Series 10-S0700 5 Port Solenoid Valve

Variations

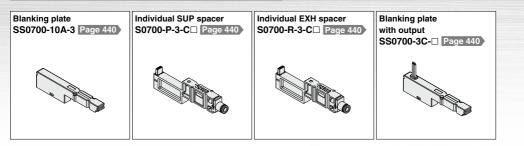
variations							
00 % L:			Serial Tra (Fieldbus	kit nsmission s System)			
	EX180 For Output Serial Transmission System	EX260 For Output Serial Transmission System	EX500 Gateway-type Serial Transmission System	EX510 Gateway-type Serial Transmission System	EX250 For Input/Output Serial Transmission System	EX600 For Input/Output Serial Transmission System	
	Applicable Protocol · DeviceNet [®] · CC-Link		Applicable Protocol - PROFIBUS DP - EtherNet/IP TM	Applicable Protocol · DeviceNet® · PROFIBUS DP · CC-Link	Applicable Protocol · DeviceNet® · AS-Interface · EtherNet/IP™	Applicable Protocol • DeviceNet® • PROFIBUS DP • CC-Link • EtherNet/IPTM* • PROFINET * Compatible with wireless systems	
Slim Compact Plug-in Manifold Bar Base							
	Page 423-2	_		Page 425			
Plug-in Manifold Stacking Base							
	_			—			
0		Page 423-6	Page 447		Page 449	Page 451	
Plug Lead Manifold Bar Base							
A RECORDER				Page 495		1 1 1 1	

						les
F kit D-sub Connector	P kit Flat Ribbon Cable	T kit Terminal Block Box	L kit Lead Wire	M kit Circular Connector	C kit	Directional Control Valves
MIL Standard	MIL Standard · 26 pins, 20 pins					Air Cylinders
						Rotary Actuators
						Air Grippers
Page 429	Page 433	_	_	_	_	Air Preparation Equipment
1 uge 425	Tage 400					Modular F. R.
					_	Pressure Control Equipment
Page 457	Page 461	Page 469	Page 473	Page 477		Lubing
					uth	Fittings & Tubing
_	_	_	_	_		Flow Control Equipment
					Page 491	Pressure Switches/ Pressure Sensors
						PI

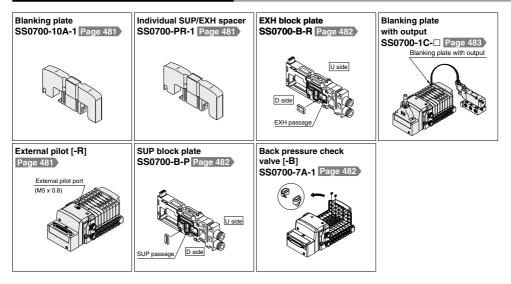
418 B

Options

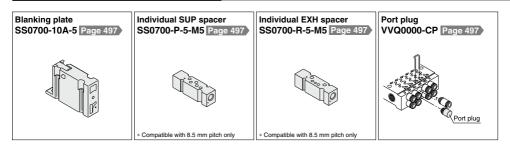
Slim Compact Plug-in Manifold Bar Base / Options



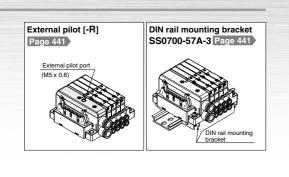
Plug-in Manifold Stacking Base / Options

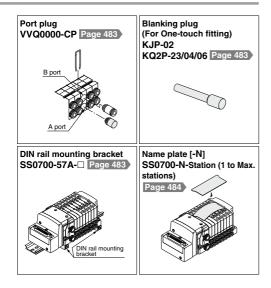


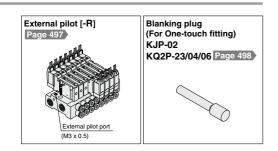
Plug Lead Manifold Bar Base / Options













Series 10-S0700 Valve Specifications

Valve Specifications

Model

		Actuation			F	low rate chai	racteristics			Note 2)	
Series	Series		Model	1→4/	/2 (P→A/B)		4/2→5	6/3 (A/B→R1	(R2)	Response	Weight (g)
		type		C [dm3/(s-bar)]	b	Cv	C [dm3/(s·bar)]	b	Cv	time (msec)	(9)
0.1	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-position	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		Double	S0720	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	38
	4-position	Dual 3-port valve	S07B0	0.34	0.34	0.09	0.33	0.33	0.08	18 or less	38
	2-position	Single	S0715	0.39	0.39	0.11	0.37	0.39	0.10	12 or less	28
Plug lead manifold Bar base		Double	S0725	0.39	0.39	0.11	0.37	0.39	0.10	10 or less	36
	4-position	Dual 3-port valve	S07 ^A B5	0.34	0.34	0.09	0.33	0.33	0.08	12 or less	36

Note 1) Values for cylinder port fitting size C6

Note 1) Based on JJS B 875-1993 (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		Rubber seal					
	Fluid		Air/Inert gas					
s	Max. operating pressu	ıre	0.7 MPa					
tion	Min. operating pressu	re	0.2 MPa					
Valve specifications	Ambient and fluid terr	perature	-10 to 50°C Note 1)					
ecit	Max. operating cycle		5 Hz					
dse	Pilot valve exhaust me	ethod	Common exhaust Note 2)					
alve	Pilot valve manual override		Push type					
>	Lubrication		Not required					
	Impact/Vibration resis	tance Note 3)	30/100 m/s ²					
	Enclosure		IP40					
s	Coil rated voltage		24 VDC					
tion	Allowable voltage fluc	tuation	±10% of rated voltage					
fica	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) Since the pilot EXH of valves with the external pilot specification also has a common exhaust specification, the 3(R) port should be released to the atmosphere.

Note 3) Impact resistance: No malfunction occurred when it was tested with a drop tester in the axial direction and at right angles to the main valve and armature in both energized and de-energized states once for each condition. Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed in both

energized and de-energized states in the axial direction and at right angles to the main valve and armature.

Series 10-S0700 **Manifold Specifications**

Manifold Specifications

Model

lodel								° S
		Piping spe		_	Note 1)	Note 3)	Note 3)	
	Base model	Port		Connection type	Applicable stations	5-station weight (g)	Addition per station (g)	ŝ
act ifold		1(P), 3(R) C6 (ø6) C8 (ø8)	4(A), 2(B) C2 (ø2)	S kit: Serial transmission (EX510)	Max. 16 stations	320	19 Note 7)	Air Cylinders
Slim compact Plug-in manifold Bar base	10-SS0751-	N7 (ø1/4") N9 (ø5/16") Option	C3 (ø3.2) C4 (ø4) N1 (ø1/8")	F kit: D-sub connector	Max. 24 stations	185	17	
Plug		(Direct EXH outlet with built-in silencer)	N3 (ø5/32")	P kit: Flat ribbon cable	Max. 24 stations	181	17	tuators
			C2 (ø2)	S kit: Serial transmission (EX500)	Max. 16 stations	360	20	Rotary Actuators
		C6 (ø6) C8 (ø8) N7 (ø1/4")		S kit: Serial transmission (EX250)	Max. 24 stations Note 2)	560 Note 4)	20	
ifold ase				F kit: D-sub connector	Max. 24 stations	330	20	Air Grippers
Plug-in manifold Plug-in manifold Plug-in the place Plug-in the plug-interval Plug-int	N9 (ø5/16") Option (Direct EXH outlet	C3 (ø3.2) C4 (ø4) N1 (ø1/8")	P kit: Flat ribbon cable	Max. 24 stations	325	20	Air 0	
Plug Sta	Stac tac	with built-in silencer)	N3 (ø5/32")	T kit: Terminal block box	Max. 20 stations	660	20	ation
				L kit: Lead wire	Max. 24 stations	455 Note 5)	20	Air Preparation Equipment
				M kit: Circular connector	Max. 24 stations	390	20	Air
fold	10-SS0755-□C□C	Rc1/8	M5 thread C2 (ø2) C3 (ø3.2)	C kit: Connector	Max. 20 stations	115	20	r F. R.
BODIE BODIE (Manifold pitch: 8.5 mm*)	nc i/o	C4 (ø4) N1 (ø1/8") N3 (ø5/32")	S kit: Serial transmission (EX510)	Max. 16 stations	115	20	Modular F.	
Single unit	10-S07□5-5□-M5	M5 thread	M5 thread	Connector kit	-	14 ^N	lote 6)	ntrol
ote 1) Ma ote 2) Dif ote 3) We ote 4) We	fers depending on the seria	ingle and double wiring (sp al unit type. For details, refe to page 421 for valve weig 1.6 m	r to page 449.	5)				Pressure Control Equipment

Note 6) Weight of sub-plate only. Refer to page 421 for valve weight.

