Series S0700 Plug Lead Manifold Bar Base kit (Serial Transmission) EX510 Gateway-type Serial Transmission System

Double, Dual 3-port

2

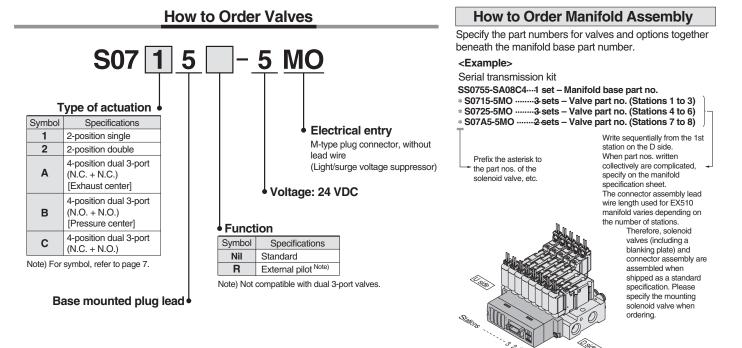
How to Order Manifold



Cylinder port size

Symbol	Port size	
M5	M5 thread	
C2	With ø2 one-touch fitting	
C3	With ø3.2 one-touch fitting	Metric
C4	With ø4 one-touch fitting]
СМ	Mixed sizes and with port plug Note)	
N1	With ø1/8" one-touch fitting	
N3	With ø5/32" one-touch fitting	Inch
NM	Mixed sizes and with port plug Note)	

Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.



83

Symbol

02

16

Standard

station

1 to 8 stations

Type of actuation

Number of solenoids

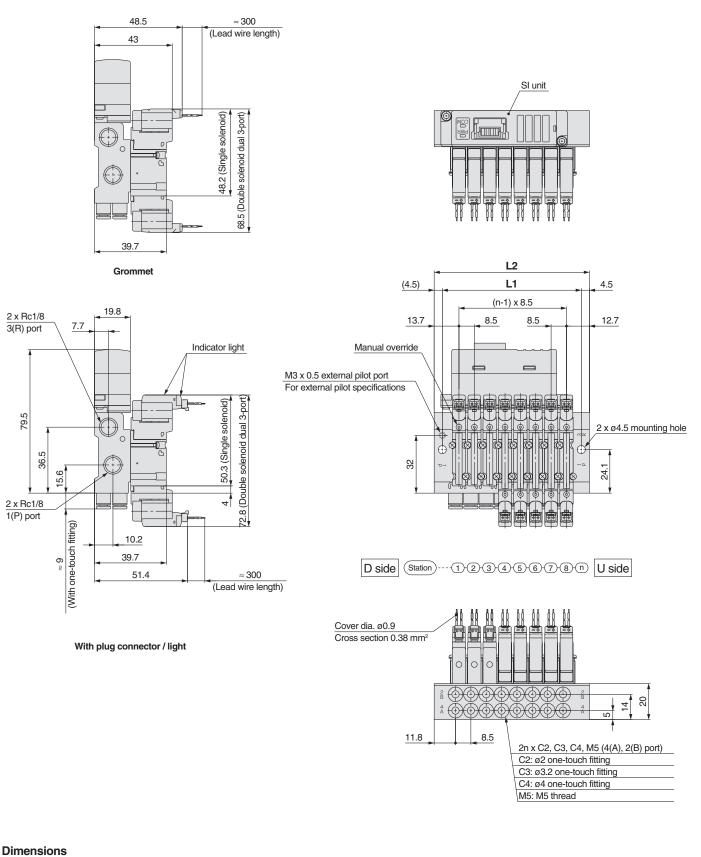
Transmission System.

Single

1

Refer to Reduced Wiring Fieldbus System (Serial Transmission) in Electric Products (CAT.E150) for details on the EX510 Gateway-type Serial

Plug Lead Manifold Bar Base EX510 Gateway-type Serial Transmission System Series S0700



79.5

Dimens	sions														
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	68.4	68.4	68.4	68.4	68.4	68.4	76.9	85.4	93.9	102.4	110.9	119.4	127.9	136.4	144.9
L2	77.4	77.4	77.4	77.4	77.4	77.4	85.9	94.4	102.9	111.4	119.9	128.4	136.9	145.4	153.9

SMC

Plug Lead Manifold Bar Base

Plug Lead Single Unit

Slim Compact Plug-in Manifold Bar Base

Plug-in Manifold Stacking Base

Series S0700 Plug Lead Manifold Bar Base **Manifold Optional Parts**

Blanking plate assembly

SS0700-10A-5

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Weight: 0.75 oz (21 g)

Individual SUP spacer

SS0700-P-5-M5

Port size M5 M5 thread

Mounted on the manifold block to make an independent supply port when each solenoid valve uses different operating pressure.

Weight: 0.25 oz (7 g) * Compatible with 8.5 mm pitch manifold only.

Individual EXH spacer

SS0700-R-5-M5

Port size M5 M5 thread

Mounted on the manifold block to make an independent exhaust port when the exhaust from one valve affects valves on other stations in the air circuit.

Weight: 0.25 oz (7 g)

* Compatible with 8.5 mm pitch manifold only.

Port plug **VVQ0000-CP**

The plug is used to block the cylinder port when using a 5-port valve as a 3-port valve.

* When ordering a plug incorporated with a manifold, indicate "CM" for the port size in the manifold no., as well as, the mounting position and number of stations and cylinder port mounting positions, A and B, on the manifold specification sheet.

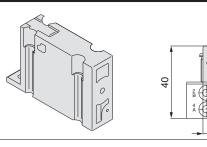


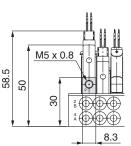
This can be used when the air pressure is 14.5 to 29 psi (0.1 to 0.2 MPa) lower than the minimum operating pressure of the solenoid valves or used for vacuum specifications.

Add R to the part numbers of manifolds and valves to indicate the external pilot specifications.

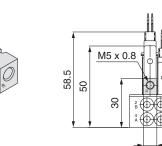
An M5 port will be installed on the top side of the manifold's SUP/EXH block.

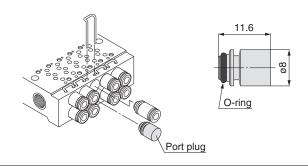
- How to Order Valves (Example)
- S0715 <u>R</u> -5G
 - External pilot
- How to Order Manifold (Example)
- * Indicate -R for an option. SS0755-08C4C-R
 - - External pilot

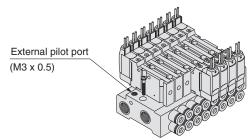




8.3

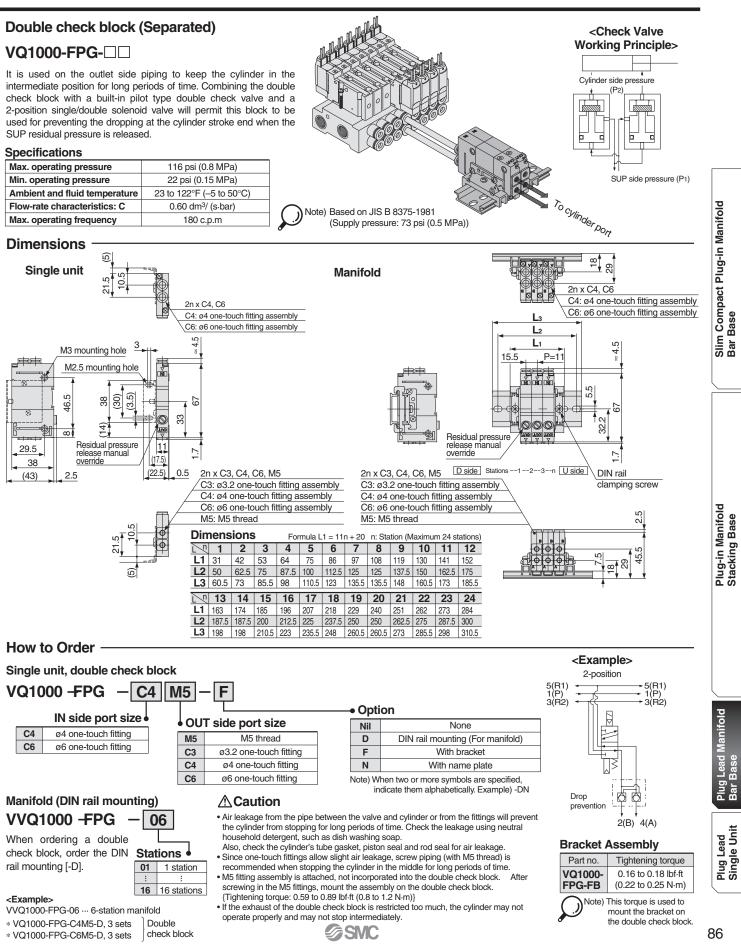






- Note 1) The dual 3-port valve is not available.
- Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specifications of the external pilot valve.
- Note 3) Valves with the external pilot have a pilot EXH with individual exhaust specifications and EXH can be pressurized.
 - However, the pressure supplied from EXH should be 58 psi (0.4 MPa) or lower.

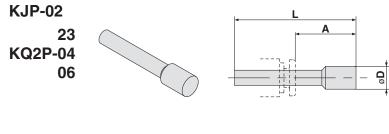
Plug Lead Manifold Bar Base EX510 Gateway-type Serial Transmission System Series S0700



86

Series S0700 Plug Lead Manifold Bar Base Manifold Optional Parts

Blanking plug (For one-touch fittings)



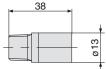
Dimensions					(mm)
Applicable fitting size ø d	Model	Α	L	D	Weight (g)
2	KJP-02	8.2	17	3	0.1
3.2	KQ2P-23	16	31.5	3.2	1
4	KQ2P-04	16	32	6	1
6	KQ2P-06	18	35	8	1

Silencer (For manifold EXH port)

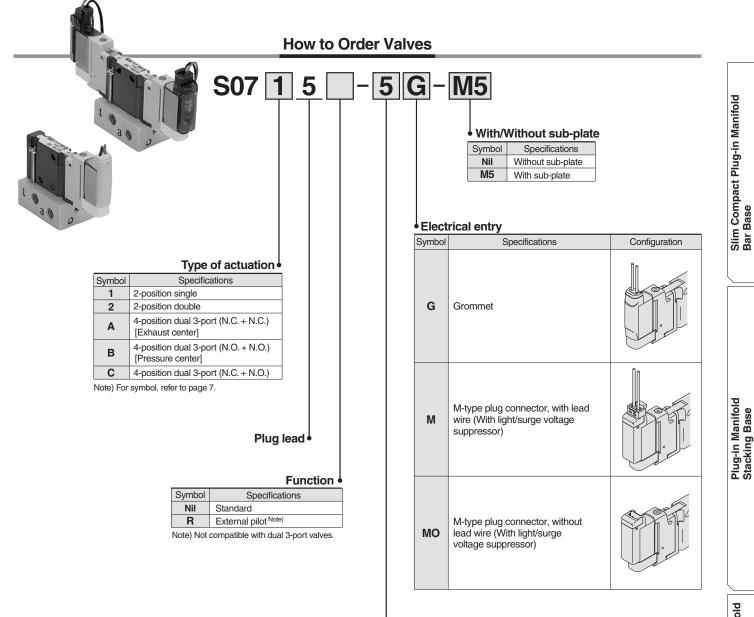
AN110-01

Silencer is installed in the EXH port.





5 Port Solenoid Valve/Base Mounted Plug Lead *Series S0700* Single Unit



Voltage

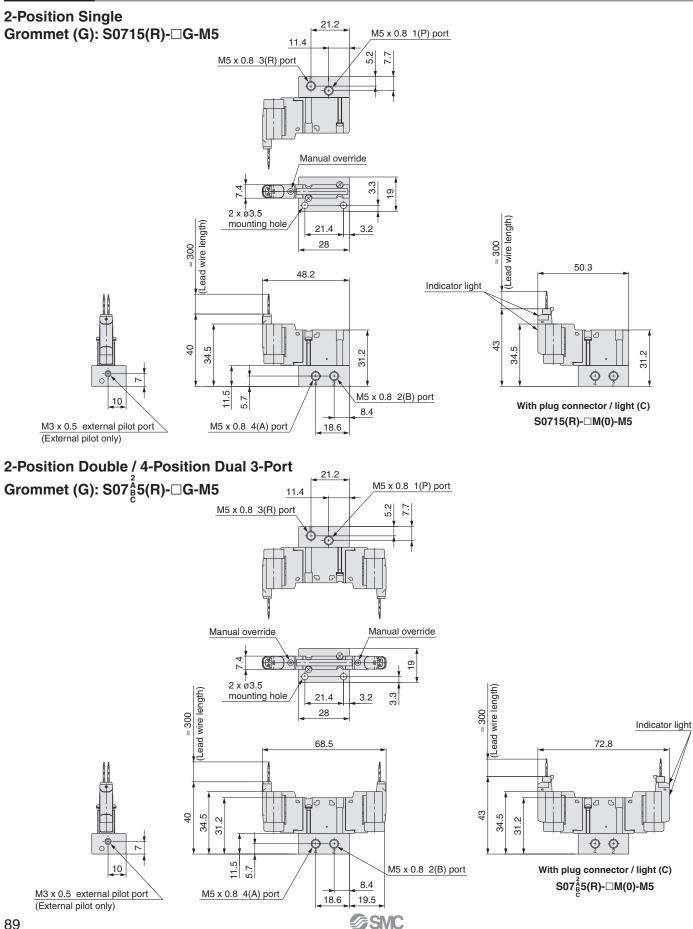
SMC

Symbol	Specifications				
5	24 VDC				
6	12 VDC				

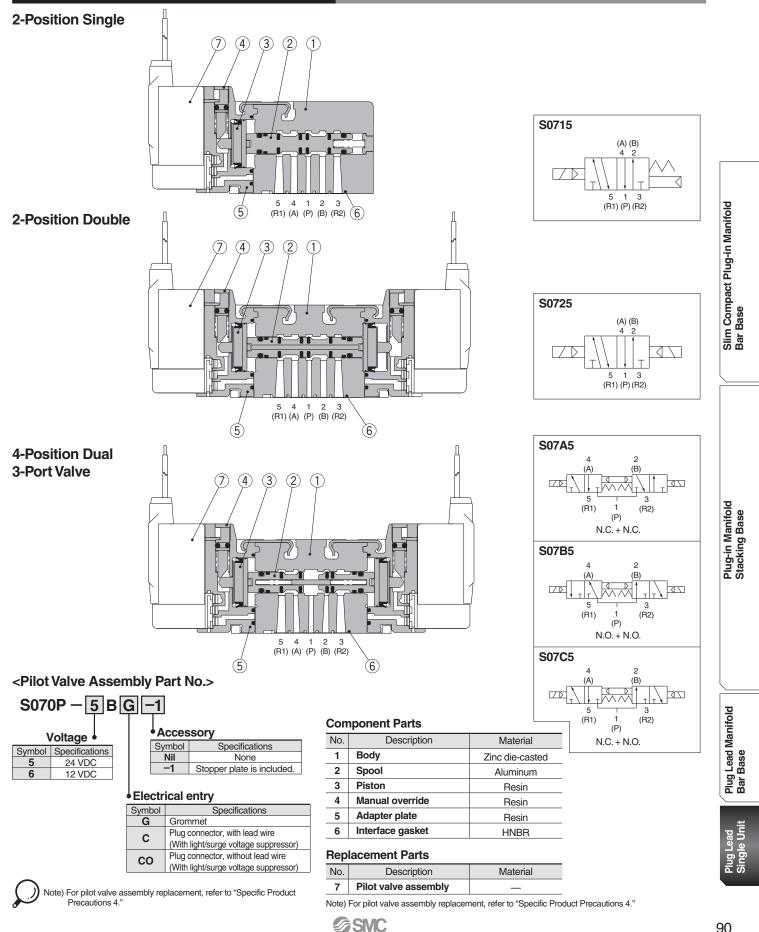
Plug Lead Plug Lead Manifold Single Unit Bar Base

Series S0700

Dimensions



Construction: Main Parts/Replacement Parts





<One-touch Fitting Assembly (For Cylinder Port)>

Manifold pitch	Port size	Part no.
	ø2 one-touch fitting	VVQ0000-50A-C2
	ø3.2 one-touch fitting	VVQ0000-50A-C3
8.5	ø4 one-touch fitting	VVQ0000-50A-C4
	ø1/8" one-touch fitting	VVQ0000-50A-N1
	ø5/32" one-touch fitting	VVQ0000-50A-N3
	ø2 barb fitting	SS070-50A-20
7.5	ø3.2 barb fitting	SS070-50A-32
	ø4 barb fitting	SS070-50A-40



Note) Purchasing order is available in units of 10 pieces.

<Plug Connector Assembly>

S070-14A

-[•Lead v	vire length
	Symbol	Length
	Nil	150 mm
	3	300 mm
	6	600 mm
	10	1000 mm

Note) Standard wire length of valve with plug connector is 300 mm. When ordering a lead wire length of 600 mm or longer, list the part numbers for the valve without connector and the connector assembly.

<Pilot Valve Assembly> S070P-5BG Voltage • Symbol Specifications 5 24 VDC 6 12 VDC

• Accessory					
Symbol	Specifications				
Nil	None				
-1	Stopper plate is included.				

Electrical entry

Symbol	Specifications	
G	Grommet	
С	Plug connector, with lead wire (With light/surge voltage suppressor)	
со	Plug connector, without lead wire (With light/surge voltage suppressor)	

Note) For pilot valve assembly replacement, refer to "Specific Product Precautions 4."

<Gasket, Screw Assembly>

Part no. S0700-GS-5

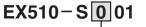


Note) Above part number consists of 10 units. Each unit has one gasket and two screws.

<Sub-plate>

	Part no.
	S0700-S-M5
	S0700-S-M5

<SI Unit (Series EX510)>



Output specifications

- NPN output (Positive common) 0
- 1 PNP output (Negative common)



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

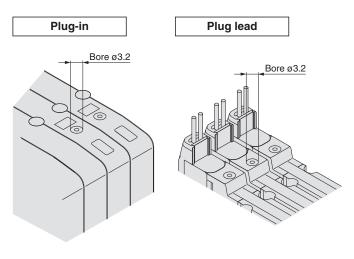
Manual Override

Warning

The manual override is used for switching the main valve.

Push type (Tool required)

Push down on the manual override button with a small screwdriver until it stops.

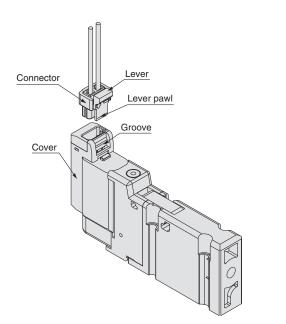


How to Attach/Detach Plug Connector

<Plug lead type only>

To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

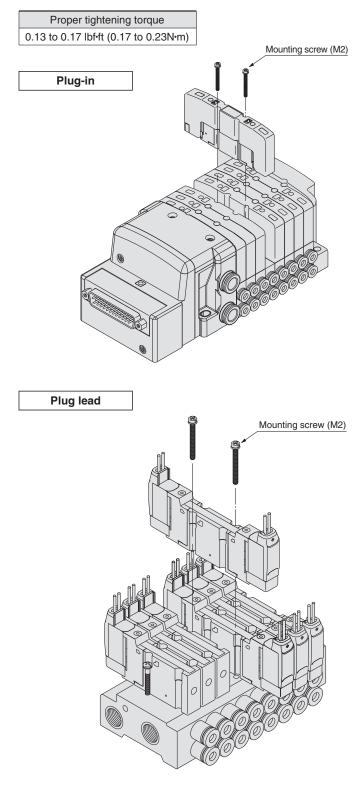
To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.



Note) In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 2.25 lbf (10 N) or more). How to Mount Valve

Caution

Tighten the bolts firmly to stop the gasket from coming away from the valve using the appropriate torque as shown on the following table.





Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

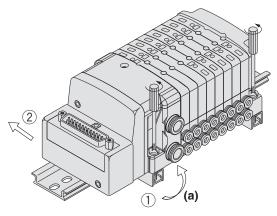
How to Mount/Remove DIN Rail

Caution

Plug-in

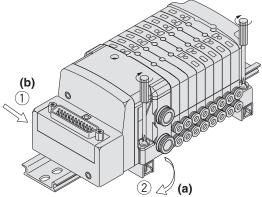
Removal

- 1) Loosen the clamping screw of the end plate on both sides.
- 2) Lift side (a) of the manifold base and slide the end plate in the direction of ② shown in the figure to remove.



Mounting

- 1) Hook side (b) of the manifold base on the DIN rail.
- 2) Press down side (a) and mount the end plate on the DIN rail. Tighten the clamping screw on side (a) of the end plate. The proper tightening torque for screws is 0.30 to 0.44 lbf-ft (0.4 to 0.6 N·m).



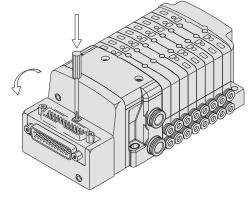
How to Change Connector Entry Direction

A Caution

<Plug-in manifold stacking base>

The connector entry direction can be changed from the top to the side by simply pressing the manual release button.

It is not necessary to use the manual release button when switching from the side to the top.



Built-in Silencer Element

Caution

<Plug-in type only>

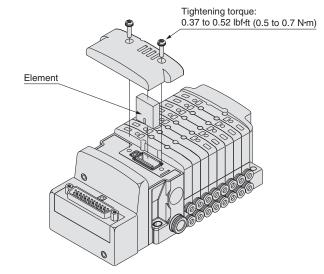
A silencer element is incorporated in the end plate on both sides of the base. A dirty and choked element may reduce cylinder speed or cause a malfunction. Clean or replace the dirty element.

