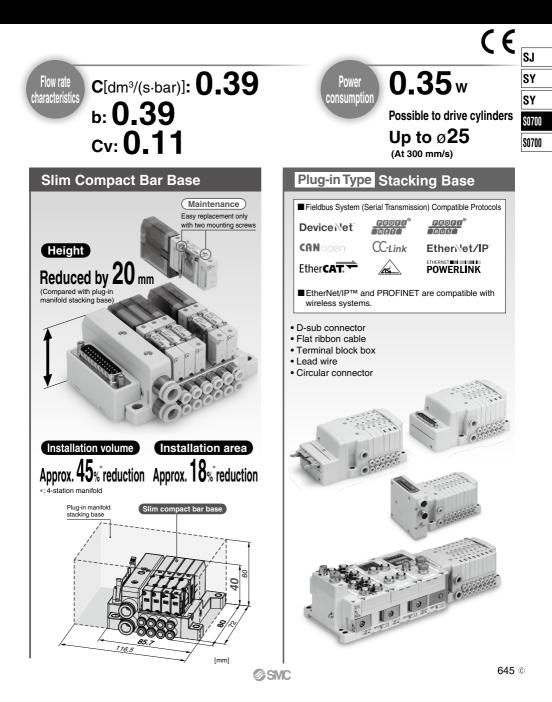
5 Port Solenoid Valve Plug-in Type

S0700 Series

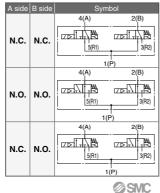


Plug-in Manifold Variations

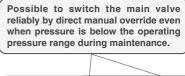
			Serial Tra	Kit nsmission s System)			
	EX180	EX260	EX250	EX600	EX500	EX510	
	For Output	For Output	For Input/Output	For Input/Output	Gateway-type	Gateway-type	
Slim Compact Bar Base	Page 654	<u>-</u>	_	—	-	Page 656	Į
Plug-in Type Stacking Base		Page 676	Page 678	Page 680	Page 684 Page 686		
Device/Vet	۲	۲	۲	۲	۲	۲	
<u>[P]R[0]F][]</u> [©] []N[E]T]]		۲		۲			
<u>propr</u> ®		۲	٢	٢	٢	٢	
(ANopen			۲				
CC-Link	۲	۲		۲		۲	
EtherNet/IP		۲	۲	0	٢		
CCLink EtherNet/IP		0		٢			
			٢				
POWERLINK		۲					
EtherNet/IP™ compatible wireless base				۹			
PROFINET compatible wireless base				۲			

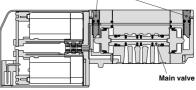
4-Position Dual 3-Port Valve

- •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.



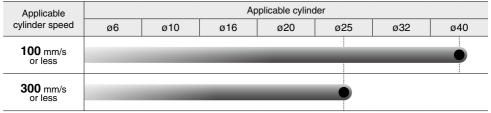
Adopted Direct Manual.



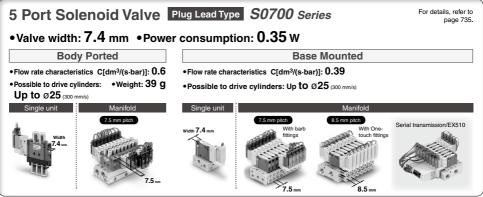


F Kit D-sub Connector	P Kit Flat Ribbon Cable	T Kit Terminal Block Box	L Kit _{Lead} Wire	M Kit Circular Connector	
MIL Standard	MIL Standard •26 pins, 20 pins				SJ SY
Page 660	Page 664			_	SY S0700 S0700
Page 690	Page 694	Page 702	Page 706	(Page 710)	

Optimum Actuation Size Chart of Air Cylinder



For horizontal operation. Refer to page 652 for calculation conditions.