Note 7) Including DIN rail weight

* The manifold pitch 7.5 mm type is available as special order.

Flow Control Equipment

Fittings & Tubing

irectional ntrol Valves

Cylinder Speed Chart

Base Mount	Please of		selection. actual cond on Software									
			Bore size									
Series	Series Average speed mm/s			MPa 0% 1	Series CM2 Pressure 0.5 MPa Load factor 50% Stroke 300 mm							
		ø6	ø10	ø16	ø20	ø25	ø32	ø40				
	800 700 600						Vertical, upward Horizont	actuation				
10-S0715-5G-M5	500 400											
10-30715-50-105	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.

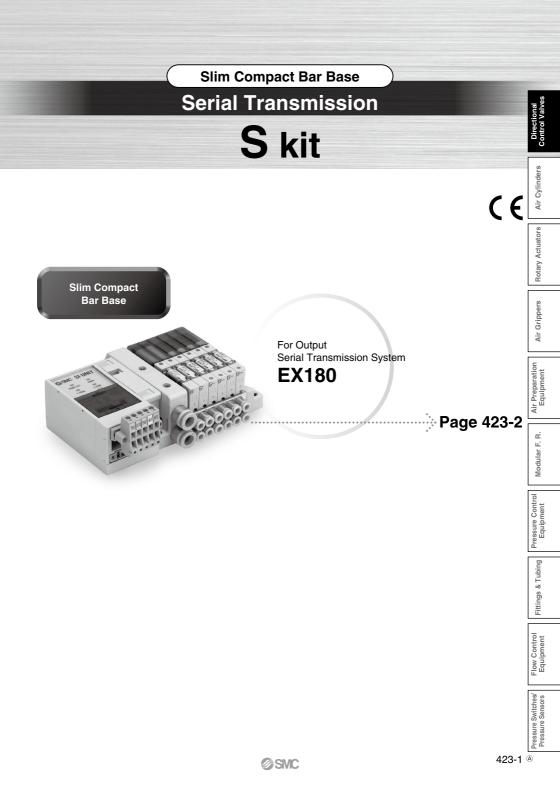
* The average velocity of the cylinder is what the stroke is divided by the total stroke time. * Load factor: ((Load mass x 9.8)/Theoretical force) x 100%

Conditions

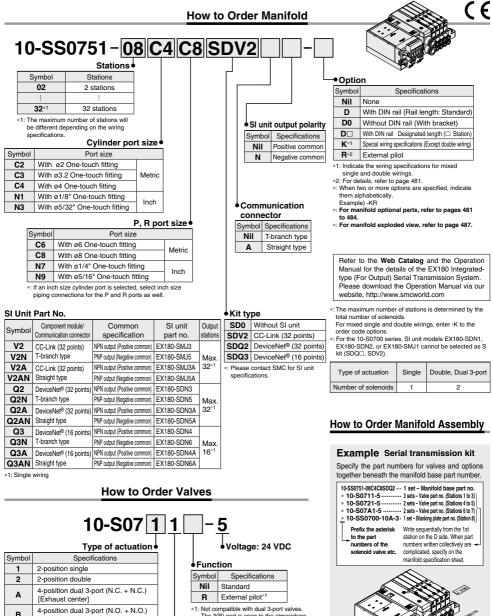
Bas	e mounted	Series CJ2 Series CM			
	Tubing diameter x Length	ø6 x 1 m			
10-S0715-5G-M5	Speed controller	AS2001F-06	AS2301F-06		
	Silencer	AN120-M5			

Symbol

Model	Actuation type	Symbol
10-S0710 10-S0711 10-S0715	2-position single	(A)(B) (A)(B) (A)(B) (R1)513(R2) (P)
10-S0720 10-S0721 10-S0725	2-position double	(A)(B) 4 2 (R1)513(R2) (R1)513(R2) (P)
10-S07A0 10-S07A1 10-S07A5	4-position dual 3-port (N.C. + N.C.) [Exhaust center]	
10-S07B0 10-S07B1 10-S07B5	4-position dual 3-port (N.O. + N.O.) [Pressure center]	4(A) 2(B) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B) 4(A) 2(B)
10-S07C0 10-S07C1 10-S07C5	4-position dual 3-port (N.C. + N.O.)	4(A) 2(B) 5(R1) 1(P) 2(B) 2(B) 3(R2)
423		⊘ SMC



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



*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)

Base mounted plug-in

С

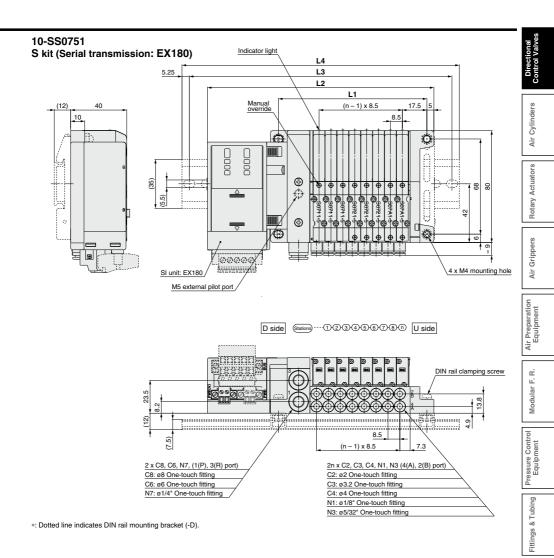
[Pressure center]

*: For symbol, refer to page 652

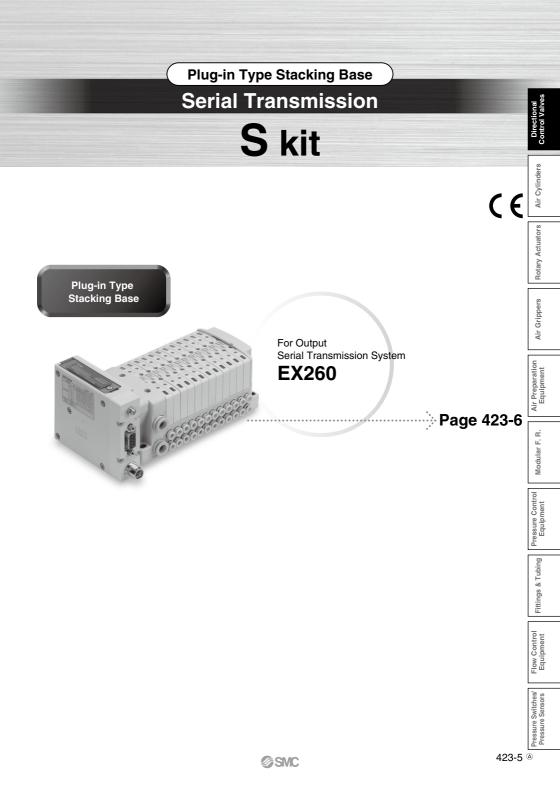
4-position dual 3-port (N.C. + N.O.)