Element Part No.

SMC

Туре	Element part no.
Slim compact plug-in manifold bar base SS0751	SS0700-83A
Plug-in manifold stacking base SS0750	SS0700-82A

* Above part number is for a set of ten elements.



Remove the cover from the side of the end plate and remove the old element with a flat blade screwdriver, etc.

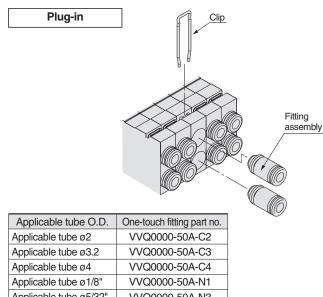
Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

How to Replace Cylinder Port Fittings

Warning

The cylinder port fittings are a cassette for easy replacement. The fittings are blocked by a clip inserted from the top of the valve.

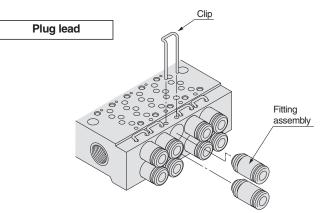
Remove the clip with a flat blade screwdriver to remove fittings. For replacement, insert the fitting assembly until it strikes against the inside wall and then re-insert the clip to the specified position.



Applicable tube ø5/32" VVQ0000-50A-N3

* Part number is for one fitting assembly.

* Please order it in units of 10 pieces.

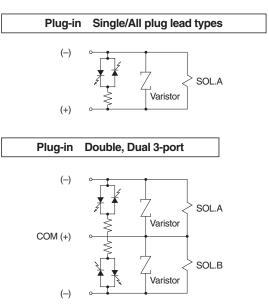


	Applicable tube O.D.	Fitting part no.
	Applicable tube ø2	VVQ0000-50A-C2
0 E nom nitch	Applicable tube ø3.2	VVQ0000-50A-C3
8.5 mm pitch (One-touch fitting)	Applicable tube ø4	VVQ0000-50A-C4
(One-touch itting)	Applicable tube ø1/8"	VVQ0000-50A-N1
	Applicable tube ø5/32"	VVQ0000-50A-N3
7 E nono nitoh	Barb fitting ø2	SS070-50A-20
7.5 mm pitch (Barb fitting)	Barb fitting ø3.2	SS070-50A-32
(Darb Illing)	Barb fitting ø4	SS070-50A-40

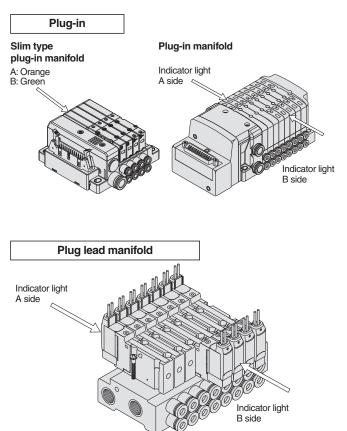
* Part number is for one fitting assembly. Please order it in units of 10 pieces. **Internal Wiring Specifications**

Light/surge voltage suppressor

No polarity by adopting non-polar light.



Note) Coil surge voltage generated when OFF is about –60 V. Please contact SMC separately for further suppression of the coil surge voltage.





Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Surge Voltage Intrusion

A Caution

The surge voltage created when the power supply is cut off could apply to the de-energized load equipment through the output circuit. In cases where the energized load equipment has a larger capacity (power consumption) and is connected to the same power supply as the product, the surge voltage could malfunction and/or damage the internal circuit element of the product and the internal device of the output equipment. To avoid this situation, place a diode which can suppress the surge voltage between the COM lines of the load equipment and output equipment.

How to Replace Pilot Valve

A Caution

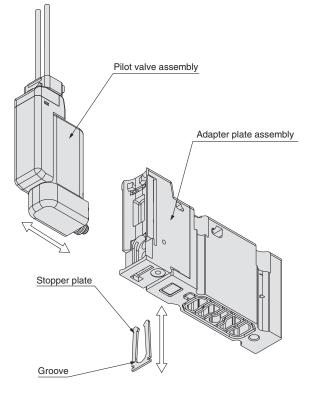
<Plug lead>

Removal

- 1) Remove the stopper plate from the adapter plate assembly by using a flat blade screwdriver on the concave of the stopper plate.
- 2) Take off the pilot valve in horizontal direction.

Mounting

- 1) Mount the pilot valve on the adapter plate assembly.
- 2) Insert the stopper plate into the adapter plate so that the stopper plate will not protrude from the end of the adapter plate.

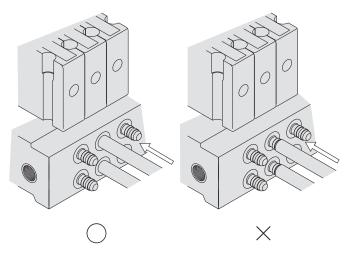


How to Connect Tubing

Caution

<Plug lead/Barb fittings>

- 1) Perpendicularly cut the tube to the necessary length by using an SMC tube cutter TK-1, 2 or 3.
- 2) Firmly insert the tube into the barb fitting. Insufficient insertion of the tube could cause the air leakage and/or disconnection of the tube.
- 3) When inserting the tube into the barb fitting, move the tube in parallel to the axis of the barb fitting to avoid any excessive side load to the fitting.



- 4) Pay attention not to apply any excessive side load to the barb fitting when removing it from the tube. When using a tube cutter or something similar, be careful not to damage or crack the fitting.
- 5) Do not apply any excessive load such as tensile, compressive or bending force to the tube once connected.



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX500/EX250/EX260 Precautions

M Warning

1. These products are intended for use in general factory automation equipment.

Avoid using these products in machinery/equipment which affects human safety, and in cases where malfunction or failure can result in extensive damage.

- 2. Do not use in an explosive atmosphere, environment with inflammable gases, or corrosive atmosphere. This can cause injury or fire, etc.
- 3. Work such as transporting, installing, piping, wiring, operation, control and maintenance should be performed by personnel with specialized knowledge. There is a danger of electrocution, injury or fire, etc.
- 4. Install an external emergency stop circuit that can promptly stop operation and shut off the power supply.
- 5. Do not remodel these products, as there is a danger of injury and damage.

ACaution

- 1. Read the operation manual carefully, strictly observe the precautions and operate within the range of the specifications.
- 2. Do not drop these products or submit them to strong impacts. This can cause damage, failure or malfunction, etc.
- 3. In locations with poor electrical conditions, take steps to ensure a steady flow of the rated power supply. Use of a voltage outside of the specifications can cause malfunction, damage to the unit, electrocution or fire, etc.
- 4. Do not touch connector terminals or internal substrates when current is being supplied. There is a danger of malfunction, damage to the unit or electrocution if connector terminals or internal substrates are touched when current is being supplied.

Be sure that the power supply is OFF when adding or removing manifold valves or input blocks, etc., or when connecting or disconnecting connectors.

- 5. Operate at an ambient temperature that is within the specifications. Even when the ambient temperature range is within the specifications, do not use in locations where there are rapid temperature changes.
- 6. Keep wire scraps and other extraneous material from getting inside these products. This can cause fire, failure or malfunction, etc.
- 7. This product is not constructed to withstand water or oil penetration. Therefore it should be fitted with a protective cover when used in environments where it could be exposed to water or oil splash.
- 8. Observe the proper tightening torque. There is a possibility of damaging threads if tightening exceeds the tightening torque range.
- 9. Adjustment/Operation

DIP switches and rotary switches should be set with a small watch-makers' screwdriver.

A Caution

- 10. Provide adequate protection when operating in locations such as the following:
 - Where noise is generated by static electricity, etc.
 - Where there is a strong electric field
 - Where there is a danger of exposure to radiation
 - When in close proximity to power supply lines
- 11. When these products are installed in equipment, provide adequate protection against noise by using noise filters, etc.
- 12. Since these products are components that are used after installation in other equipment, the customer should confirm conformity to EMC directives for the finished product.
- 13. Do not remove the name plate.
- 14. Perform periodic inspections and confirm normal operation. It may otherwise be impossible to guarantee safety due to unexpected malfunction or erroneous operation.
- 15. For the EX260-SPN□, the side of the SI unit may become hot.

It may cause burns.

Safety Instructions on Power Supply

A Caution

- 1. Operation is possible with a single power supply or a separate power supply. However, be sure to provide two wiring systems (one for solenoid valves, and one for input and control units).
- 2. When applicable to UL, use a Class 2 power supply unit conforming to UL1310 for direct current power supply.



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX500/EX250/EX260 Precautions

Safety Instructions on Cable

ACaution

1.Be careful of miswiring. This can cause malfunction, damage and fire in the unit.

2.Do not connect cables during energizing.

This could damage or cause malfunction to the SI unit.

- 3. To prevent noise and surge in signal lines, keep all wiring separate from power lines and high voltage lines. Otherwise, this can cause malfunction.
- 4. Check wiring insulation, as defective insulation can cause damage to the unit due to excessive voltage or current.
- 5. Do not bend or pull cables repeatedly, and do not place heavy objects on them or allow them to be pinched. This can cause broken lines.

Serial EX510 Precautions

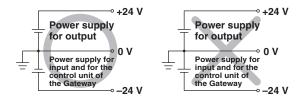
Design/Selection

AWarning

- Use within the allowable voltage range. Using beyond the allowable voltage range is likely to cause the units and connecting devices to be damaged or to malfunction.
- **2. Do not use beyond the specification range.** Using beyond the specification range is likely to cause a fire, malfunction, or breakdown in the units and connecting devices. Check the specifications before handling.
- 3.Establish a backup system beforehand, which employs failsafe concepts such as multiple equipment and devices to prevent breakage or malfunction of this product.
- 4. Provide an external emergency stop circuit that will immediately stop an operation and cut off the power supply.
- 5. When using for an interlock circuit:
 - Provide a double interlock which is operated by another system (such mechanical protection function).
 - Perform an inspection to check that it is working properly because it can cause possible injuries.

ACaution

- 1. Keep the surrounding space free for maintenace. When designing a system, take into consideration the amount of free space needed for performing maintenance.
- 2. When applicable to UL, use a Class 2 power supply unit conforming to UL1310 for direct current power supply.
- 3. This product is one of the components to be equipped into a final equipment. Confirm the adaptability to the EMC directive as the whole equipment by customers themselves.
- 4. The power supply for the Gateway unit should be 0 V as the standard for both power supply for outputs as well as inputs and for the control unit of the Gateway.





Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX510 Precautions

Mounting

ACaution

- Do not drop, bump, or apply excessive impact. Otherwise, the unit can become damaged, malfunction, or fail to function.
- 2. Hold the body while handling this product.

Otherwise, the unit can become damaged, malfunction, or fail to function.

3. Observe the tightening torque range.

Tightening outside of the allowable torque range will likely damage the product.

4.Do not install a unit in a place where it can be used as a scaffold.

Applying any excessive load such as stepping on the unit by mistake or placing a foot on it, will cause it to break.

Wiring

Warning

1. Avoid miswiring.

If miswired, there is a probability of damaging units or connecting devices.

2. Do not wire while energizing the product.

It is likely to damage the units or connecting devices.

3.Avoid wiring the power line and high pressure line in parallel.

Noise or surge produced by signal line resulting from the power line or high pressure line could cause a malfunction. Wiring of the reduced wiring system and the power line or high pressure line should be separated from each other.

4. Check the wiring insulation.

Inferior insulation (contact with other circuit, insulation between terminals, etc.) will likely cause damage to the units or connecting devices due to excessive voltage or the influx of current.

A Caution

1.Take measures to avoid applying repeated bending force or pulling force to the cable.

Also, pay attention not to place any heavy matter on the cable or clipping. It is likely to cause a broken wire.

2.Check the grounding to maintain the safety of the reduced wiring system and for anti-noise performance.

Grounding should be close to units and keep the grounding distance short.

Operating Environment

Warning

1. Do not use this product in the presence of dust, particles, water, chemicals, and oil.

Use with such materials is likely to cause a malfunction or breakage.

2. Do not use this product in the presence of a magnetic field.

Use in such an environment is likely to cause a malfunction.

3.Do not use this product in an atmosphere containing an inflammable gas, explosive gas, or corrosive gas.

Use in such an atmosphere is likely to cause a fire, explosion, or corrosion. This wire-reduced system is not explosion-proof.

4.Do not use this product in places where there are cyclic temperature changes.

In case that the cyclic temperature is beyond normal temperature changes, the internal unit is likely to be adversely affected.

5.Do not use this product in places where there is radiated heat around it.

Such a place is likely to cause a malfunction or breakage.

6.Do not use this product near sources that generate a surge which exceeds the benchmark test, even though this product is CE-marked certified.

The internal circuit components are likely to deteriorate or become damaged when there are equipment (solenoid type lifter, high frequency guided furnace, motor, etc.) which generate a large surge around the reduced wiring system. Take measures to prevent an electrical surge and avoid having the wires touch each other.

- 7. Use the product type that has an integrated surge absorption element when directly driving a load which generates surge voltage by relay or solenoid valves.
- 8. The reduced wiring system should be installed in places with no vibration or shock.

Such a place is likely to cause a malfunction or breakage.



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX510 Precautions

Adjustment/Operation

M Warning

1. Do not short-circuit a load.

If a load is short-circuited, excessive current can cause damage to the connected devices. The fuse of the input unit will melt. The output and SI unit will activate its overcurrent protection function. However, they cannot cover all modes, so damage is likely to occur.

2. Do not manipulate or perform settings with wet hands. Performing such activity will likely cause an electrical shock.

ACaution

1. DIP switches and rotary switches should be set with a small watchmakers' screwdriver.

Maintenance

M Warning

1.Do not disassemble, modify (including circuit board replacement) or repair this product.

Such actions are likely to cause injuries or breakage.

2. Perform periodic inspection.

Confirm that wiring or screws are not loose. Otherwise, unpredicted malfunction in the system composition devices is likely to occur.

- 3. When an inspection is performed.
 - Turn off the power supply.
 - Stop the supplied fluid and discharge the fluid in the piping and confirm the release to the atmosphere before performing an inspection. It is likely to cause injuiries.

ACaution

1.Do not wipe this product with chemicals such as benzine or thinner.

Using such chemicals is likely to cause damage.



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX600 Precautions

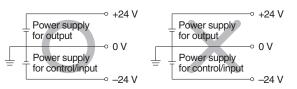
Design/Selection

Marning

- Use this product within the specification range. Using beyond the specified specifications range can cause fire, malfunction, or damage to the system.
- Check the specifications when operating. 2. When using for an interlock circuit:
 - Provide a multiple interlock system which is operated by another system (such as mechanical protection function).
 - Perform an inspection to confirm that it is working properly. This may cause possible injury due to malfunction.

ACaution

- 1. When applicable to UL, use a Class 2 power supply unit conforming to UL1310 for direct current power supply.
- Use this product within the specified voltage range. Using beyond the specified voltage range is likely to cause the units and connecting devices to be damaged or to malfunction.
- 3. The power supply for the unit should be 0 V as the standard for both power supply for output as well as power supply for control/input.



4. Do not install a unit in a place where it can be used as a foothold.

Applying any excessive load such as stepping on the unit by mistake or placing a foot on it, will cause it to break.

- **5. Keep the surrounding space free for maintenance.** When designing a system, take into consideration the amount of free space needed for performing maintenance.
- 6. Do not remove the name plate.

Improper maintenance or incorrect use of instruction manual can cause failure and malfunction. Also, there is a risk of losing conformity with safety standards.

7. Beware of inrush current when the power supply is turned on.

Some connected loads can apply an initial charge current which will trigger the over current protection function, causing the unit to malfunction.

Mounting

- 1. When handling and assembling units:
 - Do not touch the sharp metal parts of the connector or plug.
 - Do not apply excessive force to the unit when disassembling.
 - The connecting portions of the unit are firmly joined with seals.
 - When joining units, take care not to get fingers caught between units.
 - Injury can result.

Mounting

2. Do not drop, bump, or apply excessive impact.

Otherwise, the unit can become damaged, malfunction, or fail to function.

3. Observe the tightening torque range.

Tightening outside of the allowable torque range will likely damage the product.

IP67 protection class cannot be guaranteed if the screws are not tightened to the specified torque.

4. When lifting a large size manifold solenoid valve unit, take care to avoid causing stress to the valve connection joint.

The connection parts of the unit may be damaged. Because the unit may be heavy, carrying and installation should be performed by more than one operator to avoid strain or injury.

5. When placing a manifold, mount it on a flat surface. Torsion in the whole manifold can lead to trouble such as air leakage or defective insulation.

Wiring

Caution

1. Check the grounding to maintain the safety of the reduced wiring system and for anti-noise performance.

Provide a specific grounding as close to the unit as possible to minimize the distance to grounding.

2. Avoid repeatedly bending or stretching the cable and applying a heavy object or force to it.

Wiring applying repeated bending and tensile stress to the cable can break the circuit.

3. Avoid miswiring.

If miswired, there is a danger of malfunction or damage to the reduced wiring system.

4. Do not wire while energizing the product.

There is a danger of malfunction or damage to the reduced wiring system or input/output equipment.

5. Avoid wiring the power line and high pressure line in parallel.

Noise or surge produced by signal line resulting from the power line or high pressure line could cause malfunction.

Wiring of the reduced wiring system or input/output device and the power line or high pressure line should be separated from each other.

6. Check the wiring insulation.

Defective insulation (contact with other circuits, improper insulation between terminals, etc.) may cause damage to the reduced wiring system or input/output device due to excessive voltage or current.



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX600 Precautions

Wiring

▲Caution

- 7. When a reduced wiring system is installed in machinery/equipment, provide adequate protection against noise by using noise filters, etc. Noise in signal lines may cause a malfunction.
 - Noise in signal lines may cause a malfunction.
- 8. When connecting wires of input/output device or handheld terminal, prevent water, solvent or oil from entering inside from the connecter section.

This can cause damage, equipment failure or malfunction.

9. Avoid wiring patterns in which excessive stress is applied to the connector.

This may cause malfunction or damage to the unit due to contact failure.

Operating Environment

Marning

1. Do not use in an atmosphere containing an inflammable gas or explosive gas.

Use in such an atmosphere is likely to cause a fire or explosion. This system is not explosion-proof.

Caution

2. Provide adequate protection when operating in locations such as the following.

Failure to do so may cause damage or malfunction.

The effect of countermeasures should be checked in individual equipment and machine.

- 1) Where noise is generated by static electricity, etc.
- 2) Where there is a strong electric field
- 3) Where there is a danger of exposure to radiation
- 4) When in close proximity to power supply lines

Operating Environment

Caution

3. Do not use in an environment where oil and chemicals are used.

Operating in environments with coolants, cleaning solvents, various oils or chemicals may cause adverse effects (damage, malfunction) to the unit even in a short period of time.

4. Do not use in an environment where the product could be exposed to corrosive gas or liquid.

This may damage the unit and cause it to malfunction.

5. Do not use in locations with sources of surge generation.

Installation of the unit in an area around the equipment (electromagnetic lifters, high frequency induction furnaces, welding machine, motors etc.), which generates the large surge voltage could cause to deteriorate an internal circuitry element of the unit or result in damage. Implement countermeasures against the surge from the generating source, and avoid touching the lines with each other.

6. Use the product type that has an integrated surge absorption element when directly driving a load which generates surge voltage by relay, solenoid valves or lamp.

When a surge generating load is directly driven, the unit may be damaged.

- 7. The product is CE marked, but not immune to lightning strikes. Take measures against lightning strikes in your system.
- 8. Keep dust, wire scraps and other extraneous material from getting inside the product. This may cause a malfunction or damage.
- 9. Mount the unit in such locations, where no vibration or shock is affected.

This may cause a malfunction or damage.

10. Do not use in places where there are cyclic temperature changes.

In case that the cyclic temperature is beyond normal temperature changes, the internal unit is likely to be adversely effected.

11. Do not use in direct sunlight.

Do not use in direct sunlight. It may cause a malfunction or damage.

12. Use this product within the specified ambient temperature range.

This may cause a malfunction.

SMC

13. Do not use in places where there is radiated heat around it. Such a place is likely to cause a malfunction.



Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

Serial EX600 Precautions

Adjustment/Operation

A Warning

1. Do not perform operation or setting with wet hands. There is a risk of electrical shock.

<Handheld Terminal>

2. Do not apply pressure to the LCD.

There is a possibility of the crack of LCD and injuring.

3. The forced input/output function is used to change the signal status forcibly. When operating this function, be sure to check the safety of the surroundings and installation.

Otherwise, injury or equipment damage could result.

4. Incorrect setting of parameters can cause malfunction. Be sure to check the settings before use.

This may cause injury or equipment damage.

1. Use a watchmakers' screwdriver with thin blade for the setting of each switch of the SI unit.

When setting the switch, do not touch other unrelated parts.

This may cause parts damage or malfunction due to a short-circuit.

- 2. Provide adequate setting for the operating conditions. Failure to do so could result in malfunction. Refer to the instruction manual for setting of the switches.
- 3. For details on programming and address setting, refer
- to the manual from the PLC manufacturer. The content of programming related to protocol is designed by the manufacturer of the PLC used.

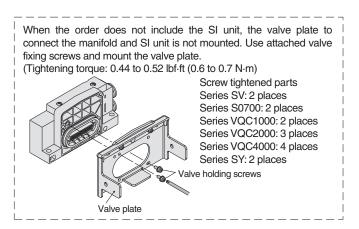
<Handheld Terminal>

4. Do not press the setting buttons with a sharp pointed object.

This may cause damage or malfunction.

5. Do not apply excessive load and impact to the setting buttons.

This may cause damage, equipment failure or malfunction.



Maintenance

A Warning

1. Do not disassemble, modify (including circuit board replacement) or repair this product.

Such actions are likely to cause injuries or breakage.