Variations/Options

				Slim Compact Bar Base	Plug-in Type Stacking Base				
	Base model			Base model					
Piping spec.	Port size	1	(P), 3(R)	ø6, ø8, ø1/	/4", ø5/16"				
Pipi	Ч	4	(A), 2(B)	ø2, ø3.2, ø4, ø	ø1/8", ø5/32"				
			EX510	0	_				
			EX180	۵	-				
		S Kit	EX500	_	<u> </u>				
			EX250		<u> </u>				
ç	Ð		EX260 EX600						
Type of wiring		F Kit	D-sub connector	•	@				
Tune	adki	P Kit	Flat ribbon cable	٥	٥				
		T Kit	Terminal block box	_	۲				
		L Kit	Lead wire	_	۵				
		M Kit	Circular connector	_	۵				
	Blai	nking plate	e	Page 718	Page 718				
	Ext	ernal pilot	[-R]	Page 718	Page 718				
		ect EXH or encer [-S]	utlet with built-in	Page 718	Page 718				
	Indi	ividual SU	P/EXH spacer	_	Page 719				
	Indi	ividual SU	P spacer	Page 719	-				
ļ	Indi	ividual EX	H spacer	Page 719	—				
	SUI	P block pla	ate	_	Page 719				
		H block pla		—	Page 720				
s	Bac [-B]		e check valve	_	Page 720				
Options			e with output	Page 720	Page 720				
	Por	t plug		Page 721	Page 721				
			ting bracket	Page 721	Page 721				
	moi	plicable to unting		Page 721	Page 721				
	Blan KJF	nking plug (F P-02 KQ2	or One-touch fitting) P-23/04/06	Page 722	Page 722				
	Sile	encer (For	EXH port)	Page 722	Page 722				
	Nar SS0	me plate[-I 1700-N-Statio	N] n (1 to Max. stations)	_	Page 722				
		al flow fittir		_	Page 723				
		P/EXH blo		_	Page 723				
	Dou	uble check 1000-FPG	block (Separated)	Page 724	Page 724				



S0700 Series Valve Specifications

Valve Specifications

Model

					Response *1	Maight					
Туре		Type of actuation	Type of actuation	Model	1→4/2 (P→A/B)			4/2-	→5/3 (A/B→R1	time	Weight [g]
		dotadion	"	C[dm3/(s·bar)]	b	Cv	C[dm3/(s·bar)]	b	Cv	[msec]	[9]
	2-position	Single	S0711	0.39	0.39	0.11	0.37	0.39	0.10	18 or less	36
Slim compact Bar base	2-po	Double	S0721	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	41
Page 653	4-pos.	Dual 3-port valve	S07 ^A C	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 type Stacking base	2-po	Double	S0720	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	38
Page 675	4-pos.	Dual 3-port valve	S07 ^A _B 0	0.34	0.34	0.09	0.33	0.33	0.08	18 or less	38

*: Values for cylinder port fitting port size C6.

*1: Based on JIS B 8419-2010 (Supply pressure: 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	Rubbe	er seal			
	Fluid	A	hir (1997)			
	Maximum operating pressure	0.7 MPa				
	Minimum operating pressure	0.2	MPa			
suc	Ambient and fluid temperature	-10 to	50°C*1			
atic	Maximum operating cycle	5	Hz			
Valve specifications	Pilot valve exhaust method	Slim compact Bar base	Plug-in type Stacking base			
Va		Common exhaust ^{*2}				
	Pilot valve manual override	Push	n type			
	Lubrication	Not re	quired			
	Impact/Vibration resistance*3	30/10	0 m/s ²			
	Enclosure	IP	40			
L Sus	Coil rated voltage	24 \	VDC			
trica	Allowable voltage fluctuation	±10% of rated voltage				
Electrical specifications	Coil insulation type	Class B or equivalent				
spe	Power consumption (Current) 24 VDC	DC 0.35 \	N (15 mA)			

*1: Use dry air to prevent condensation when operating at low temperatures.

*2: Valves with the external pilot specifications have a pilot EXH with individual exhaust specifications.

*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 deenergized 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.

S0700 Series Manifold Specifications

Manifold Specifications

Model

Model								.
		Piping spe	cifications		*1	*3	*3	SJ
	Base model	Port 1(P), 3(R)	size 4(A), 2(B)	Type of connection	Applicable stations	5-station weight [g]	Addition per station [g]	SY
	SS0751-0000	C6 (ø6)		S kit: Serial transmission (EX510)	Max. 16 stations	270* ²	19* ⁵	SY
ompact base	Silm compact Bar base	C8 (ø8) N7 (ø1/4") N9 (ø5/16")	C2 (ø2) C3 (ø3.2) C4 (ø4)	S kit: Serial transmission (EX180)	Max. 32 stations	230* ²	17	S0700
Slim co Bar		Option (Direct EXH outlet with built-in	N1 (ø1/8") N3 (ø5/32")	F kit: D-sub connector	Max. 24 stations	185	17	S0700
	Page 653	silencer)		P kit: Flat ribbon cable	Max. 24 stations	181	17	
				S kit: Serial transmission (EX500)	Max. 16 stations	260* ²	20	
				S kit: Serial transmission (EX250/260/600)	Max. 24 stations	260*2	20	
pe ase		C6 (ø6) C8 (ø8) N7 (ø1/4")	C2 (ø2)	F kit: D-sub connector	Max. 24 stations	330	20	
Plug-in type Stacking base	SS0750-000	N9 (ø5/16") Option	C3 (ø3.2) C4 (ø4) N1 (ø1/8")	P kit: Flat ribbon cable	Max. 24 stations	325	20	
Sta	a state of the second	(Direct EXH outlet with built-in silencer)	N3 (ø5/32")	T kit: Terminal block box	Max. 20 stations	660	20	
	- Constanting			L kit: Lead wire	Max. 24 stations	455* ⁴	20	
	Page 675			M kit: Circular connector	Max. 24 stations	390	20	