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Slim Compact Bar Base EX180 (For Output) Serial Transmission System 10-S0700 Series

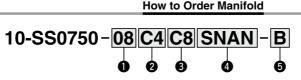


Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 93.7 n: Station (Maximum 32 stations)								-										
Dimena	sions		· · · · ·			-			i omua	LT = 0.0	11 + 30, i	2 - 0.51	+ 33.7	n. Stati	UT (IVIANI	mum 52	stations)	
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	ent
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191	D u u
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	dui dui
L3	137.5	150	150	162.5	175	175	187.5	200	200	212.5	225	225	237.5	250	250	262.5	275	Flow Equ
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	
																		-
L	19	20	21	22	23	24	25	26	27	28	29	30	31	32				ches
L1	199.5	208	216.5	225	233.5	242	250.5	259	267.5	276	284.5	293	301.5	310				Swite
L2	255.2	263.7	272.2	280.7	289.2	297.7	306.2	314.7	323.2	331.7	340.2	348.7	357.2	365.7				ure
L3	275	287.5	300	312.5	312.5	325	337.5	337.5	350	362.5	362.5	375	387.5	387.5				essi
L4	285.5	298	310.5	323	323	335.5	348	348	360.5	373	373	385.5	398	398				Pre



Plug-in Type

10-S0700 Series Stacking Base Kit (Serial Transmission) EX260 (For Output) Serial Transmission System



Stations

In the case of the 32-output SI unit

Symbol	Stations	Note						
01	1 station							
:		Double wiring ^{*1}						
16	16 stations							
01	1 station	Specified layout*2						
:								
24	24 stations	(Available up to 32 solenoids)						

In the case of the 16-output SI unit

Symbol	Stations	Note						
01	1 station							
	:	Double wiring ^{*1}						
08	8 stations							
01	1 station	Specified layout*2						
:	:	(Available up to 16 solenoids)						
16	16 stations	(Available up to 16 solenoids)						

*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. *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.)
- *: 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	Metric
C4	weuric	
CM	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

🕑 P, I	R port size	
Symbol		Port size
06	With a6 One	-touch fittir

C6	With ø6 One-touch fitting	Metric				
C8	With ø8 One-touch fitting	weine				
N7	With ø1/4" One-touch fitting	Inch				
N9 With ø5/16" One-touch fitting						
. If an inclusion ordinates must in a lasteral selection b						

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

4 SI unit specifications

(Output polarity, protocol, number of outputs, communication connector)									
Symbol (out Positive common (NPN)	put polarity) Negative common (NPN)	Protocol	Number of outputs	Communication connector					
SD	0 *1	Without	SI unit						
SQA	SQAN	DeviceNet [®]	32	M12					
SQB	SQAN	Devicemet~	16	IVI I Z					
SNA	SNAN		32	M12					
SNB	SNBN	PROFIBUS	16	IVI 12					
SNC	SNCN	DP	32	*4					
SND	SNDN		16	D-sub					
SVA	SVAN	CC-Link	32	M12					
SVB	SVBN	CC-LINK	16	IVI 12					
SDA	SDAN	EtherCAT	32	M12					
SDB	SDBN	LUIGIOAT	16	IVITZ					
SFA	SFAN	PROFINET	32	M12					
SFB	SFBN	THOFINET	16	IVI I Z					
SEA	SEAN	EtherNet/IP™	32	M12					
SEB	SEBN	Ellenvel/IF	16	IVI I Z					
*3	SGAN	Ethernet	32	M12					
*3	SGBN	POWERLINK	16	IVI I Z					

- *1: Without SI Unit, the output polarity is decied by the SI unit used.
- *2: DIN rail cannot be mounted without SI unit.

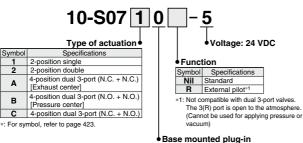
*3: Positive common (NPN) type is not applicble. *4: IP40 for the D-sub applicable communication

- connector specification.
- *5: 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.

*6: For SI unit part number, refer to page 444.								
Type of actuation Single Double, Dual 3-port								
Number of solenoids	1	2						

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How to Order Valves



Option

Symbol	Specifications					
Nil	None					
B *1	With back pressure check valve (All stations)					
D	With DIN rail (Rail length: Standard)					
	Without DIN rail (with bracket)					
D □*2	With DIN rail Designated length (: Station)					
K ∗3	Special wiring specifications (Except double wiring)					
N	With name plate					
R *4	External pilot					

CE

*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.

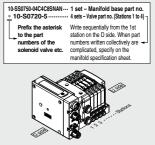
- *4: For details, refer to page 481.
- *: When two or more options are specified, indicate them alphabetically. Example) -BKN *: For manifold optional parts, refer to pages 481 to 484.
- *: For manifold exploded view, refer to page 487.
- *: When the SD0 (Without SI unit) is specified -D -D cannot be selected

Refer to the Web Catalog and the Operation Manual for the details of the EX260 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.



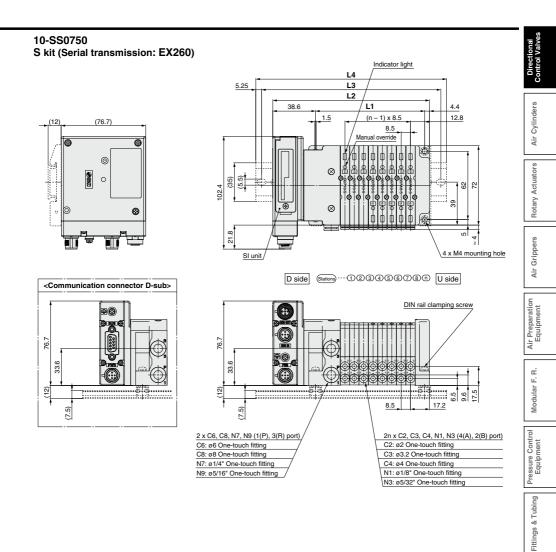
2

Δ

R

С

Plug-in Type Stacking Base EX260 (For Output) Serial Transmission System 10-S0700 Series



Dimensions	

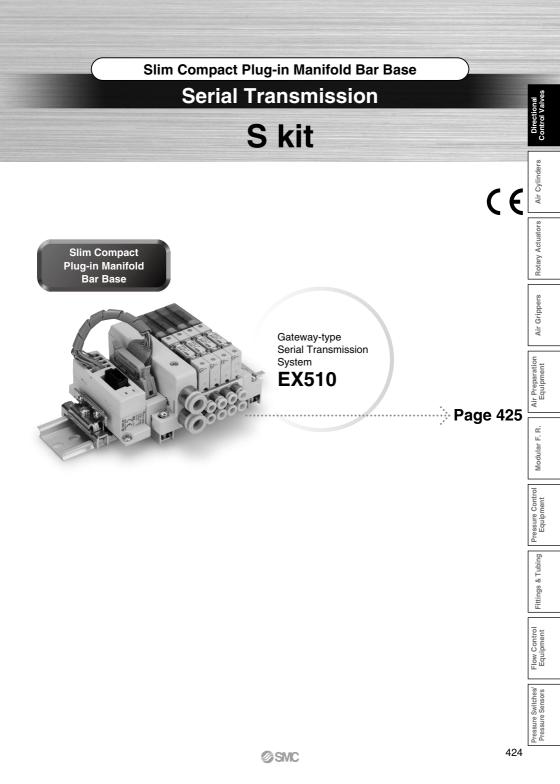
Dimer	Dimensions									101a L I = 8.5n + 31, L2 = 8.5n + 74				n: Station (Maximum 24 stations)			
~/	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
L1	39.5	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	
L2	82.5	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	
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	

