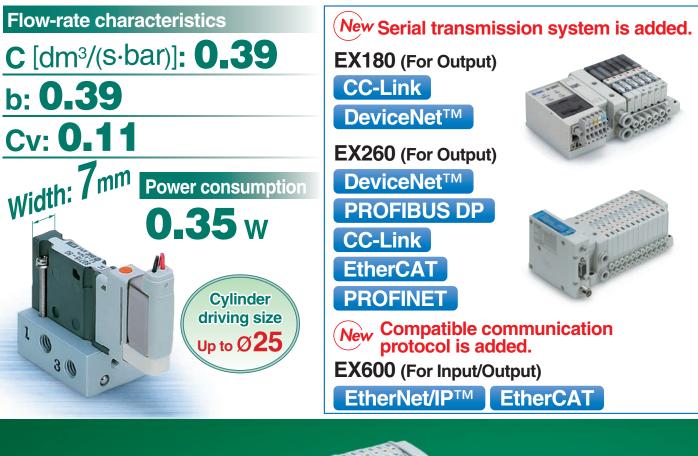
# **5 Port Solenoid Valve**









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

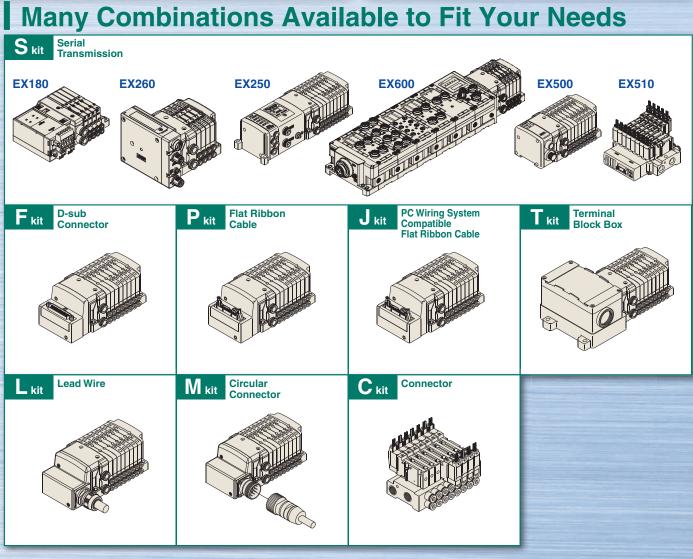
## Many Combinations of Serial Transmission Systems Available

	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 <sup>™</sup> PROFIBUS DP     CC-Link     EtherCAT     PROFINET	
EX250	For Input/Output Serial Transmission System	DeviceNet <sup>™</sup> PROFIBUS DP     CANopen     CC-Link     AS-Interface     EtherNet/IP <sup>™</sup>	
EX600	For Input/Output Serial Transmission System	DeviceNet <sup>™</sup> PROFIBUS DP     CC-Link     New • EtherNet/IP <sup>™</sup> New • EtherCAT	
EX500	Gateway-type Serial Transmission System	• DeviceNet <sup>™</sup> • PROFIBUS DP • CC-Link • EtherNet/IP <sup>™</sup>	
EX510	Gateway-type Serial Transmission System	• DeviceNet™ • PROFIBUS DP • CC-Link	

**SMC** 

## Series S0700



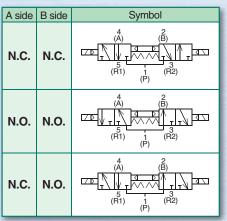


**SMC** 

Features 2

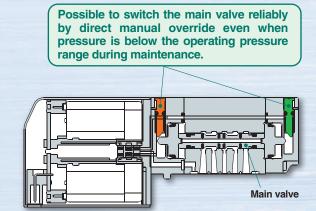
## **4-Position Dual 3-Port Valve**

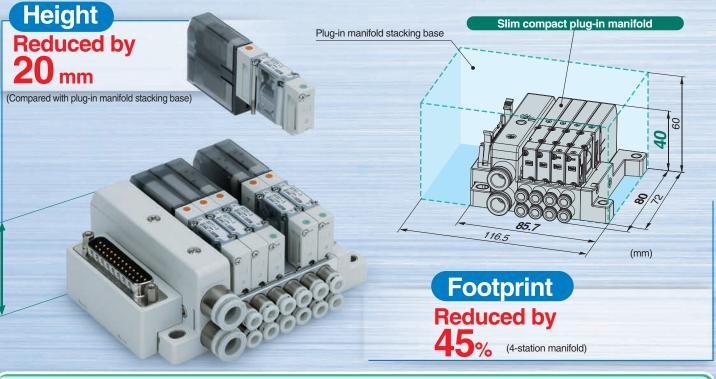
- Two 3-port valves in one body.
- Independently operating 3-port valve at each side of A and B.
- Number of stations occupied for 3-port valve halved.
- Available as 4-position 5-port valve.



### Slim Compact Plug-in Manifold Bar Base

## Direct Manual Is Adopted.



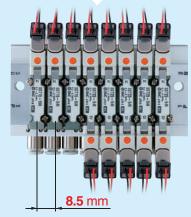


## 2 Types of Manifold Pitch Are Selectable.

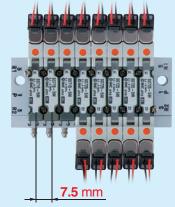
(Plug Lead Manifold Bar Base)

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)

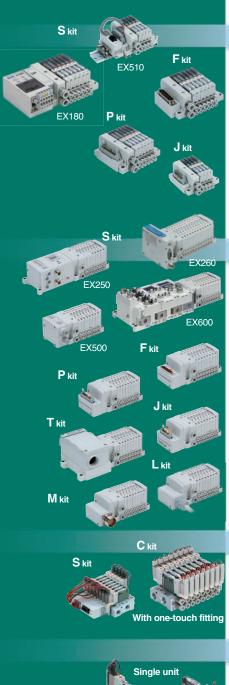


The mounting screw is tightened with the valve.

## INDEX

### 5 Port Solenoid Valve Series S0700

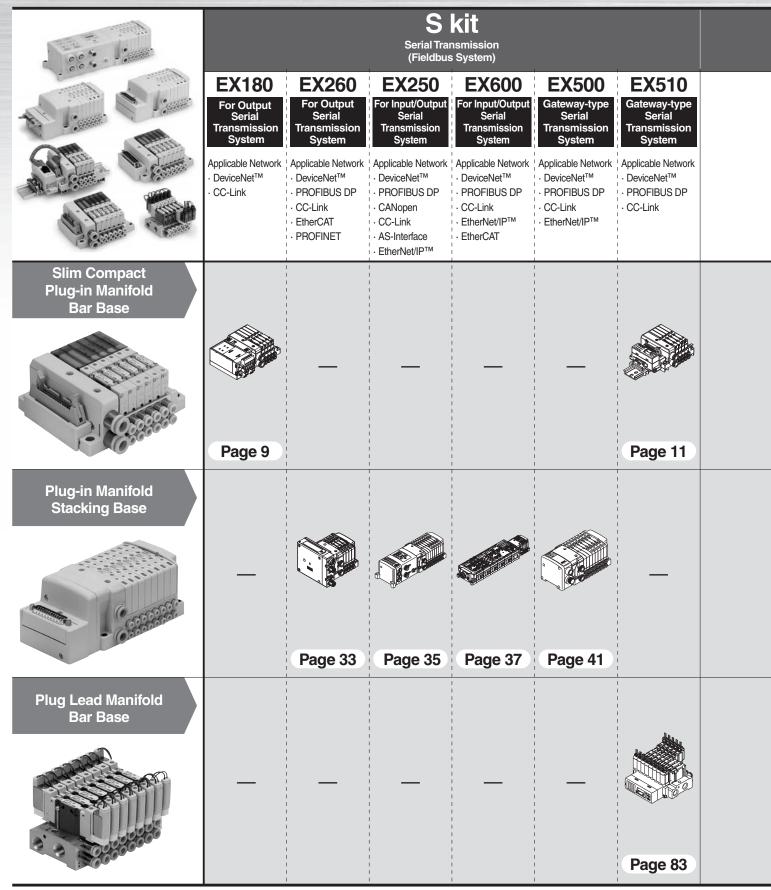
Variations ·····	Page 1
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Cylinder Speed Chart, Symbol	Page 7
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PC Wiring System Compatible Flat Ribbon Cable J kit	Page 22
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Terminal Block Box T kit	Page 56
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Construction	Page 90
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Specific Product Precautions	Page 92
Troubleshooting	Page 103
Safety Instructions	Back page



Slim Compact Plug-in Manifold Bar Base

Features 4

## Series S0700 Variations

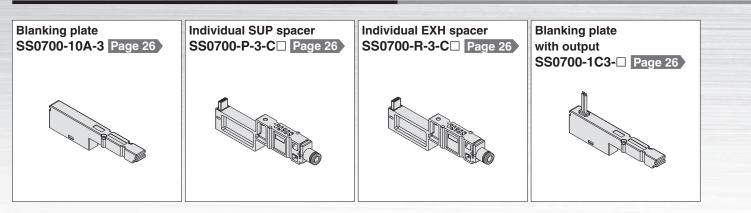


<b>F kit</b> D-sub Connector	<b>P kit</b> Flat Ribbon Cable	<b>J kit</b> PC Wiring System Compatible Flat Ribbon Cable	<b>T kit</b> Terminal Block Box	L kit Lead Wire	<b>M kit</b> Circular Connector	C kit <sub>Connector</sub>
MIL Standard	MIL Standard	MIL Standard				
			_	—	—	—
Page 15	Page 19	Page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

## Series S0700

## Options

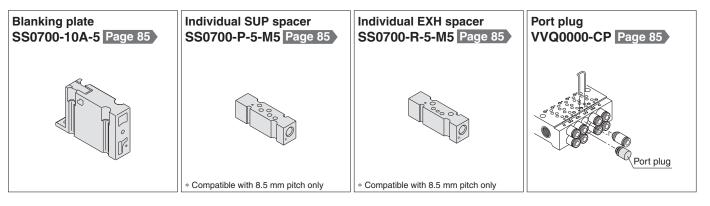
### Slim Compact Plug-in Manifold Bar Base / Options



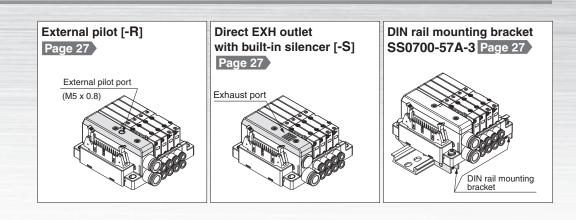
### Plug-in Manifold Stacking Base / Options

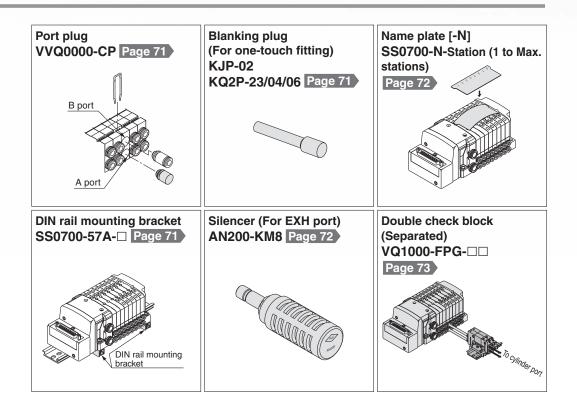
Blanking plate SS0700-10A-1 Page 69	Direct EXH outlet with built-in silencer [-S] Page 69	SUP block plate SS0700-B-P Page 70	Back pressure check valve [-B] SS0700-7A-1 Page 70
	Exhaust port	SUP passage	
External pilot [-R] Page 69	Individual SUP/EXH spacer SS0700-PR-1 Page 69	EXH block plate SS0700-B-R 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

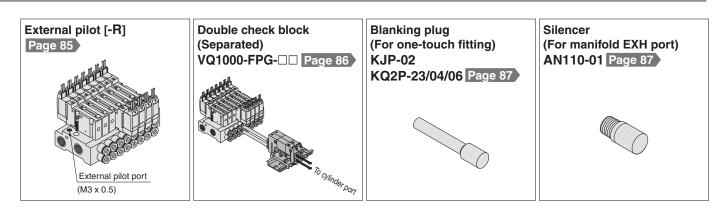
### Plug Lead Manifold Bar Base / Options













## 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 <sup>A</sup> 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 <sup>2</sup>					
	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	<b>SS0755-□V□C</b> (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%

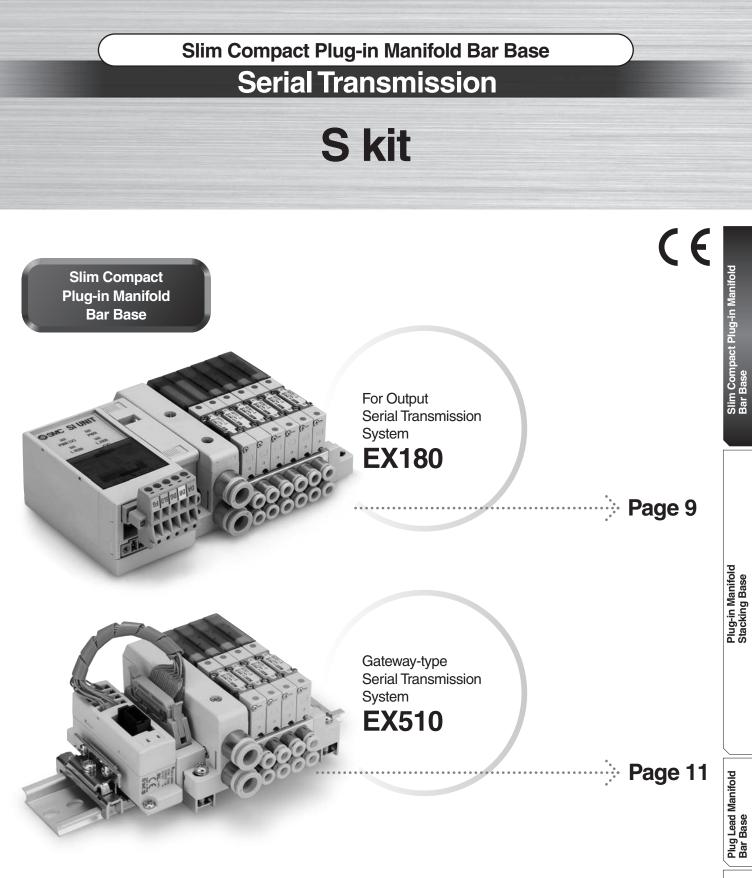
### Conditions

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

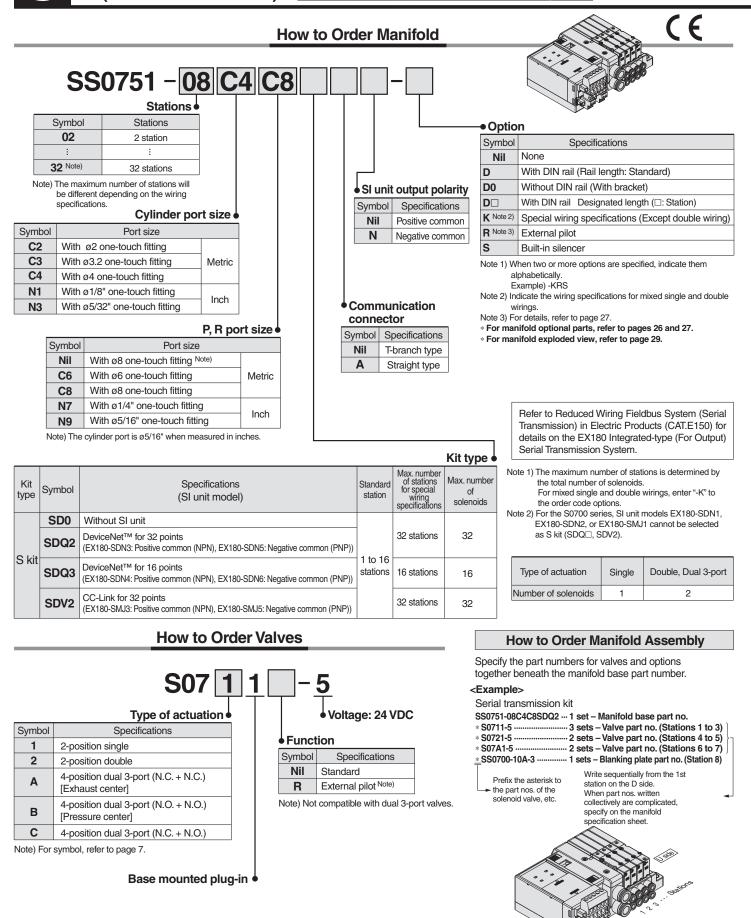
Model	Type of actuation	JIS symbol
S0710 S0711 S0715	2-position single	(A) (B) $4 2$ $T$
S0720 S0721 S0725	2-position double	(A) (B) 4 2 5 1 3 (R1) (P) (R2)
S07A0 S07A1 S07A5	4-position dual 3-port (N.C. + N.C.) [Exhaust center]	$\begin{array}{c c} 4 & 2 \\ (A) & (B) \\ \hline \\ $
S07B0 S07B1 S07B5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





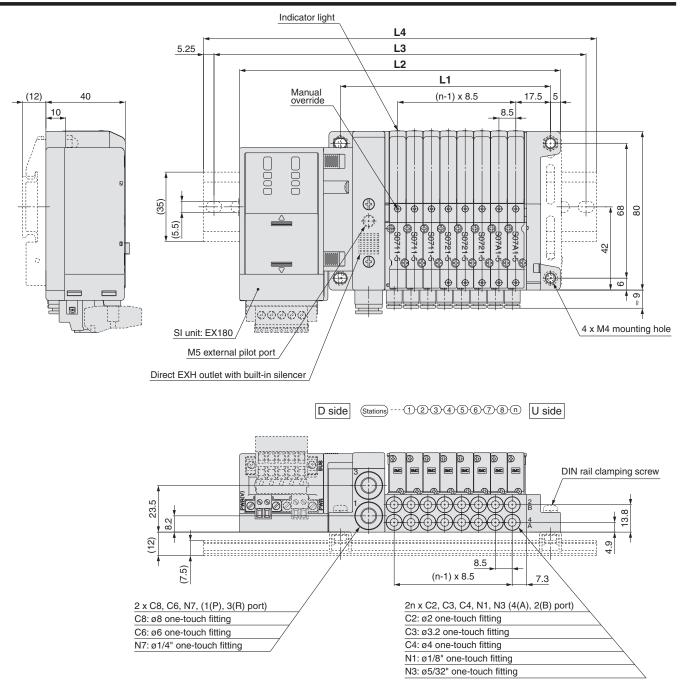
Series S0700 Slim Compact Plug-in Manifold Bar Base

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).