- 2. When an inspection is performed,
 - Turn off the power supply.
 - Stop the air supply, exhaust the residual pressure in piping and verify that the air is released before performing maintenance work.

Unexpected malfunction of system components and injury can result.

Caution

1. When handling and replacing the unit:

- Do not touch the sharp metal parts of the connector or plug.
- Do not apply excessive force to the unit when disassembling.
 - The connecting portions of the unit are firmly joined with seals.
- When joining units, take care not to get fingers caught between units.

Injury can result.

2. Perform periodic inspection.

Unexpected malfunction in the system composition devices is likely to occur due to malfunction of machinery or equipment.

3. After maintenance, make sure to perform an appropriate functionality inspection.

In cases of abnormality such as faulty operation, stop operation. Unexpected malfunction in the system composition devices is likely to occur.

4. Do not use benzene and thinner for cleaning units.

Damage to the surface or erasure of the display can result. Wipe off any stains with a soft cloth.

If the stain is persistent, wipe off with a cloth soaked in a dilute solution of neutral detergent and wrung out tightly, and then finish with a dry cloth.

Trademark

DeviceNet[™] is a trademark of ODVA. EtherNet/IP[™] is a trademark of ODVA. EtherCAT[®] is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



Series S0700 Troubleshooting

Trouble	In the event of product failure, take remedial measures by checking the following items as detailed below.	Cause	Measures
	Does the product operate by pressing a manual button?	 Slide failure or sticking of the main valve Foreign matter from the air source has been caught in the main valve and has caused slide failure and sticking. 	 Replace the valve. Purify the air source. (Refer to Best Pneumatics No. 1.)
		 Pressure drop The pressure of the air source decreases and fails to reach the minimum operating pressure of the valve, resulting in operating failure. 	Adjust the pressure of the valve within the operating pressure range.
Operating failure The air supply direction has	Does the indicator light illuminate when energizing?	 Electric system error Sequencer failure Incorrect wiring Open fuse and lead wire disconnection Voltage drop 	Check each item and take applicable measure.
not been changed.	YES -	1) Voltage drop The product may not operate due to a voltage drop even when its indicator light remains illuminated.	Check the voltage and take applicable measure if decreased.
		 Current leakage The product does not shift from off to on due to the residual voltage. 	Check the residual voltage, which shall be 2% or less of rated voltage.
		 3) Pilot valve failure Foreign matter from the air source has entered the inside of the pilot valve and has caused operating failure. Open coil circuit 	Replace the pilot valve assembly. <part assembly="" no.="" of="" pilot="" valve=""> S070P-</part>
Response		1) Current leakage The response of the product was delayed due to the residual voltage.	Check the residual voltage, which should be 2% or less of the rated voltage.
failure The product operates, but has a time delay.		 Clogging of the filter element of the manifold 	Clean or replace the element.
		 Foreign matter from the air source has entered the main valve and has caused slide failure and sticking. 	 Replace the valve. Purify the air source. (Refer to Best Pneumatics No. 1.)

Troubleshooting Series S0700

Trouble	In the event of product failure, take remedial measures by checking the following items as detailed below.	Cause	Measures
	Check the part where the air is leaking. 1. Leakage between the valve and base	1-1) The clamping screw or mounting bolt is loose.	Tighten the clamping screw. Proper tightening torque 0.17 to 0.23 N•m Replace the gasket if it was damaged.
		1-2) The gasket got caught.	Replace the gasket. <part and="" gasket="" no.="" of="" parts="" spare=""> S0700-GS-5 (10 sets) Plug-in Manifold Stacking Base Plug Lead Manifold Bar Base, Plug Lead Single Unit S0700-GS-3 (10 sets) Slim Compact Plug-in Manifold Bar Base</part>
Aintestrone	e 2. Air leakage from the one-touch fitting	2-1) The tube did not bottom out.2-2) The tube had a flaw.2-3) The tube end was cut uneven.	Check each item and take applicable measures.
Air leakage		2-4) The packing of the one-touch fitting was damaged.	Replace the one-touch fitting assembly. <part fitting<br="" no.="" of="" one-touch="">assembly> VVQ0000-50A-C2 VVQ0000-50A-C3 VVQ0000-50A-C4 VVQ0000-50A-N1 VVQ0000-50A-N3 SS070-50A-20 SS070-50A-32 SS070-50A-40</part>
		3-1) The mounting screw is loose.	Tighten the mounting bolt. Proper tightening torque • 0.17 to 0.23 N•m Replace the gasket if it was damaged.
		3-2) Foreign matter from the air source got caught in the main valve and increased the internal leakage.	Replace the valve. Purify the air source. (Refer to Best Pneumatics No. 1.)

▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "**Caution**," "**Warning**" or "**Danger**." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

and other safety reg	julations.
 Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury. Warning: Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury. Danger : Danger : Danger : Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury. 	 *1) ISO 4414: Pneumatic fluid power – General rules relating to systems. ISO 4413: Hydraulic fluid power – General rules relating to systems. IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements) ISO 10218-1: Manipulating industrial robots - Safety. etc.
⚠Warning	∆ Caution
 The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications. Since the product specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment. Only personnel with appropriate training should operate machinery and equipment. The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced. Do not service or attempt to remove product and machinery/equipment until safety is confirmed. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions. I. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight. Installation on equipment in conju	 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch. Limited warranty and Disclaimer/ Compliance Requirements." Read and accept them before using the product. Limited warranty and Disclaimer and "Compliance Requirements." Read and accept them before using the product. Limited warranty and Disclaimer and "Compliance Requirements." Read and accept them before using the product. Limited warranty period of the product is 1 year in service or 1.5 years after the product is delivered.⁴²⁾ Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products. <i>*2) Vacuum pads are excluded from this 1 year warranty</i>. Avacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period to reduct use of the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.
 and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog. 3. An application which could have negative effects on people, property, or animals requiring special safety analysis. 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation. 	 Compliance Requirements The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.
	Revision history
	Edition B * Addition of Slim Compact Plug-in Manifold Bar Base, 5 Port Solenoid Valve Series S0700. * Number of pages from 84 to 112. NR Edition C * 5 Port Solenoid Valve Series S0700 EX180 (For Output) for Serial Transmission System is added. EX260 (For Output) for Serial Transmission System is added. EX260 (For Output) of Core and the form of

A Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

EtherNet/IPTM and EtherCAT are added as supported network types for EX600 (For Input/Output) for Serial Transmission System.

QO



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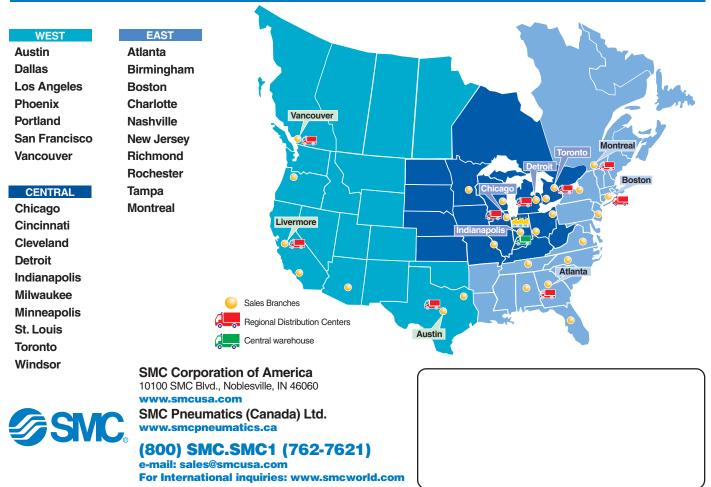
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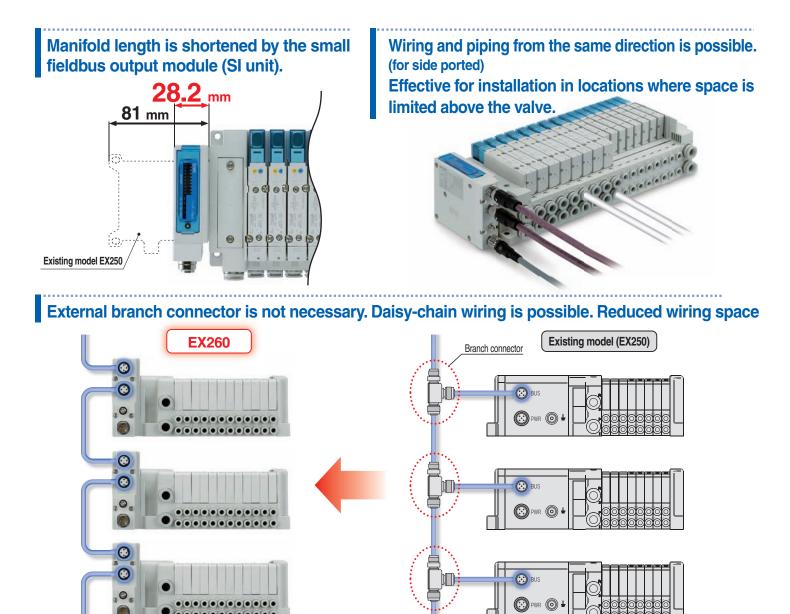
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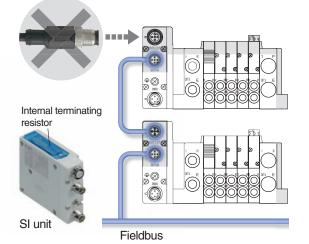
Series EX260



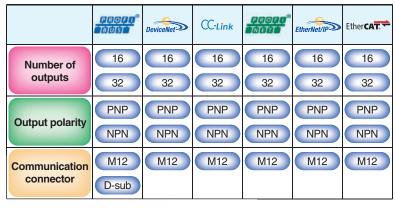
External terminating resistor is not necessary. (Only available for M12 PROFIBUS DP, CC-Link communication connectors)

ON/OFF switching is possible with an internal terminating resistor. External terminating resistor is not necessary.





Product Specification Variations



Communication connector examples

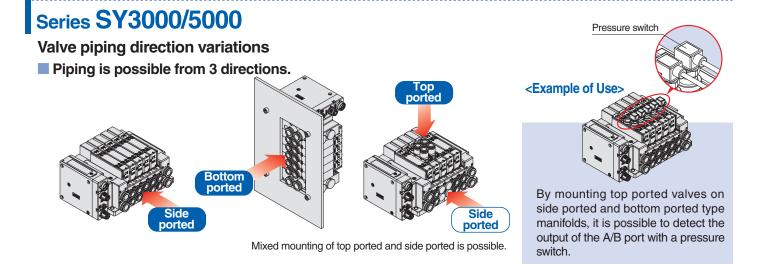


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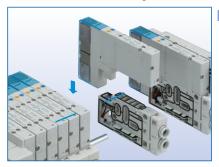
M12 communication connector (PROFIBUS DP) D-sub conne (PROFII

D-sub communication connector (PROFIBUS DP)

Features 1



Valves can be freely connected up to 24 stations.



 It is possible to connect only the number of valves required, from 1 to 24 stations, to suit the application.
 (Maximum number of solenoids connected: 32)

Mixed valve sizes manifold

Valves of different sizes, SY3000 and SY5000, can be mounted on the same manifold.



Series S0700

7 mm width valves can be connected.

• Applicable Valve Series



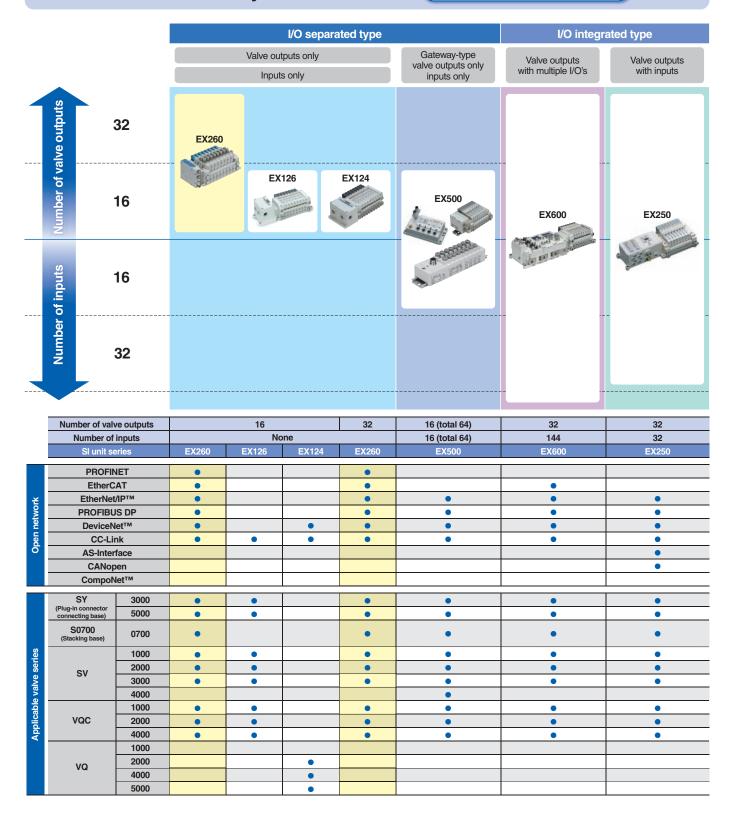
It is possible to connect only the number of 7 mm width valves required, from 1 to 24 stations. (Maximum number of solenoids connected: 32)

Sorios	Series		tics (4/2→5/3)	Maximum number of	Power consumption	Enclosure	Standards	Page
		C [dm³/(s·bar)]	b	solenoids	(W)	Linciosure	Standarus	Fage
Store State	SY3000	1.6	1.6 0.19		0.35 (standard) 0.1 (with power-	IP67	CE	7
. Ethan	SY5000	3.6	0.17	32	saving circuit)			page 7
	S0700	0.37	0.39	32	0.35	IP40	€	page 38
and	SV1000	1.1	0.35				CE	
	SV2000	2.4	0.18	32	0.6	IP67		page 24
	SV3000	4.3	0.21				A L	
errent.	VQC1000	1.0	0.30		0.4 (standard)			
California C	VQC2000	3.2	0.30	24	0.4 (standard)	IP67	CE	page 29
- Cisace	VQC4000	7.3	0.38		1.0 (standard)			

Note) For units with D-sub communication connector, it is IP40.

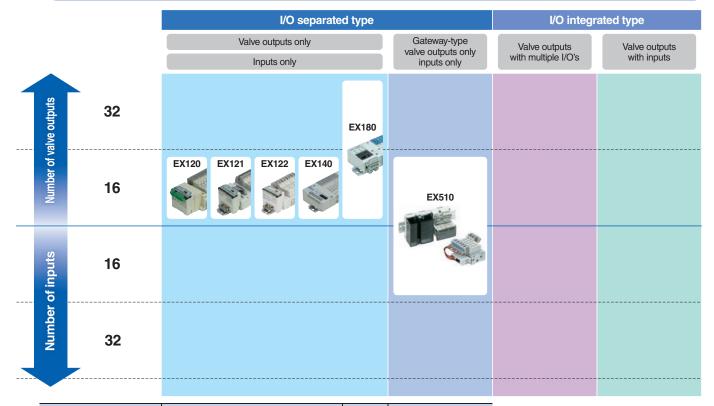
Fieldbus System Variations

(IP67/65 specification models)



Fieldbus System Variations

(IP20 specification models)



	Number of valve		1	6		32	16 (total 64)	
	Number of inp	outs			None			16 (total 64)
	SI unit serie	s	EX120	EX121	EX122	EX140	EX180	EX510
	PROFINET	-						
	EtherCAT							
¥		EtherNet/IP™						
Open network	PROFIBUS I							•
net	DeviceNet		٠	٠	٠	٠	•	•
e	CC-Link		•	•	•	•	•	•
8	AS-Interfac	e						
	CANopen							
	CompoNet ¹	м		•	•			
	SY	3000						
	(Plug-in connector connecting base)	5000	•					
		2000					•	•
	SJ	3000					•	•
	SY	3000						•
	(Plug-in metal base)	5000						•
	S0700 (Bar stock)	0700					•	•
		3000						•
	SY (Bar stock)	5000						•
		7000						•
ø		3000		•	•			•
irie	SY (Stacking base)	5000		•	•			•
e Se		7000						•
alve		1000	•					
e K	SV	2000	•					
Applicable valve series		3000	•					
-ie		4000	•					
Apl		1000	•					•
	VQ	2000	•					•
		4000						
		5000						
	SQ	1000				•		•
		2000				•		•
	SZ	3000				•		•
	VQZ	1000 2000						
	VQZ	3000						
				-				
	SYJ	3000 5000						
	310	7000						•
		7000			I			-
						S S	JVL	

Features 4

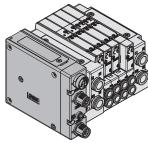
SI Unit Integrated-type/For Output

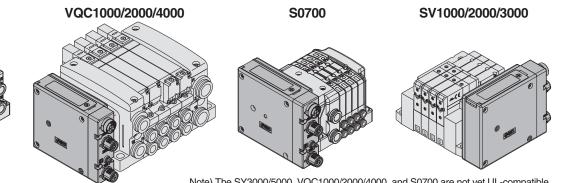
Series EX260



Compact design	Compact design for space saving
Number of outputs	Each 32/16 digital output type available in the series
Output polarity	Each negative common (PNP) / positive common (NPN) type available in the series
Enclosure	IP67 (For units with D-sub connector, and when connected with S0700 manifolds, it is IP40.)
Internal terminating resistor	ON/OFF switching is possible with an internal terminating resistor for communication. (Only for units compatible with M12 PROFIBUS DP, CC-Link communication connectors)

SY3000/5000





Note) The SY3000/5000, VQC1000/2000/4000, and S0700 are not yet UL-compatible.

How to Order SI Units

EX260 - S PF] Imunication p	ratacal			
_	Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol
	DN1			Source/PNP (Negative common)		QAN
	DN2		32	Sink/NPN (Positive common)	· · · · ·	QA
	DN3	DeviceNet™		Source/PNP (Negative common)	M12	QBN
	DN4		16	Sink/NPN (Positive common)	1	QB
	PR1			Source/PNP (Negative common)		NAN
	PR2	PROFIBUS DP	32	Sink/NPN (Positive common)		NA
	PR3		10	Source/PNP (Negative common)	M12	NBN
-	PR4		16	Sink/NPN (Positive common)	1	NB
	PR5		32 -	Source/PNP (Negative common)		NCN
	PR6			Sink/NPN (Positive common)	D-sub Note)	NC
	PR7		16 -	Source/PNP (Negative common)		NDN
	PR8			Sink/NPN (Positive common)		ND
	MJ1	00111	32 -	Source/PNP (Negative common)		VAN
	MJ2			Sink/NPN (Positive common)		VA
	MJ3	CC-Link	10	Source/PNP (Negative common)	M12	VBN
	MJ4		16	Sink/NPN (Positive common)]	VB
	EC1			Source/PNP (Negative common)		DAN
	EC2		32	Sink/NPN (Positive common)	M12	DA
	EC3	EtherCAT	16	Source/PNP (Negative common)] IVI I 2	DBN
	EC4		16	Sink/NPN (Positive common)		DB
	PN1		32	Source/PNP (Negative common)		FAN
	PN2		32	Sink/NPN (Positive common)	M12	FA
	PN3	PROFINET	16	Source/PNP (Negative common)	IVI12	FBN
	PN4		10	Sink/NPN (Positive common)		FB
	EN1		32	Source/PNP (Negative common)		EAN
	EN2	EtherNet/IP™	32	Sink/NPN (Positive common)	M12	EA
	EN3		16	Source/PNP (Negative common)	IVIIZ	EBN
	EN4		16	Sink/NPN (Positive common)		EB

Note) Enclosure is IP40 when the communication connector is D-sub.

SI Unit Specifications

Applicable system	rotocol			EX260-SPR5/7	EX260-SPR6/8		EX260-SDN2/4	EXECC ONIO 1/O	EX260-SMJ2/4
system	Protocol		PROFIBUS DP				Net™	CC	-Link
	ersion Note 1)		DP	-V0		Volume 1(Edition 3.5) Volume 3(Edition 1.5)		Ver.1.10	
Configuration file Note 3)			GSE) file		EDS	6 file	-	_
I/O occupation area (Inputs/Outputs)		SPR1: 0/32 SPR3: 0/16	SPR2: 0/32 SPR4: 0/16	SPR5: 0/32 SPR7: 0/16	SPR6: 0/32 SPR8: 0/16	SDN1: 0/32 SDN3: 0/16	SDN2: 0/32 SDN4: 0/16		SMJ2: 32/32 SMJ4: 32/32 (1 station,) remote I/O stations)
Communication speed		18		5.45 k/93.75 k/ //3 M/6 M/12 Mbp	os	125 k/250	k/500 kbps		/625 k/ //10 Mbps
Power supply	Power supply voltage		21.6 to 2	6.4 VDC		_	_	21.6 to 2	26.4 VDC
for control	Internal current consumption		100 mA	or less		_	_	100 m/	A or less
Power supply for output	ut Power supply voltage			_	22.8 to 2	6.4 VDC			
Power supply for	Power supply voltage		_	_		11 to 2	5 VDC	-	_
communication	Internal current consumption					100 mA or less		-	_
Communication connector specification					M12				
Terminating resistor switch		Built-in No			ne		Built-in		
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)
	Number of outputs		SPR2: 32 points SPR4: 16 points	SPR5: 32 points SPR7: 16 points	SPR6: 32 points SPR8: 16 points	SDN1: 32 points SDN3: 16 points	SDN2: 32 points SDN4: 16 points	SMJ1: 32 points SMJ3: 16 points	SMJ2: 32 points SMJ4: 16 points
Output	Load	Solenoid valve with protective circuit for surge voltage of 24 VDC/1.5 W or less (SMC)							
-	Supplied voltage				24 \				
-				SPR5: Max. 2.0 A SPR7: Max. 1.0 A					
	Enclosure	IPe	67	IP			IP	67	
Environmental	Operating temperature range				14 to 122°F ((–10 to 50°C)			
resistance	Operating humidity range				35 to 85%RH (N	lo condensation)			
colotance	Withstand voltage			500 VAC	for 1 minute betw	een terminals an	d housing		
	Insulation resistance		10 MΩ or	more (500 VDC r	measured via me	gohmmeter) betw	een terminals an	nd housing	
Standards	dards CE marking, UL (CSA) compatible								
Weight 0.44				0.44 lbs	s (200 g)				
	Mounting screw				2 p	CS.			
	Seal cap (for M12 connector socket)	EX9-AW1	S (1 pc.)	_		EX9-AW		/TS (1 pc.)	