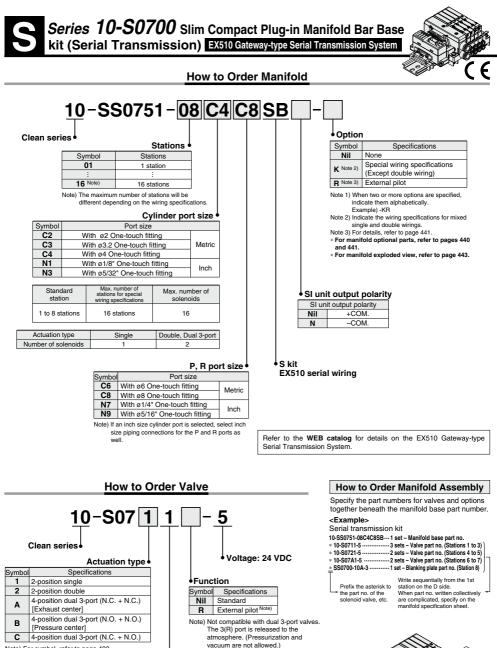
L n	17	18	19	20	21	22	23	24
L1	175.5	184	192.5	201	209.5	218	226.5	235
L2	218.5	227	235.5	244	252.5	261	269.5	278
L3	250	250	262.5	275	275	287.5	300	300
L4	260.5	260.5	273	285.5	285.5	298	310.5	310.5
								·



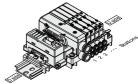
Flow Control Equipment

⊘SMC



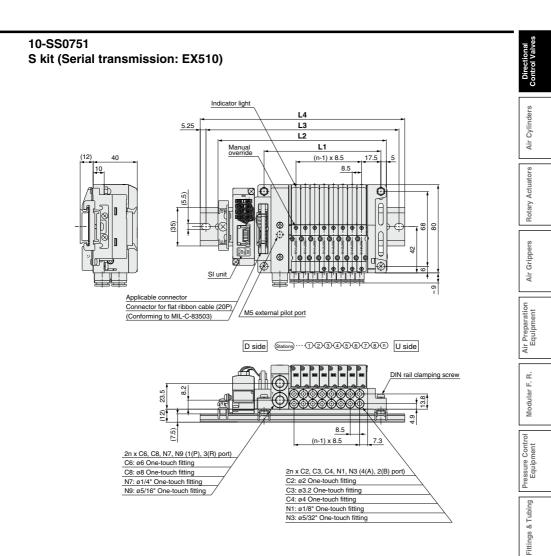


Note) For symbol, refer to page 423.



∕ SMC

Base mounted plug-in



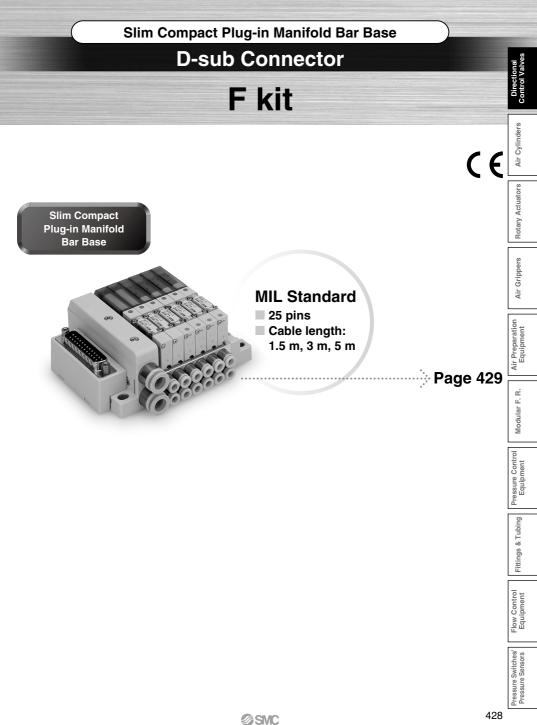
Dimensions									Formula L1 = 8.5n + 38, L2 = 8.5n + 84.7 n: Station (Maximum 16 station:						6 stations)
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174
L2	101.7	110.2	118.7	127.2	135.7	144.2	152.7	161.2	169.7	178.2	186.7	195.2	203.7	212.2	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

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Flow Control Equipment

Pressure Switches/ Pressure Sensors



Series 10-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 commercial connectors and gives a wide interchangeability.

Electrical Wiring Specifications

Connector

D-sub connector

0

012

50

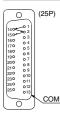
As the standard electrical wiring specifications, double wiring (connected to SOL.A and SOL.B) is adopted for the internal wiring of each station for 12 stations or less, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer to "Special Wiring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

D-sub connector assembly

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	\bigcirc	terminal no.	wire	color	AXT100)-DS25-030
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Polar	ity I		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			(—)	(+)	Black	None
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		014	()	(+)	Yellow	Black
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			()	(+)	Brown	None
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 15	()	(+)	Pink	Black
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Station 2		()	(+)	Red	None
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		O 16	()	(+)	Blue	White
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Station 4		()	(+)	Orange	None
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			(—)	(+)	Purple	None
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Station 5		()	(+)	Yellow	None
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			(—)	(+)	Gray	None
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Station 6		(—)	(+)	Pink	None
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			()	(+)	Orange	Black
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Station 7		(—)	(+)	Blue	None
$ \begin{array}{c cccc} \mbox{Station 8} & (& (& (& (& (& (& (& (& (& $			()	(+)	Red	White
$ \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \end{array} \\ & \begin{array}{c} & \end{array} \\ & \end{array} \\ & \end{array} \\ & \end{array} \\ \\ & \end{array} \\ \\ & \end{array} \\ & \end{array} \\ & \end{array} \\ & \end{array} \\ \\ & \end{array} \\ & \end{array} \\ \\ & \end{array} \\ & \end{array} \\ \\ \\ & \end{array} \\ \\ & \end{array} \\ \\ \\ & \end{array} \\ \\ & \end{array} \\ \\ \\ \\$	Station 8		(—)	(+)	Purple	White
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		O 21	()	(+)	Brown	White
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Station 9		()	(+)	Gray	Black
Station 10 { SOLB o 23 (-) (+) Gray Red Station 11 { SoLA o 11 (-) (+) White Red Station 11 { SoLB o 24 (-) (+) Black White Station 12 { SoLB o 24 (-) (+) Black White Station 12 { SoLB o 25 (-) (+) Yellow Red SOLA o 12 (-) (+) White None			()	(+)	Pink	Red
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Station 10		()	(+)	White	Black
Station 11 SOLB o 24 (-) (+) Black White Station 12 SoLA o 12 (-) (+) Yellow Red Station 12 SoLB o 25 (-) (+) White None COM. o 13 (+) (-) Orange Red Positive Negative Note) Note)			(—)	(+)	Gray	Red
Station 12 { SOLB 0 24 (-) (+) Black White Station 12 { SOLB 0 25 (-) (+) Yellow Red SOLB 0 25 (-) (+) White None <u>COM.</u> 0 13 (+) (-) Orange Red Positive Negative Note)	Station 11		()	(+)	White	Red
Station 12 Solution 12 Solution 12 Solution 25 (-) (+) White None COM. 0 13 (+) (-) Orange Red Positive Negative Note)			()	(+)	Black	White
COM. o 13 (+) (-) Orange Red Positive Negative ^{Note)}	Station 12		()	(+)	Yellow	Red
Positive Negative Note)		0 25	(—)	(+)	White	None
FOSILIVE NEGALIVE		COM. 0 13	(+)			Red
				ivegative	lote)	

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 valve

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.

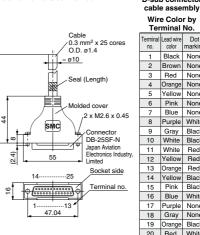
2. Wiring specifications

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 AXT100-DS25-030

015

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



D-sub Connector Cable Assembly (Option)

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

* For other commercial connectors, use a 25-

pin type with female connector conforming

to MIL-C-24308

* Cannot be used for movable wiring.