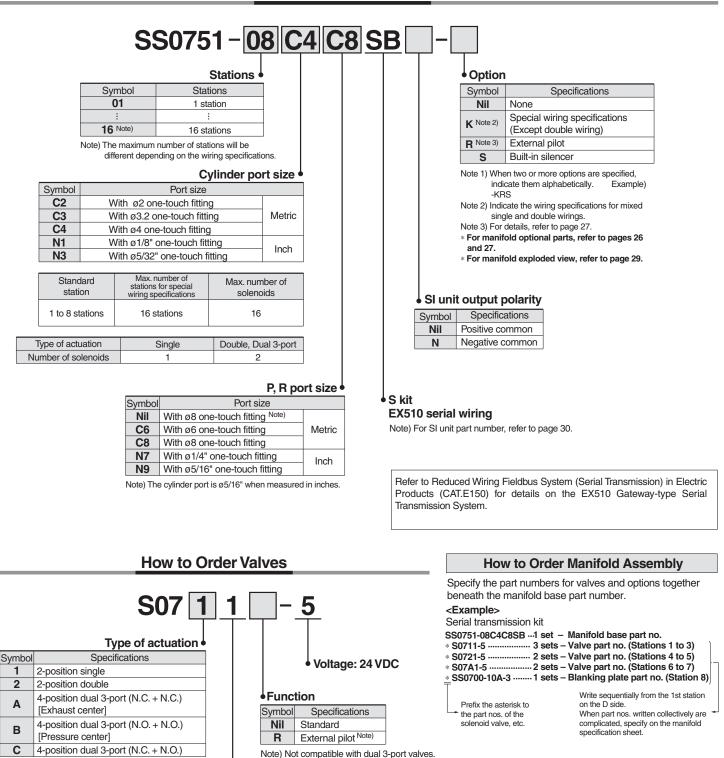
Dimensi	ons								For	mula L1 :	= 8.5n + 3	38, L2 = 8	.5n + 93.	7 n: Sta	ation (Max	kimum 32	stations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191
L2	110.7	119.2	127.7	136.2	144.7	153.2	161.7	170.2	178.7	187.2	195.7	204.2	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	<b>19</b> 199.5	<b>20</b> 208	<b>21</b> 216.5	<b>22</b> 225	<b>23</b> 233.5	<b>24</b> 242	<b>25</b> 250.5	<b>26</b> 259	<b>27</b> 267.5	<b>28</b> 276	<b>29</b> 284.5	<b>30</b> 293	<b>31</b> 301.5	<b>32</b> 310			
L	19																
L L1	<b>19</b> 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

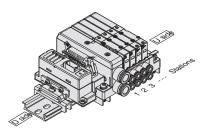
Series S0700 Slim Compact Plug-in Manifold Bar Base kit (Serial Transmission) EX510 Gateway-type Serial Transmission System

How to Order Manifold



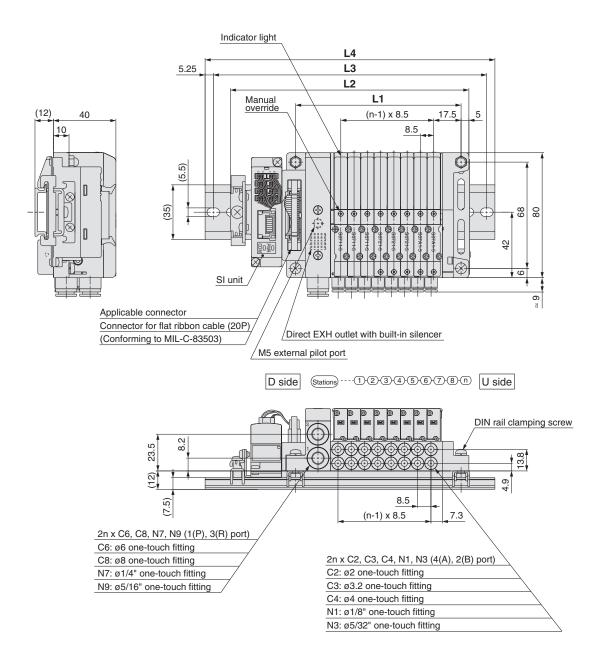
Base mounted plug-in

∕∂SMC



Note) For symbol, refer to page 7.

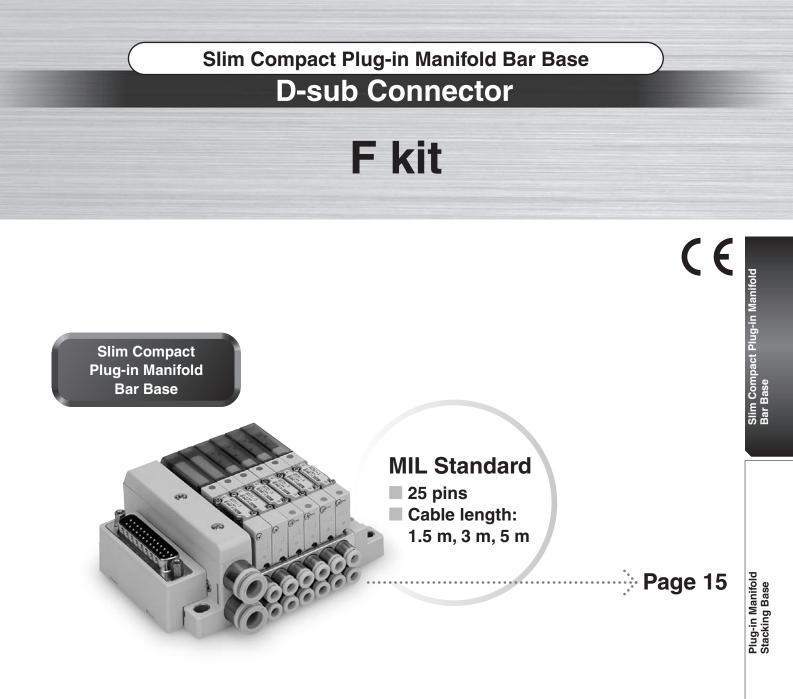
### Slim Compact Plug-in Manifold Bar Base EX510 Gateway-type Serial Transmission System Series S0700



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



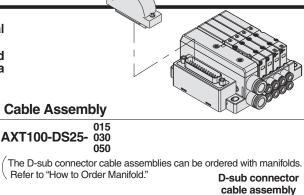
### Series S0700 Slim Compact Plug-in Manifold Bar Base kit (D-sub Connector)

- 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

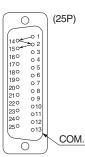
25

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]



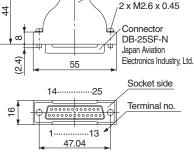
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24.

### 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 mm<sup>2</sup> 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 <sup>2</sup> 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.

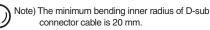
### **Electrical Characteristics**

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

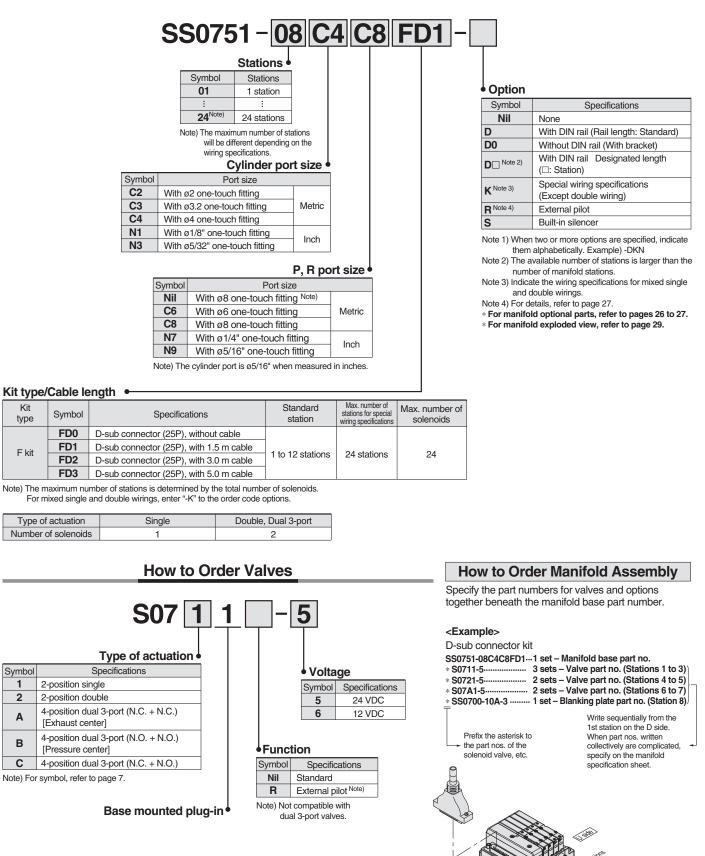
### Connector manufacturers' example

- 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

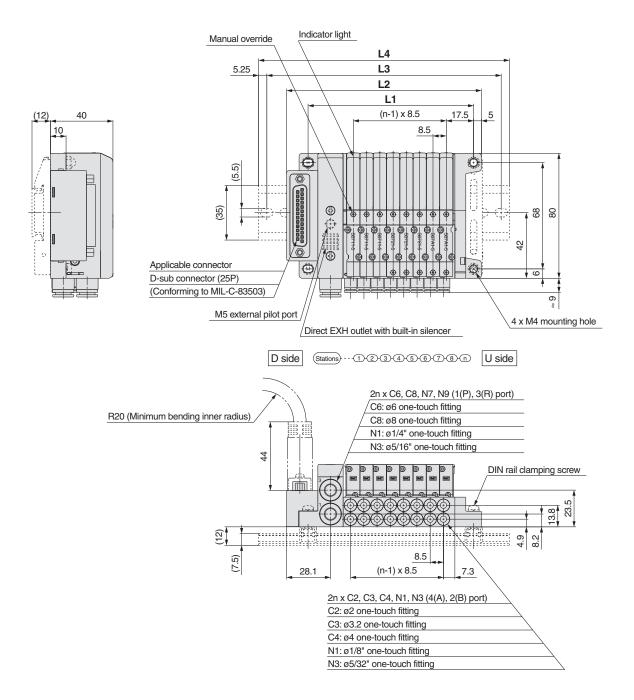
С

Plug Lead Manifold Bar Base

Plug Lead Single Unit

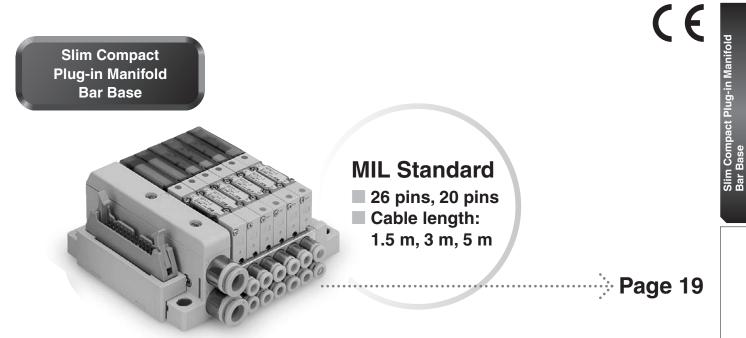
*∕∂SMC* 





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

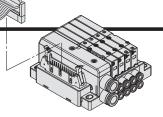
## Slim Compact Plug-in Manifold Bar Base Flat Ribbon Cable **P kit**



Plug-in Manifold Stacking Base

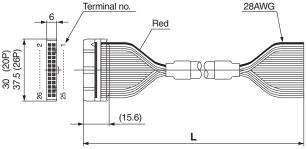
## Series S0700 Slim Compact Plug-in Manifold Bar Base kit (Flat Ribbon Cable)

- 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.B<sub>0</sub>6 SOL.B Station 3 Station 3 6 (--) (+)(-) (+)SOL.A 0 7 SOL.A 7 (--) (+) (-) (+) SOL.B 8 SOL.B<sub>08</sub> 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.B<sub>0</sub>12 SOL.B<sub>0 12</sub> Station 6 Station 6 (--) (+) (-) (+) SOL.A 0 13 SOL.A 0 13 (-) (+) (-) (+) SOL.B 0 14 SOL.B<sub>0</sub>14 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<sub>0 17</sub> (-) (+) (-) (+) SOL.B 0 18 SOL.B 0 18 Station 9 Station 9 (--) (+) (-) (+) SOL.A 0 19 (-) (+) (-) COM. 0 19 (+) SOL.B<sub>020</sub> Station 10 (-) (+) COM. 0 20 (-) (+) SOL.A 0 21 (--) (+)Positivo Negative COM SOL.B<sub>022</sub> Station 11 (--) (+) COM SOL.A 23 (-) (+) SOL.B<sub>024</sub> 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.

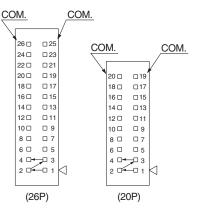
Cannot be used for movable wiring.

### 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

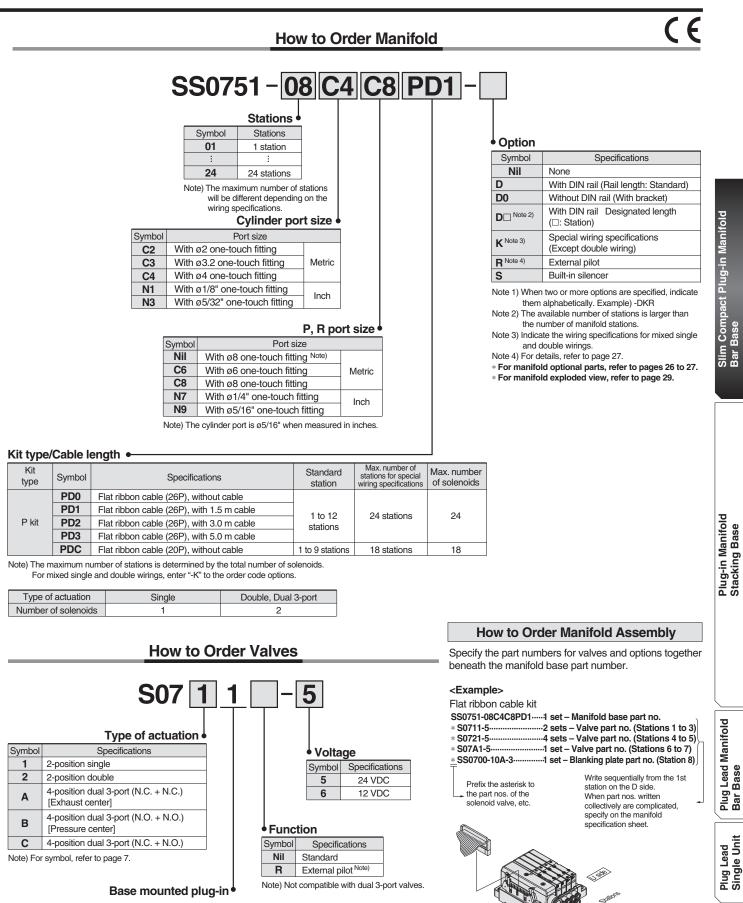
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

### 2. Wiring specifications

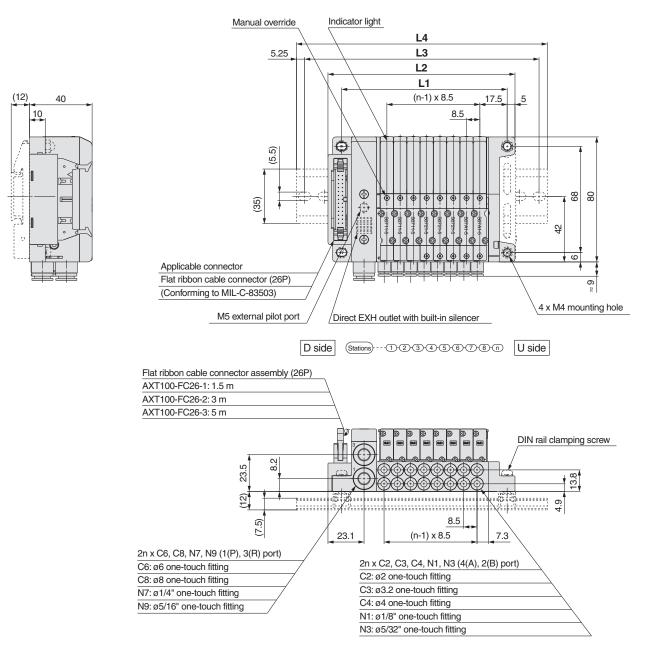
Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



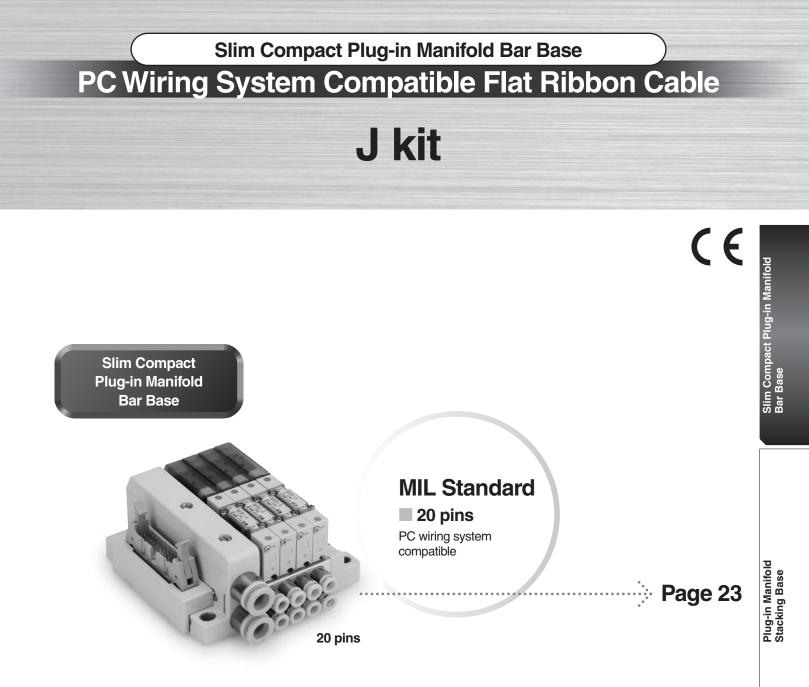
## Slim Compact Plug-in Manifold Bar Base Series S0700