*1: Maximum stations in the case of mixed single and double wiring (special wiring specifications)

*2: Differs depending on the serial unit type.
*3: Weight excluding valve. Refer to page 650 for valve weight.

*4: Weight with lead wire length 0.6 m

*5: Including DIN rail weight

S0700 Series

Cylinder Speed Chart

Applicable	Applicable cylinder									
cylinder speed	ø 6	ø 10	ø 16	ø 20	ø 25	ø 32	ø 40	ø 50		
100 mm/s or less							•			
300 mm/s or less					•					
500 mm/s or less		•								

[Common conditions] •Pressure: 0.5 MPa •Piping length: 1 m •Load ratio: 50% •Stroke: 200 mm

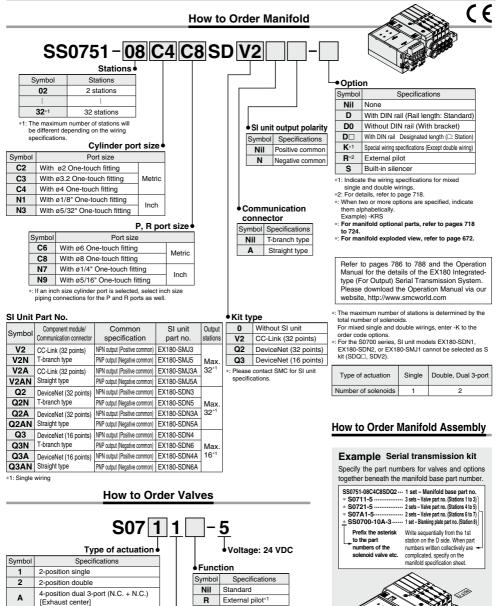
*: Use as a guide for selection.

Please confirm the actual conditions with SMC Model Selection Software.

Symbol

Model	Type of actuation	Symbol
S0710 S0711	2-position single	(R1)5 13(R2) (P)
S0720 S0721	2-position double	(A)(B) 4 2 (R1)513(R2) (P)
S07A0 S07A1	4-position dual 3-port N.C. + N.C. (Exhaust center)	4(A) 2(B) 5(R1) 1(P) 2(B) 3(R2)
S07B0 S07B1	4-position dual 3-port N.O. + N.O. (Pressure center)	4(A) 2(B) 4(A) 5(R1) 3(R2) 1(P)
S07C0 S07C1	4-position dual 3-port N.C. + N.O.	4(A) 2(B) 2(B) 5(R1) 1(P) 2(B) 3(R2)

S0700 Series Slim Compact Bar Base Kit (Serial Transmission) EX180 (For Output) Serial Transmission System



[Pressure center]

*: For symbol, refer to page 652

*1: Not compatible with dual 3-port valves. 4-position dual 3-port (N.O. + N.O.) The 3(R) port is open to the atmosphere (Cannot be used for applying pressure 4-position dual 3-port (N.C. + N.O.) or vacuum)