Electrical Characteristics

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

Example of
connector manufacturers
E Charles I Construct

21 Brown

22 Pink Red

23 Gray Red Black White

24 25 White None

Dot

marking

None

None

None

None

None

None

None

White

Black

Black

Red

Red

Red

Black

Black

White

None

None

Black

White

White

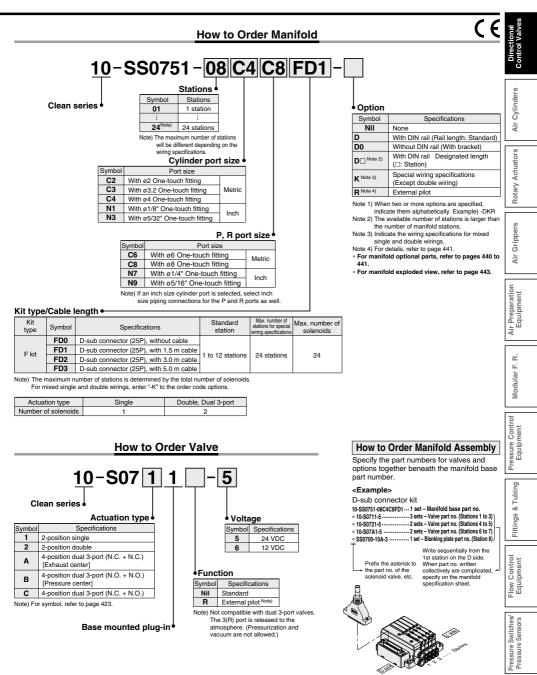
Fuiitsu Limited

- Japan Aviation Electronics Industry, Limited
- . J.S.T. Mfg. Co., Ltd.
- · HIROSE ELECTRIC CO., LTD.

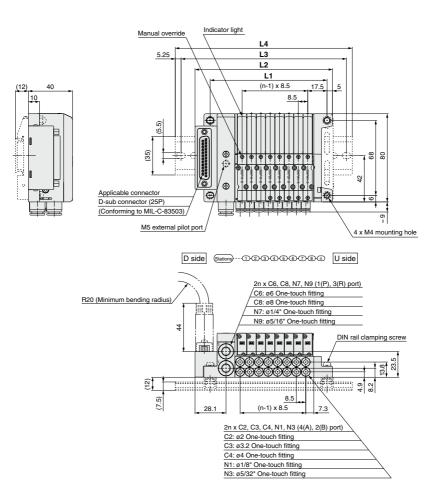
Note) The minimum bending radius of D-sub connector cable is 20 mm.





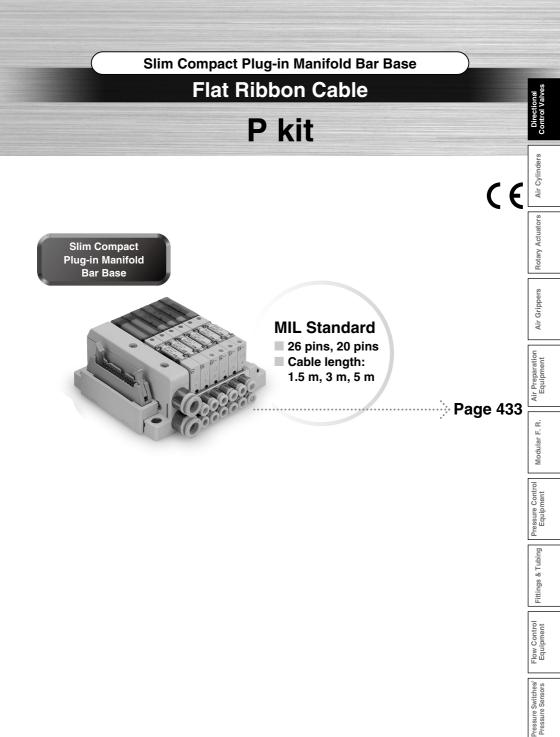


@SMC



Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 56.7 n: Station (M									laximu	m 24 st	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	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

SMC

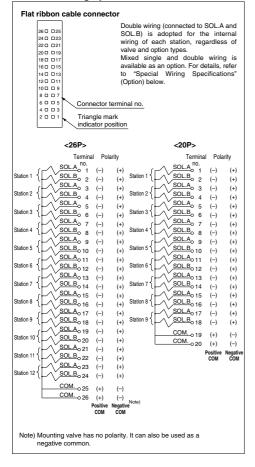




Series 10-S0700 Slim Compact Plug-in Manifold Bar Base kit (Flat Ribbon Cable)

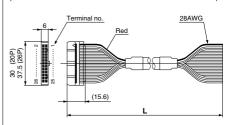
- Flat ribbon cable connector reduces installation labor for electrical connection.
- Using the connector for flat ribbon cable (26P, 20P) conforming to MIL standard permits the use of commercial connectors and gives a wide interchangeability.

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	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

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

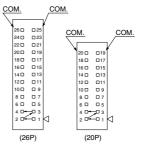
Cannot be used for movable wiring

Example of connector manufacturers

· HIROSE ELECTRIC CO., LTD.	Japan Aviation Electronics Industry, Limited
 3M Japan Limited 	• J.S.T. Mfg. Co., Ltd.
Fuiitsu Limited	Oki Electric Cable Co., Ltd.

Oki Electric Cable Co., Ltd.

Special Wiring Specifications (Option) [-K]



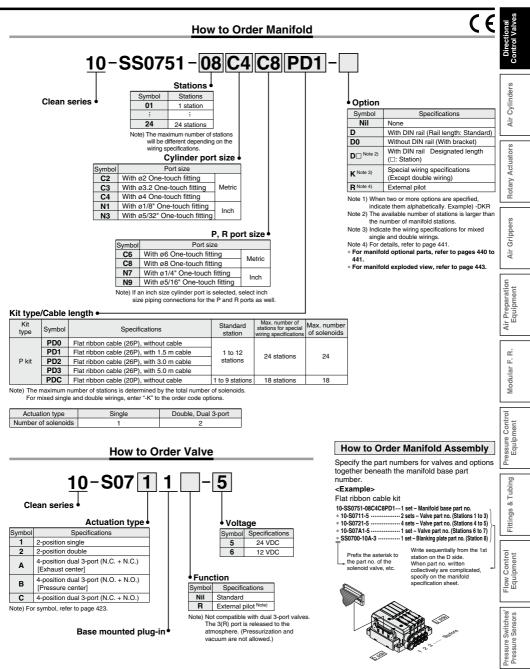
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24 for 26P, 18 for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

1. How to Order valve

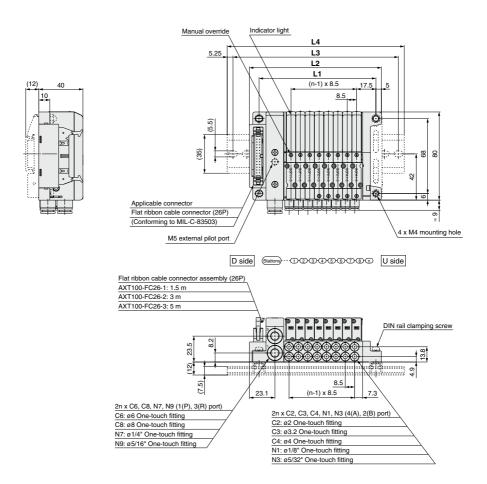
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

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.



Series 10-S0700 kit (Flat Ribbon Cable)



Dimen	Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 51.7 n: Station (Maximum 24 stations											ations)											
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

SMC

Series 10-S0700 Slim Compact Plug-in Manifold Bar Base 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: 8 g

Individual SUP spacer

SS0700-P-3-C

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

Weight: 15 g

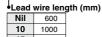
Individual EXH spacer

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.