SMC

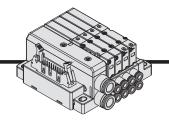


Dimens	ions												F	ormula	L1 = 8.	5n + 38	, L2 = 8	.5n + 51	.7 n:	Station (	Maximu	um 24 s	tations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191	199.5	208	216.5	225	233.5	242
L2	68.7	77.2	85.7	94.2	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**

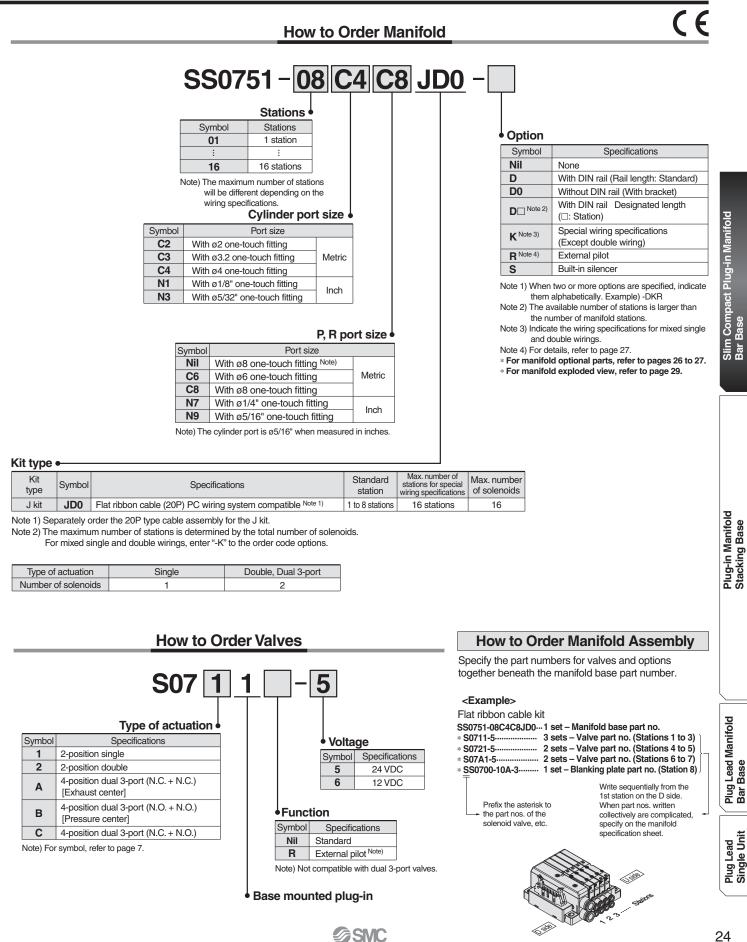
Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer to "Special Wiring Specifications" (Option) below. Terminal Polarity Flat ribbon cable 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

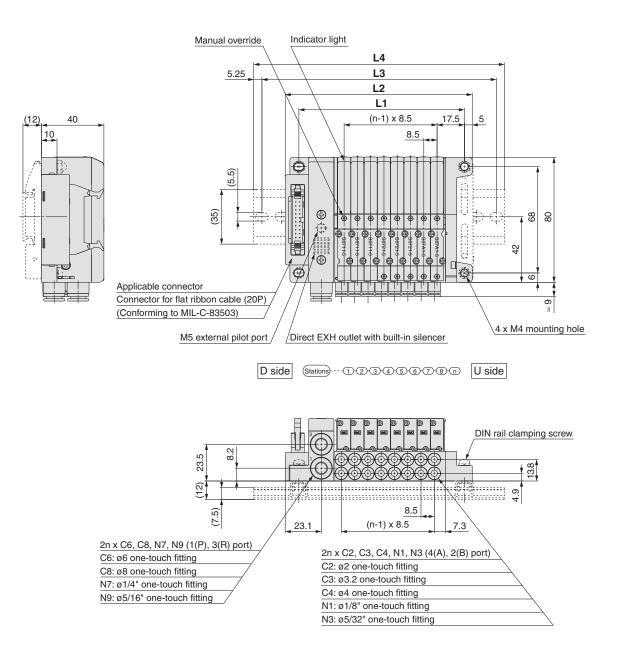
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

### 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 <sup>.</sup>	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**

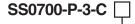
### Blanking plate assembly

### 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)

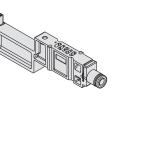
### Individual SUP spacer



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

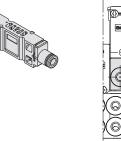
Blanking plate with output

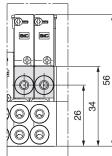
Weight: 0.53 oz (15 g)

SS0700-1C3-

### Port size

Symbol	Applicable tube
C2	Applicable tube ø2
C3	Applicable tube ø3
<b>C</b> 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

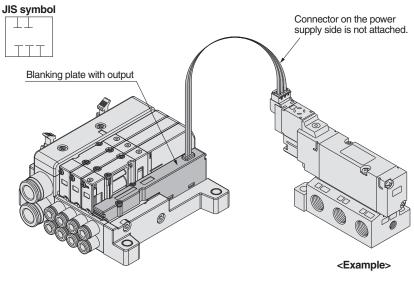
1000

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

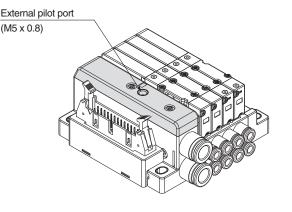
- How to Order Manifold (Example)
- \* Indicate R for an option.
- SS0750-08C4FD1-R

• External pilot

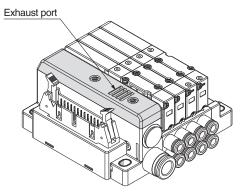
### Direct EXH outlet with built-in silencer [-S]

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.



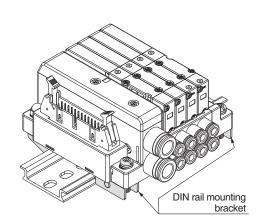
## DIN rail mounting bracket SS0700 - 57A - 3

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)).



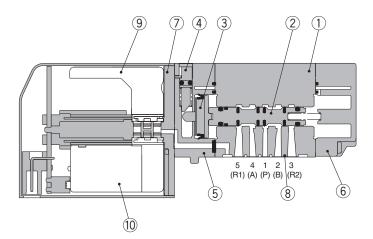
When ordering this option incorporated with a manifold, suffix "D" to the end of the manifold part number.

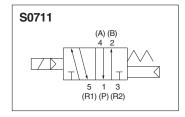


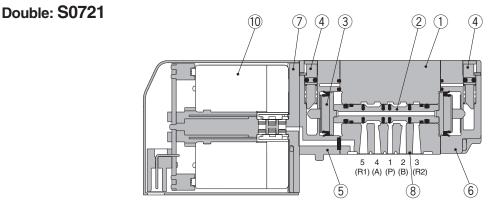
## Slim Compact Plug-in Manifold Bar Base Series S0700

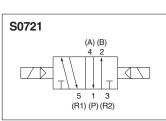
### Construction





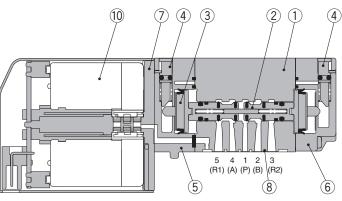






Slim Compact Plug-in Manifold Bar Base



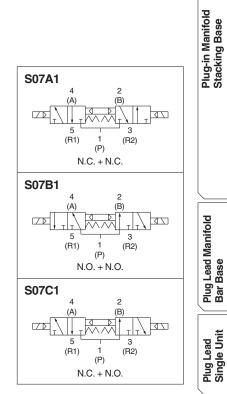


**SMC** 

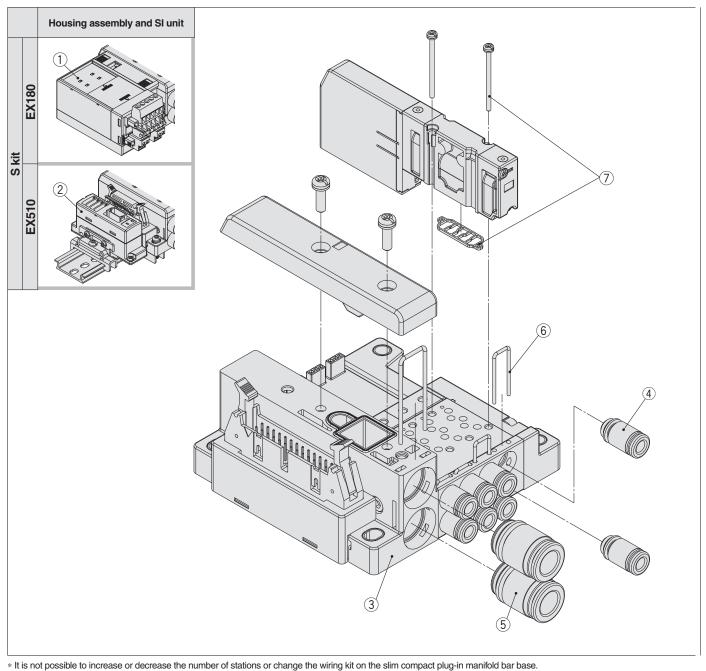
### **Component Parts**

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

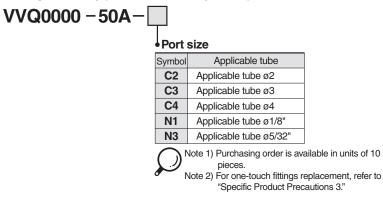


To change them, please change the entire base unit.

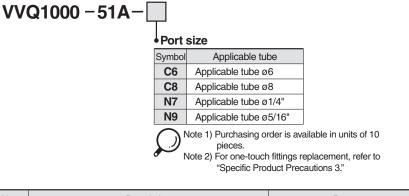
### Manifold Assembly Part No.

No.	Description	Part no.	Note
		EX180-SDN3	DeviceNet <sup>™</sup> 32 outputs NPN (positive common) T-branch type communication connector
		EX180-SDN3A	DeviceNet <sup>™</sup> 32 outputs NPN (positive common) Straight type communication connector
		EX180-SDN4	DeviceNet <sup>™</sup> 16 outputs NPN (positive common) T-branch type communication connector
		EX180-SDN4A	DeviceNet <sup>™</sup> 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 <sup>™</sup> 32 outputs PNP (negative common) T-branch type communication connector
		EX180-SDN5A	DeviceNet <sup>™</sup> 32 outputs PNP (negative common) Straight type communication connector
		EX180-SDN6	DeviceNet <sup>™</sup> 16 outputs PNP (negative common) T-branch type communication connector
		EX180-SDN6A	DeviceNet <sup>™</sup> 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

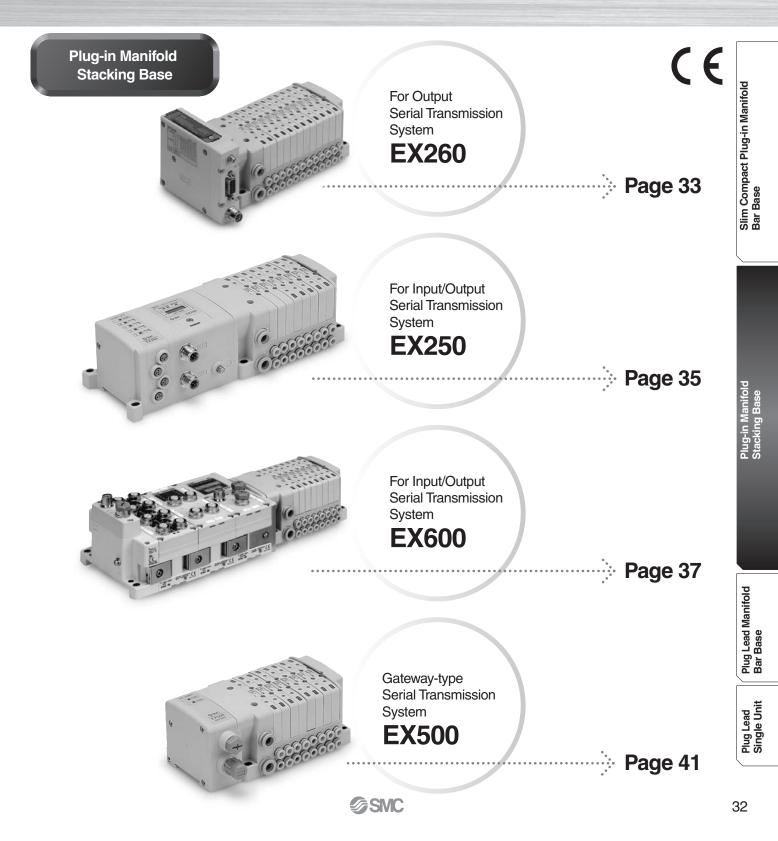
Note) Above part number consists of 10 units. Each unit has one gasket and two screws.

Plug Lead Single Unit



## Plug-in Manifold Stacking Base Serial Transmission

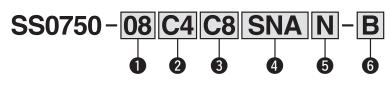
## S kit

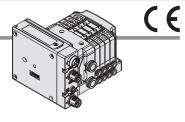


Series S0700 Plug-in Manifold Stacking Base

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 <sup>Note)</sup>		
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

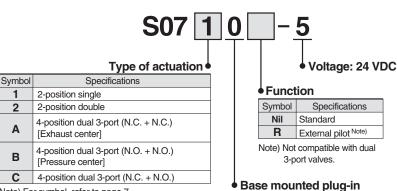
- Note 5) For details, refer to page 69.
- \* For manifold optional parts, refer to pages 69 to 73. \* For manifold exploded view, refer to page 75.
- \* When the "SD0" (Without SI unit) is specified,

How to Order Manifold Assembly

Specify the part numbers for valves and options

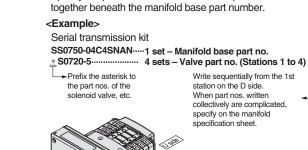
"-D", "-D $\square$ " cannot be selected.

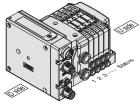
Refer to Fieldbus System (CAT.E02-25) for details on the EX260 Integrated-type (For Output) Serial Transmission System.



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.

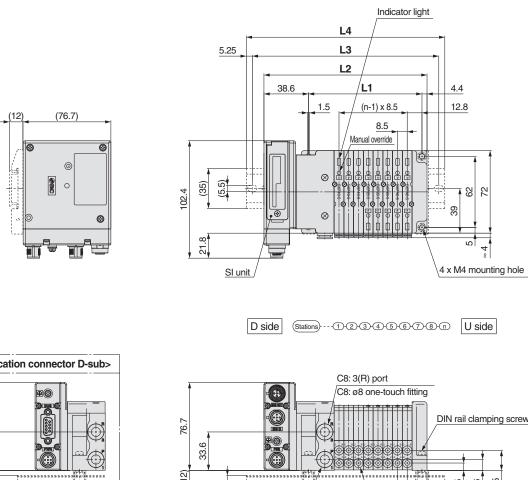
2

Α

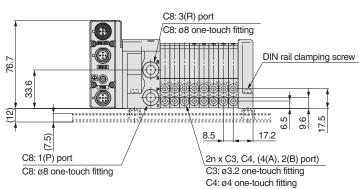
В

С

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

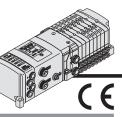


<communication connector="" d-sub=""></communication>
(7.5) (7.5) (7.5) (7.5) (7.5) (7.5)



Dimens	<b>Dimensions</b> 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 <sup>Note 3)</sup> 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.

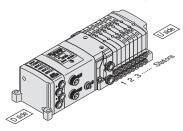
#### <Example>

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

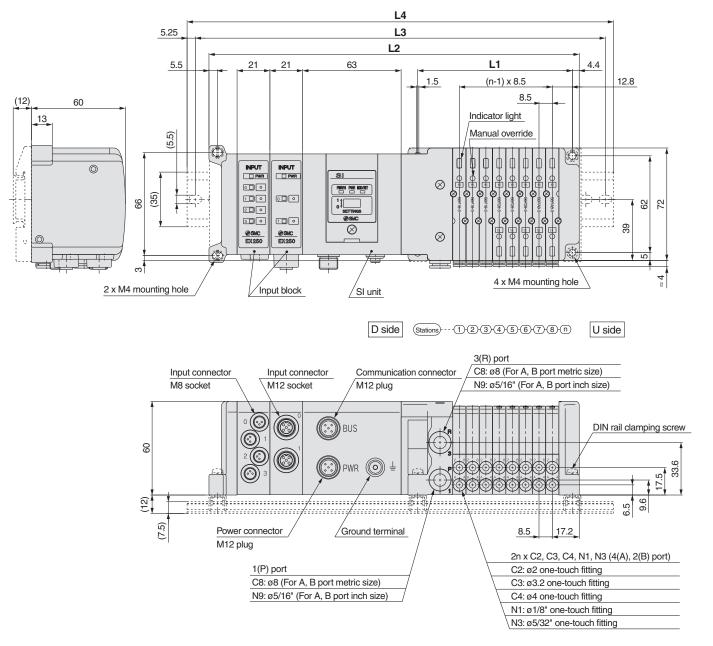
(Except double wiring)

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



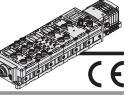
Dimens	sions		Formula L	1 = 8.5n +	31, L2 = 8	put blocks, 21 mm is added per 1 pc.) n: Station (Maximum 24 stations)									
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	186	194.5	203	211.5	220	228.5	237	245.5	254	262.5	271	279.5	288	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** 