	Model	EX260-SEC1/3	EX260-SEC2/4	EX260-SPN1/3	EX260-SPN2/4		EX260-SEN2/4	
	Protocol		T Note 2)		ET Note 2)		P [™] Note 2)	
Applicable	Version Note 1)		Conformance PROFINET Specification Volume 1(E					
system		Test Record V.1.1		Version 2.2		Volume 2(Edition 1.9)		
	Configuration file Note 3)	XML	-		D file		S file	
I/O occupat (Inputs/Out		SEC1: 0/32 SEC3: 0/16	SEC2: 0/32 SEC4: 0/16	SPN1: 0/32 SPN3: 0/16	SPN2: 0/32 SPN4: 0/16	SEN1: 16/32 SEN3: 16/16	SEN2: 16/32 SEN4: 16/16	
Communication speed			100 Mb	OS Note 2)	•	10 M/100 I	Mbps Note 2)	
Power supply	Power supply voltage			21.6 to 2	6.4 VDC	•		
for control	Internal current consumption			100 mA	or less			
Power supply for output	Power supply voltage			22.8 to 2	6.4 VDC			
Power supply for				_	_			
communication	Internal current consumption			-	_			
Communication	n connector specification			М	12			
Terminating	resistor switch			No	one			
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	
	Number of outputs	SEC1: 32 points SEC3: 16 points	SEC2: 32 points SEC4: 16 points	SPN1: 32 points SPN3: 16 points	SPN2: 32 points SPN4: 16 points	SEN1: 32 points SEN3: 16 points	SEN2: 32 points SEN4: 16 points	
Output	Load		tective circuit for surge 1.5 W or less (SMC)		tective circuit for surge 1.0 W or less (SMC)		tective circuit for surge 1.5 W or less (SMC)	
	Supplied voltage			24 \	/DC	•		
	Supplied voltage		SEC2: Max. 2.0 A SEC4: Max. 1.0 A	SPN1: Max. 2.0 A SPN3: Max. 1.0 A	SPN2: Max. 2.0 A SPN4: Max. 1.0 A	SEN1: Max. 2.0 A SEN3: Max. 1.0 A	SEN2: Max. 2.0 A SEN4: Max. 1.0 A	
	Enclosure			IP	67	•	•	
L	Operating temperature range			14 to 12°F (·	–10 to 50°C)			Note 1) Please note that the version is subject to
Environmental resistance	Operating humidity range			35 to 85%RH (N	lo condensation)			change.
resistance	Withstand voltage		500 VAC	for 1 minute betw	een terminals an	d housing		Note 2) Use a CAT5 or higher
	Insulation resistance	10 M Ω or more (500 VDC measured via megohmmeter) between terminals and housing						transmission cable for
Standards CE marking, UL (CSA) compatible					EtherCAT, PROFINET,			
Weight		0.44 lbs (200 g)				EtherNet/IP™. Note 3) Each file can be		
	Mounting screw			2 p	ICS.			downloaded from the SMC
	Seal cap (for M12 connector socket)			EX9-AW	TS (1 pc.)			website, http://www.smcworld.com

SMC

VQC

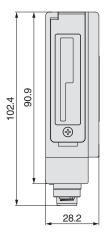
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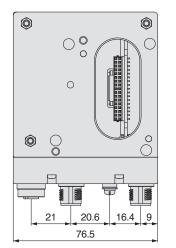
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Series EX260

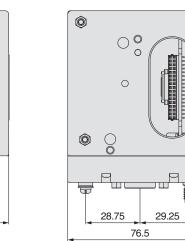
SI Unit Dimensions

M12 communication connector type



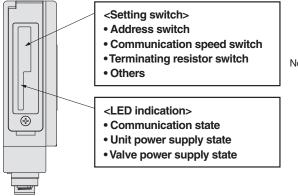


D-sub communication connector type



Functions of SI Unit Parts

<LED indication and setting switch>



Note) The setting switch varies depending on the model. Refer to the operation manual for details. Please download it via the SMC website, http://www.smcworld.com

102.4 90.9

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28.2

<Connector> M12 communication connector type

	Part no.	EX260-SPR1/-SPR2 -SPR3/-SPR4	EX260-SDN□	EX260-SMJ□	EX260-SEC□ EX260-SPN□ EX260-SEN□
	Communication protocol	PROFIBUS DP	DeviceNet™	CC-Link	EtherCAT PROFINET EtherNet/IP™
	Communication connector (M12) BUS OUT	5 pins, socket, B code	5 pins, socket, A code	5 pins, socket, A code	4 pins, socket, D code
	Communication connector (M12) BUS IN	5 pins, plug, B code	5 pins, plug, A code	4 pins, plug, A code	4 pins, socket, D code
	Ground terminal		N	13	
-	Power connector (M12)	5 pins, plug, A code	4 pins, plug, A code	5 pins, plug, B code	5 pins ^{Note1)} , 4 pins ^{Note2)} , plug, A code

Note 1) For EtherCAT, PROFINET Note 2) For EtherNet/IP™

D-sub communication connector type

Part no.	EX260-SPR5/-SPR6/-SPR7/-SPR8
Communication protocol	PROFIBUS DP
Ground terminal	M3
Communication connector (D-sub) BUS IN/OUT	9 pins, socket
Power connector (M12)	5 pins, plug, A code

(mm)

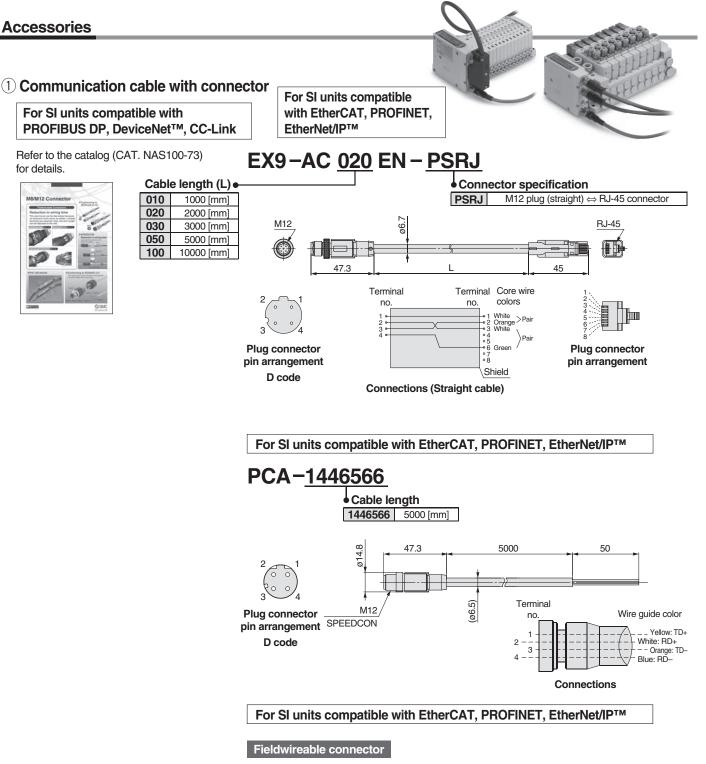
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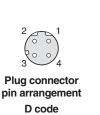
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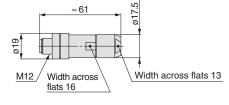
Integrated-type/For Output Series EX260



PCA-1446553

SMC





S0700

EX260

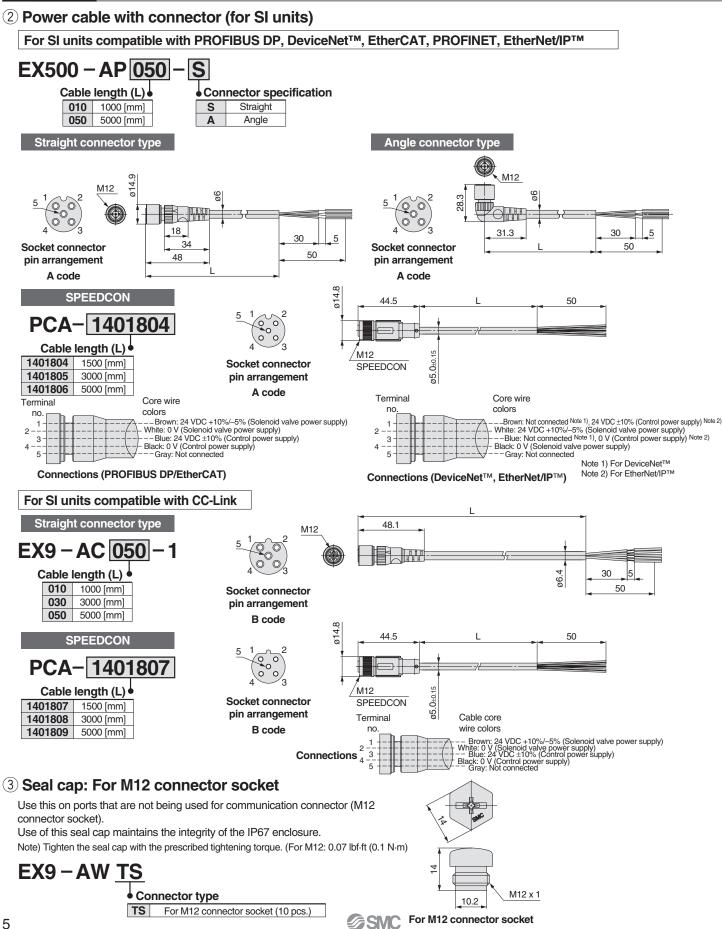
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VQC

Series EX260

Accessories



Manifold Solenoid Valves for *Series EX260* Integrated-type (For Output) Serial Transmission System

Series SY3000/5000





Series SV1000/2000/3000 Page 24



Series VQC1000/2000/4000 Page 29

CILICIE D



Series **S0700**

Page 38

EX260

SΥ

SV

VQC

Page 7

SMC



Plug-in Connector Connecting Base: For EX260 Integrated-type (For Output) Serial Transmission System Series SY3000/5000 (€ Rolls)

How to Order Manifold



Sei	ries
3	SY3000
5	SY5000
2 ту	De
10	Side ported

11 Bottom ported* The SY5000 manifold base is used for the bottom

ported of the SY3000. When ordering, refer to Plug-in Mixed Type Manifold (from page 17).

3 SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector			
0	Without SI unit					
QA	DeviceNet™	32	M12			
QB	Devicemet	16	IVI 12			
NA		32	M12			
NB	PROFIBUS	16	IVI 12			
NC	DP	32	Dl-Nloto)			
ND		16	D-sub ^{Note)}			
VA	CC-Link	32	M12			
VB	CC-LINK	16	IVI 12			
DA	EtherCAT	32	M12			
DB	ElleiCAT	16	IVI 12			
FA	PROFINET	32	M12			
FB	THOFINET	16	IVI I Z			
EA	EtherNet/IP™	32	M12			
EB		16	IVI 12			

Note) IP40 for the D-sub applicable communication

connector specification. For SI unit part number, refer to page 1.

DIN rail and SI unit output polarity "N" cannot be

selected for the product without SI unit.

SI unit output polarity

Nil Ν

Negative common Note 2) Without SI unit, the symbol is nil.

8 A, B port size (Metric)

Cumbol		-	A B port	Type Side p	e 10/ oorted	Type 11/ Bottom ported	
Symbol			A, B port	SY3000	SY5000	SY5000	
C2		ø2	One-touch fitting	•	—	—	
C3		øЗ	.2 One-touch fitting	•	—	—	
C4	ight	ø4	One-touch fitting	•	—	•	
C6	Straight	ø6	One-touch fitting	•	•	•	
C8		ø8	One-touch fitting	—	•	•	alses
CM*	1	Sti	aight port, mixed sizes	•	•	•	
L4		p	ø4 One-touch fitting	•	•	—	
L6		Upward	ø6 One-touch fitting	•	•	—	
L8	2	Ľ	ø8 One-touch fitting	_	•	—	el 935-5
B 4	Elbow	ard	ø4 One-touch fitting	•	•	—	
B6	ш	Ø4 One-touch fitting Ø6 One-touch fitting		•	•	—	
B 8		â	ø8 One-touch fitting	—	•	/	delan
LM*	Elbow port, mixed sizes (Including upward and downward piping)			•	•	_	
P, E	P, E port size (One-touch fittings)			ø8	ø10	ø10	1

Note) To avoid interference with the body or piping, select downward elbow port when mounting the optional spacer assembly (Refer to the SY3000/ 5000

5) Valve stations

In the	case	of t	he	32-output	t SI unit

Symbol	Stations	Note						
02	2 stations							
:	:	Double wiring Note 1)						
16	16 stations							
02	2 stations	One a life at Lawrent Note 2)						
÷	:	Specified layout Note 2) (Available up to 32 solenoids)						
24	24 stations	(Available up to 32 soleriolds)						

In the case of the 16-output SI unit

Symbol	Stations	Note						
02	2 stations							
:	÷	Double wiring Note 1)						
08	8 stations	-						
02	2 stations							
:	:	Specified layout ^{Note 2)}						
16	16 stations	(Available up to 16 solenoids)						

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

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

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

Note 3) Includes the number of blanking plate assemblies. Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that

will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

Positive common Note 1) Ensure a match with the common specifications of the valve to be used.

л, о	μu	11 3120					
Cumbol			A B part	Typ Side	e 10/ ported	Type 11/ Bottom ported	
Symbol			A, B port	SY3000	SY5000	SY5000	
N1		ø1/8" (One-touch fitting	—			
N3	ht	ø5/32"	One-touch fitting	•		•	
N7	Straight	ø1/4" (One-touch fitting	•		•	
N9	St	ø5/16"	One-touch fitting	—	•	•	albest
\mathbf{CM}^*		Straigh	nt port, mixed sizes	•	•	•	
LN3		ard	ø5/32" One-touch fitting	•	—	—	
LN7		Jpward	ø1/4" One-touch fitting	•		—	
LN9	>	ЧD	ø5/16" One-touch fitting	—	•	—	el martin
BN3	Elbow	ard	ø5/32" One-touch fitting	•	—	—	
BN7	ш	Downward	ø1/4" One-touch fitting	•		—	
BN9		â	ø5/16" One-touch fitting —			— /	A delan
LM*			port, mixed sizes g upward and downward piping)	•	•		
P, E p	oort	size (C	One-touch fittings)	ø5/16"	ø3/8"	ø3/8"	
* India	cate	the size	es on the manifold specifica	ation shee	t in the ca	se of "CN	", "LM".

g "LM",

series catalog (CAT. NAS11-103)). 7



B P F port entry

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

SUP/EXH block assembly

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

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

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

Mounting and Option

<u> </u>	<u> </u>						
Symbol	Mounting	Option					
Nil	Dive	None					
AA	Direct mounting	Name plate (With station number)					
BA	mounting	Name plate (Without station number)					
D	DINI	Without name plate					
A	DIN rail mounting	Name plate (With station number)					
B	mounting	Name plate (Without station number)					

Note 1) Enter the number of stations inside . (Refer to "DIN Rail Option" below.)

Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN Rail Option

-											
Nil	Direct mounting										
0	Without DIN rail (with bracket)										
3	For 3 stations										
:	:	Specify a longer rail than the total									
24	For 24 stations	length of specified stations.									

* When it is necessary to mount a DIN rail without an SI unit, select D0 and order DIN rail length separately, referring to L3 in the dimensions. Refer to the SY3000/5000 series catalog (CAT. NAS11-103) for part numbers of DIN rail.

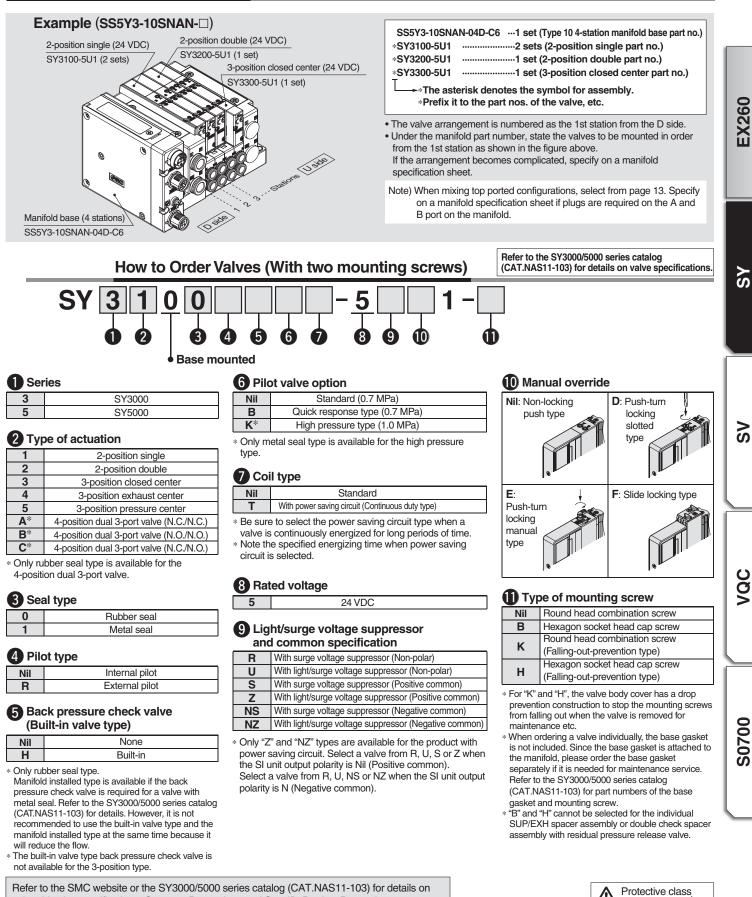
A. B port size (Inch)

P, E port size (One-touch fittings)	Ø5/16"	ø3/8"	Ø3/8	
* Indicate the sizes on the manifold specifica	ation shee	t in the ca	se of "CM	ľ
* The direction of P, E port fittings is the same	ne as for A	, B port. I	f selecting	J

indicate it on the manifold specification sheet for the P, E port fitting direction.