Weight: 15 g

Blanking plate with output SS0700-3C-

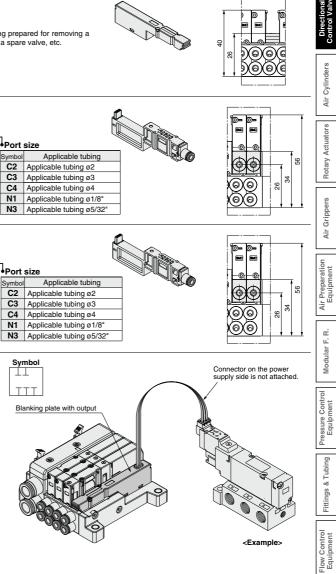


10
15
20
25
30

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

- 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: 23 g



Series 10-S0700 Slim Compact Plug-in Manifold Bar Base Manifold Optional Parts

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 Valve (Example) 10-S0710 B -5 External pilot
- How to Order Manifold (Example)

Indicate R for an option.
 10-SS0750-08C4FD1-<u>R</u>

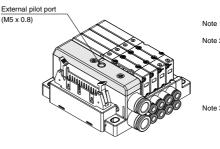
External pilot

DIN rail mounting bracket SS0700-57A-3

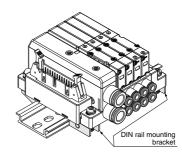
It is used for mounting a manifold on a DIN rail. The DIN rail mounting bracket is fixed to the manifold end plate. (The specification is the same as that for the option "-D".) 1 set of DIN rail mounting bracket is included

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.

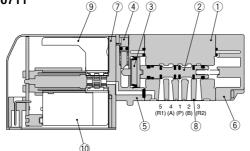


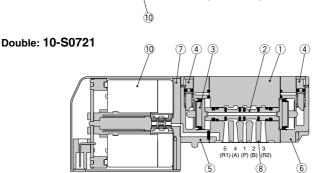
Note 1) Not compatible with dual 3-port valves. Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specifications of the external pilot valve. Note 3) Since the pilot EXH of valves with the external pilot specification also has a common exhaust specification, the 3(R) port should be released to the atmosphere.

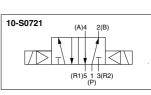


Series 10-S0700 Slim Compact Plug-in Manifold Bar Base Construction

Single: 10-S0711







(A)4 2(B)

(R1)5 1 3(R2) (P)

10-S0711

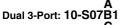
Directional Control Valves

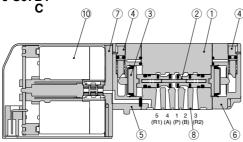
Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

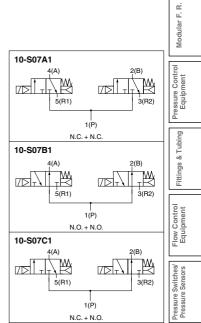




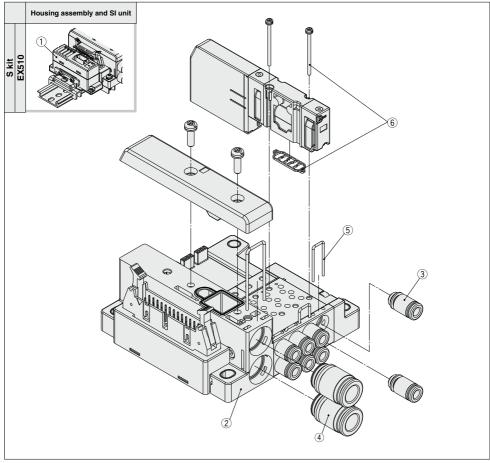
Component Parts

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



* It is not possible to increase or decrease the number of stations or change the wiring kit on the slim compact plug-in manifold bar base. To change them, please change the entire base unit.

es

Rotary Actuators

Air Grippers

Air Preparation Equipment

Ľ. Modular F.

Pressure Control Equipment

Fittings & Tubing

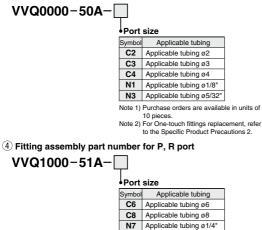
Flow Control Equipment

Pressure Switches/ Pressure Sensors

Manifold Assembly Part No.

				< 2
No.	Description	Part no.	Note	tior Va
	SI unit	EX510-S002A	NPN (Positive common)	Directional ontrol Valv
U	Si unit	EX510-S102A	PNP (Negative common)	ီပိ
2	Base unit	SS0751-000	Refer to How to Order for each kit.	
	ing assembly part nur Q0000-50A-	nber for cylinder port		Air Cylinders

3 Fitting assembly part number for cylinder port



N9 Applicable tubing ø5/16" Note 1) Purchase orders are available in units of

10 pieces.

Note 2) For One-touch fittings replacement, refer to the Specific Product Precautions 2.

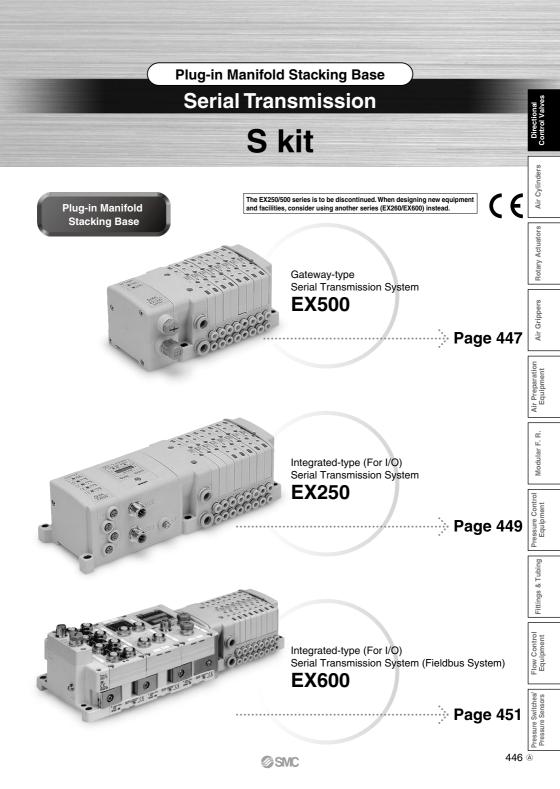
SMC

No.	Description	Part no.
(5)	Clip	SS0700-80A-5

Note) 1 set includes 10 pieces.

No.	Description	Part no.
6	Gasket, Screw	SS0700-GS-3

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



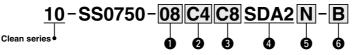
The EX500 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.



Series 10-S0700 Plug-in Manifold Stacking Base kit (Serial Transmission) EX500 Gateway-type Serial Transmission System



How to Order Manifold



0	Valve	e stations
	Stations	Note
01	1 station	
:	:	Double wiring
08	8 stations	
01	1 station	Specified layout*1
:	:	(Available up to 16 solenoids)
16	16 stations	(Available up to 10 soleriolds)

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

2 A, B port size

weinc	size				
C2	ø2 One-touch fitting				
C3	ø3.2 One-touch fitting				
C4	ø4 One-touch fitting				
CM *1	Mixed sizes and port plug				
Inch size					
N1	ø1/8" One-touch fitting				
N3	ø5/32" One-touch fitting				
NM *1	Mixed sizes and port plug				

*1: Indicate the sizes on the manifold specification sheet

B P, R port size

5120							
ø6 One-touch fitting							
ø8 One-touch fitting							
C8 ø8 One-touch fitting Inch size N7 ø1/4* One-touch fitting							
ø1/4" One-touch fitting							
ø5/16" One-touch fitting							

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

SI unit (Number of outputs, Max. number of valve stations)

SD0

Without SI unit

SDA2 16 outputs, 1 to 8 stations (16 stations)*1

*1: (): Maximum number of stations for mixed single and double wiring.

*: For SI unit part number, refer to page 444.

SI unit (Output polarity)

Nil	Positive common
Ν	Negative common
Ν	Negative common

*: Ensure a match with the common specification of the valve to be used.

*: Select Nil for without SI unit.

6 Option

C OP	
Nil	None
B *1	With back pressure check valve (All stations)
D	With DIN bracket, DIN rail with standard length
D0	With DIN bracket, without DIN rail
D □*2	With DIN bracket, DIN rail for stations
K ∗3	Special wiring specification (Except double wiring)
N	With name plate
R *4	External pilot

*1: When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the manifold specification sheet.