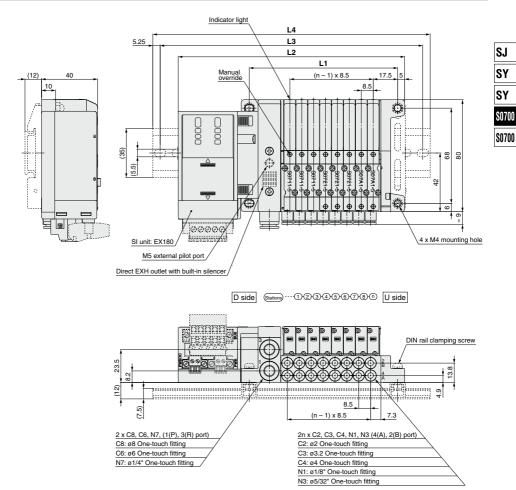
Base mounted plug-in

SMC

в

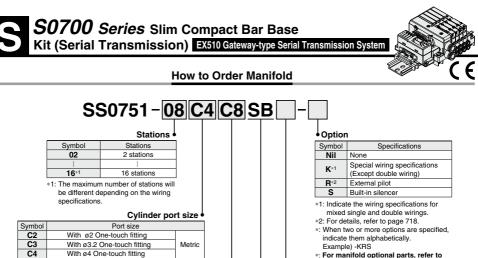
С

Slim Compact Bar Base EX180 (For Output) Serial Transmission System S0700 Series



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

Dimens	sions								Formula	L1 = 8.5	in + 38, l	_2 = 8.5r	ı + 93.7	n: Stati	on (Maxi	mum 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
	10		04			04	05		07				04				
L	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
L n	19 199.5	20 208	21 216.5	22 225	23 233.5	24 242	25 250.5	26 259	27 267.5	28 276	29 284.5	30 293	31 301.5	32 310			
L	19									-			-	-			
	19 199.5	208	216.5	225	233.5	242	250.5	259	267.5	276	284.5	293	301.5	310			
L L1 L2	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			



- For manifold optional parts, refer to pages 718 to 724.
 - For manifold exploded view, refer to page 672.

SI unit output polarity							
Symbol	Specifications						
Nil	Positive common						
Ν	Negative common						

S kit EX510 serial wiring

*: For SI unit part number, refer to page 673.

Refer to pages 878 to 906 and the Operation Manual for the details of the EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, http://www.smcworld.com



Type of actuation

With ø1/8" One-touch fitting

Max. number of stations for special wiring specifications

16 stations

Single

Symbol

C6

C8 N7

Ng

ports as well

With ø5/32" One-touch fitting

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.)

*: For symbol, refer to page 652.

N1

N3

Standard

station

1 to 8 stations

Type of actuation

Number of solenoids



Inch

P, R port size

Metric

Inch

Max. number of

solenoids

16

Double, Dual 3-port

2

Port size

With ø6 One-touch fitting

With ø8 One-touch fitting

With ø1/4" One-touch fitting

*: If an inch size cylinder port is selected, select

inch size piping connections for the P and R

With ø5/16" One-touch fitting

Voltage: 24 VDC Function Symbol Specifications Nil Standard R External pilot¹

- R
 External pilot*1

 *1: Not compatible with dual 3-port valves.
 The 3(R) port is open to the atmosphere.

 (Cannot be used for applying pressure or vacuum)
 The 3(R) port is open to the atmosphere.
- Base mounted plug-in

How to Order Manifold Assembly

Example Serial transmission kit Specify the part numbers for valves and options together beneath the manifold base part number. SS0751-08C4C8SB ··· 1 set - Manifold base part no. * S0711-5 3 sets - Valve part no. (Stations 1 to 3) * S0721-5 2 sets - Valve part no. (Stations 4 to 5) S07A1-5······ 2 sets - Valve part no. (Stations 6 to 7) SS0700-10A-3 ····· 1 set - Blanking plate part no. (Station 8) Prefix the asterisk Write sequentially from the 1st to the part station on the D side. When part numbers of the numbers written collectively are solenoid valve etc. complicated, specify on the manifold specification sheet.

∕ SMC

S0700 Series Slim Compact 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

Connector

0

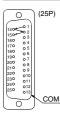
D-sub connector As the standard electrical wiring specifications, double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station for 12 stations or less, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer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

D-sub connector assembly

	Connector	wire color (AXT100-DS25-030					
\bigcirc	terminal no.	wire	color	AXI100	-DS25- 030		
	Terminal	no. Pol	arity	Lead wire color	Dot marking		
ſ		()	(+)	Black	None		
Station 1		()	(+)	Yellow	Black		
ſ	SOL.A_o 2	(-)	(+)	Brown	None		
Station 2		(-)	(+)	Pink	Black		
(SOL.A 3	(-)	(+)	Red	None		
Station 3		(-)	(+)	Blue	White		
o	SOL.A 4	()	(+)	Orange	None		
Station 4		()	(+)	Purple	None		
o	SOL.A5	(-)	(+)	Yellow	None		
Station 5 {		(-)	(+)	Gray	None		
0	SOL.A 6	(-)	(+)	Pink	None		
Station 6		()	(+)	Orange	Black		
Station 7	SOL.A7	()	(+)	Blue	None		
Station / {	SOL.B_o 20	(-)	(+)	Red	White		
Station 8	SOL.A 8	()	(+)	Purple	White		
Station 8		()	(+)	Brown	White		
Station 9	SOL.A 9	(-)	(+)	Gray	Black		
Station	<u>SOL.B</u> o 22	(-)	(+)	Pink	Red		
Station 10		(-)	(+)	White	Black		
Station To	<u>SOL.B</u> 0 23	(-)	(+)	Gray	Red		
Station 11		(-)	(+)	White	Red		
Station II	<u>SOL.B</u> 0 24	()	(+)	Black	White		
Station 12		(-)	(+)	Yellow	Red		
		(-)	(+)	White	None		
	COM. o 13	(+)	(-)	Orange	Red		
		Positive COM	Negative COM	=1			

*1: 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.