Plug-in Connector Connecting Base Series SY3000/5000

How to Order Manifold Assembly



solenoid valve specifications, Common Precautions and Specific Product Precautions.

class II(Mark: (1))

EX260

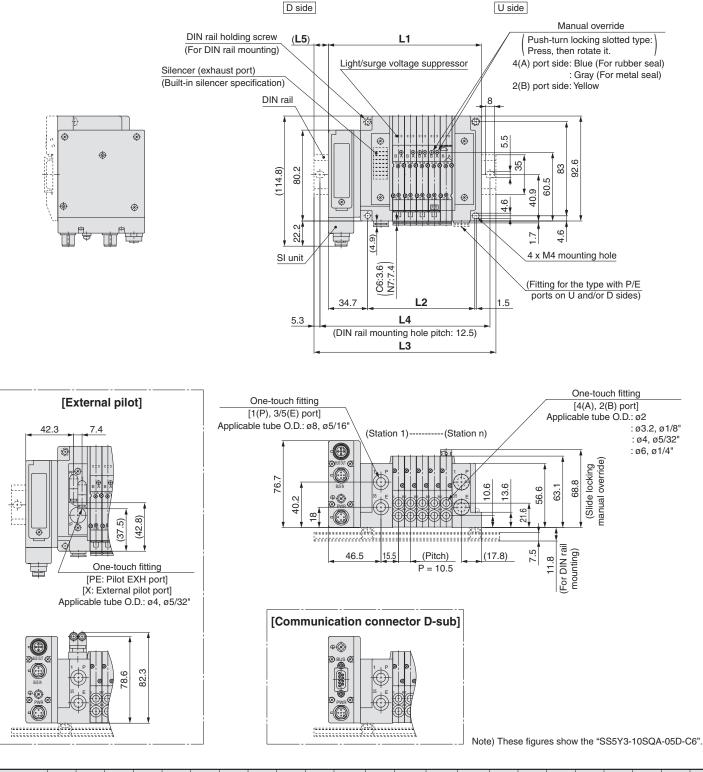
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VQC

Series SY3000/5000

Dimensions: Type 10/For EX260/Series SY3000

C2 C3, N1 C4, N3 C6, N7 SS5Y3-10SD-Stations^U_B(S, R)

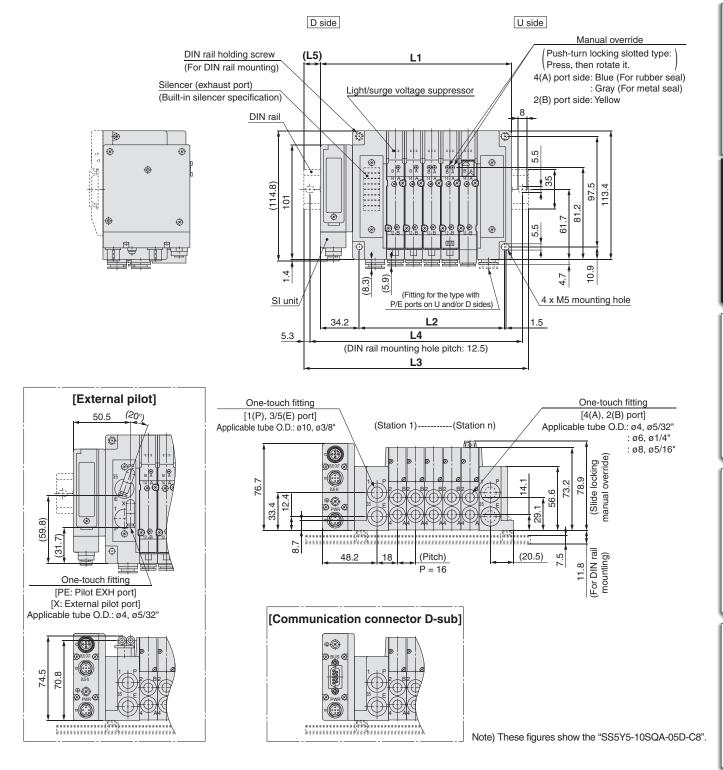


n: stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	103.7	114.2	124.7	135.2	145.7	156.2	166.7	177.2	187.7	198.2	208.7	219.2	229.7	240.2	250.7	261.2	271.7	282.2	292.7	303.2	313.7	324.2	334.7
L2	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252	262.5	273	283.5	294
L3	135.5	148	148	160.5	173	185.5	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348	360.5
L4	125	137.5	137.5	150	162.5	175	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5	350
L5	16	17	11.5	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13
9											G	SMC)										

Plug-in Connector Connecting Base Series SY3000/5000

Dimensions: Type 10/For EX260/Series SY5000

SS5Y5-10S - <u>Stations</u> (S, R) - C4, N3 B (S, R) - C6, N7 B (C) (D)

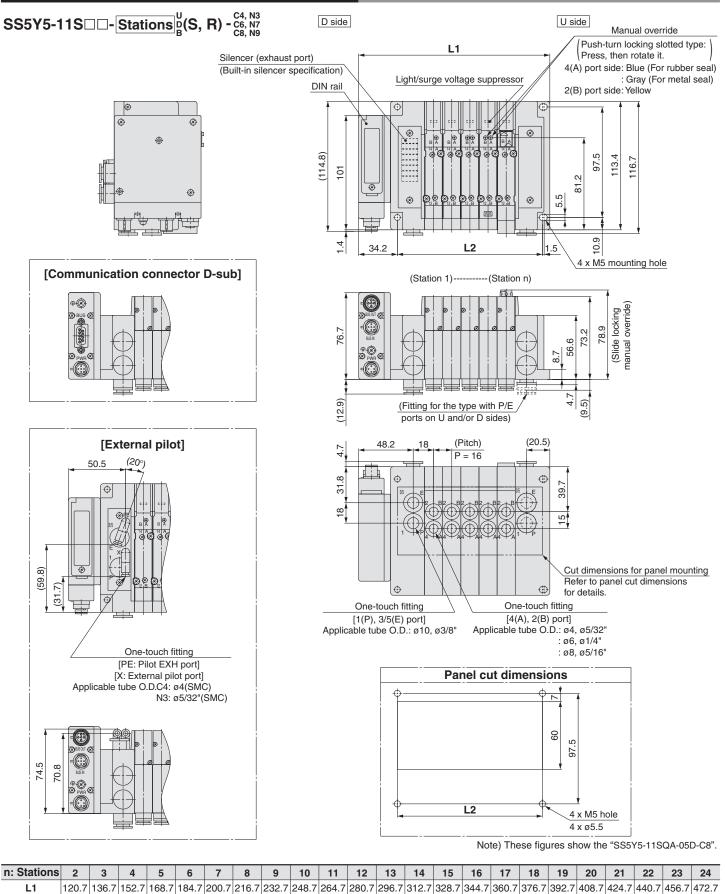


n: Station	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	120.7	136.7	152.7	168.7	184.7	200.7	216.7	232.7	248.7	264.7	280.7	296.7	312.7	328.7	344.7	360.7	376.7	392.7	408.7	424.7	440.7	456.7	472.7
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432
L3	148	160.5	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498
L4	137.5	150	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375	400	412.5	425	437.5	462.5	475	487.5
L5	13.5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	15	13.5	11.5	16	14.5	12.5
	SNC 10																						

(mm)

Series SY3000/5000

Dimensions: Type 11/For EX260/Series SY5000



(mm)

L2

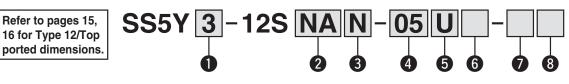


Plug-in Connector Connecting Base: For EX260 Integrated-type (For Output) Serial Transmission System

Series **SY3000/5000**



How to Order Manifold



Series

-		
	3	SY3000
	5	SY5000

2 SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector				
0	V	nit					
QA	DeviceNet™	32	M12				
QB	Devicemet	16	IVITZ				
NA		32	M12				
NB	PROFIBUS	16	IVITZ				
NC	DP	32	D auto Note)				
ND		16	D-sub ^{Note)}				
VA	CC-Link	32	M12				
VB	CC-LINK	16	IVITZ				
DA	EtherCAT	32	M12				
DB	Elliercat	16	IVITZ				
FA	PROFINET	32	M12				
FB	THOPINET	16	10112				
EA	EtherNet/IP™	32	M12				
EB		16	1112				

Note) IP40 for the D-sub applicable communication connector specification.

For SI unit part number, refer to page 1. DIN rail and SI unit output polarity "N" cannot be selected for the product without SI unit.

3 SI unit output polarity

Nil	Positive common
N	Negative common

Note 1) Ensure a match with the common specifications of the valve to be used. Note 2) Without SI unit, the symbol is nil.

4 Valve stations

••••												
In the	In the case of the 32-output SI unit											
Symbol	Stations	Note										
02	2 stations											
		Double wiring Note 1)										
16	16 stations											
02	2 stations	One a stift and low south Note 2)										
:	:	Specified layout Note 2)										
24	24 stations	(Available up to 32 solenoids										

In the case of the 16-output SI unit

Symbol	Stations	Note					
02	2 stations						
:	:	Double wiring Note 1)					
08	8 stations	-					
02	2 stations	O III I Noto 2)					
:		Specified layout Note 2)					
16	16 stations	(Available up to 16 solenoids)					

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

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

(Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

- Note 3) Includes the number of blanking plate assemblies.
- Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

5 P, E port entry

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

Note) **()** For type "S", supply/exhaust block assembly with built-in silencer, choose U or D for P port entry.

6 SUP/EXH block assembly

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

- For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

P, E port size (One-touch fittings)

Symbol	SY3000	SY5000
Nil	ø8	ø10
N	ø5/16"	ø3/8"

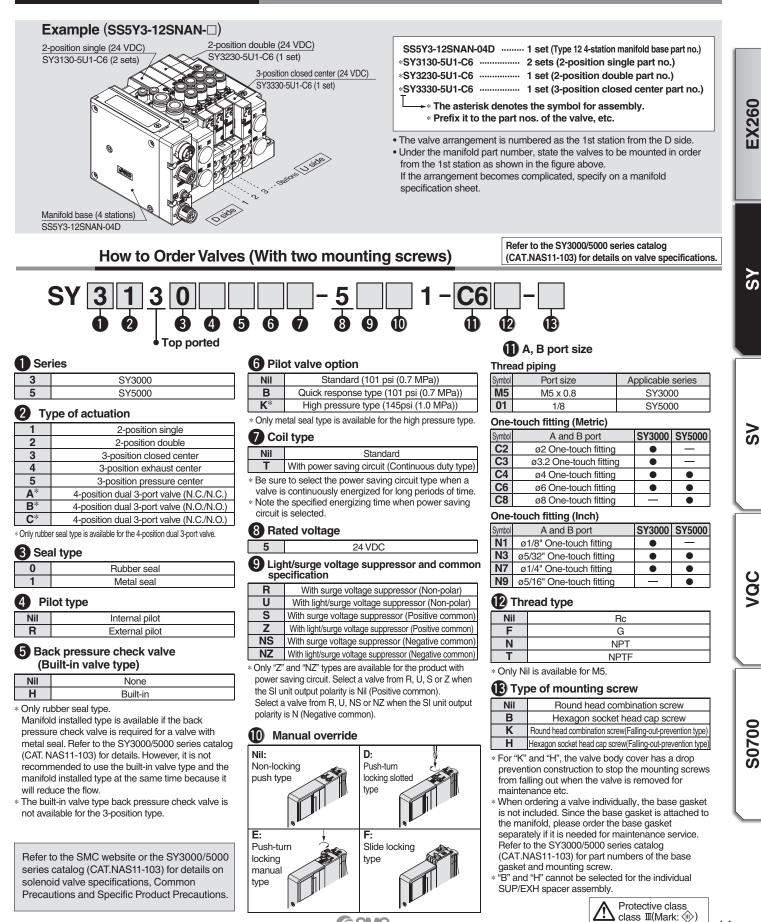
* For N, sizes are in inches.

8 Mounting

Nil	Direct mounting								
D	DIN rail mounting (With DIN rail)								
D0	DIN rail mounting (Without DIN rail)								
D3	For 3 stations	Specify a longer rail than							
:	÷	the standard length.							
D24	For 24 stations	- ine standard iengin.							

* When it is necessary to mount a DIN rail without an SI unit, select D0 and order DIN rail length separately, referring to L3 in the dimensions. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of DIN rail.

How to Order Manifold Assembly



SMC

Series SY3000/5000

Dimensions: Type 12/For EX260/Series SY3000

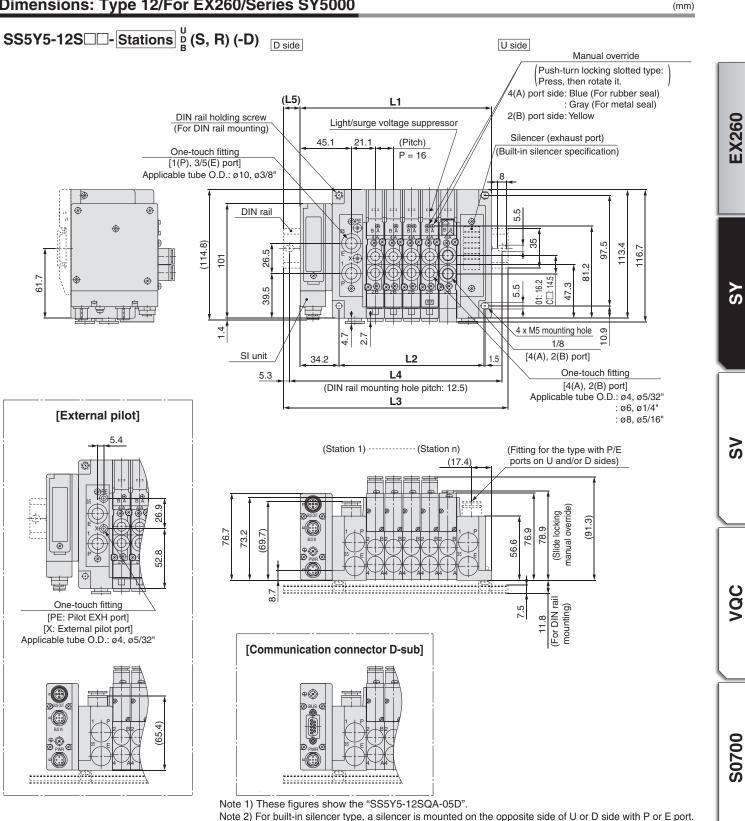
SS5Y3-12S \Box - Stations B_{B}^{U} (S, R) (-D) Manual override D side U side /Push-turn locking slotted type: Press, then rotate it. (L5) 4(A) port side: Blue (For rubber seal) L1 DIN rail holding screw : Gray (For metal seal) (For DIN rail mounting) 2(B) port side: Yellow Light/surge voltage suppressor 46 (Pitch) One-touch fitting 16 Silencer (exhaust port) [1(P), 3/5(E) port] P = 10.5 (Built-in silencer specification) Applicable tube O.D.: ø8, ø5/16" 8 đĐ, Ø \otimes DIN rail Ø 5.5 92.6 35 83 (114.8) 80.2 5 ::ŧ 60.5 40.9 31.8 30.2 ۲ 4.6 \otimes 22.2 4.6 4 x M4 mounting hole 1.7 34. L2 SI unit M5 x 0.8 [4(A), 2(B) port] 5.3 L4 (DIN rail mounting hole pitch: 12.5) One-touch fitting L3 [4(A), 2(B) port] Applicable tube O.D.: ø2 : ø3.2, ø1/8" : ø4, ø5/32" :ø6,ø1/4" [External pilot] (Station 1) ----- (Station n) One-touch fitting (Fitting for the type with P/E [PE: Pilot EXH port] (15.3)ports on U and/or D sides) [X: External pilot port] Applicable tube O.D.: ø4, ø5/32" (Slide locking manual override) 7.4 77.3 81.1 (73.8) 76.7 68.8 63.1 56.6 .: 20 N7 : N 3.6 (FL) (FL) (For DIN rail mounting) 58.5 7.5 11.8 [Communication connector D-sub] Ś (73.2)

Note 1) These figures show the "SS5Y3-12SQA-05D". Note 2) For built-in silencer type, a silencer is mounted on the opposite side of U or D side with P or E port.

n:Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	103.7	114.2	124.7	135.2	145.7	156.2	166.7	177.2	187.7	198.2	208.7	219.2	229.7	240.2	250.7	261.2	271.7	282.2	292.7	303.2	313.7	324.2	334.7
L2	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252	262.5	273	283.5	294
L3	135.5	148	148	160.5	173	185.5	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348	360.5
L4	125	137.5	137.5	150	162.5	175	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5	350
L5	16	17	11.5	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13
15										(6S	MC											

(mm)

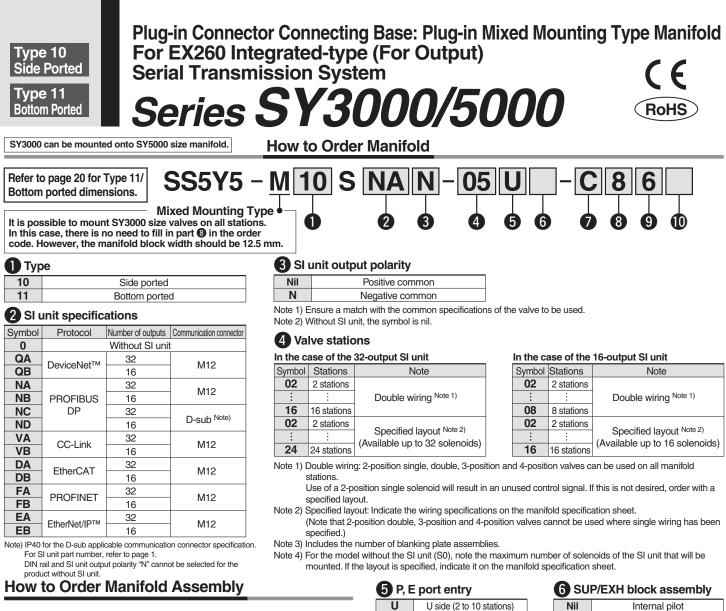
Plug-in Connector Connecting Base Series SY3000/5000

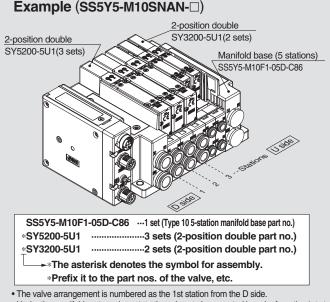


Dimensions: Type 12/For EX260/Series SY5000

n:Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	120.7	136.7	152.7	168.7	184.7	200.7	216.7	232.7	248.7	264.7	280.7	296.7	312.7	328.7	344.7	360.7	376.7	392.7	408.7	424.7	440.7	456.7	472.7
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432
L3	148	160.5	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498
L4	137.5	150	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375	400	412.5	425	437.5	462.5	475	487.5
L5	13.5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	15	13.5	11.5	16	14.5	12.5

SMC





• Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure above.

If the arrangement becomes complicated, then indicate on the manifold specification sheet.

Note) When mounting top ported valves, select from page 21. In this case, use caution as there is also output on the A and B port on base side. Specify on a manifold specification sheet if plugs are required on the A and B port on base side.

O 1, E	. port ona y
U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

	, <u> </u>
Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

- 3/5(E) port is plugged for the built-in silencer type.
 When the built-in silencer type is used.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

Refer to the page on the right for 7,8,9

Mounting and Option

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

Note 1) Enter the number of stations inside \Box .

(Refer to "DIN Rail Option" below.) Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN Rail Option

Nil	Standard length			
0	Without DIN rail (with bracket)			
3	For 3 stations Specify a longer rail than the total length of specified			
÷	:	stations. [The SY5000 valve is now at a mountable length (manifold block length of 16 mm).]		
24	For 24 stations			

* When it is necessary to mount a DIN rail without an SI unit, select D0 and calculate DIN rail length, referring to L3 in the dimensions on page 19.



Plug-in Connector Connecting Base Series SY3000/5000

Fitting type

will reduce the flow.

* The built-in valve type back pressure check valve is

not available for the 3-position type.

_		
Symbol	A, B port	
С	Metric size: Straight one-touch fitting	
L	Metric size: Elbow one-touch fitting for upward Note)	
В	Metric size: Elbow one-touch fitting for downward Note)	
Ν	N Inch size: Straight one-touch fitting	
LN	Inch size: Elbow one-touch fitting for upward Note)	
BN	Inch size: Elbow one-touch fitting for downward Note)	
CM*	Straight port, mixed sizes	
LM*	Elbow port, mixed sizes (Including upward and downward piping) Note)	

Note) To avoid interference with the body or piping, select downward elbow port when mounting the optional spacer assembly.

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

- If selecting "LM", indicate it on the manifold specification sheet for the P, E port fitting direction.
- * Elbow fittings: ø2, ø3.2 and ø1.8" are not available for the SY3000 series. ø2, ø3.2, ø1.8" and ø5/32" are not available for the SY5000 series.

8 SY5000: A, B port size

(Matria)

(metric)		(incri)	
Symbol	Port size	Symbol	Port size
4	ø4 One-touch fitting	3	ø5/32" One-touch fitting
6	ø6 One-touch fitting	7	ø1/4" One-touch fitting
8	ø8 One-touch fitting	9	ø5/16" One-touch fitting
Nil	For all stations of SY3000	Nil	For all stations of SY3000
Nil	For all stations of SY3000	Nil	For all stations of SY3000

(Inch)

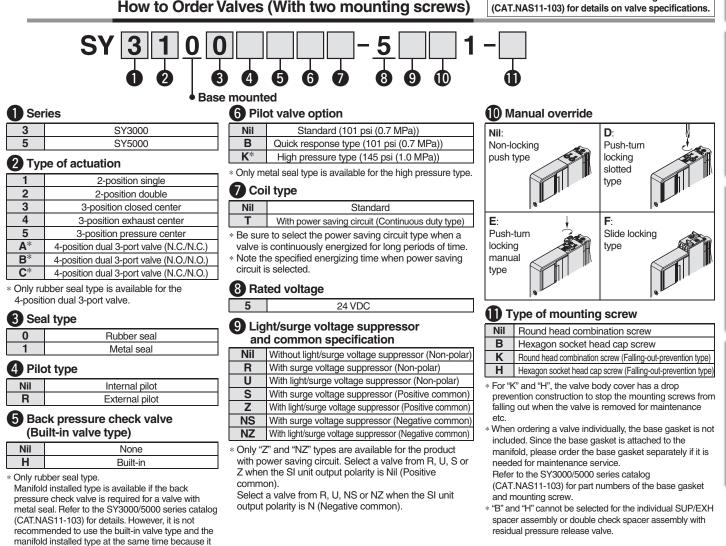
* No symbol needs to be specified when fitting type "CM", "LM" is selected.

9 SY3000: A, B port size

(Metric)		(Inch)	
Symbol	Port size	Symbol	Port size
2	ø2 One-touch fitting	1	ø1/8" One-touch fitting
3	ø3.2 One-touch fitting	3	ø5/32" One-touch fitting
4	ø4 One-touch fitting	7	ø1/4" One-touch fitting
6	ø6 One-touch fitting		

* No symbol needs to be specified when fitting type "CM", "LM" is selected.

Refer to the SY3000/5000 series catalog



Refer to the SMC website or the SY3000/5000 series catalog (CAT.NAS11-103) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.





2

EX260

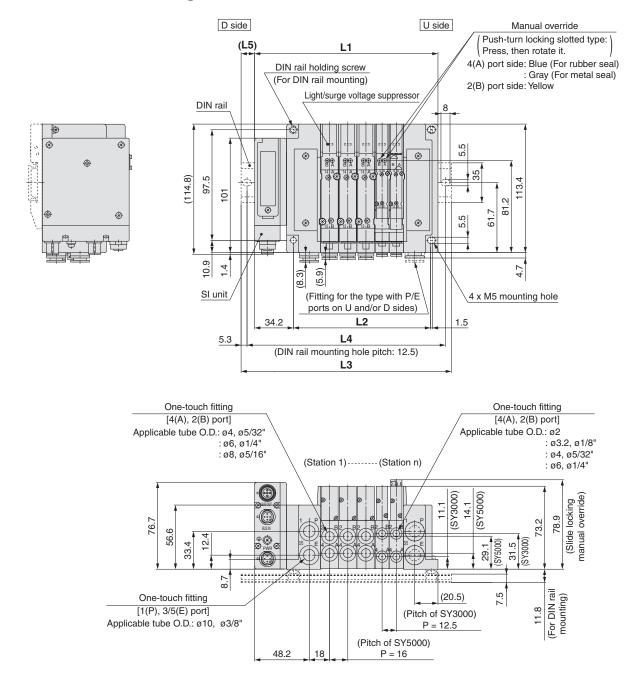
S S

S0700

Series SY3000/5000

Dimensions: Type 10/For EX260/Mixed Mounting Type

SS5Y5-M10S - Stations ^U_B(-D)



Note 1) These figures show the "SS5Y5-M10SQA-05D-C86". Note 2) Refer to page 10 for dimensions of D-sub communication connector, external pilot and built-in silencer.