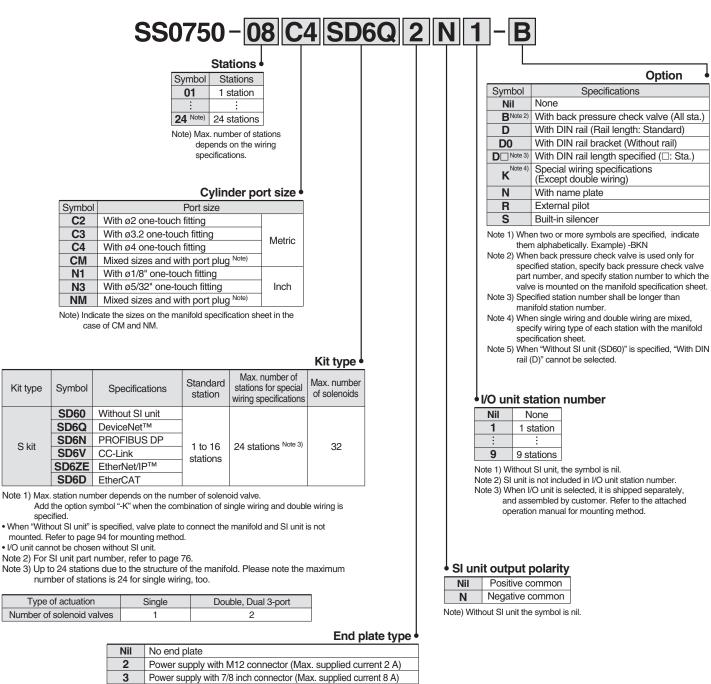
Slim Compact Plug-in Manifold Bar Base

Series S0700 Plug-in Manifold Stacking Base

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



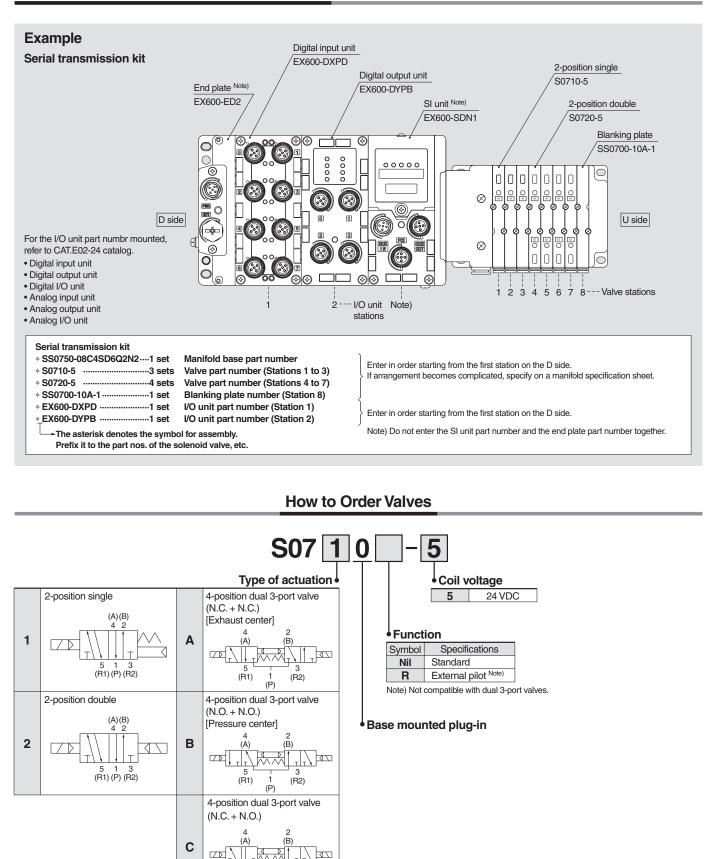
How to Order Manifold



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

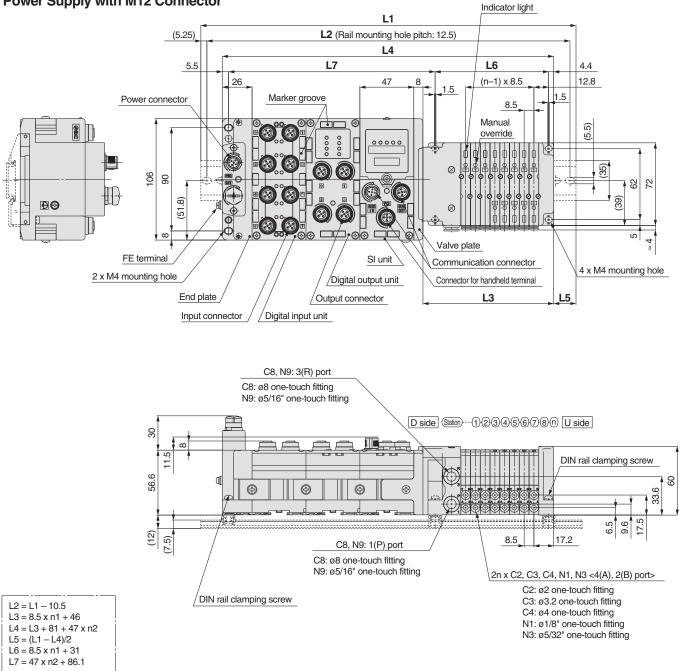
(R2)

# Series S0700 Plug-in Manifold Stacking Base

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

#### Power Supply with M12 Connector

kit (Serial Transmission)

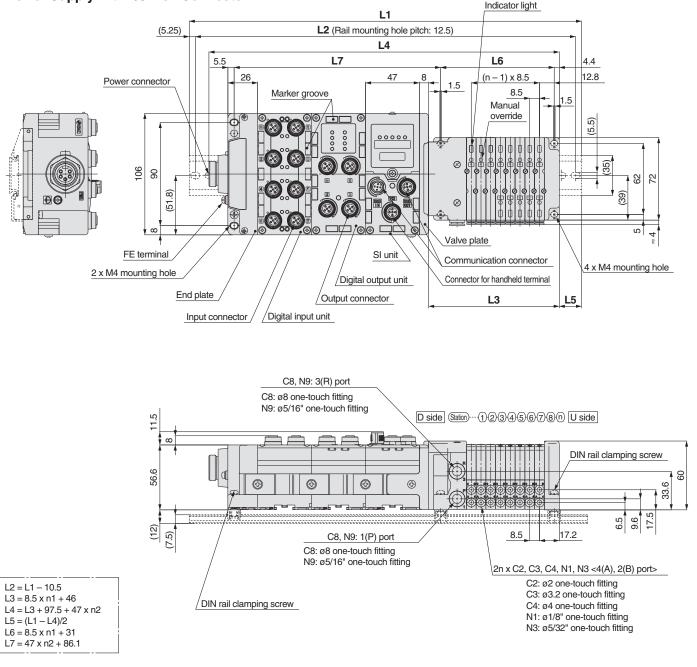


#### L1: DIN Rail Overall Length

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



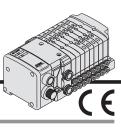
Power Supply with 7/8 Inch Connector

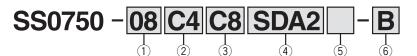


#### L1: DIN Rail Overall Length

			<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

**D**0

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 <sup>™</sup> , PROFIBUS DP, CC-Link, EtherNet/IP <sup>™</sup>	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.

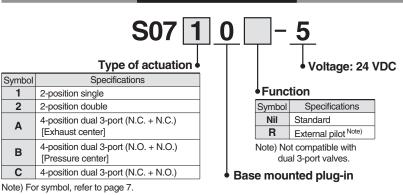
Type of actuation	Single	Double, Dual 3 port
Number of solenoids	1	2

#### (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

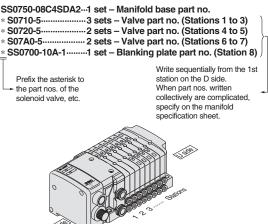
\* For manifold optional parts, refer to pages 69 to 73. \* For manifold exploded view, refer to page 75.

Built-in silencer

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

#### <Example>

Serial transmission kit



Symbol

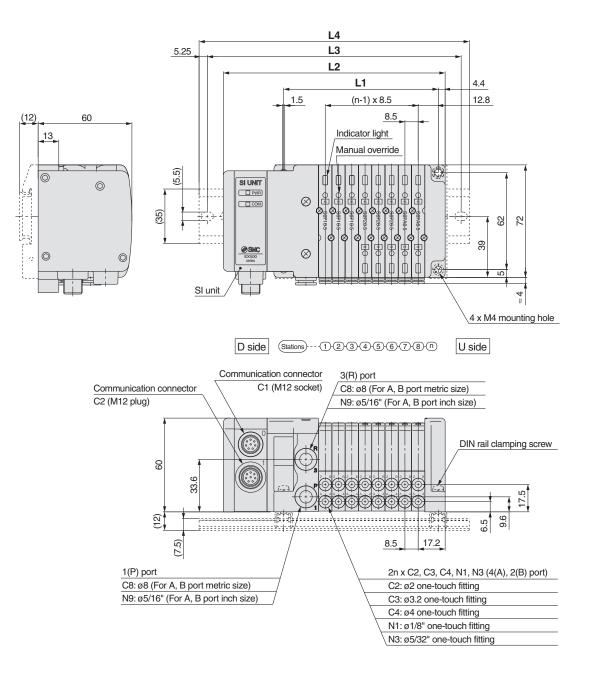
2

Α

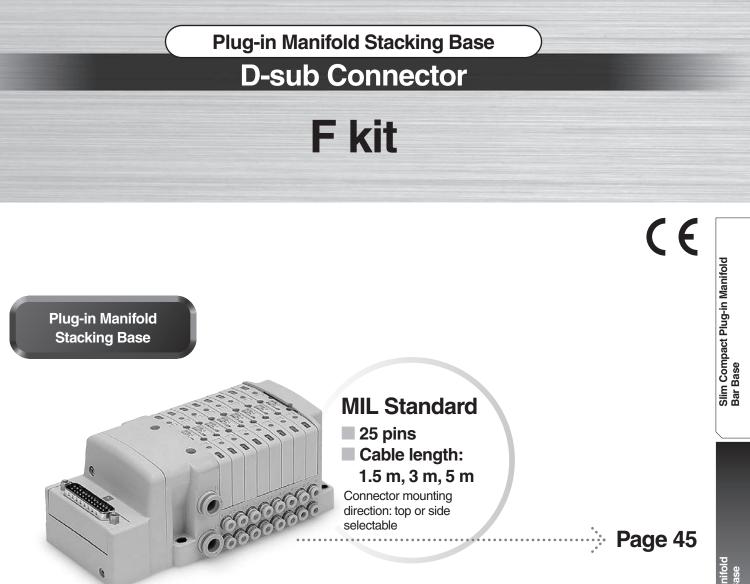
В

С

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



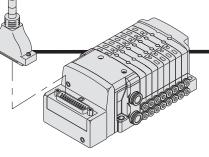
Dimens	sions						Formula L1 = 8.5n + 31, L2 = 8.5n + 74 n: Station (Maximum 16 stations									
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	
L2	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	
L3	112.5	125	137.5	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	



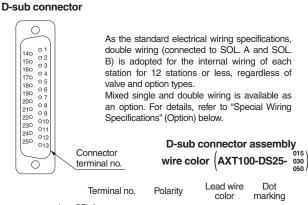
Plug-in Manifold Stacking Base

## 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.

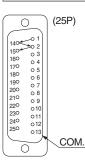


#### **Electrical Wiring Specifications**



			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.

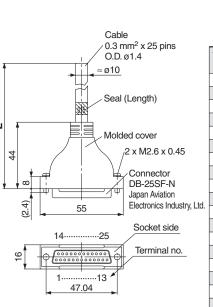
#### 2. Wiring specifications

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

\* For other commercial connectors, use a 25-

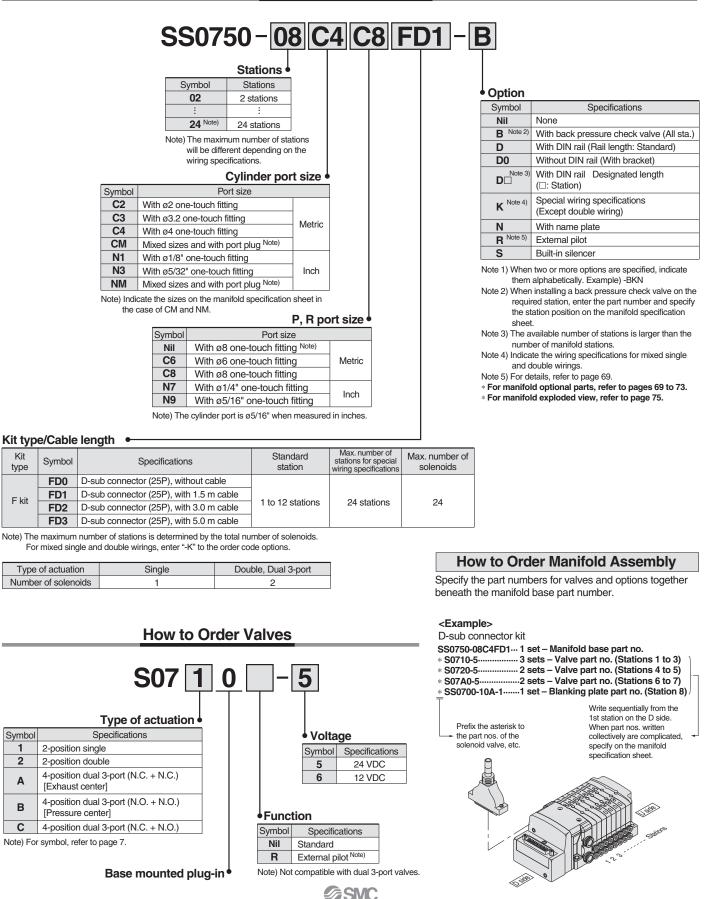
pin type with female connector conforming to MIL-C-24308.

Cannot be used for movable wiring.

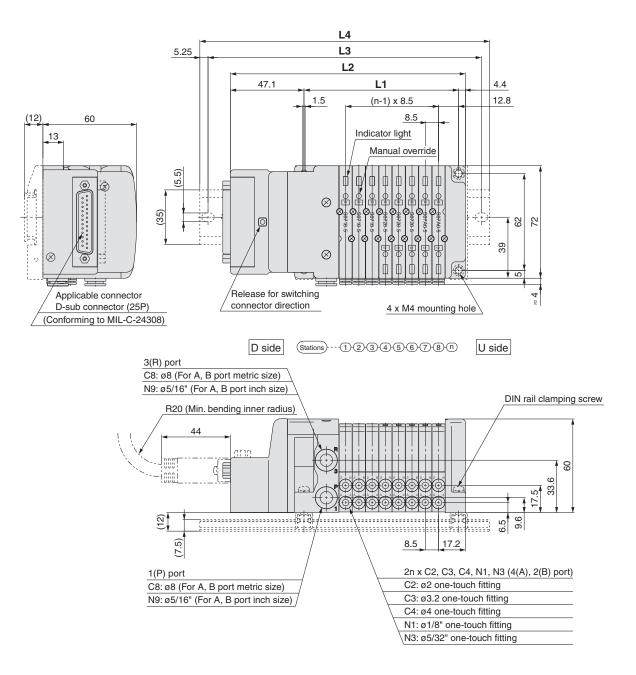
Electrical Cha	racteristics	Connector manufacturers' example							
Item	Property								
Conductor resistance Ω/km, 20°C	65 or less	<ul> <li>Fujitsu Limited</li> <li>Japan Aviation Electronics Industry, Ltd.</li> </ul>							
Voltage limit V, 1 min, AC	1000	<ul> <li>J.S.T. Mfg. Co., Ltd.</li> <li>Hirose Electric Co., Ltd.</li> </ul>							
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



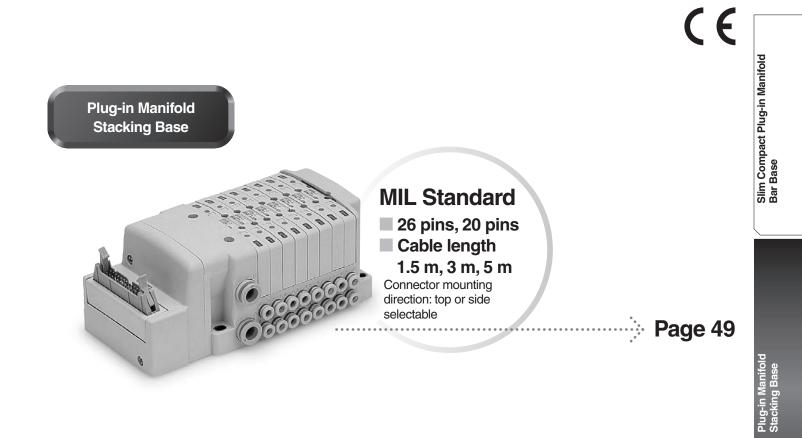
Plug Lead Manifold Bar Base



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

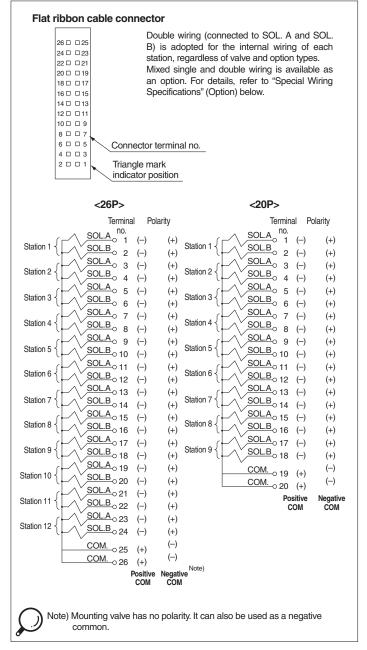


Plug Lead Manifold Bar Base

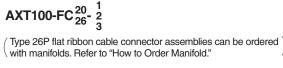
Series S0700 Plug-in Manifold Stacking Base kit (Flat Ribbon Cable)

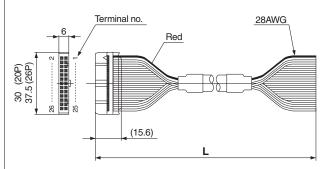
- Flat ribbon cable connector reduces installation labor for electrical connection.
- Using the connector for flat ribbon cable (26P, 20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected 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 <sup>′</sup>	ſ
	18 🗆	□ 17		18 🗆	□17	
	16 🗆	□ 15		16 🗆	□15	
	14 🗆	□ 13		14 🗆	□13	
	12 🗆	0 11		12 🗆	□11	
	10 🗆	□ 9		10 🗆	□9	
	8 🗆	07		8 🗆	□ 7	
	6 🗆	□ 5		6 🗆	□ 5	
	4 🗗	<b>J</b> 3		4 🗗	<b>J</b> 3	
	2 🗗	-01	$\triangleleft$	2 🗗	-01	$\triangleleft$
	(26	SP)		(20	DP)	

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.