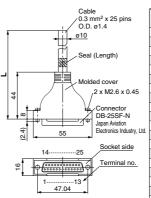
2. Wiring specifications

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



015



Terminal Lead wire Dot color marking no Black None 1 2 Brown None Red 3 None 4 Orange None 5 Yellow None 6 Pink None 7 Blue None 8 Purple White 9 Gray Black 10 White Black 11 White Red 12 Yellow Red 13 Orange Red Black 14 Yellow 15 Pink Black Blue White 16 17 None Purple 18 Gray None 19 Orange Black Red White 20 21 White Brown Pink Red 22 23 Gray Red Black White 24 25 White None

Terminal No.

D-sub Connector Cable Assembly (Option)

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

*: For other commercial connectors, use a 25pin type with female connector conforming

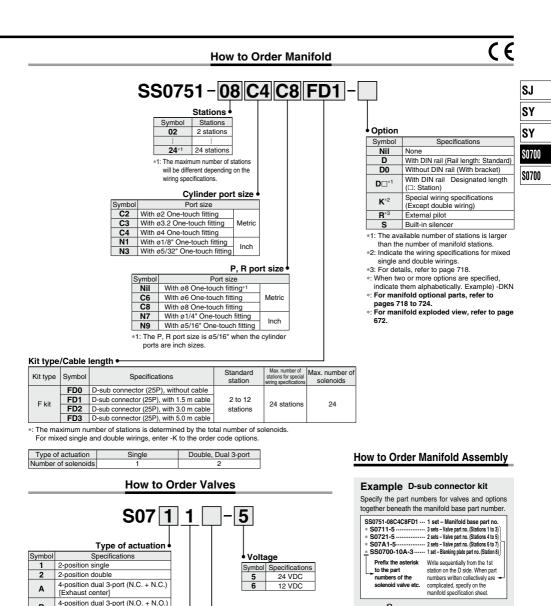
to MIL-C-24308 *: Cannot be used for movable wiring

Electrical Observation

Electrical Characteristics		
Property		
65 or less		
1000		
5 or more		

- Connector manufacturers' example
- · Fujitsu Limited
- Japan Aviation Electronics
- Industry, Limited.
- . J.S.T. Mfg. Co., Ltd. • HIROSE ELECTRIC CO., LTD.
- *: The minimum bending inner radius of D-sub connector cable is 20 mm.





Function

R

[Pressure center]

*: For symbol, refer to page 652.

4-position dual 3-port (N.C. + N.O.)

Base mounted plug-in

Symbol Specifications Nil Standard R External pilot*

*1: Not compatible with dual 3-port valves.

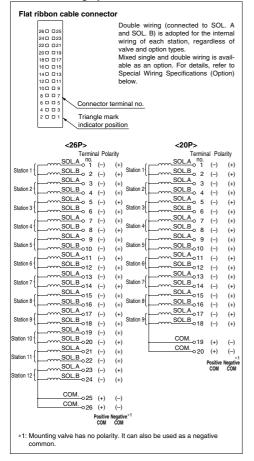
@SMC

661

S0700 Series Slim Compact Bar Base Kit (Flat Ribbon Cable)

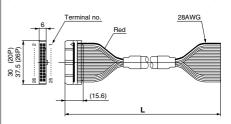
- Flat ribbon cable connector reduces installation labor for electrical connection.
- Using the connector for flat ribbon cable (26P, 20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.

Electrical Wiring Specifications



Cable Assembly AXT100-FC²⁰₂₆

Type 26P flat ribbon cable connector assemblies can be ordered with manifolds. Refer to How to Order Manifold.



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	

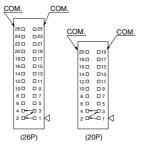
*: For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.