- **L1** = 12.5 x n1 + 16 x n2 + 88.7
- **L2** = 12.5 x n1 + 16 x n2 + 48
- M = L1/12.5 + 1 Remove all numbers after the decimal
- **L3** = 12.5 x M + 23
- **L4** = L3 10.5
- **L5** = (L3 L1)/2

SMC

- n1: SY3000 Valve stations
- n2: SY5000 Valve stations

Plug-in Connector Connecting Base Series SY3000/5000

Dimensions: Type 11/For EX260/Mixed Mounting Type

SS5Y5-M11SDD-Stations Manual override D side U side Push-turn locking slotted type: Press, then rotate it. L1 4(A) port side: Blue (For rubber seal) : Gray (For metal seal) Light/surge voltage suppressor 2(B) port side: Yellow 4 x M5 mounting hole SI unit ۲ \otimes \otimes Ø Ø (114.8) 97.5 113.4 101 2 \otimes 8 Ø 5.5 Ø ٨ 4 10.9 L2 4.7 34.2 1.5 (Station 1)-----(Station n) • (Slide locking manual override) 78.9 76.7 73.2 56.6 4.7 (12.9) (SY3000) (Fitting for the type with P/E (9.5) (SY5000) (7.3) ports on U and/or D sides) (Pitch of SY5000) 48.2 18 P = 16 (Pitch of SY3000) P = 12.5(20.5) 4.7 Panel cut dimensions (SY5000) 31.8 ٢ Φ 39.7 (SY3000 49.6 8 60 ŝ 97 (SY5000) (SY3000) 15 Ę L2 4 x M5 hole Cut dimensions for panel mounting One-touch fitting 4 x ø5.5 [1(P), 3/5(E) port] Refer to panel cut dimensions for Applicable tube O.D.: ø10, ø3/8" details One-touch fitting One-touch fitting [4(A), 2(B) port] [4(A), 2(B) port] Applicable tube O.D.: ø2 Applicable tube O.D.: ø4, ø5/32" : ø6, ø1/4" : ø3.2, ø1/8" : ø8, ø5/16" :ø4,ø5/32" :ø6,ø1/4" Note 1) These figures show the "SS5Y5-M11SQA-05D-C86". Note 2) Refer to page 11 for dimensions of D-sub communication connector, external pilot and built-in silencer. EX260 Serial transmission Calculation of dimensions L1 = 12.5 x n1 + 16 x n2 + 88.7 **L2** = 12.5 x n1 + 16 x n2 + 48 n1: SY3000 Valve stations n2: SY5000 Valve stations

(mm)

EX260

SΥ

S<

VQC

S0700



SY3000 can be mounted onto SY5000 size manifold.

How to Order Manifold

Refer to page 23 for Type 12/ Top ported dimensions.

Type 12 Top Ported



Mixed Mounting Type

It is possible to mount SY3000 size valves on all stations. However, the manifold block width should be 12.5 mm.

SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector	
0	Without SI unit			
QA	DeviceNet™	32	M12	
QB	Devicemet	16	IVITZ	
NA		32	M12	
NB	PROFIBUS	16	IVITZ	
NC	DP	32	D-sub Note)	
ND		16	D-SUD Note)	
VA	CC-Link	32	M12	
VB	CC-LINK	16	IVITZ	
DA	EtherCAT	32	M12	
DB	EllierCAT	16	IVITZ	
FA	PROFINET	32	M12	
FB	THOFINET	16	11112	
EA	EtherNet/IP™	32	M12	
EB	Etherniet/IF ····	16	IVITZ	

Note) IP40 for the D-sub applicable communication

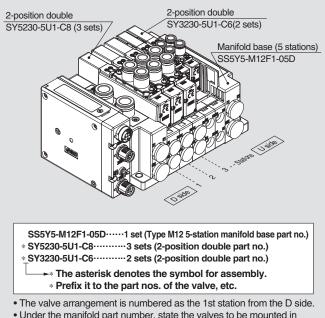
connector specification.

For SI unit part number, refer to page 1.

DIN rail and SI unit output polarity "N" cannot be selected for the product without SI unit.

How to Order Manifold Assembly

Example (SS5Y5-M12SNAN-D)



• Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure above. If the arrangement becomes complicated, specify on a manifold specification sheet.

2 SI unit output polarity

Nil	Positive common
Ν	Negative common

Note 1) Ensure a match with the common specifications of the valve to be used. Note 2) Without SI unit, the symbol is nil.

3 Valve stations

In the case of the 32-output SI unit

Stations	Note			
2 stations				
:	Double wiring Note 1)			
16 stations	_			
2 stations	Orac attack law and Note 2)			
÷	Specified layout Note 2)			
24 stations	(Available up to 32 solenoids)			
	Stations 2 stations : 16 stations 2 stations :			

In the case of the 16-output SI unit

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring Note 1)	
08	8 stations		
02	2 stations		
:	÷	Specified layout Note 2) (Available up to 16 solenoids)	
16	16 stations	(Available up to 10 soleriolus	

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

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

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

Note 3) Includes the number of blanking plate assemblies.

Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

P, E port entry

-			
U Note)	U side (2 to 10 stations)		
D Note)	D side (2 to 10 stations)		
В	Both sides (2 to 24 stations)		

Note) For type "S", supply/exhaust block assembly with built-in silencer, choose U or D for P port entry.

5 SUP/EXH block assembly

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

* For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)

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

6 P, E port size (One-touch fittings)

Nil	ø10
Ν	ø3/8"

* For N. sizes are in inches.

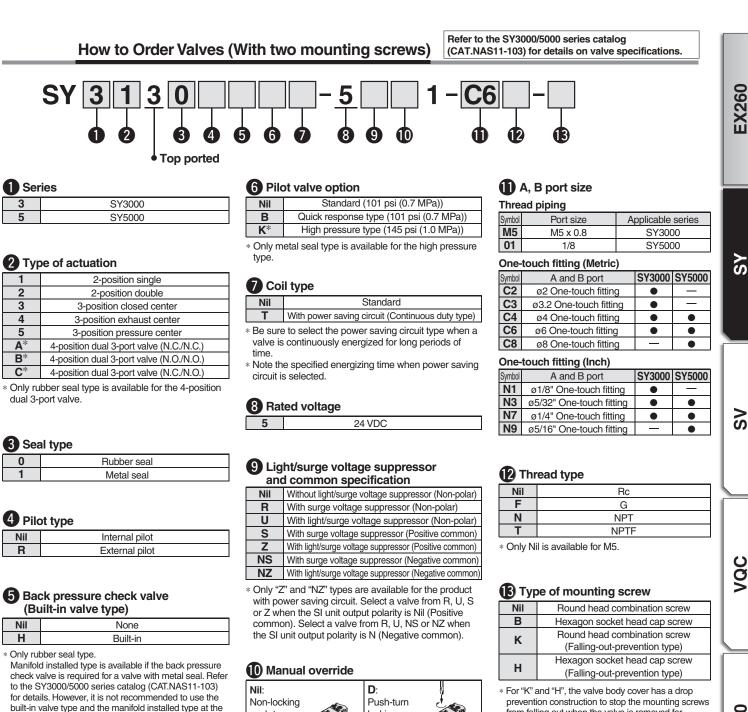
Mounting

Direct mounting		
DIN rail mounting (With DIN rail)		
DIN rail mounting (Without DIN rail)		
For 3 stations Specify a longer rail than the standard length.		
: [The SY5000 valve is now at a mountable length		
For 24 stations	(manifold block length of 16 mm).]	
	:	

* When it is necessary to mount a DIN rail without an SI unit, select D0 and order DIN rail length separately, referring to L3 in the dimensions. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of DIN rail.

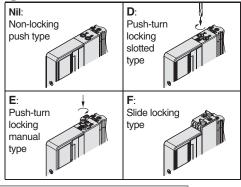


Plug-in Connector Connecting Base Series SY3000/5000



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

same time because it will reduce the flow.



SMC

Refer to the SMC website or the SY3000/5000 series catalog (CAT.NAS11-103) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

from falling out when the valve is removed for maintenance etc.

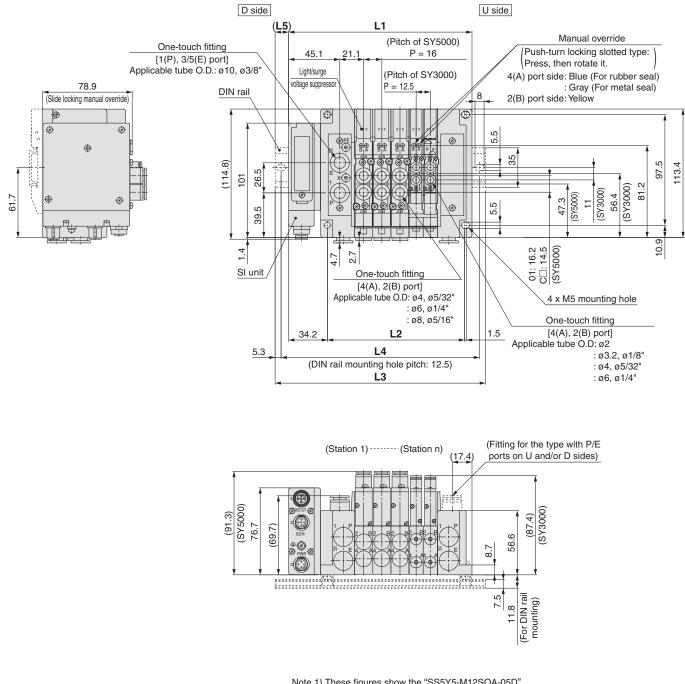
- * When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of base gasket and mounting screw.
- * "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly.

S0700

Series SY3000/5000

Dimensions: Type 12/Mixed Mounting Type

SS5Y5-M12SDD-Stations



Note 1) These figures show the "SS5Y5-M12SQA-05D". Note 2) Refer to page 16 for dimensions of D-sub communication connector, external pilot and built-in silencer.

EX260 Serial transmission Calculation of dimensions

L1 = 12.5 x n1 + 16 x n2 + 88.7

- **L2** = 12.5 x n1 + 16 x n2 + 48
- M = L1/12.5 + 1 Remove all numbers after the decimal.

L3 = 12.5 x M + 23

- **L4** = L3 10.5
- **L5** = (L3 L1)/2

SMC

n1: SY3000 Valve stations n2: SY5000 Valve stations



Tie-rod Base: For EX260 Integrated-type (For Output) Serial Transmission System

Series SV

CE CNUS RoHS



Note

Double wiring Note 1)

Specified layout Note 2) (Available up to 32 solenoids)

Note

Double wiring Note 1)

Specified layout Note 2)

(Available up to 16 solenoids)

IP67

02

16

02

20

02

08

02

16

Symbol Stations

4 Valve stations

2 stations

16 stations

2 stations

20 stations

2 stations

8 stations

2 stations

16 stations

sheet.

assemblies.

manifold stations.

Symbol Stations

*Refer to Note 1) of the 2 SI unit specifications.

In the case of the 32-output SI unit

In the case of the 16-output SI unit

Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all

order with a specified layout. Note 2) Specified layout: Indicate the wiring

wiring has been specified.)

Note 3) Includes the number of blanking plate

Use of a single solenoid will result in an unused control signal. If this is not desired,

specifications on the manifold specification

(Note that double, 3-position and 4- position

valves cannot be used where single solenoid

Series

-	
1	SV1000
2	SV2000
3	SV3000

2 SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector
0	>	/ithout SI ur	nit
QA	DeviceNet™	32	M12
QB	Devicenter	16	IVITZ
NA		32	M12
NB	PROFIBUS	16	IVITZ
NC	DP	32	D-sub Note 1)
ND		16	D-Sub Note 17
VA	CC-Link	32	M12
VB	CC-LINK	16	IVITZ
DA	EtherCAT	32	M12
DB	EllierCAT	16	IVITZ
FA	PROFINET	32	M12
FB	FNOFINET	16	1112
EA	EtherNet/IP™	32	M12
EB	Emenvel/IP ····	16	IVI I Z

• DIN rail cannot be selected for the product without SI unit.

Note 1) IP40 for the D-sub applicable

communication connector specification. (The manifold part number is "SS5VU-10S1NC/NDDD".)

Note 2) For SI unit part number, refer to page 1.

SI unit output polarity

Nil	Positive common
Ν	Negative common

Note) Without SI unit, the symbol is nil.

A, B port size (Metric)

A B port size (Inch)

V A, I	A, B port size (Metric)		А, Б ро	rt size (inch)			
Symbol	A, B port	P, E port	Applicable series	Symbol	A, B port	P, E port	Applicable series
C3	ø3.2 One-touch fitting	~0		N1	ø1/8" One-touch fitting	ø5/16"	
C4	ø4 One-touch fitting	ø8 One-touch fitting	SV1000	N3	ø5/32" One-touch fitting	05/16 One-touch fitting	SV1000
C6	ø6 One-touch fitting	One-touch hitting		N7	ø1/4" One-touch fitting	One-touch hitting	
C4	ø4 One-touch fitting	ø10		N3	ø5/32" One-touch fitting	ø3/8"	
C6	ø6 One-touch fitting	One-touch fitting	SV2000	N7	ø1/4" One-touch fitting	One-touch fitting	SV2000
C8	ø8 One-touch fitting	One-touch hitting		N9	ø5/16" One-touch fitting	One-touch hung	
C6	ø6 One-touch fitting	~10		N7	ø1/4" One-touch fitting	ø3/8"	
C8	ø8 One-touch fitting	ø12 One-touch fitting	SV3000	N9	ø5/16" One-touch fitting	03/8 One-touch fitting	SV3000
C10	ø10 One-touch fitting	Une-touch hitting		N11	ø3/8" One-touch fitting		
Μ	M A, B ports mixed		M	A, B	ports mixed		

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

* The X and PE port size of External pilot type (R, RS) are ø4 (mm) or ø5/32" (inch) for the SV1000/2000 series, and ø6 (mm) or ø1/4" (inch) for the SV3000 series.

SMC

EX260

S ∠

S S

5 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 20 stations)

6 SUP/EXH block assembly

Nil	Internal pilot
S Note)	Internal pilot, Built-in silencer
R	External pilot
RS Note)	External pilot. Built-in silencer

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

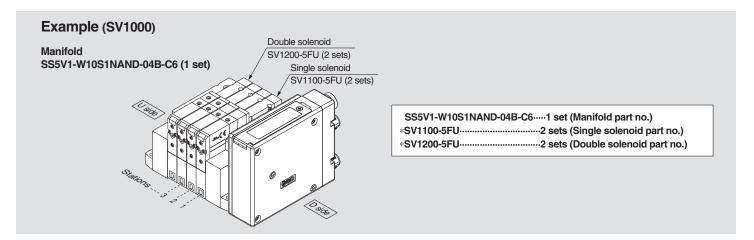
8 Mounting

Nil	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		
D3	For 3 stations	When a longer DIN rail is desired than the	
:	•••	specified stations. (Specify a longer rail	
D20	For 20 stations	than the standard length.)	

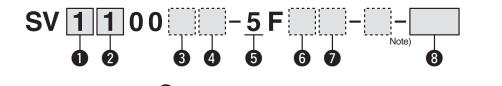


Series SV

How to Order Manifold Assembly



How to Order Valves



0	Series
	001100

-	
1	SV1000
2	SV2000
3	SV3000

2 Type of actuation

2-position single 2-position double 3-position closed center
•
3-position closed center
3-position exhaust center
3-position pressure center
4-position dual 3-port valve: N.C./N.C.
4-position dual 3-port valve: N.O./N.O.
4-position dual 3-port valve: N.C./N.O.

* 4-position dual 3-port valves are applicable to the SV1000/2000 series only.

3 Pilot type

Nil	Internal pilot
R	External pilot

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

4 Back pressure check valve

Nil	None
K	Built-in

- Built-in back pressure check valve type is applicable to the SV1000 series only.
 Back pressure check valve is not available for
- Source pressure check valve is not available
 S-position valve.
 Note:
 Note:
- Note) Refer to Specific Product Precautions 2 in Best Pneumatics No. 1.

5 Rated voltage

5

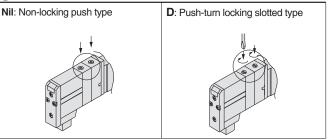
6 Light/surge voltage suppressor

U With light/surge voltage suppressor

24 VDC

R With surge voltage suppressor

Manual override



Refer to the SMC website or the SV series in Best Pneumatics No.1 for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

Note) Available with manifold block for station additions. Refer to Best Pneumatics No. 1.

8 Made to Order

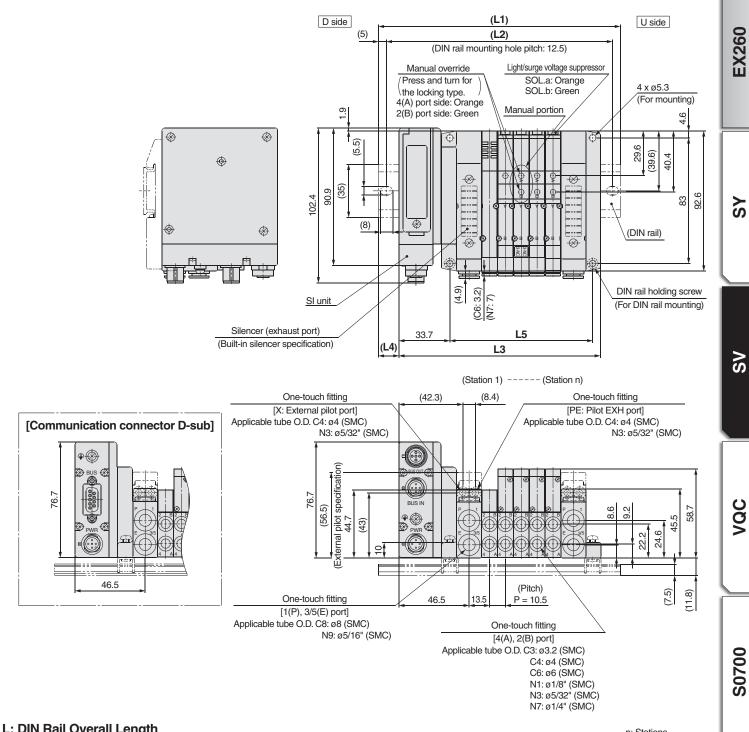
Nil	—
X90	Main valve fluororubber
X90	(Refer to page 448 in Best Pneumatics No. 1.)



Dimensions: For EX260 Integrated-type (For Output) Serial Transmission System/Series SV1000

• Tie-rod base manifold: SS5V1-W10S1 - D - Stations B (S, R, RS) - CA, N3 (-D)

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.



	n: Stations																		
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	135.5	148	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323
L2	125	137.5	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	262.5	275	287.5	300	312.5
L3	102.2	112.7	123.2	133.7	144.2	154.7	165.2	175.7	186.2	196.7	207.2	217.7	228.2	238.7	249.2	259.7	270.2	280.7	291.2
L4	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13	14	15	16
L5	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252

(mm)

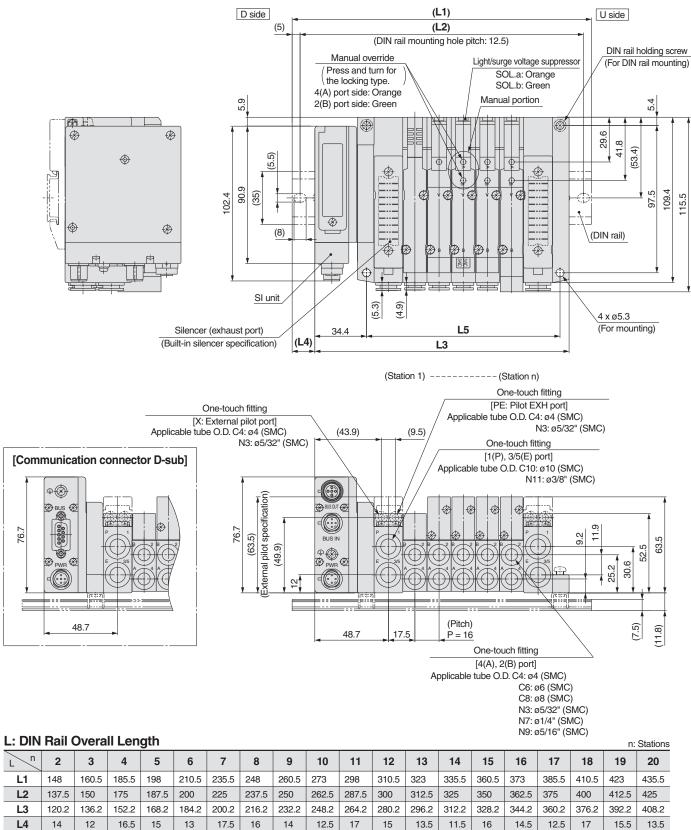
Series SV

Dimensions: For EX260 Integrated-type (For Output) Serial Transmission System/Series SV2000

• Tie-rod base manifold: SS5V2-W10S1 \square \square D- $\begin{bmatrix} U \\ B \\ B \end{bmatrix}$ (S, R, RS)- $\begin{bmatrix} C4, N3 \\ C6, N7 \\ C8, N9 \\ C8, N9 \end{bmatrix}$ (-D)

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.