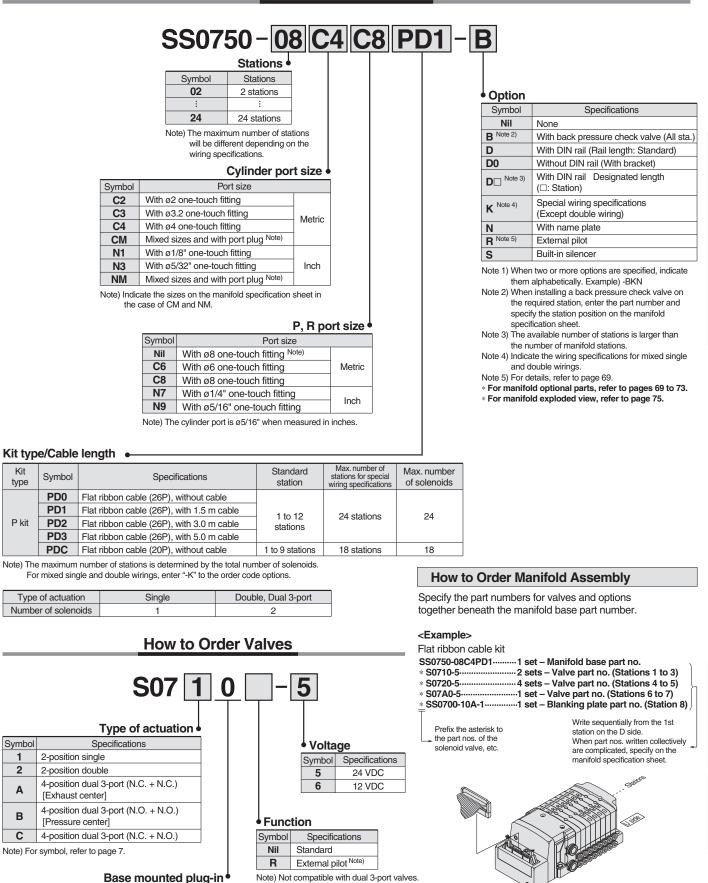
#### 2. Wiring specifications

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

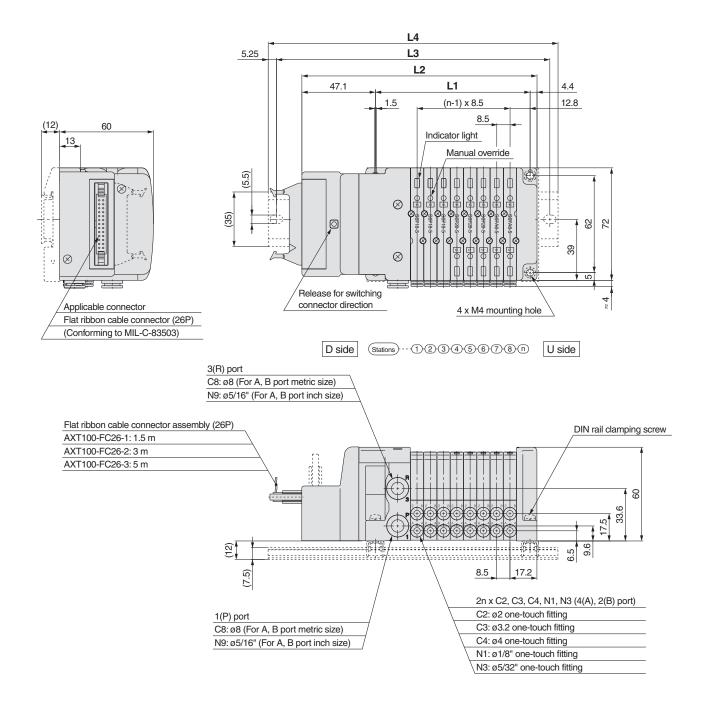
Symbol

2

Α

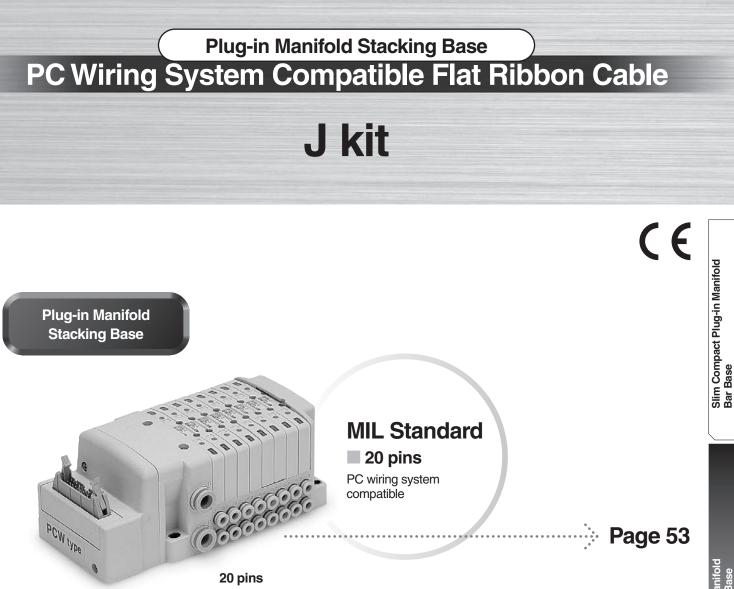
в

С



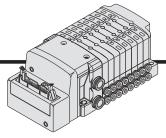
Dimens	Dimensions         Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5         n: Station (Maximum 24 station)												stations)										
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	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)



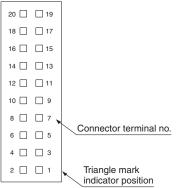
- Compatible with PC wiring system.
- Using connector for flat ribbon cable (20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.

#### **Electrical Wiring Specifications**

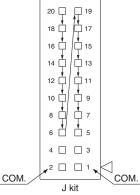
Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types. Mixed single and double wiring is available as an option.

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
[ •		()	(+)
Station 1		()	(+)
		()	(+)
Station 2	O <u>SOL.B_</u> 0 14	()	(+)
Station 3		(-)	(+)
	O 10	(-)	(+)
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	(+)	()
	COM0 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<sup>Note 4)</sup>

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)

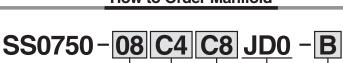
specify the station position on the manifold

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

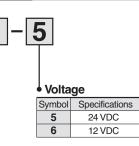
Note 1) For 20P type table assembly of J kit, order it separately.

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

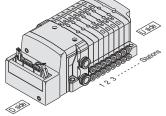
### How to Order Manifold Assembly

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

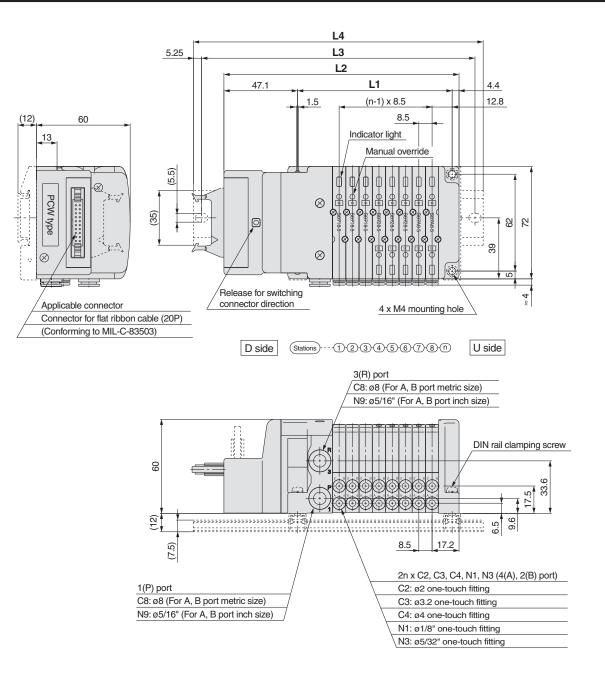
#### <Example>

#### 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)

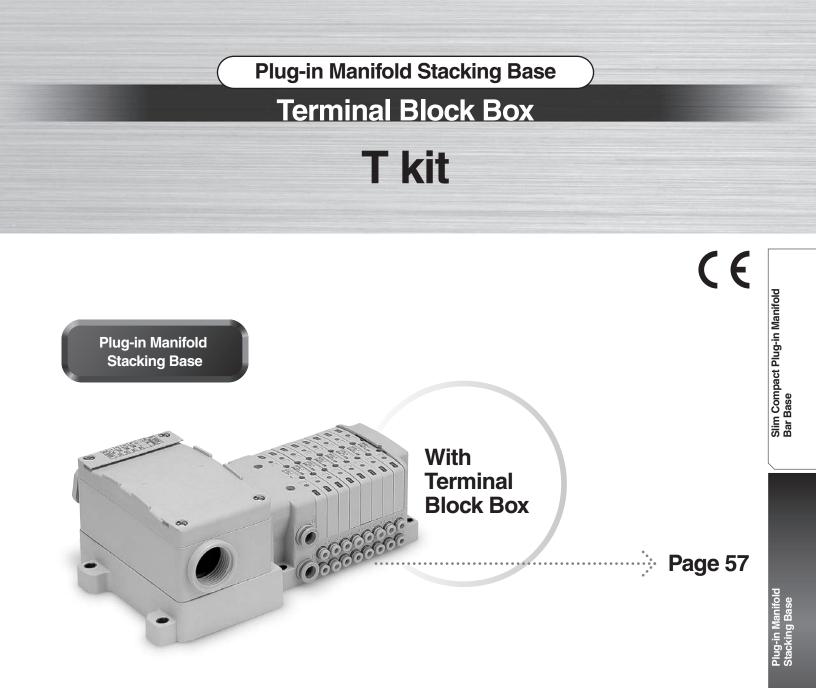
SS0700-10A-11 set - B	lanking plate part no. (Station 8
Prefix the asterisk to the part nos. of the solenoid valve, etc.	Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify on the manifold specification sheet.



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

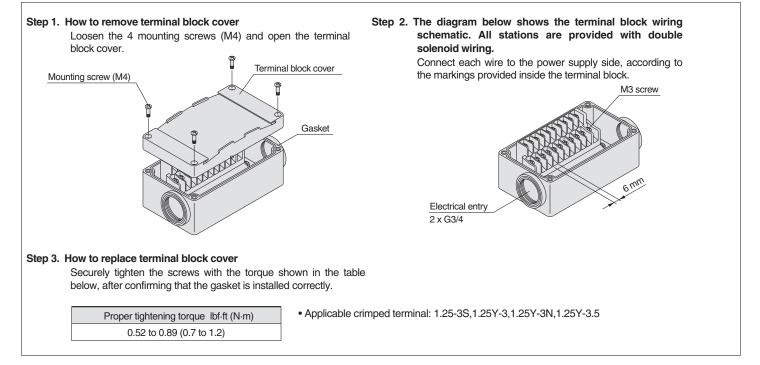


Dimens	sions						Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 16 stations)							6 stations)	
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5
L3	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

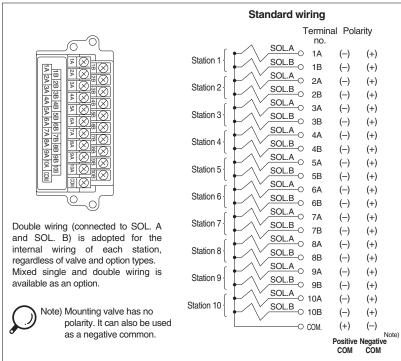


• This kit has a small terminal box inside a junction box. The electrical entry port (G3/4) permits connection of conduit fittings.

#### **Terminal Block Connection**



#### **Electrical Wiring Specifications**



#### Special Wiring Specifications (Option) [-K]

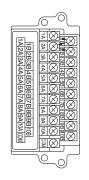
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 20.

#### 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)

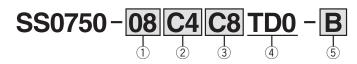
Note 2) When installing a back pressure check valve on the required station, enter the part number and specify the station position on the manifold specification sheet. Note 3) The available number of stations is larger than the number of manifold stations. Note 4) Indicate the wiring specifications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

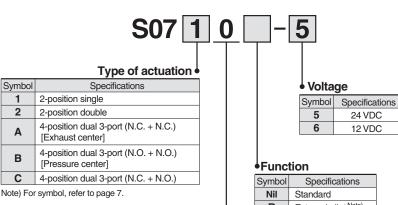
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
T kit	TD0	Terminal block	1 to 10 stations	20 stations	20

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.

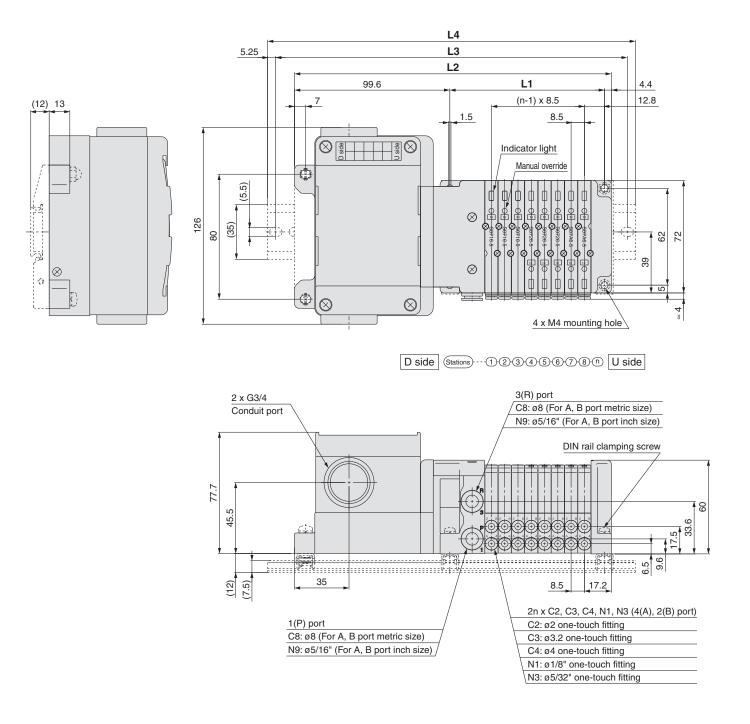
SMC

## How to Order Manifold Assembly

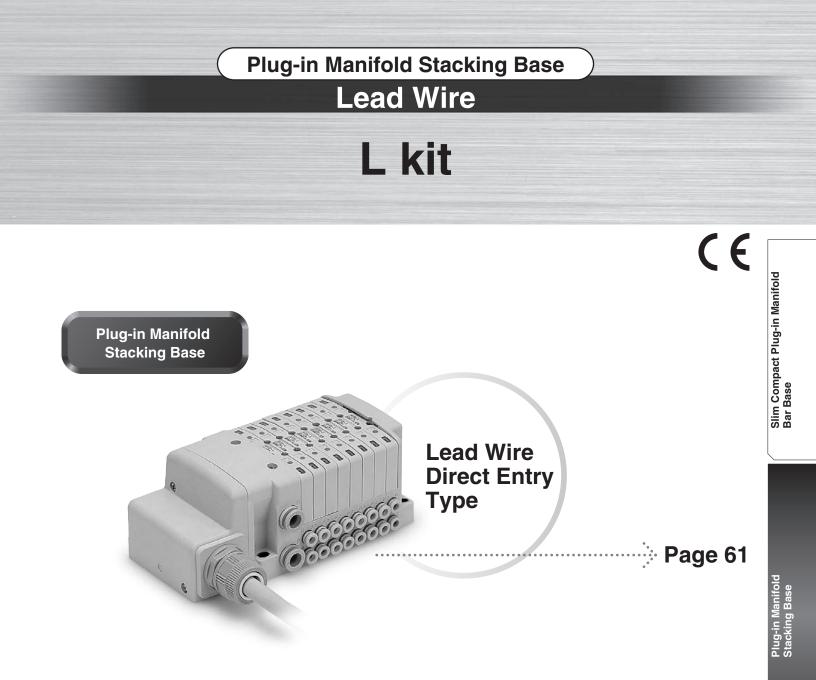
Specify the part numbers for valves and options together beneath the manifold base part number.

<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



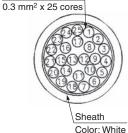
Plug Lead Manifold Bar Base

#### 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 <sub>05</sub>	(-)	(+)	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 <sub>08</sub>	(-)	(+)	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

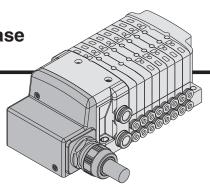
#### Special Wiring Specifications (Option) [-K]

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** 

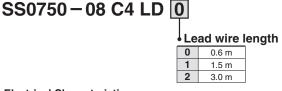
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