* Cannot be used for movable wiring

Connector manufacturers' example

- HIROSE ELECTRIC CO., LTD. 3M Japan Limited Fujitsu Limited
- Japan Aviation Electronics Industry, Limited • J.S.T. Mfg. Co., Ltd.
- - 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

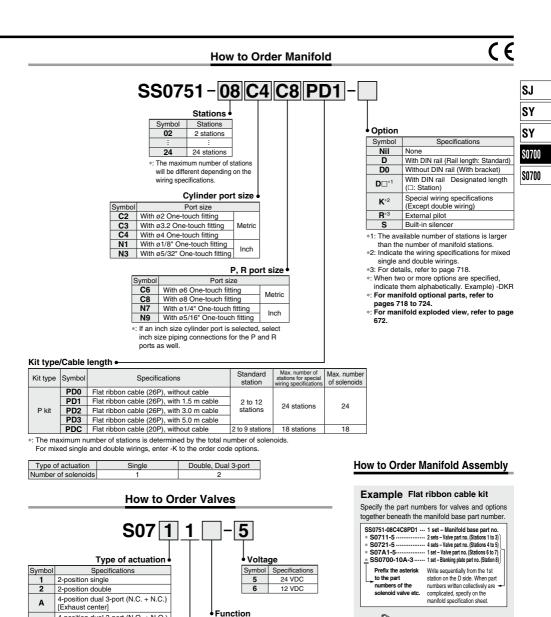
1 How to Order valves

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.





4-position dual 3-port (N.O. + N.O.)

4-position dual 3-port (N.C. + N.O.)

Base mounted plug-in •

[Pressure center]

*: For symbol, refer to page 652.

Symbol

Nil

valves.

R

Specifications

External pilot*1

*1: Not compatible with dual 3-port

The 3(R) port is open to the atmosphere.

(Cannot be used for applying pressure or vacuum)

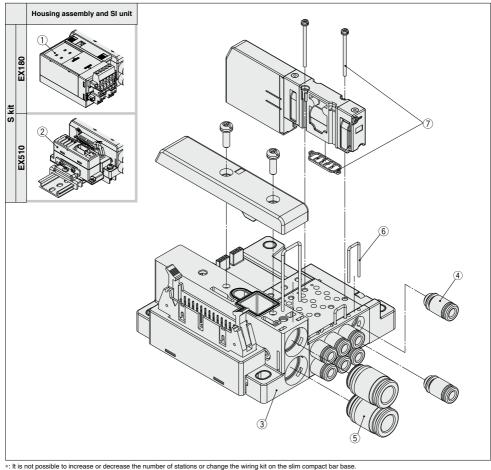
SMC

Standard

R

С

S0700 Series Slim Compact Bar Base Manifold Exploded View

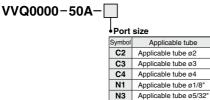


To change them, please change the entire base unit

Manifold Assembly Part No.

No.	Description	Part no.	Note	1
		EX180-SDN3	DeviceNet [™] 32 outputs NPN (positive common) T-branch type communication connector	-
	1	EX180-SDN3A	DeviceNet [™] 32 outputs NPN (positive common) Straight type communication connector	SJ
		EX180-SDN4	DeviceNet™ 16 outputs NPN (positive common) T-branch type communication connector	
		EX180-SDN4A	DeviceNet [™] 16 outputs NPN (positive common) Straight type communication connector	SY
		EX180-SMJ3	CC-Link 32 outputs NPN (positive common) T-branch type communication connector	SY
	Cl. unit	EX180-SMJ3A	CC-Link 32 outputs NPN (positive common) Straight type communication connector	
\odot	SI unit	EX180-SDN5 DeviceNet™ 32 outputs PNP (negative common) T-branch type com	DeviceNet [™] 32 outputs PNP (negative common) T-branch type communication connector	S0700
			DeviceNet [™] 32 outputs PNP (negative common) Straight type communication connector	S0700
		EX180-SDN6	DeviceNet [™] 16 outputs PNP (negative common) T-branch type communication connector	50100
		EX180-SDN6A	DeviceNet [™] 16 outputs PNP (negative common) Straight type communication connector	
		EX180-SMJ5	CC-Link 32 outputs PNP (negative common) T-branch type communication connector	-
		EX180-SMJ5A	CC-Link 32 outputs PNP (negative common) Straight type communication connector	
(2)	SI unit	EX510-S002A	NPN (Positive common)	
C	Si unit	EX510-S102A	PNP (Negative common)	
3	Base unit	SS0751-000	Refer to How to Order for each kit.]

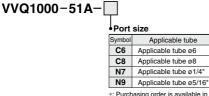
④ Fitting assembly part number for cylinder port



*: Purchasing order is available in units of 10 pieces.

*: For One-touch fittings replacement, refer to Specific Product Precautions 2.

5 Fitting assembly part number for P, R port



- *: Purchasing order is available in units of 10 pieces.
- *: For One-touch fittings replacement, refer to Specific Product Precautions 2.

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

*: 1 set includes 10 pieces.