(mm)



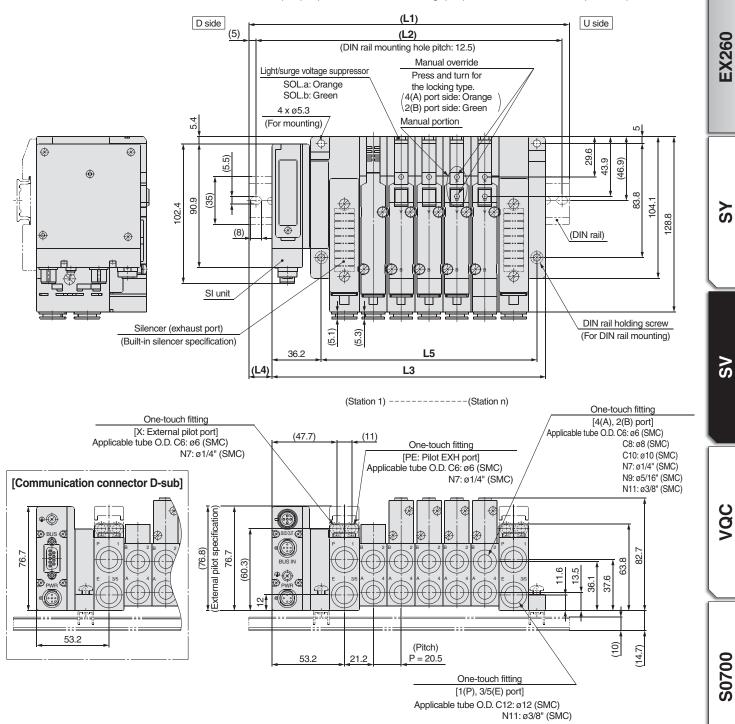
L5

SMC

Dimensions: For EX260 Integrated-type (For Output) Serial Transmission System/Series SV3000

• Tie-rod base manifold: SS5V3-W10S1 - D - Stations B(S, R, RS)- C6, N7 C8, N9 C10, N11 (-D)

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: DIN Rail Overall Length

Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	173	185.5	210.5	235.5	248	273	298	310.5	335.5	348	373	398	410.5	435.5	460.5	473	498	523	535.5
L2	162.5	175	200	225	237.5	262.5	287.5	300	325	337.5	362.5	387.5	400	425	450	462.5	487.5	512.5	525
L3	139.7	160.2	180.7	201.2	221.7	242.2	262.7	283.2	303.7	324.2	344.7	365.2	385.7	406.2	426.7	447.2	467.7	488.2	508.7
L4	16.5	12.5	15	17	13	15.5	17.5	13.5	16	12	14	16.5	12.5	14.5	17	13	15	17.5	13.5
L5	97	117.5	138	158.5	179	199.5	220	240.5	261	281.5	302	322.5	343	363.5	384	404.5	425	445.5	466

SMC

28

n: Stations

(mm)

Plug-in Unit: For EX260 Integrated-type (For Output) Serial Transmission System Series VQC1000

Base Mounted

How to Order Manifold

VV5QC 1 1-08 C6 SNA N-B..... S Kit

1		VQC1000					
2 M	lanifold m	odel					
1		Plug-in unit					
Symbol		Note					
		32-output SI unit					
,		INOLE					
02	2 stations						
:	:	Double wiring Note 1)					
. 12	12 stations						
12 02	12 stations 2 stations	O III I I I I I I I I I I I I I I I I I					
		Specified layout Note 2)					
		Specified layout Note 2) (Available up to 24 solenoids)					
02 : 24	2 stations : 24 stations	1					

in ano		To output of unit							
Symbol	Stations	Note							
02	2 stations								
:	:	Double wiring Note 1)							
08	8 stations								
02	2 stations	Que e differ et l'enservet Note 2)							
:	:	Specified layout Note 2) (Available up to 16 solenoids)							
16	16 stations	(Available up to 16 soleholds)							
NI 1. 43									

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

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

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

Note 3) Includes the number of blanking plate assemblies.

4 Cylinder port size

4 Cy	inder port size
C3	With ø3.2 One-touch fitting
C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
M5	M5 thread
CM	Mixed sizes and with port plug
L3	Top ported elbow with ø3.2 One-touch fitting
L4	Top ported elbow with ø4 One-touch fitting
L6	Top ported elbow with ø6 One-touch fitting
L5	M5 thread
B3	Bottom ported elbow with ø3.2 One-touch fitting
B4	Bottom ported elbow with ø4 One-touch fitting
B6	Bottom ported elbow with ø6 One-touch fitting
B5	M5 thread
LM	Elbow port, mixed sizes
MM Note2)	Mixed size for different types of piping, option installed

Note 1) Indicate the sizes on the manifold specification sheet in the case of "CM", "LM".

Note 2) When selecting the mixed size for different types of piping or dual flow fitting assembly, enter "MM" and give instructions in the manifold specification sheet.

Note 3) Symbols for inch sizes are as follows:

• N1: ø1/8"

• N3: ø5/32"

• N7: ø1/4"

• NM: Mixed

The top ported elbow is LN \square and the bottom ported elbow is BN $\square.$

6 SI unit output polarity

Nil	Positive common
Ν	Negative common

Option

Communication connector

M12 M12 D-sub ^{Note 1)}

> M12 M12

> M12

M12

	ion									
Nil	None									
В	With back pressure check valve (All stations) Note 2)									
	With DIN rail (Rail length: Standard)									
D	With DIN rail (Rail length: Special) Note 3)									
K	Special wiring spec. (Except double wiring) Note 4)									
	With name plate									
R	External pilot Note 5)									
S	Built-in silencer, Direct exhaust Note 6)									
Note 2) WI an sta ma Note 3) Fo	kample: -BRS hen the back pressure check valve is desired, d is to be installed only in certain manifold ations, specify the mounting position on the anifold specification sheet. or special DIN rail length, indicate "DD". nter the number of stations inside D.)									
 (Enter the number of stations inside D.) Example: -D08 In this case, stations will be mounted on a DIN for 8 stations regardless of the actual number of stations must be large than the number of stations on the manifold. Indicate "-D0" for the option without DIN rail. Note 4) Specification sheet. Note 5) For external pilot option, "-R", indicate the external pilot specification "for the applicable valves 										

- well. Note 6) Built-in silencer type does not satisfy IP67.
- Note 7) When the "SD0" (Without SI unit) is specified, "-D", "-D" cannot be selected.

5 Kit type

C Kit	Symbol	Protocol	Number of outputs	Сс
	SD0	V	Vithout SI un	nit
(Serial transmission kit (for Output))	SQA	DaviasNistM	32	
SI unit	SQB	DeviceNet™	16	
	SNA		32	
	SNB		16	
	SNC	PROFIBUS DP	32	
	SND		16	
	SVA	00154	32	
	SVB	CC-Link	16	
	SDA	EtherCAT	32	
	SDB	EllerCAI	16	
	SFA	PROFINET	32	
IP40 specification	SFB	PROFINET	16	
	SEA	EtherNet/IP™	32	
SI unit: EX260 IP67 specification	SEB	Eulenvel/IP***	16	

Note 1) D-sub S kit: IP40 specification (IP67 specification for all other S kits) Note 2) For SI unit part number, refer to page 1.



Plug-in Unit: For EX260 Integrated-type (For Output) Serial Transmission System Series VQC1000

EX260

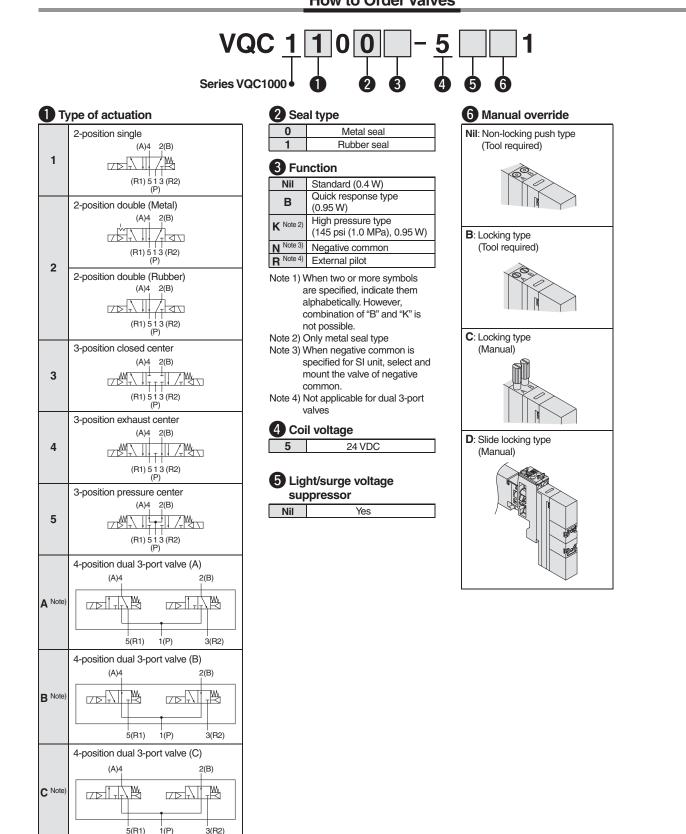
S<

2<

VQC

S0700

How to Order Valves



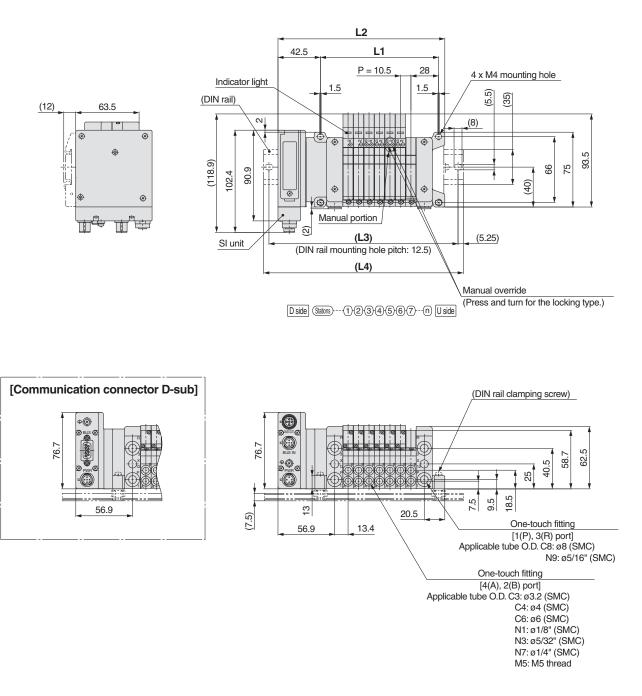
Note) Only rubber seal type

Refer to the SMC website or the VQC1000/2000 series catalog (CAT.NAS11-101) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

Series VQC1000 Kit (Serial transmission) For EX260 Integrated-type (For Output) Serial Transmission System

VV5QC11

S Kit (Serial transmission kit: EX260)



																				n: S	stations	(Maxim	um 24 s	stations)
Ln	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L2	104.2	114.7	125.2	135.7	146.2	156.7	167.2	177.7	188.2	198.7	209.2	219.7	230.2	240.7	251.2	261.7	272.2	282.7	293.2	303.7	314.2	324.7	335.2	345.7
L3	127	139.5	152	164.5	177	177	189.5	202	214.5	227	239.5	239.5	252	264.5	277	289.5	302	314.5	314.5	327	339.5	352	364.5	377
L4	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5	275	287.5	300	312.5	325	325	337.5	350	362.5	375	387.5

SMC

(mm)

Base Mounted

Plug-in Unit: For EX260 Integrated-type (For Output) Serial Transmission System Series VQC2000



EX260

S S

2<

VQC

Series										
2 VQC2000										
2 Ma	nifold model									
1	Plug-in unit									

Stations

In the case of the 32-output SI unit

Symbol	Stations	Note						
02	2 stations							
÷		Double wiring Note 1)						
12	12 stations	- v						
02	2 stations	Oran efficient Lawrent Note 2)						
:	:	Specified layout Note 2) (Available up to 24 solenoids)						
24	24 stations	(Available up to 24 soleholds)						

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
08	8 stations	
02	2 stations	Or a sife at law at Note 2)
÷	:	Specified layout Note 2)
16	16 stations	(Available up to 16 solenoids)

- Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all manifold stations. Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position

and 4-position valves cannot be used where single wiring has been specified.)

Note 3) Includes the number of blanking plate assemblies.

G Kit type

b Kit	туре	
S	Kit	
	(Serial transmission kit (for Output))	
		-
SI	unit	-
		-
		_
		ŀ
		-
	IP40 specification	
	SI unit: EX260 IP67 specification	┝

4	Cylinder	port size

C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting
СМ	Mixed sizes and with port plug
L4	Top ported elbow
64	with ø4 One-touch fitting
L6	Top ported elbow
LO	with ø6 One-touch fitting
L8	Top ported elbow
	with ø8 One-touch fitting
B4	Bottom ported elbow
D4	with ø4 One-touch fitting
B6	Bottom ported elbow
DO	with ø6 One-touch fitting
B8	Bottom ported elbow
DO	with ø8 One-touch fitting
LM	Elbow port, mixed sizes
MM Note 2)	Mixed size for different types of piping,
WIN NOLE 2)	option installed

How to Order Manifold

VV5QC 2 1-08 C6 SNA N-B ······ S Kit

Note 1) Indicate the sizes on the manifold specification sheet in the case of "CM", "LM".

- Note 2) When selecting the mixed size for different types of piping or dual flow fitting assembly, enter "MM" and give instructions in the manifold specification sheet.
- Note 3) Symbols for inch sizes are as follows: • N3: ø5/32"
 - N7: ø1/4"
 - N9: ø5/16"
 - NM: Mixed

The top ported elbow is $\mathsf{LN}\square$ and the bottom ported elbow is BND.

6 SI unit output polarity

N Negative common
i logative continion

Symbol

SD0

SQA

SQB

SNA

SNB

SNC

SND

SVA

SVB

SDA

SDB

SFA

SFB

SEA

SEB

Protocol

DeviceNet™

PROFIBUS DP

CC-Link

EtherCAT

PROFINET

EtherNet/IP™

Number

of outputs

Without SI unit

32

16

32

16

32

16

32

16

32

16

32

16

32

16

Communication

connector

M12

M12

D-sub Note 1)

M12

M12

M12

M12

Nil	None
В	With back pressure check valve (All stations) Note 2
D	With DIN rail (Rail length: Standard)
D	With DIN rail (Rail length: Special) Note 3)
Κ	Special wiring spec. (Except double wiring) Note 4)
Ν	With name plate
R	External pilot Note 5)
S	Built-in silencer, Direct exhaust Note 6)
Т	P and R ports included on both sides of the U side Note 7
, i	Example: -BRS When the back pressure check valve is desired and is to be installed only in certain manifold stations, specify the mounting position on the panifold specification sheet
Note 3)	When the back pressure check valve is desired and is to be installed only in certain manifold stations, specify the mounting position on the nanifold specification sheet. For special DIN rail length, indicate "D□". Enter the number of stations inside □.) Example: -D08
Note 3)	When the back pressure check valve is desired and is to be installed only in certain manifold stations, specify the mounting position on the nanifold specification sheet. For special DIN rail length, indicate "D□". Enter the number of stations inside □.)
Note 3)	When the back pressure check valve is desired and is to be installed only in certain manifold stations, specify the mounting position on the manifold specification sheet. For special DIN rail length, indicate "D□". Enter the number of stations inside □.) Example: -D08 n this case, stations will be mounted on a DIN ail for 8 stations regardless of the actual number of manifold stations. The specified number of stations must be larger han the number of stations on the manifold.

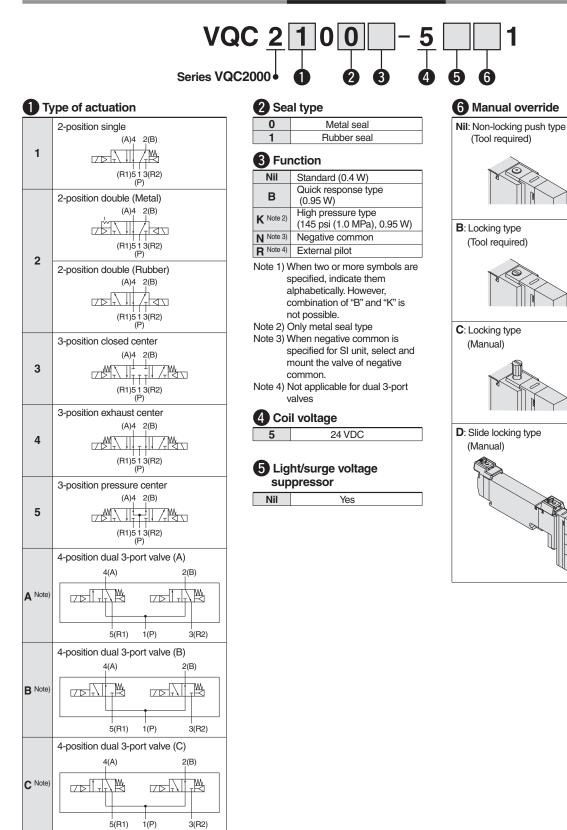
- Note 6) Built-in silencer type does not satisfy IP67.
- Note 7) 2 ports for SUP and EXH are included on both sides of U side (cylinder port and coil side) with ø12 One-touch fittings.
- Note 8) When the "SD0" (Without SI unit) is specified, "-D", "-D□" cannot be selected.

Note 1) D-sub S kit: IP40
specification (IP67
specification for al
other S kits)
Note 2) For SI unit part
number, refer to
page 1.



Series VQC2000

How to Order Valves



Note) Only rubber seal type

Refer to the SMC website or the VQC1000/2000 series catalog (CAT.NAS11-101) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

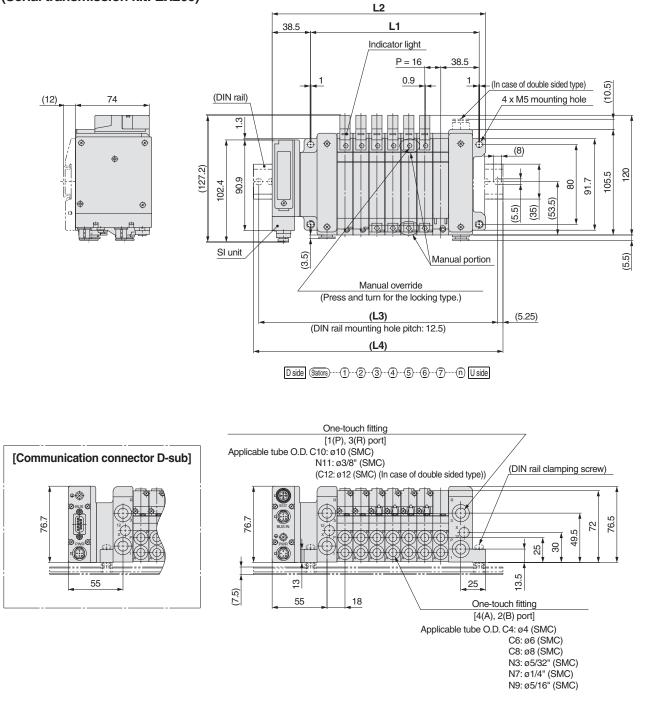


Series VQC2000

Kit (Serial transmission) For EX260 Integrated-type (For Output) Serial Transmission System

VV5QC21

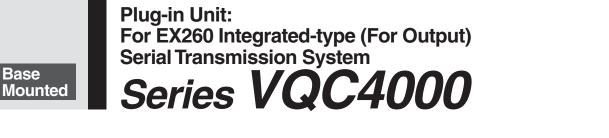
S Kit (Serial transmission kit: EX260)



n: Stations	(Maximum	24 stations)
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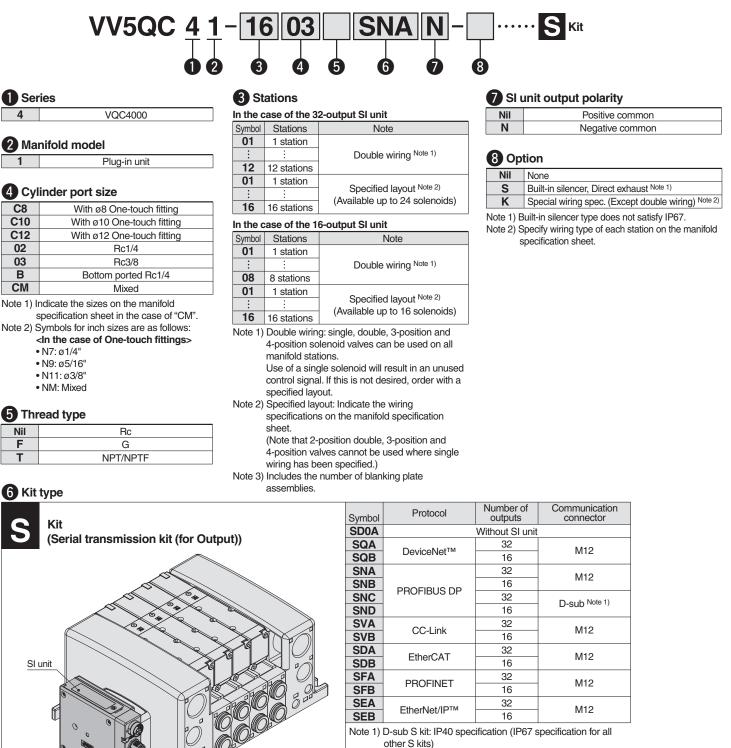
																					(/(0110)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342	358	374	390	406	422	438	454	470	486
L3	139.5	164.5	177	189.5	202	227	239.5	252	277	289.5	302	314.5	339.5	352	364.5	389.5	402	414.5	427	452	464.5	477	489.5	514.5
L4	150	175	187.5	200	212.5	237.5	250	262.5	287.5	300	312.5	325	350	362.5	375	400	412.5	425	437.5	462.5	475	487.5	500	525

(mm)





How to Order Manifold



IP40 specification

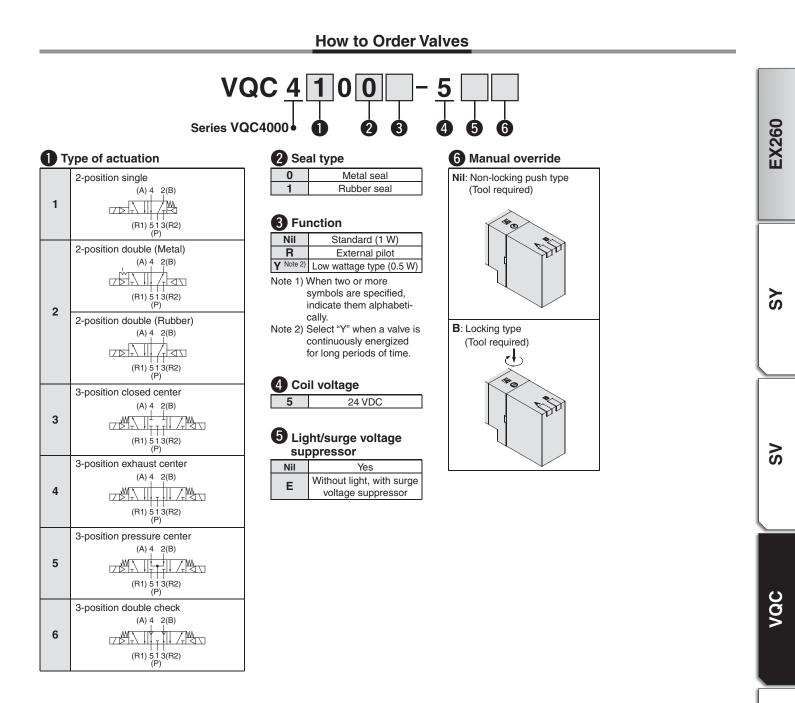
SI unit: EX260 IP67 specification

Note 2) For SI unit part number, refer to page 1.