- *2: : Specify a longer rail than the length of valve stations. Example) -D08
- In this case, the valves will be mounted on the DIN rail for 8 stations, regardless of the number of manifold stations. *3: When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet
- *4: For external pilot option -R, indicate the external pilot specification R for the applicable valves as well.
- *: When multiple symbols are specified, indicate them alphabetically. Example) -BKN
- *: For manifold optional parts, refer to pages 481 to 484.
- *: For manifold exploded view, refer to page 487.

How to Order Manifold Assembly

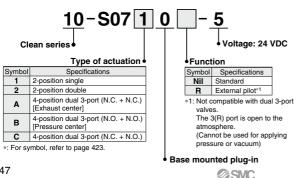
options together beneath the manifold base

<Example>

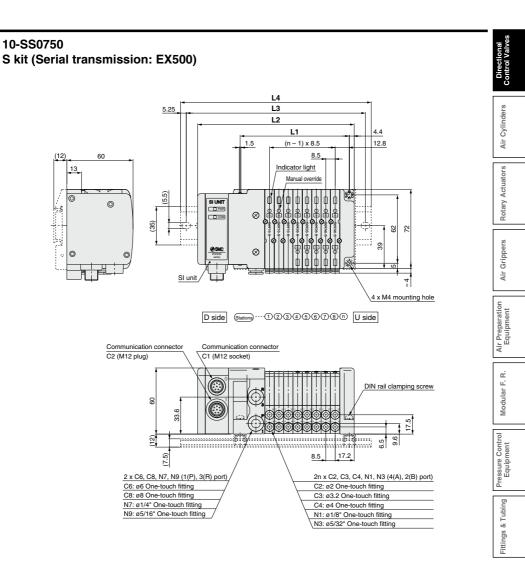
Serial transmission kit

* 10-S0720-5 2 sets * 10-S07A0-5 2 sets	- Manifold base part no. - Valve part no. (Stations 1 to 3) - Valve part no. (Stations 4 to 5) - Valve part no. (Stations 6 to 7) - Blanking plate part no. (Station 8)
Prefix the asterisk to the part no. of the solenoid valve, etc.	Write sequentially from the 1st station on the D side. When part no. written collectively are complicated, specify on the manifold specification sheet.

How to Order Valves



Specify the part numbers for valves and part number.



Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 74 n: Station (Maximum 16 station												stations)			
/_ /_	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

SMC

448 A

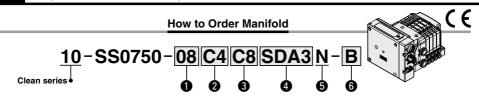
Flow Control Equipment

Pressure Switches/ Pressure Sensors

The EX500 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

Series 10-S0700 Plug-in Manifold Stacking Base

kit (Serial Transmission) EX500 Gateway-type Serial Transmission System 2



Valve stations					
	Stations	Note			
01	1 station				
1	:	Double wiring			
16	16 stations				
01	1 station	Considered lowerstal			
1	:	Specified layout*1 (Available up to 32 solenoids)			
24	24 stations	(Available up to 32 soleholds)			

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

2 A, B port size

wetric size					
ø2 One-touch fitting					
ø3.2 One-touch fitting					
ø4 One-touch fitting					
Mixed sizes and port plug					
Inch size					
ø1/8" One-touch fitting					
ø5/32" One-touch fitting					
Mixed sizes and port plug					

*1: Indicate the sizes on the manifold specification sheet.

9 P, R port size Metric size

C6	ø6 One-touch fitting		
C8	ø8 One-touch fitting		
Inch si	Inch size		
N7	ø1/4" One-touch fitting		
N9	ø5/16" One-touch fitting		

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

4 SI unit (Number of outputs, Max. number of valve stations)

SD0

Without SI unit

- *1: When using the SI unit with 32 outputs, use the GW unit compatible with the EX500 Gateway Decentralized System 2 (128 points).
- *2: 16 outputs can be set by switching the built-in setting switch.

*3: (): Maximum number of stations for mixed single and double wiring.

*: For SI unit part number, refer to page 444.

SI unit (Output polarity)

Nil	(Without SI unit)
N	Negative common

6 Option

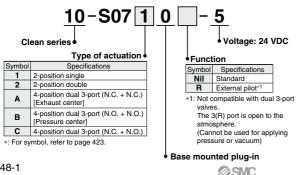
Nil	None
B *1	With back pressure check valve (All stations)
D	With DIN bracket, DIN rail with standard length
D0	With DIN bracket, without DIN rail
D □*2	With DIN bracket, DIN rail for stations
K ∗3	Special wiring specification (Except double wiring)
Ν	With name plate
R *4	External pilot

- *1: When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the manifold specification sheet.
- *2: : Specify a longer rail than the length of valve stations. Example) -D08
- In this case, the valves will be mounted on the DIN rail for 8 stations, regardless of the number of manifold stations. *3: When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet
- *4: For external pilot option -R, indicate the external pilot specification R for the applicable valves as well.
- *: When multiple symbols are specified, indicate them alphabetically. Example) -BKN
- *: For manifold optional parts, refer to pages 481 to 484.
- *: For manifold exploded view, refer to page 487.

How to Order Manifold Assembly

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

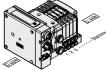
How to Order Valves



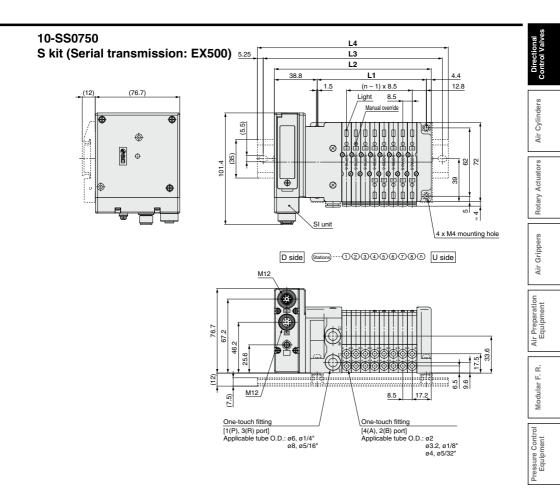
<Example>

Serial transmission kit

	1 set – Manifold base part no. 2 sets – 2-position double part no. 2 sets – 4-position dual 3-port part no.
Prefix the asterisk to the part numbers of the solenoid valve etc.	Write sequentially from the 1st station on the D side. When part numbers written collectively are → complicated, specify on the manifold specification sheet.



SDA3 32 outputs*1, 2, 1 to 16 stations (24 stations*3)



Dimen	sions							F	ormula L1	= 8.5n +	31, L2 =	8.5n + 7	4 n: Sta	tion (Max	kimum 24	stations)	- + e
L n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Control
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	0 2
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	Flow
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	Ξ
L4	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	
<hr/>																	0 0
L	17	18	19	20	21	22	23	24									che
L1	17 175.5	18 184	19 192.5	20 201	21 209.5	22 218	23 226.5	24 235									Sensor
L /																	ire Switches/ ure Sensors
<u>L1</u>	175.5	184	192.5	201	209.5	218	226.5	235									ssure Switche essure Sensor
L1 L2	175.5 218.5	184 227	192.5 235.5	201 244	209.5 252.5	218 261	226.5 269.5	235 278									Pressure Switche Pressure Sensor
L1 L2 L3	175.5 218.5 250	184 227 250	192.5 235.5 262.5	201 244 275	209.5 252.5 275	218 261 287.5	226.5 269.5 300	235 278 300	0							448-2	Pressure Pressure

Fittings & Tubing

The EX250 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

Series 10-S0700 Plug-in Manifold Stacking Base kit (Serial Transmission) EX250 Integrated-type (For Input/Output) Serial Transmission System How to Order Manifold 10-SS0750-08 C4 C8 SDQ Clean seri **(4**) 5 6

(1) Stations

Stations	
1 station	
:	
24 stations	
	1 station :

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	weuto
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	
C6	With ø6 One-touch fitting	Metric
C8	With ø8 One-touch fitting	wienic
N7	With ø1/4" One-touch fitting	Inch
N9	With ø5/16" One-touch fitting	men

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

(4) Kit type

(5) SI unit COM.