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

*: 1 set includes 10 pieces. (1 gasket, 2 screws)

Plug-in Type

S0700 Series Stacking Base

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



How to Order Manifold

SS0750-08 C4 C8 SDQ

Stations

Symbol	Stations
01	1 station
:	:
24 *1	24 stations

*1: 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	C3 With ø3.2 One-touch fitting	
C4	With ø4 One-touch fitting	Metric
СМ	Mixed sizes and with port plug*1	
N1	With ø1/8" One-touch fitting	
N3	With ø5/32" One-touch fitting	Inch
NM	Mixed sizes and with port plug*1	

*1: Specify "Mixed sizes and with port plug" on the manifold specification sheet

3 P. R port size

4 Kit type

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

*: If an inch size cylinder port is selected, select inch size piping connections for the P and R ports as well.

SI unit output polarity

SI unit common		EX250				
		DeviceNet™	PROFIBUS DP	AS-Interface	CANopen	EtherNet/IP™
Nil	Positive common	—	-	-	—	—
N Negative common		0	0	0	0	0
* Wi	* Without SLunit (SD0) the symbol is nil					

Input block (for I/O unit only)

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

*: Without SI unit (SD0), the symbol is nil

Input block type (for I/O unit only)

Symbol	Specifications	
Nil	Input block: None	
1	M12 2 inputo	

1411	input block. None
1	M12 2 inputs
2	M12 4 inputs

*: Without SI unit (SD0), the symbol is nil

3

B Input block specification (for I/O unit only)

M8 4 inputs (3 pins)

Symbol	Specifications
Nil	PNP sensor input or without input block
N	NPN sensor input

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

Kit type S		*1 Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids		
		SD0	Without SI unit					
		SDQ	DeviceNet™	4.4.40	24* ²			
		SDN	PROFIBUS DP	1 to 16 stations	stations	32		
	For I/O	SDY	CANopen	31410113	Stations			
S kit	serial	SDZEN	EtherNet/IP™					
	transmission	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		

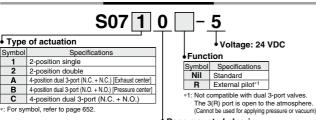
*1: For SI unit part number, refer to page 715.

*2: Up to 24 stations due to the structure of the manifold. Please note the maximum number of stations is 24 for single wiring, too, *: 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



Base mount

Option

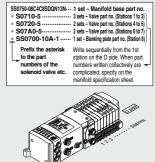
Specifications
None
With back pressure check valve (All stations)
With DIN rail (Rail length: Standard)
Without DIN rail (With bracket)
With DIN rail Designated length (: Station)
Special wiring specifications (Except double wiring)
With name plate
External pilot
Built-in silencer

- *1: 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
- *2: The available number of stations is larger than the number of manifold stations. *3: Indicate the wiring specifications for mixed single
- and double wirings.
- *4: For details, refer to page 718. *5: When the SD0 (Without SI unit) is specified, -D,
- -D cannot be selected.
- *: When two or more options are specified, indicate them alphabetically. Example) -BKN
- *: For manifold optional parts, refer to pages 718 to 724. *: For manifold exploded view, refer to page 714.
- Refer to pages 802 to 814 and the Operation Manual for the details of the EX250 Integrated-type (For Output) Serial Transmission System. Please download the Operation Manual via our website. http://www.smcworld.com