SMC

35

Plug-in Unit: For EX260 Integrated-type (For Output) Serial Transmission System Series VQC4000



Refer to the SMC website or the VQC4000 series in Best Pneumatics No.1 for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

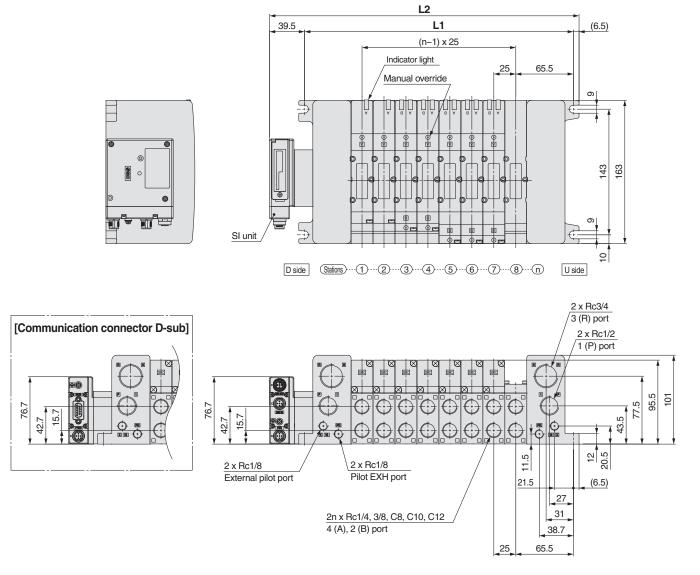
S0700

VQC4000 Kit (Serial transmission) For EX260 Integrated-type (For Output) Serial Transmission System

(mm)

VV5QC41

S Kit (Serial transmission kit: EX260)



n: Stations (Maximum 16 stations)

_ ∕⊐	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	131	156	181	206	231	256	281	306	331	356	381	406	431	456	481	506
L2	177	202	227	252	277	302	327	352	377	402	427	452	477	502	527	552

Plug-in Manifold Stacking Base S Kit (Serial Transmission): For EX260 Integrated-type (For Output) **Serial Transmission System**

How to Order Manifold

Series S0700



JUA	DeviceNet™	52	M12	
SQB	Devicemet	16	IVITZ	Note
SNA		32	M12	
SNB	PROFIBUS	16	IVI 12	
0110				

Nate 4) Devide a visit of a standard a standard of a static state	SIND
Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be	SNC
used on all manifold stations.	SND
Use of a single solenoid will result in an	SVA
unused control signal. If this is not desired,	SVB
order with a specified layout.	SDA
Note 2) Specified layout: Indicate the wiring	SDB

Note

Double wiring Note 1)

Specified layout Note 2)

(Available up to 32 solenoids)

Note

Double wiring Note 1)

Specified layout Note 2) (Available up to 16 solenoids)

- Note 2) specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used
- where single wiring has been specified.) Note 3) Includes the number of blanking plate assemblies.

2 Cylinder port size

Stations

Symbol

01

16

01

:

24

Symbol

01

80

01

16

In the case of the 32-output SI unit

In the case of the 16-output SI unit

Stations

1 station

16 stations

1 station

24 stations

Stations

1 station

8 stations

1 station

16 stations

Symbol	Port size					
C2	With ø2 One-touch fitting					
C3	With ø3.2 One-touch fitting					
C4	Metric					
CM	Mixed sizes and with port plug Note)					
N1	With ø1/8" One-touch fitting					
N3	With ø5/32" One-touch fitting Inc					
NM	Mixed sizes and with port plug Note)					

Note) Indicate the sizes on the manifold

specification sheet in the case of "CM", "NM".

R P. R port size

Symbol	Port size						
Nil	With ø8 One-touch fitting Note)						
C6	With ø6 One-touch fitting	Metric					
C8	With ø8 One-touch fitting						
N7	With ø1/4" One-touch fitting	linah					
N9	With ø5/16" One-touch fitting	Inch					

SS0750-08 C4 C8 SNA

Note) The cylinder port is ø5/16" when measured in inches.

4 Kit type

Symbol	Protocol	Number of outputs	Communication connector							
SD0	Without SI unit									
SQA	DeviceNet™	32	M12							
SQB	Devicemet	16	IVITZ							
SNA		32	M12							
SNB	PROFIBUS	16	IVITZ							
SNC	DP	32	D-sub Note 1)							
SND		16	D-Sub Hote I/							
SVA	CC-Link	32	M12							
SVB	CC-LINK	16	IVITZ							
SDA	EtherCAT	32	M12							
SDB	EllierCAT	16	IVITZ							
SFA	PROFINET 32		M12							
SFB	FROFINET	16	IVITZ							
SEA	EtherNet/IP™	32	M12							
SEB		16	10112							

Note 1) The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter "-K" to the order code options.

Note 2) For SI unit part number, refer to page 1.

Type of actuation	Single	Double, Dual 3-port		
Number of solenoids	1	2		

5 SI unit output polarity

Nil	Positive common
Ν	Negative common

6 Option

B

Symbol	Option						
Nil	None						
B Note 2)	With back pressure check valve (All stations)						
D	With DIN rail (Rail length: Standard)						
D0	Without DIN rail (With bracket)						
D Note 3)	With DIN rail (Rail length specified, □: Stations)						
K Note 4)	Special wiring specifications (Except double wiring)						
Ν	With name plate						
R Note 5)	External pilot						
S	Built-in silencer						
Example) -BKN Note 2) When the back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position on the manifold specification sheet.							
Note 3) The available number of stations is larger than the number of manifold stations							
Note 4) Indicate the wiring specifications for mixed single and double wirings.							
	Refer to the S0700 series catalog (CAT.NAS11-88) for details.						
(CAT.NAS11-86) for details. * Refer to the S0700 series catalog (CAT.NAS11-88) for manifold optional parts. * Refer to the S0700 series catalog (CAT.NAS11-88)							

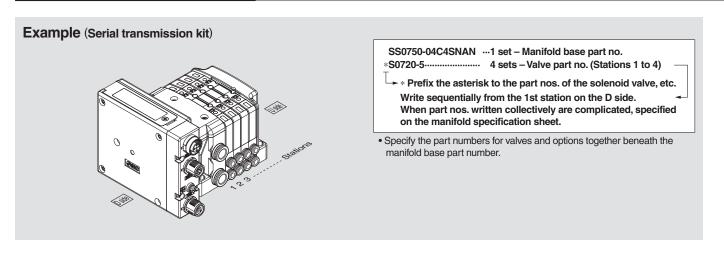
for manifold exploded view.

* When the "SDO" (Without SI unit) is specified, "-D", "-D
" cannot be selected.

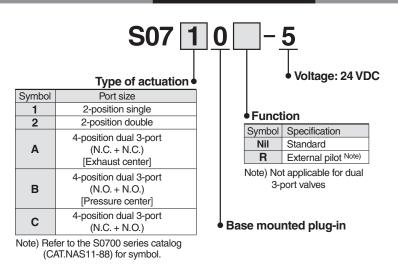
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VQC

How to Order Manifold Assembly

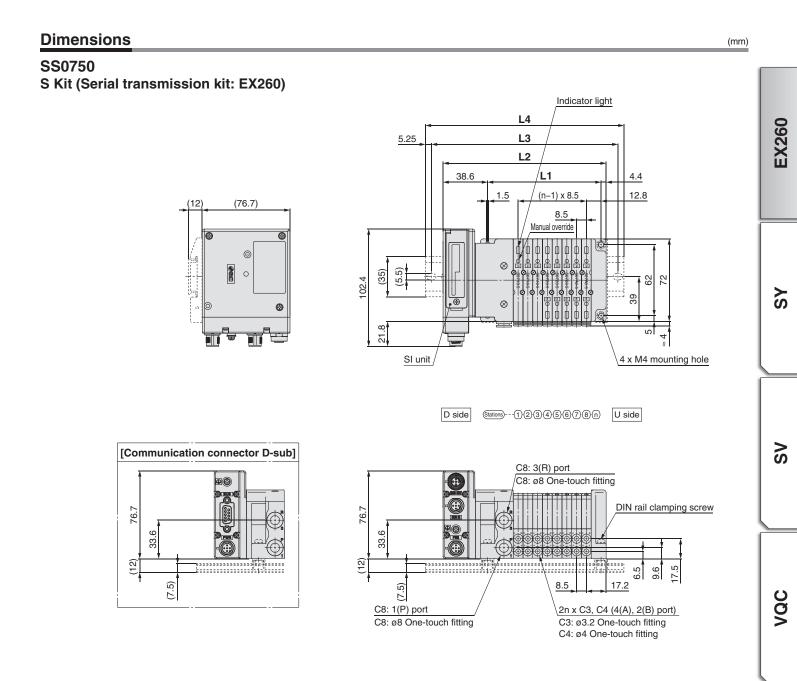


How to Order Valves



Refer to the SMC website or the S0700 series catalog (CAT.NAS11-88) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

Plug-in Manifold Stacking Base S Kit (Serial Transmission): For EX260 Integrated-type (For Output) Serial Transmission System **Series S0700**



Dimensions

Formula L1 = 8.5n + 31, L2 = 8.5n + 74 n: Station (Maximun 16 stations)

L _ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	39.5	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	82.5	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210
L3	112.5	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5
L4	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248



Series EX260 Specific Product Precautions 1

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" for 3/4/5 Port Solenoid Valve Precautions. The Operation Manual can be downloaded from the SMC website, http://www.smcworld.com

Design/Selection

Warning

1. Use this product within the specification range. Using beyond the specified specifications range can cause fire, malfunction, or damage to the system. Check the specifications before operation.

2. When using for an interlock circuit:

- Provide a multiple interlock system which is operated by another system (such as mechanical protection function).
- Perform an inspection to confirm that it is working properly.

This may cause possible injury due to malfunction.

Caution

1. When applicable to UL, use a Class 2 power supply unit conforming to UL1310 for direct current power supply.

2. Use this product within the specified voltage range.

Using beyond the specified voltage range is likely to cause the units and connecting devices to be damaged or to malfunction.

3. Do not install a unit in a place where it can be used as a foothold.

Applying any excessive load such as stepping on the unit by mistake or placing a foot on it, will cause it to break.

4. Keep the surrounding space free for maintenance.

When designing a system, take into consideration the amount of free space needed for performing maintenance.

5. Do not remove the name plate.

Improper maintenance or incorrect use of operation manual can cause failure and malfunction. Also, there is a risk of losing conformity with safety standards.

Mounting

Caution

- 1. When handling and assembling units:
 - Do not apply excessive force to the unit when disassembling.
 - The connecting portions of the unit are firmly joined with seals.
 - When joining units, take care not to get fingers caught between units.

Injury can result.

2. Do not drop, bump, or apply excessive impact.

Otherwise, the unit can become damaged, malfunction, or fail to function.

3. Observe the tightening torque range.

Tightening outside of the allowable torque range will likely damage the screw.

IP67 cannot be guaranteed if the screws are not tightened to the specified torque.

Mounting

Caution

4. When lifting a large size manifold solenoid valve unit, take care to avoid causing stress to the valve connection joint.

The connection parts of the unit may be damaged. Because the unit may be heavy, carrying and installation should be performed by more than one operator to avoid strain or injury.

5. When placing a manifold, mount it on a flat surface.

Torsion in the whole manifold can lead to trouble such as air leakage or defective insulation.

Wiring

1. Check the grounding to maintain the safety of the reduced wiring system and for anti-noise performance.

Provide a specific grounding as close to the unit as possible to minimize the distance to grounding.

2. Avoid repeatedly bending or stretching the cable and applying a heavy object or force to it.

Wiring applying repeated bending and tensile stress to the cable can break the circuit.

3. Avoid miswiring.

If miswired, there is a danger of malfunction or damage to the reduced wiring system.

4. Do not wire while energizing the product.

There is a danger of malfunction or damage to the reduced wiring system or output device.

5. Avoid wiring the power line and high pressure line in parallel.

Noise or surge produced by signal line resulting from the power line or high pressure line could cause malfunction.Wiring of the reduced wiring system or output device and the power line or high pressure line should be separated from each other.

6. Check the wiring insulation.

Defective insulation (contact with other circuits, improper insulation between terminals, etc.) may cause damage to the reduced wiring system or output device due to excessive voltage and current.

7. When a reduced wiring system is installed in machinery/equipment, provide adequate protection against noise by using noise filters, etc.

Noise in signal lines may cause malfunction.







Series EX260 Specific Product Precautions 2

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" for 3/4/5 Port Solenoid Valve Precautions. The Operation Manual can be downloaded from the SMC website, http://www.smcworld.com

Wiring

8. When connecting wires of output device, prevent water, solvent or oil from entering inside the connector section.

This can cause damage, equipment failure or malfunction.

9. Avoid wiring patterns in which excessive stress is applied to the connector.

This may cause malfunction or damage to the unit due to contact failure.

10. Select connectors that are ø16 or less if mounting manifolds directly using fieldwireable connectors for SI unit power supply wiring.

Using large diameter connectors causes interference with the mounting surface.

The following cables with connectors are recommended.

- For EX260-SPR /-SDN /-SEC /-SPN /-SEN
 - <Cable with connector>
 - EX500-AP
 - PCA-1401804/-1401805/-1401806
- For EX260-SMJ

<Cable with connector>

- EX9-AC
- PCA-1401807/-1401808/-1401809

Operating Environment

Marning

1.Do not use in an atmosphere containing an inflammable gas or explosive gas.

Use in such an atmosphere is likely to cause a fire or explosion. This system is not explosion-proof.

1. Select the proper type of enclosure according to the environment of operation.

IP67 is achieved when the following conditions are met.

- 1) Provide appropriate wiring between all units using electrical wiring cables, communication connectors and cables with M12 connectors.
- 2) Suitable mounting of each unit and manifold valve.
- 3) Be sure to mount a seal cap on any unused connectors.

If using in an environment that is exposed to water splashes, please take measures such as using a cover.

When the enclosure is IP40, do not use in an operating environment or atmosphere where it may come in contact with corrosive gas, chemical agents, seawater, water, or water vapor.

When connected to the EX260-SPR5/6/7/8, manifold enclosure is IP40.

Operating Environment

2. Provide adequate protection when operating in locations such as the following.

Failure to do so may cause damage or malfunction.

The effect of countermeasures should be checked in individual equipment and machine.

- 1) Where noise is generated by static electricity, etc.
- 2) Where there is a strong electric field
- 3) Where there is a danger of exposure to radiation
- 4) When in close proximity to power lines or high voltage lines
- 3. Do not use in an environment where oil and chemicals are used.

Operating in environments with coolants, cleaning solvents, various oils or chemicals may cause adverse effects (damage, malfunction) to the unit even in a short period of time.

4. Do not use in an environment where the product could be exposed to corrosive gas or liquid.

This may damage the unit and cause it to malfunction.

5. Do not use in locations with sources of surge generation.

Installation of the unit in an area around the equipment (electromagnetic lifters, high frequency induction furnaces, welding machine, motors, etc.), which generates the large surge voltage could cause to deteriorate an internal circuitry element of the unit or result in damage. Implement countermeasures against the surge from the generating source, and avoid touching the lines with each other.

- 6. The product is CE marked, but not immune to lightning strikes. Take measures against lightning strikes in your system.
- 7.Keep dust, wire scraps and other extraneous material from getting inside the product.

This may cause malfunction or damage.

8. Mount the unit in such locations, where no vibration or shock is affected.

This may cause malfunction or damage.

9.Do not use in places where there are cyclic temperature changes.

In case that the cyclic temperature is beyond normal temperature changes, the internal unit is likely to be adversely effec-ted.

- **10. Do not use in direct sunlight.** Do not use in direct sunlight. It may cause malfunction or damage.
- 11. Use this product within the specified ambient temperature range.

This may cause malfunction.

12. Do not use in places where there is radiated heat around it. Such a place is likely to cause malfunction.





Series **EX260**

Specific Product Precautions 3

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" for 3/4/5 Port Solenoid Valve Precautions. The Operation Manual can be downloaded from the SMC website, http://www.smcworld.com

Adjustment/Operation

1. Do not perform operation or setting with wet hands. There is a risk of electrical shock.

Caution

1. Use a watchmakers' screwdriver with thin blade for the setting of each switch of the SI unit.

When setting the switch, do not touch other unrelated parts.

This may cause parts damage or malfunction due to a short circuit.

2. Provide adequate setting for the operating conditions.

Failure to do so could result in malfunction. Refer to the operation manual for setting of the switches.

3. For details on programming and address setting, refer to the manual from the PLC manufacturer.

The content of programming related to protocol is designed by the manufacturer of the PLC used.

4. For the EX260-SPN□, the side of the SI unit may become hot.

It may cause burns.

Maintenance

Warning

1. Do not disassemble, modify (including circuit board replacement) or repair this product.

Such actions are likely to cause injuries or breakage.

- 2. When an inspection is performed,
 - Turn off the power supply.
 - Stop the air supply, exhaust the residual pressurein piping and verify that the air is released before performing maintenance work.

Unexpected malfunction of system components and injury can result.

1. When handling and replacing the unit:

• Do not apply excessive force to the unit when disassembling.

The connecting portions of the unit are firmly joined with seals.

• When joining units, take care not to get fingers caught between units.

Injury can result.

2. Perform periodic inspection.

Unexpected malfunction in the system composition devices is likely to occur due to malfunction of machinery or equipment.

3. After maintenance, make sure to perform an appropriate functionality inspection.

In cases of abnormality such as faulty operation, stop operation. Unexpected malfunction in the system composition devices is likely to occur.

4. Do not use benzene and thinner for cleaning units.

Damage to the surface or erasure of the display can result. Wipe off any stains with a soft cloth.

If the stain is persistent, wipe off with a cloth soaked in a dilute solution of neutral detergent and wrung out tightly, and then finish with a dry cloth.

Other

Caution

1. Refer to the catalog of each series for Common Precautions and Specific Product Precautions on manifold solenoid valves.

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EtherNet/IP™ is a trademark of ODVA.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

Marning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Danger: Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

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A Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment. The product specified here may become unsafe if handled incorrectly.

The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

*1) ISO 4414: Pneumatic fluid power - General rules relating to systems.

ISO 4413: Hydraulic fluid power - General rules relating to systems. IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements) ISO 10218-1: Manipulating industrial robots - Safety.

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etc.

1. The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered.*2)

Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.

2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and

not to any other damage incurred due to the failure of the product.

3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.

*2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Revision history

Edition B ● EtherNet/IP[™] added to applicable Fieldbus protocols.

QS

Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

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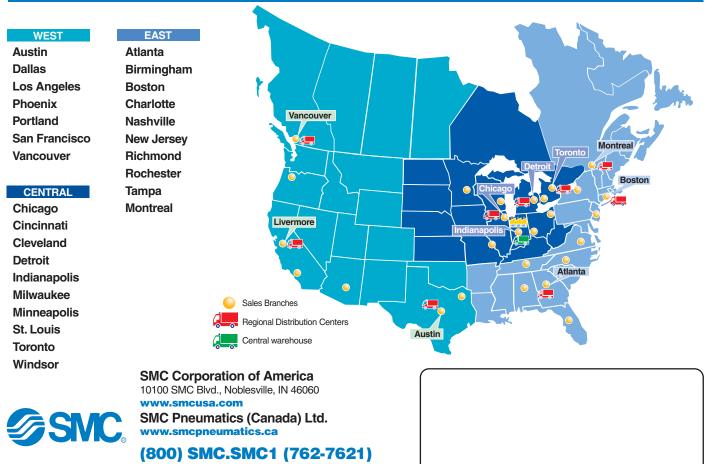
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