#### 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



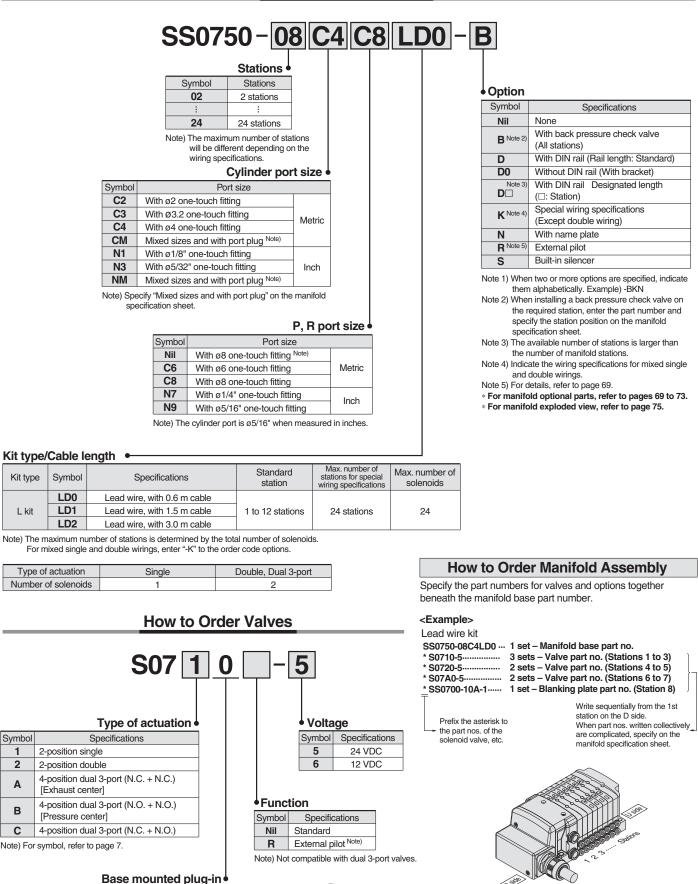
#### **Electrical Characteristics**

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

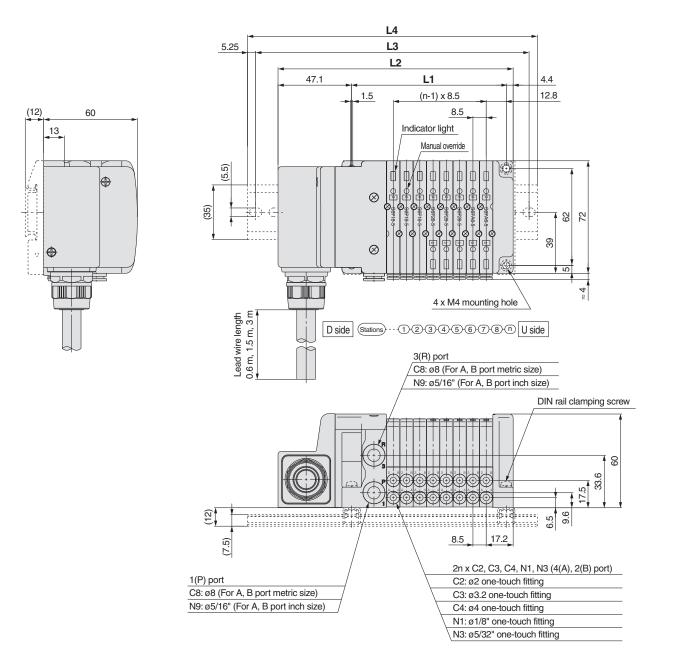
Α

в

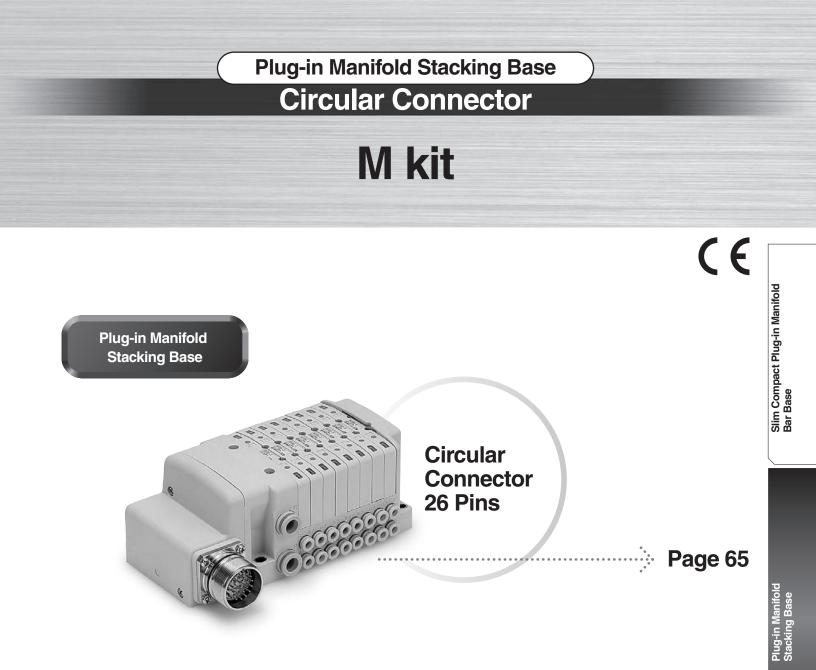
С

62





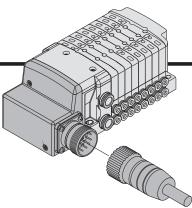
Dimens	sions												F	Formula	ι L1 = 8.	.5n + 31	, L2 = 8	8.5n + 8	2.5 n:	Station	(Maxim	um 24 s	stations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	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**

~24<sup>(16)</sup>

25

26

9 (8) (7

10 21 20

17

6

14

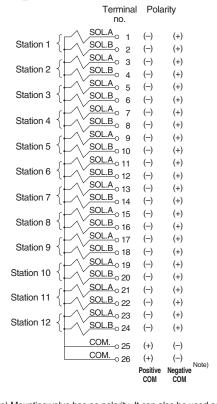
(13)

12 23

11 2

Circular connector Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of 15 1 2 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.



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.

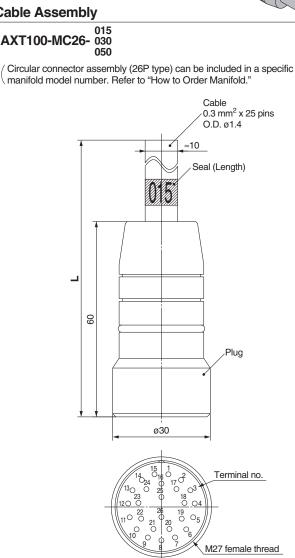
#### 1. How to Order valves

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 Assembly**

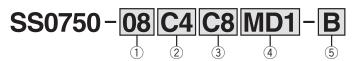


#### Circular Connector Cable Assembly (Option)

Ouble Asserti												
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	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	V7 With ø1/4" one-touch fitting				
N9	Inch				

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

#### (4) Kit type/Cable length

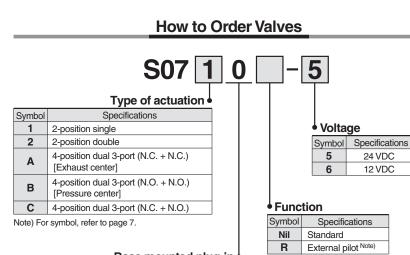
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	MD0	Circular connector (26P), without cable			
NA L-S	MD1	Circular connector (26P), with 1.5 m cable	1 +- 10 -+-+		0.1
M kit	MD2	Circular connector (26P), with 3.0 m cable	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□ <sup>Note 3)</sup> 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

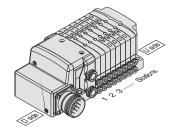
Circular connector kit

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

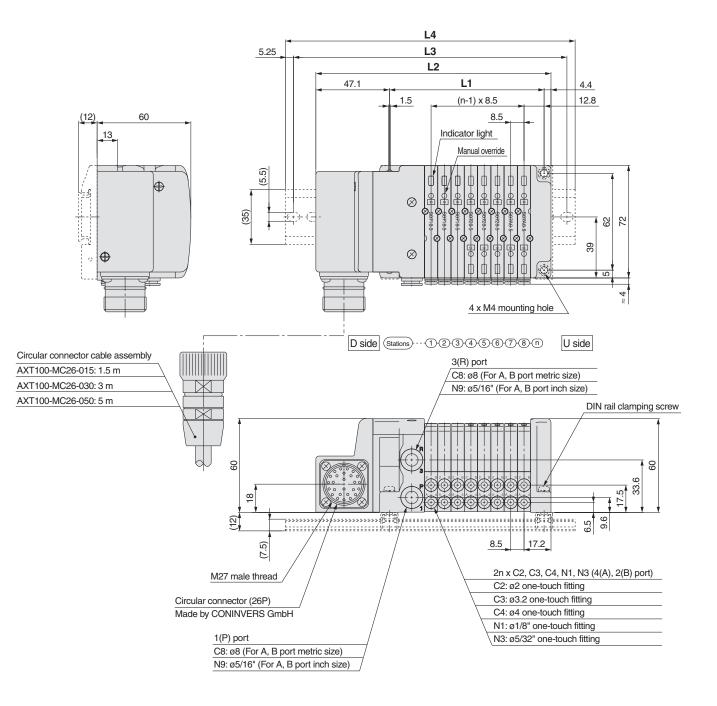
- \* S0710-5...... 3 sets Valve part no. (Stations 1 to 3)
- S0720-5------2 sets Valve part no. (Stations 4 to 5) S07A0-5------2 sets Valve part no. (Stations 6 to 7)
- SS0700-10A-1.....1 set Blanking plate part no. (Station 8)
  - Write sequentially from the 1st station on the D side.
  - Prefix the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

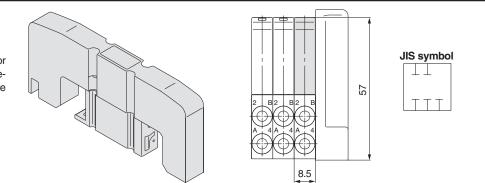
**Manifold Optional Parts** 

#### **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

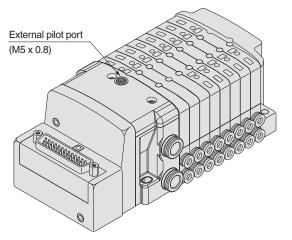
### Direct EXH outlet with built-in silencer [-S]

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)



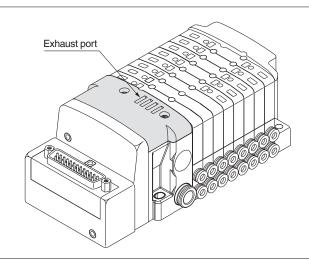
Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.

- 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.

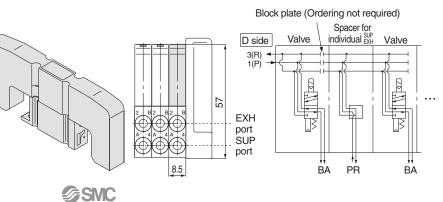


#### Individual SUP/EXH spacer

#### 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

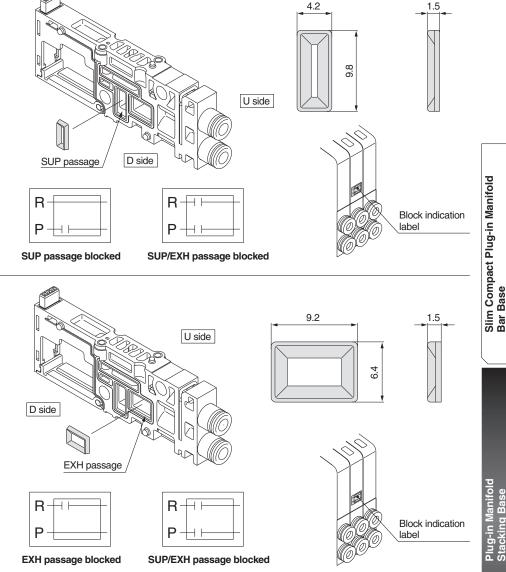
### Back pressure check valve [-B]

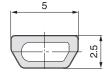
#### SS0700-7A-1

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

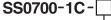
2. When a back pressure check valve is mounted, the effective area of the valve will decrease by about 20%.

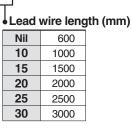


Plug Lead Manifold Bar Base

# 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.

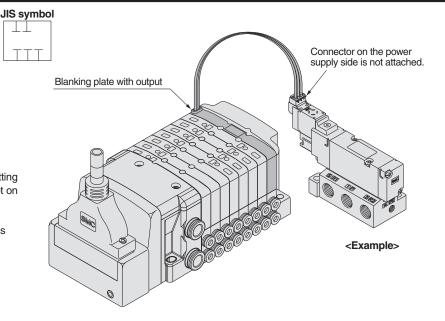
- Note 1) Electric current should be 0.5 A or less. (Including the mounted valves) When the current is output from two positions at the same time, the current should be 0.25 A or less.
- Note 2) Please consult with SMC for the max. allowable current for serial transmission kit.

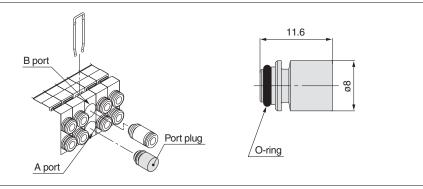
Weight: 34 g

### Port plug VVQ0000-CP

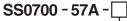
The plug is used to block the cylinder port when using a 5-port valve as a 3-port valve.

\* 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

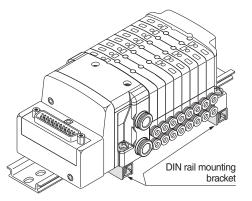


<u> </u>	
Symbol	Specifications
Nil	S(EX260/600/ 500), F, P, J, L, M kit
S	S(EX250) kit
Т	T kit

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.



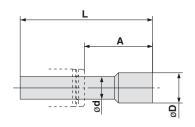
#### Blanking plug (For one-touch fittings)





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 <b>d</b>	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

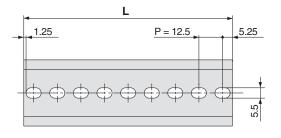
Optional symbol (alphabetically) DIN rail for 9 stations

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

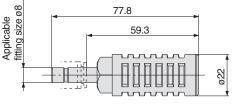
L Dimensio	n								L=	$12.5 \times n + 10.5$
No.	1	2	3	4	5	6	7	8	9	10
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5
No.	11	12	13	14	15	16	17	18	19	20
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30
L dimension	273	285.5	298	310.5	323	335.5	348	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

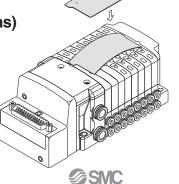
Model	Effective area (mm <sup>2</sup> ) (Cv factor)	Noise reduction (dB)	
AN200-KM8	20 (1.1)	30	l

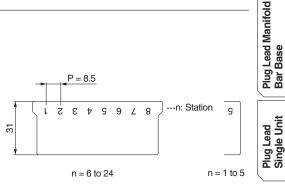
### Name plate [-N]

### 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**

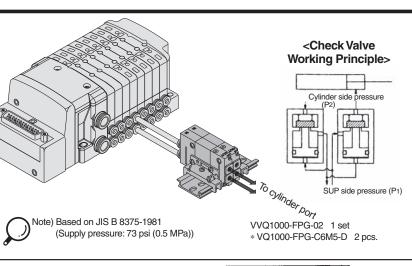
### **Double check block (Separated)**

### **VQ1000-FPG-**

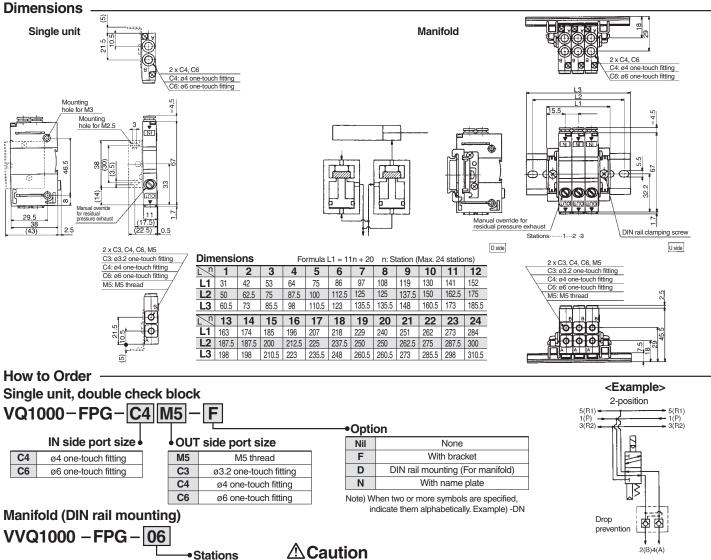
It is used on the outlet side piping to keep the cylinder in the intermediate position for long periods of time. Combining the double check block with a built-in pilot type double check valve and a 2-position single/double solenoid valve will permit this block to be used for preventing the dropping at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

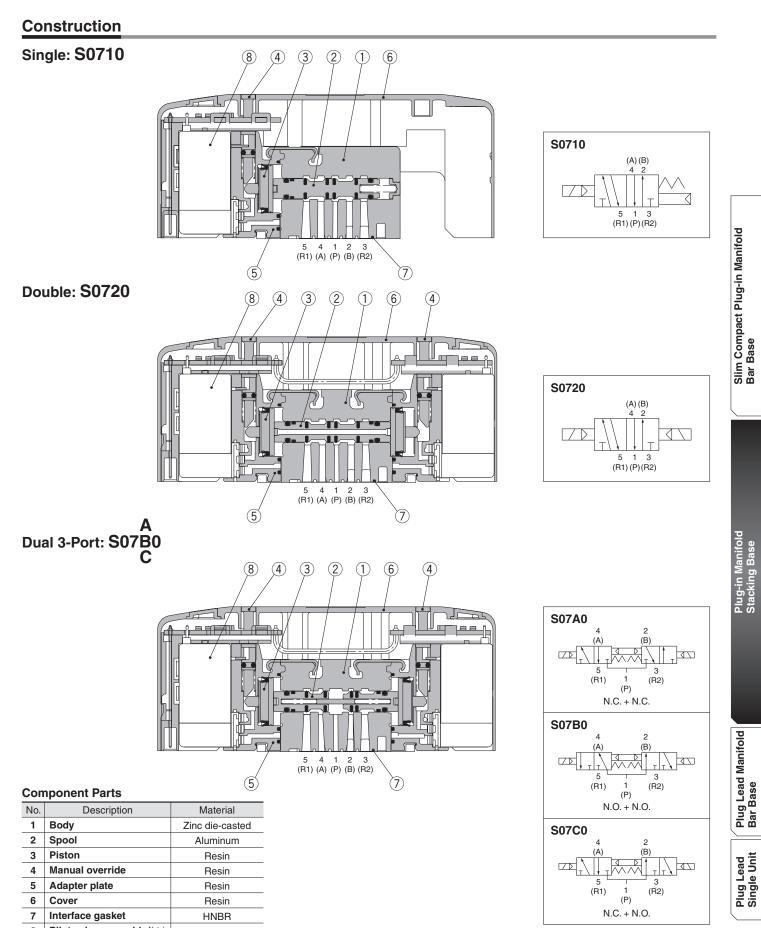
0.16 to 0.18 lbf.ft (0.22 to 0.25 N·m)

block

1 station

16 16 stations

### Plug-in Manifold Stacking Base Series \$0700

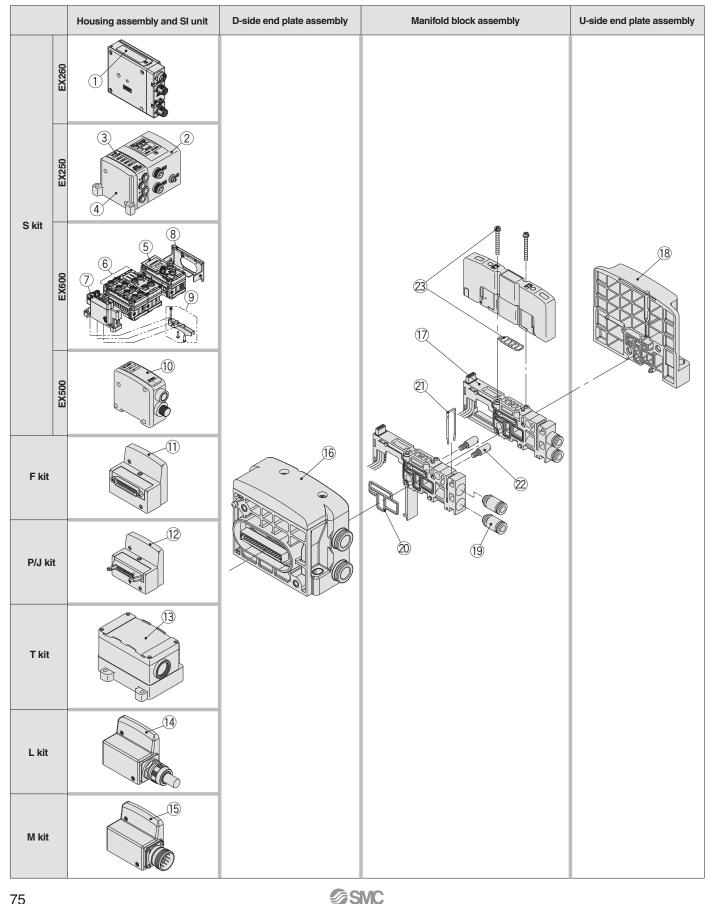


**SMC** 

8 Pilot valve assembly Note) \_\_\_\_

Note) Please consult with SMC for pilot valve replacement.