How to Order Manifold Assembly

Example Serial transmission kit

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



Symbol

2

A

в

C

ed plug-	in
ØS	MC

Plug-in Type S0700 Series Stacking Base Kit (Serial Transmission) EX600 (For Input/Output) Serial Transmission System (Fieldbus System How to Order Manifold SS0750-08 C4 SD6Q 2 N 1 Stations Option Symbol Stations Specifications 01 1 station Symbol None Nil 24*1 24 stations **B**∗1 With back pressure check valve (All sta.) **D***4 With DIN rail (Rail length: Standard) *1: Max. number of D0*4 With DIN rail bracket (Without rail) stations depends on the D *2 *4 With DIN rail length specified (: Sta.) wiring specifications. **K**∗3 Special wiring specifications (Except double wiring) Ν With name plate Cylinder port size **R***5 External pilot Symbol Port size S Built-in silencer With ø2 One-touch fitting C2 *1: When back pressure check valve is used C3 With ø3.2 One-touch fitting only for specified station, specify back Metric C4 With ø4 One-touch fitting pressure check valve part number, and CM Mixed sizes and with port plug*1 specify station number to which the valve N1 With ø1/8" One-touch fitting is mounted on the manifold specification N3 With ø5/32" One-touch fitting Inch sheet. *2: Specified station number shall be longer NM Mixed sizes and with port plug*1 than manifold station number. *1: Indicate the sizes on the manifold specification *3: When single wiring and double wiring are sheet in the case of CM and NM. mixed, specify wiring type of each station with the manifold specification sheet. *4: When Without SI unit (SD60) is specified. Kit type -D, -D cannot be selected. Max. number of *5: For details, refer to page 718. Standard Max, number Symbol Specifications Kit type stations for special *: When two or more symbols are specified. station of solenoids wiring specifications indicate them alphabetically. Example) -BKN SD60 Without SI unit SD6Q DeviceNet™ I/O unit station number SD6N PROFIBUS DP Nil None SD6V CC-Link 1 1 station SD6F PROFINET EtherNet/IP™ SD6ZE 9 9 stations (1 port) 1 to 16 *: Without SI unit, the symbol is nil. S kit EtherNet/IP™ 24 stations*1 32 SD6EA stations *: SI unit is not included in I/O unit station number. (2 ports) * When I/O unit is selected, it is shipped SD6D EtherCAT separately, and assembled by customer. EtherNet/IP™ compatible SD6WE Refer to the attached operation manual for wireless base*2 mounting method. PROFINET compatible SD6WF wireless base*2 SI unit output polarity SD6WS Wireless remote*2 Nil Positive common *1: Up to 24 stations due to the structure of the manifold. Please note the Negative common maximum number of stations is 24 for single wiring, too. Ν *2: The wireless system is suitable for use only in a country where it is in *: Without SI unit the symbol is nil accordance with the Radio Act and regulations of that country. *: Max. station number depends on the number of solenoid valve. Add the option symbol -K when the combination of single wiring and double End plate type wiring is specified Nil No end plate . When Without SI unit is specified, valve plate to connect the manifold and SI 2 M12 power supply connector, B-coded unit is not mounted. Refer to page 732 for mounting method. 3 7/8 inch power supply connector . I/O unit cannot be chosen without SI unit. M12 power supply connector IN/OUT, A-coded *: For SI unit part number, refer to page 715. 4 Pin arrangement 1 Type of actuation Single Double, Dual 3-port M12 power supply connector IN/OUT, A-coded 5 Number of solenoid valves Pin arrangement 2 2

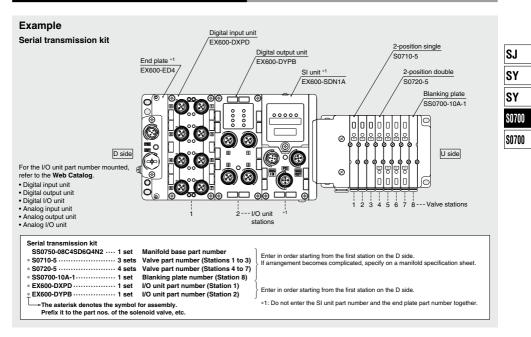
*: Without SI Unit, the symbol is nil.

*: The pin layout for "4" and "5" pin connector is different.

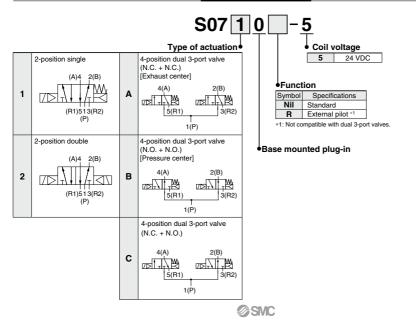
Refer to pages 815 to 843 and the Operation Manual for the details of the EX600 Integrated-type (For Output) Serial Transmission System. Please download the Operation Manual via our website, http://www.smcworld.com



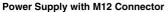
How to Order Manifold Assembly (Example)

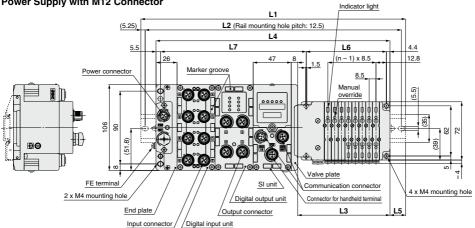


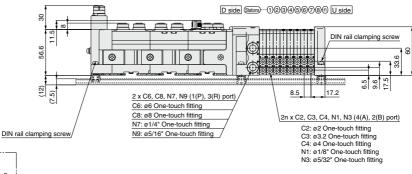




Plug-in Type S0700 Series Stacking Base Kit (Serial Transmission) EX600 (For Input/Output) Serial Transmission System (Fieldbus System)







L2 = L1 - 10.5
L3 = 8.5 x n1 + 46
L4 = L3 + 81 + 47 x n2
L5 = (L1 - L4)/2
L6 = 8.5 x n1 + 31
L7 = 47 x n2 + 86.1

L1: DIN Rail Overall Length

Valve 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

SMC