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

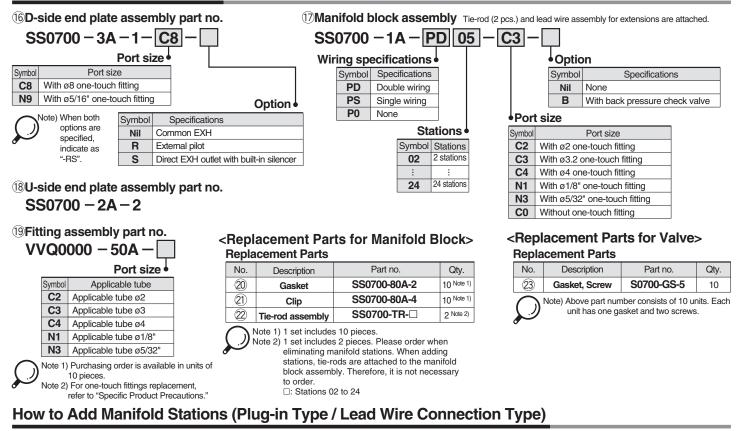


### Manifold Assembly Part No.

No.			
	Description	Part no.	Note
		EX260-SDN1	DeviceNet <sup>™</sup> M12 connector, 32 outputs, Negative common (PNP)
		EX260-SDN1 EX260-SDN2	DeviceNet™ M12 connector, 32 outputs, Positive common (NPN)
			DeviceNet <sup>™</sup> M12 connector, 16 outputs, Negative common (NPP)
		EX260-SDN3	DeviceNet <sup>1</sup> 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 <sup>™</sup> 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 <sup>™</sup> Negative common (PNP)
		EX600-SDN2A	DeviceNet <sup>™</sup> 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
۲		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
<ul> <li></li> </ul>	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-AYA 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, 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-AYA 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 2 A, with DIN rail mounting bracket           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-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-ED3 EX600-ED3 EX600-ED3 EX600-ED3-2 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, 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 pins, Max. supplied current 8 A           7/8 inch connector, 7 pins, Max. supplied current 8 A           7/8 inch connector, 9 pins, Ma
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-ZMA2 EX500-Q010 EX500-Q010 EX500-ZMA2 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-ZMA2 EX500-Q010 EX500-ZMA2 EX500-Q010 EX500-Q010 EX500-Q010 EX500-ZMA2 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-Q010 EX500-ZMA2 EX500-Q010	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 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 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.



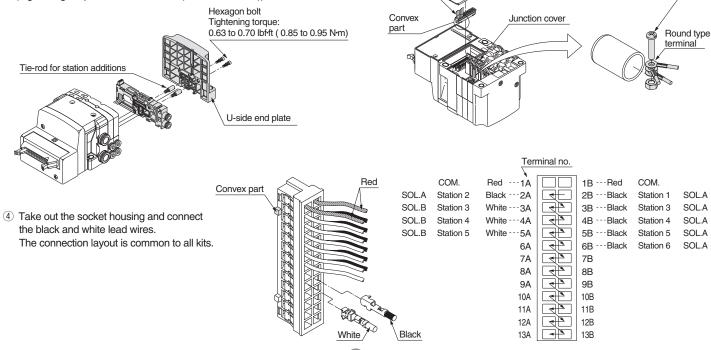
### What to order

• 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))

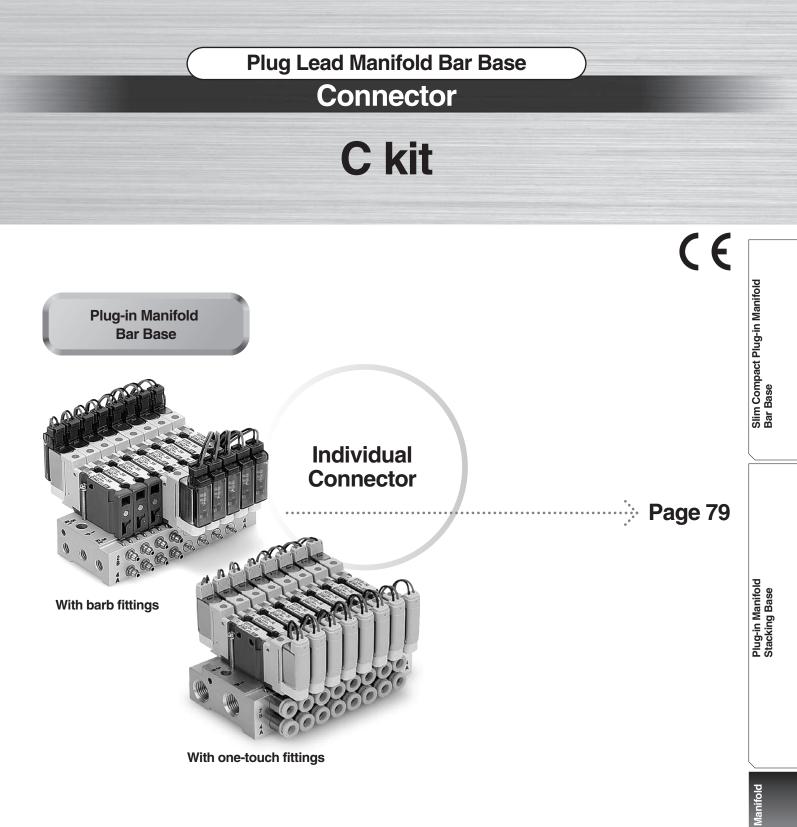


③ Connect the round type terminal of red lead wire to the common terminal inside the junction cover.

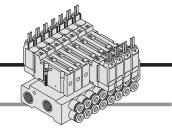
Tightening torque:

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

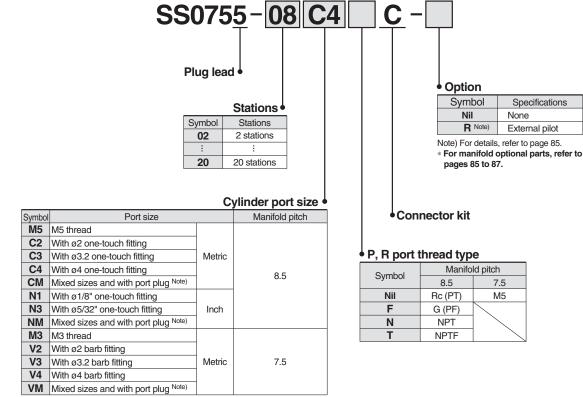
7.5

M5

Nil

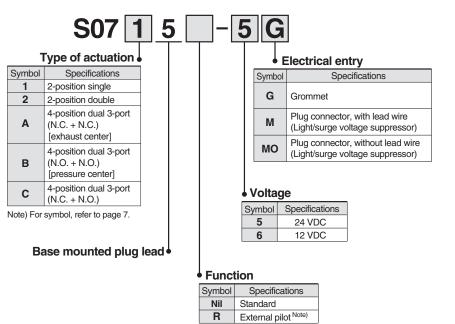
R Note)

### How to Order Manifold

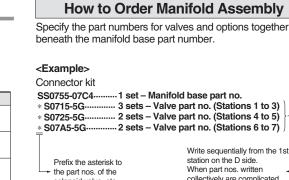


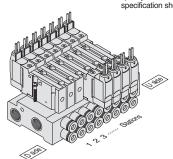
Note) Specify "Mixed sizes and with port plug" on the manifold specification sheet.

### How to Order Valves



Note) Not compatible with dual 3-port valves.

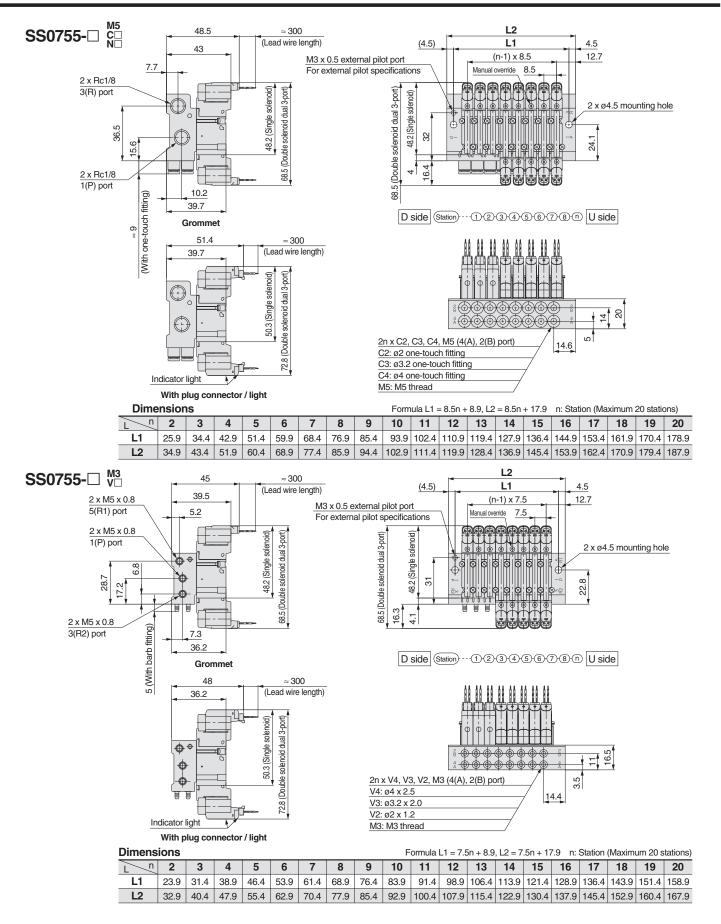


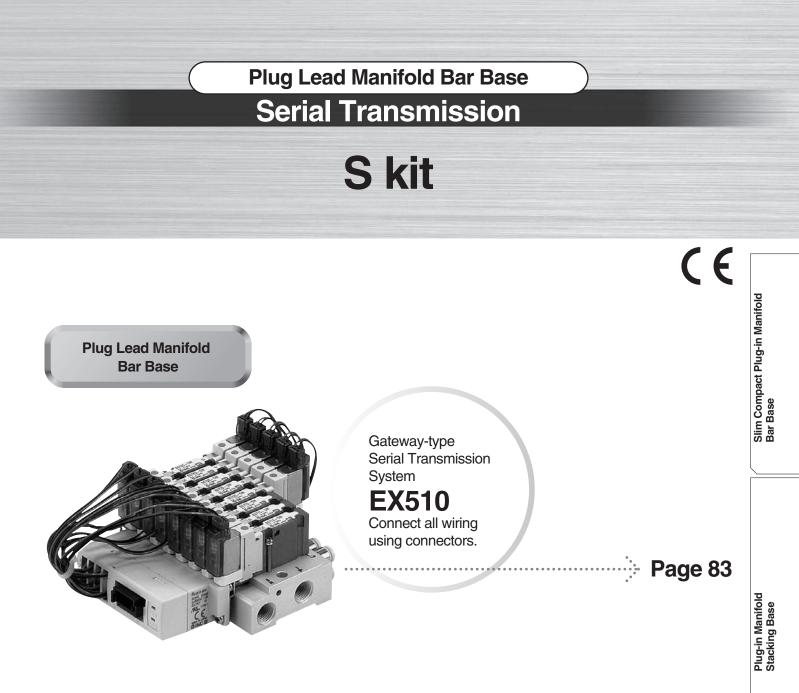


solenoid valve etc.

collectively are complicated, specify on the manifold specification sheet.





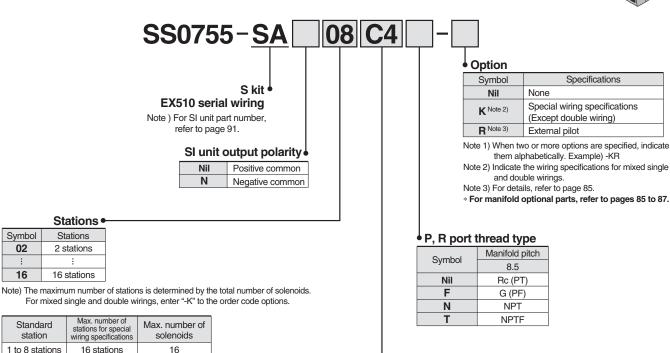


Plug Lead Manifold Bar Base Series S0700 Plug Lead Manifold Bar Base kit (Serial Transmission) EX510 Gateway-type Serial Transmission System

Double, Dual 3-port

2

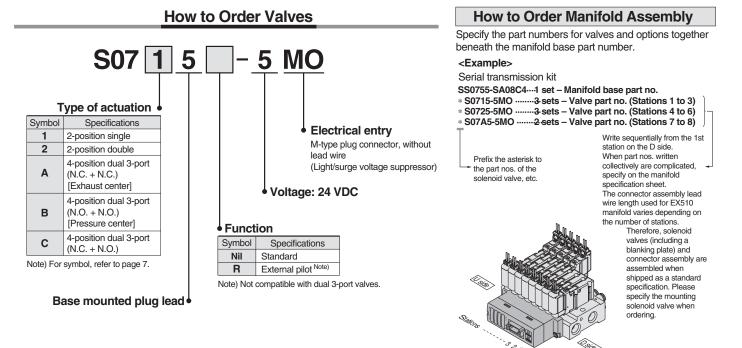
How to Order Manifold



#### 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

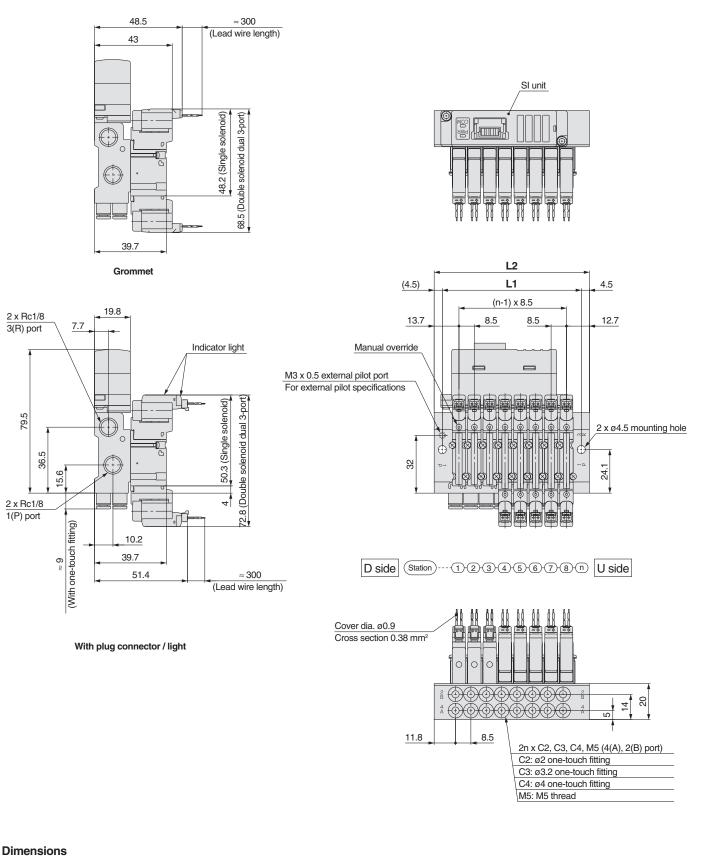
Transmission System.

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.

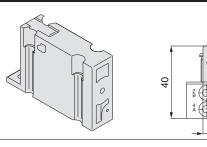


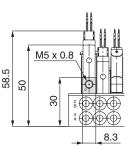
This can be used when the air pressure is 14.5 to 29 psi (0.1 to 0.2 MPa) lower than the minimum operating pressure of the solenoid valves or used for vacuum specifications.

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

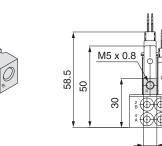
An M5 port will be installed on the top side of the manifold's SUP/EXH block.

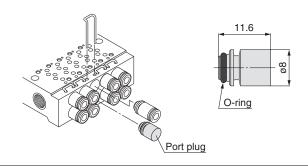
- How to Order Valves (Example)
- S0715 <u>R</u> -5G
  - External pilot
- How to Order Manifold (Example)
- \* Indicate -R for an option. SS0755-08C4C-R
  - - External pilot

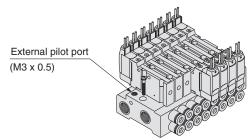




8.3

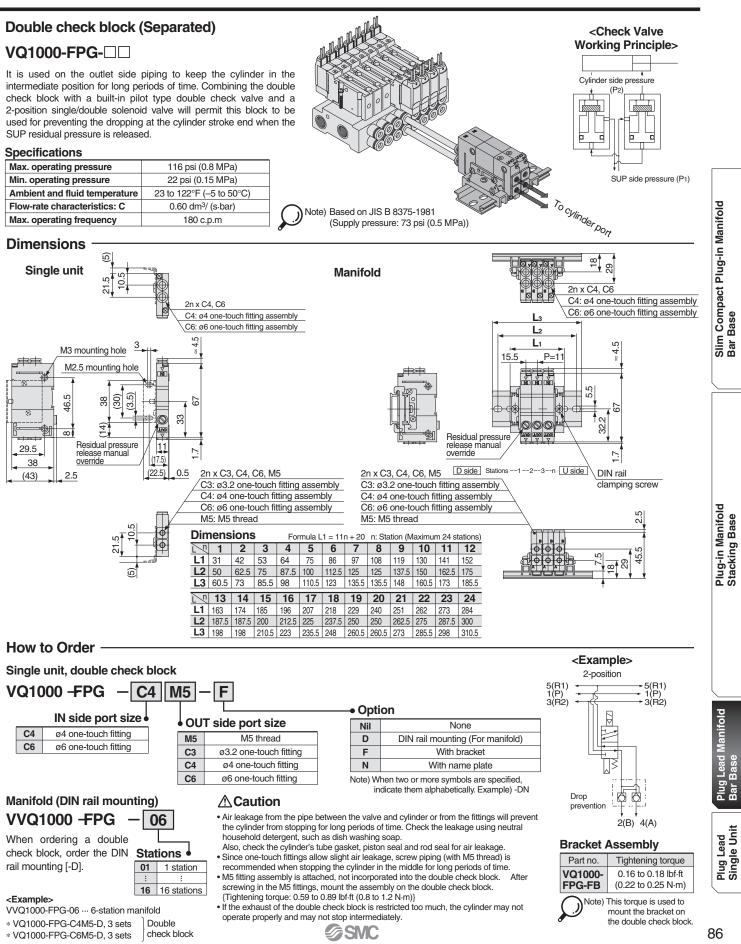






- Note 1) The dual 3-port valve is not available.
- Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specifications of the external pilot valve.
- Note 3) Valves with the external pilot have a pilot EXH with individual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

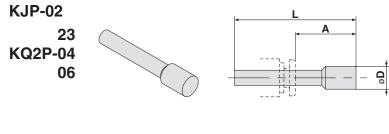
### **Plug Lead Manifold Bar Base** EX510 Gateway-type Serial Transmission System Series S0700



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

### Blanking plug (For one-touch fittings)



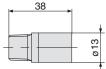
Dimensions					(mm)
Applicable fitting size ø <b>d</b>	Model	Α	L	D	Weight (g)
2	KJP-02	8.2	17	3	0.1
3.2	KQ2P-23	16	31.5	3.2	1
4	KQ2P-04	16	32	6	1
6	KQ2P-06	18	35	8	1

### Silencer (For manifold EXH port)

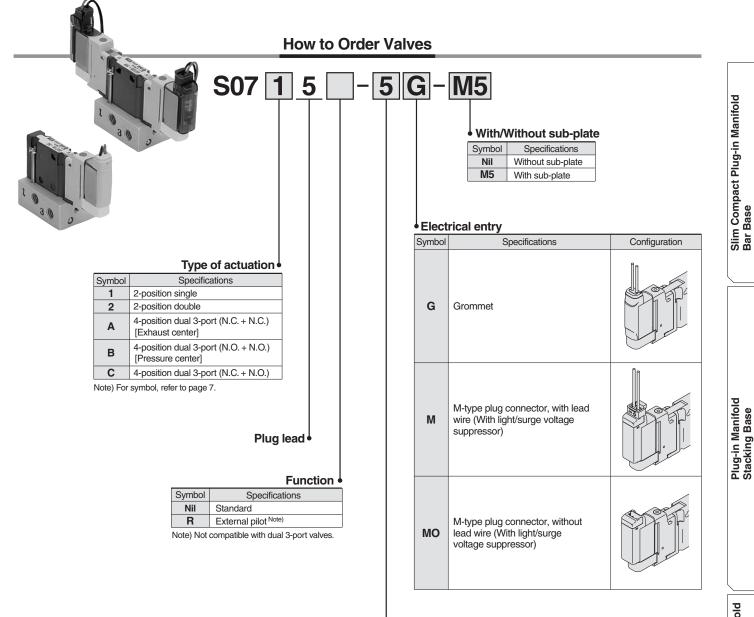
### AN110-01

Silencer is installed in the EXH port.





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



Voltage

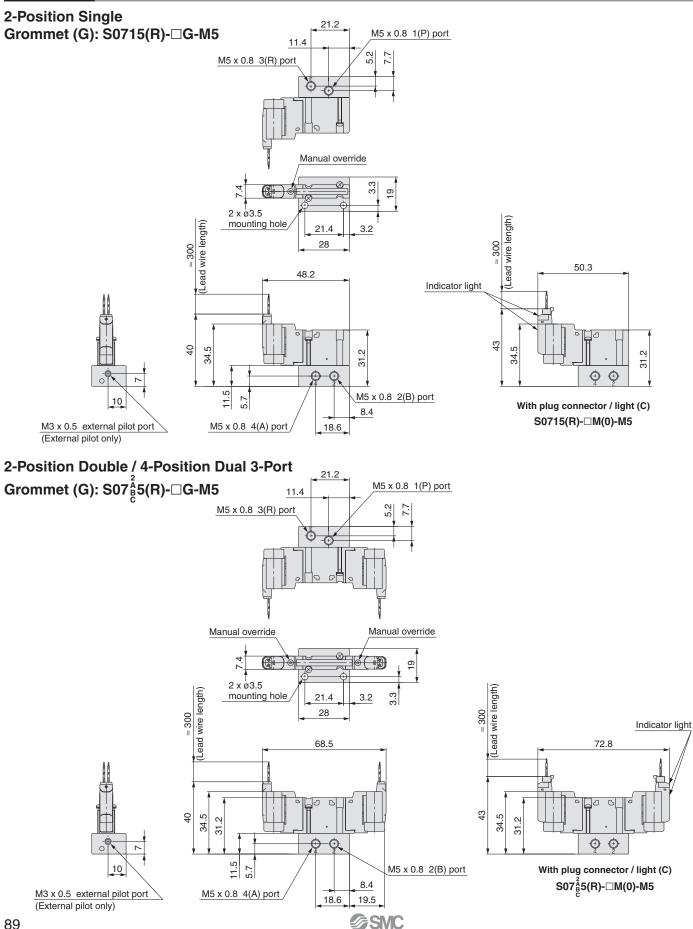
**SMC** 

Symbol	Specifications				
5	24 VDC				
6	12 VDC				

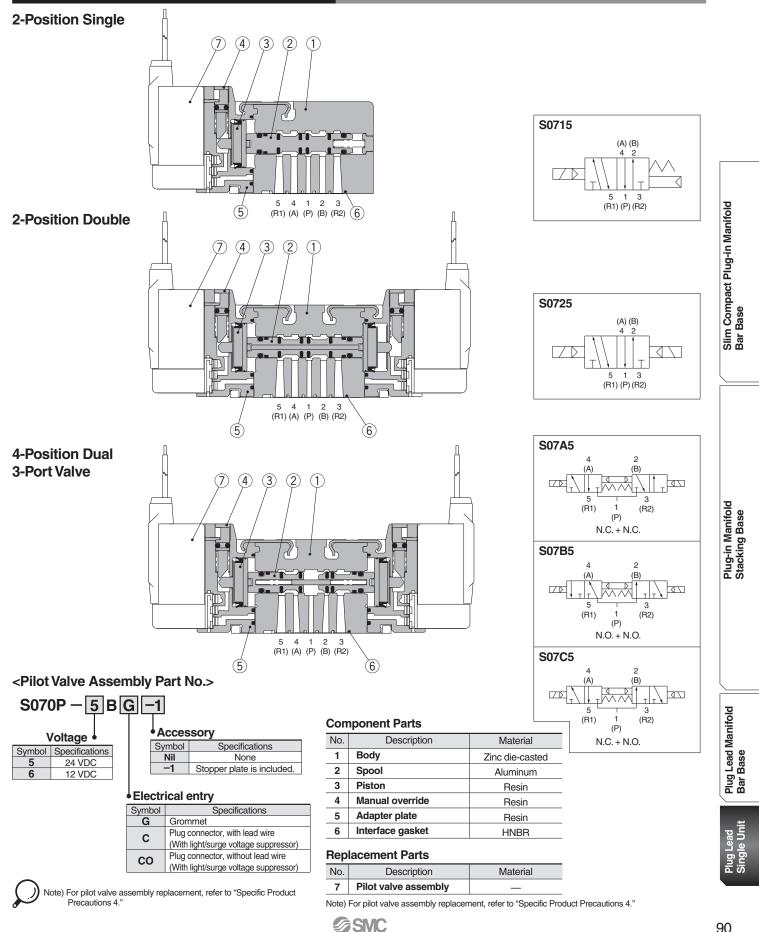
Plug Lead Plug Lead Manifold Single Unit Bar Base

### 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

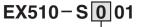


Note) Above part number consists of 10 units. Each unit has one gasket and two screws.

### <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.

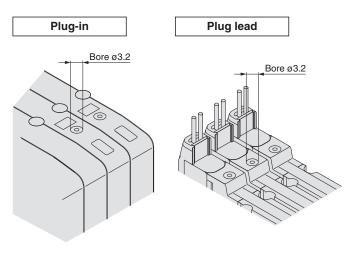
#### Manual Override

### **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.

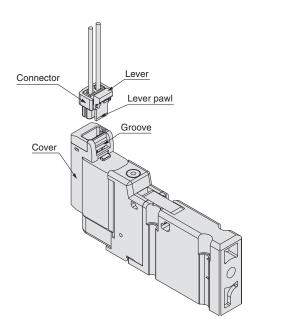


#### How to Attach/Detach Plug Connector

#### <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.

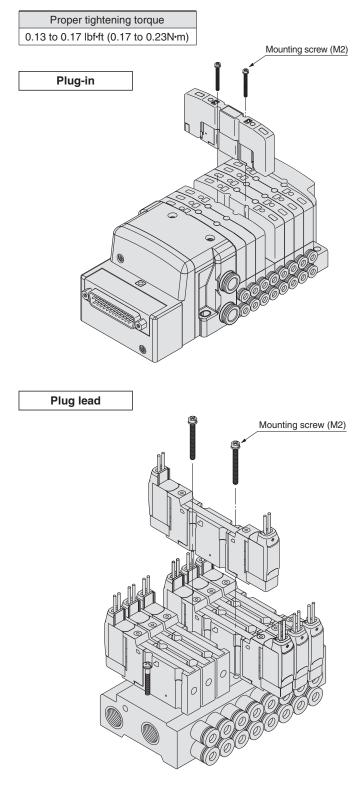
To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.



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.

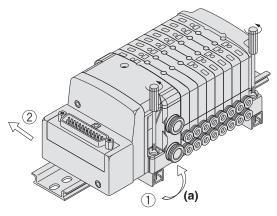
#### How to Mount/Remove DIN Rail

### **Caution**

Plug-in

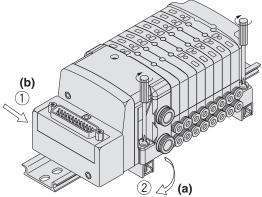
#### Removal

- 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).



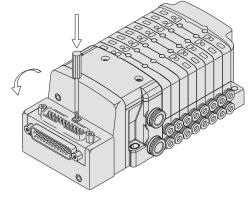
### How to Change Connector Entry Direction

### **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>

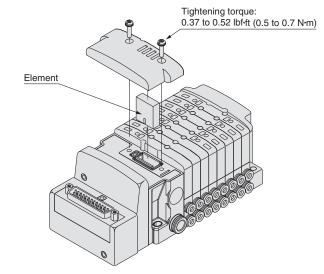
A silencer element is incorporated in the end plate on both sides of the base. A dirty and choked element may reduce cylinder speed or cause a malfunction. Clean or replace the dirty element.

#### 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.

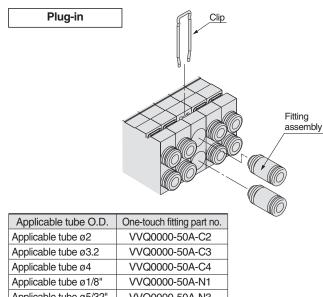
Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) for 3/4/5 Port Solenoid Valve Precautions.

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.

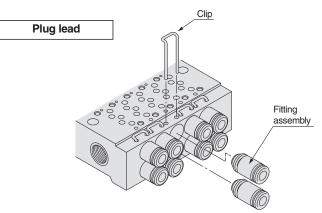
Remove the clip with a flat blade screwdriver to remove fittings. For replacement, insert the fitting assembly until it strikes against the inside wall and then re-insert the clip to the specified position.



Applicable tube ø5/32" VVQ0000-50A-N3

\* Part number is for one fitting assembly.

\* Please order it in units of 10 pieces.



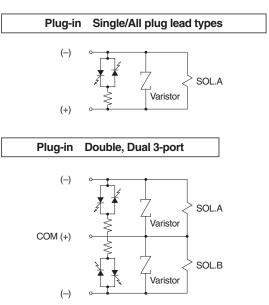
	Applicable tube O.D.	Fitting part no.
	Applicable tube ø2	VVQ0000-50A-C2
0 E nom nitch	Applicable tube ø3.2	VVQ0000-50A-C3
8.5 mm pitch (One-touch fitting)	Applicable tube ø4	VVQ0000-50A-C4
(One-touch itting)	Applicable tube ø1/8"	VVQ0000-50A-N1
	Applicable tube ø5/32"	VVQ0000-50A-N3
7 E nono nitoh	Barb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

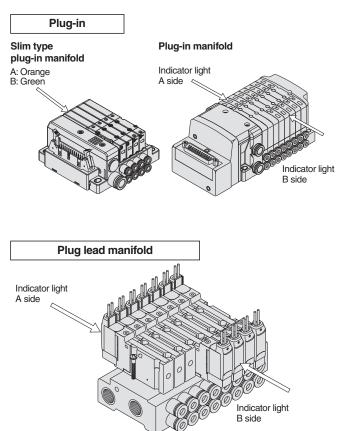
### 

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

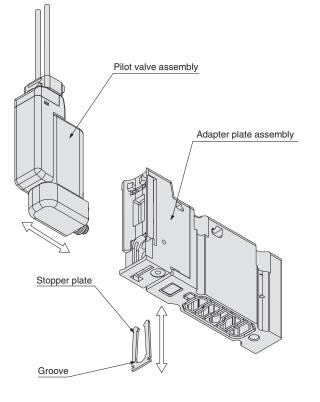
#### <Plug lead>

#### 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.

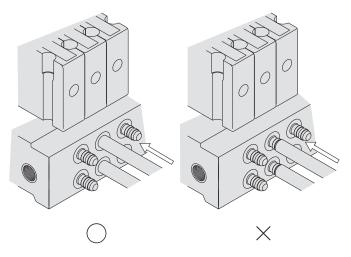


#### How to Connect Tubing

### **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.

### **A**Caution

- 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

### **A**Caution

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

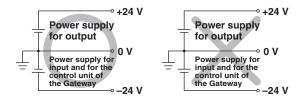
#### **Design/Selection**

### **A**Warning

- 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.

### **A**Caution

- 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

### **A**Caution

- 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.

### **A** Caution

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.

### **A**Caution

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**

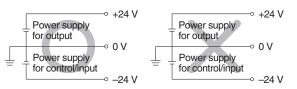
**Design/Selection** 

### **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.

### **A**Caution

- 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

### A 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.

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**

### 🗥 Warning

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**

### A 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.

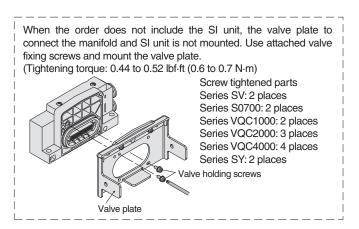
#### <Handheld Terminal>

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

### **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

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# 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?	<ol> <li>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.</li> </ol>	Replace the valve.     Purify the air source.     (Refer to Best Pneumatics No. 1.)
		<ol> <li>Pressure drop The pressure of the air source decreases and fails to reach the minimum operating pressure of the valve, resulting in operating failure.</li> </ol>	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?	<ol> <li>Electric system error</li> <li>Sequencer failure</li> <li>Incorrect wiring</li> <li>Open fuse and lead wire disconnection</li> <li>Voltage drop</li> </ol>	Check each item and take applicable measure.
not been changed.	VES	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.
		<ol> <li>Current leakage The product does not shift from off to on due to the residual voltage.</li> </ol>	Check the residual voltage, which shall be 2% or less of rated voltage.
		<ul> <li>3) Pilot valve failure</li> <li>Foreign matter from the air source has entered the inside of the pilot valve and has caused operating failure.</li> <li>Open coil circuit</li> </ul>	Replace the pilot valve assembly. <part assembly="" no.="" of="" pilot="" valve=""> S070P- 5 B C CO Purify the air source. (Refer to Best Pneumatics No. 1.)</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.		<ol> <li>Clogging of the filter element of the manifold</li> </ol>	Clean or replace the element.
		<ol> <li>Foreign matter from the air source has entered the main valve and has caused slide failure and sticking.</li> </ol>	<ul> <li>Replace the valve.</li> <li>Purify the air source. (Refer to Best Pneumatics No. 1.)</li> </ul>

### 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>
Ainlaskons	2. Air leakage from the one-touch fitting	<ul><li>2-1) The tube did not bottom out.</li><li>2-2) The tube had a flaw.</li><li>2-3) The tube end was cut uneven.</li></ul>	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&gt; VVQ0000-50A-C2 VVQ0000-50A-C3 VVQ0000-50A-C4 VVQ0000-50A-N1 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.
<ul> <li>Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.</li> <li>Warning: Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.</li> <li>Danger : Danger : Danger : Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.</li> </ul>	<ul> <li>*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)</li> <li>ISO 10218-1: Manipulating industrial robots - Safety. etc.</li> </ul>
⚠Warning	<b>∆</b> Caution
<ol> <li>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.</li> <li>Only personnel with appropriate training should operate machinery and equipment.</li> <li>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.</li> <li>Do not service or attempt to remove product and machinery/equipment until safety is confirmed.</li> <li>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.</li> <li>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.</li> <li>Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.</li> <li>Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.</li> <li>I. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.</li> <li>Installation on equipment in conju</li></ol>	<ol> <li>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.</li> <li>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.</li> <li>Limited warranty and Disclaimer and "Compliance Requirements." Read and accept them before using the product.</li> <li>Limited warranty period of the product is 1 year in service or 1.5 years after the product is delivered.<sup>42)</sup> Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.</li> <li>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.</li> <li>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.</li> </ol>
<ul> <li>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.</li> <li>3. An application which could have negative effects on people, property, or animals requiring special safety analysis.</li> <li>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.</li> </ul>	<ol> <li>Compliance Requirements</li> <li>The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.</li> <li>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.</li> </ol>
	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/IP<sup>TM</sup> and EtherCAT are added as supported network types for EX600 (For Input/Output) for Serial Transmission System.

QO

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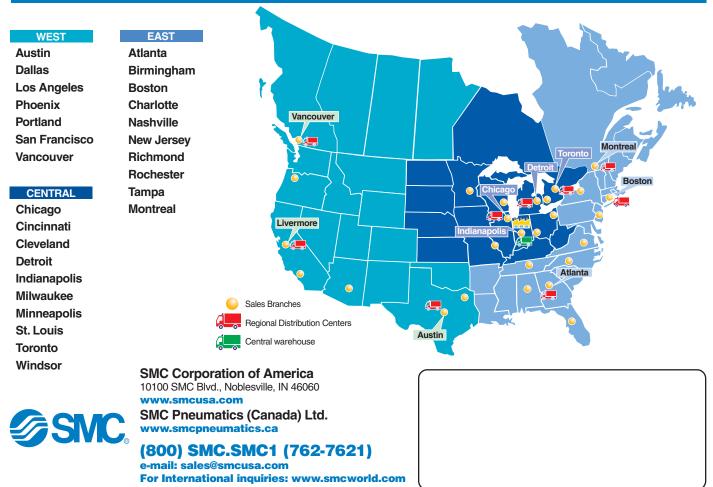
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