CI.	unit COM	EX250					
SI unit COM.		DeviceNet [®]	EtherNet/IP™				
Nil	+COM.	_	_	_			
N	-COM.	0	0	0			

Note) The symbol is nil for no SI unit (SD0).

6 Input block (for I/O unit only)				
Symbol	Specifications			
Nil	SI unit/Input block: None (SD0)			
0 Input block: None				
1	Input block: 1 pc.			
:	:			
8	Input block: 8 pcs.			
Note) The sym	bol is nil for no SI unit (SD0).			

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) The symbol is nil for no SI unit (SD0)

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

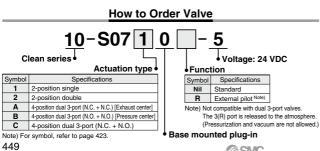
Symbol	Specifications						
Nil	Nil PNP sensor input (+COM.) or without input block						
N NPN sensor input (-COM.)							
Nete) The same all is all (some Olympic (ODO)							

Note) The symbol is nil for no SI unit (SD0)

	Kit type	Note 2) Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
		SD0	Without SI unit	1 4- 10	0.4	
		SDQ	DeviceNet [®]	1 to 12 stations	24 stations	24
	For I/O	SDZEN	EtherNet/IP™	31410113	310113	
S kit			AS-Interface, 8 in/8 out, 2 isolated common type	1 to 4 stations	8 stations	8
	transmission	SDTB	AS-Interface, 4 in/4 out, 2 isolated common type	1 to 2 stations	4 stations	4
		SDTC	AS-Interface, 8 in/8 out, 1 common type	1 to 4 stations	8 stations	8
		SDTD	AS-Interface, 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 444.

,		
Actuation type	Single	Double, Dual 3-port
Number of solenoids	1	2



(9) Option

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

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 Note 5) For details, refer to page 481

* For manifold optional parts, refer to pages 481 to 484.

* For manifold exploded view, refer to page 487.

Refer to the WEB catalog for details on the EX250 Integrated-type (For Input/Output) Serial Transmission System.

How to Order Manifold Assembly

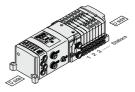
Specify the part numbers for valves and options together beneath the manifold base part number.

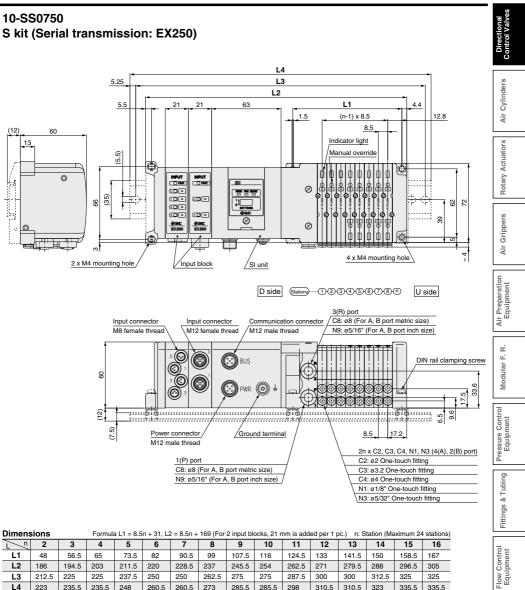
<Example>

Serial transmission kit

- 10-SS0750-08C4C8SDQN13N --- 1 set Manifold base part no.
- * 10-S0720-5 2 sets Valve part no. (Stations 4 to 5) * 10-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 no. of the noid valve, etc.

Write sequentially from the 1st station on the D side When part no. written collectively are complicated. specify on the manifold specification sheet

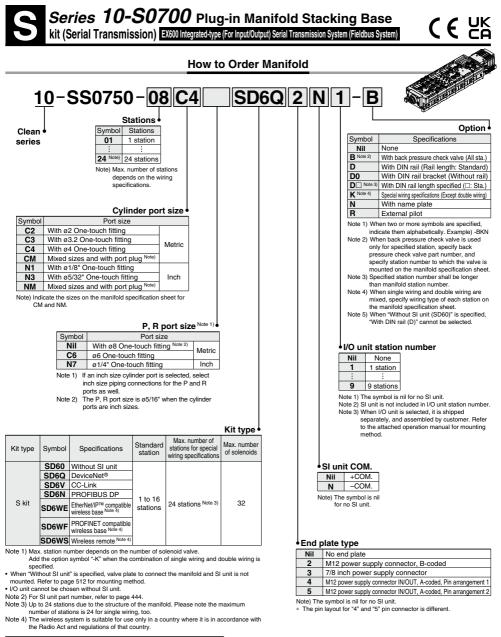




L4 223 235.5 235.5 260.5 260.5 273 285.5 285.5 17 18 19 20 21 22 23 24 L1 175.5 184 192.5 201 209.5 218 226.5 235 L2 313.5 347.5 364.5 322 330.5 339 356 373 L3 337.5 350 350 362.5 375 387.5 387.5 400 L4 348 360.5 360.5 385.5 398 398 410.5 373

Plug-in Manifold Stacking Base 10-S0700

Pressure Switches/ Pressure Sensors



 Actuation type
 Single
 Double, Dual 3-port

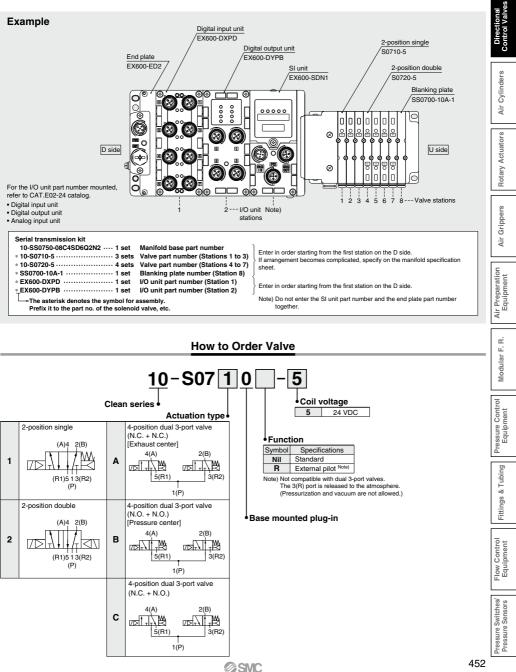
 Number of solenoid valves
 1
 2

SMC

Refer to the Fieldbus System (For Input/Output) catalog CAT.E02-24 for

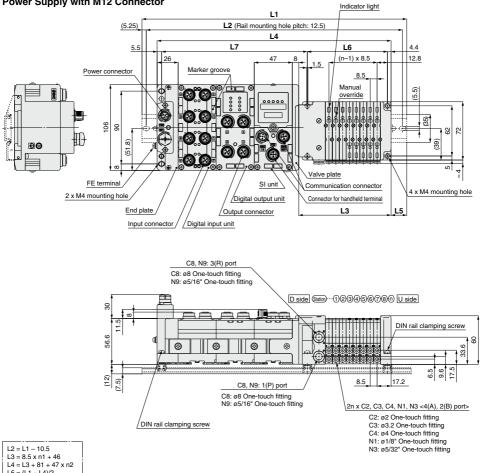
details on the EX600 Integrated-type (For I/O) Serial Transmission System.

How to Order Manifold Assembly (Example)



Series 10-S0700 Plug-in Manifold Stacking Base kit (Serial Transmission) EX600 Integrated-type (For Input/Output) Serial Transmission System (Fieldbus System)

Power Supply with M12 Connector

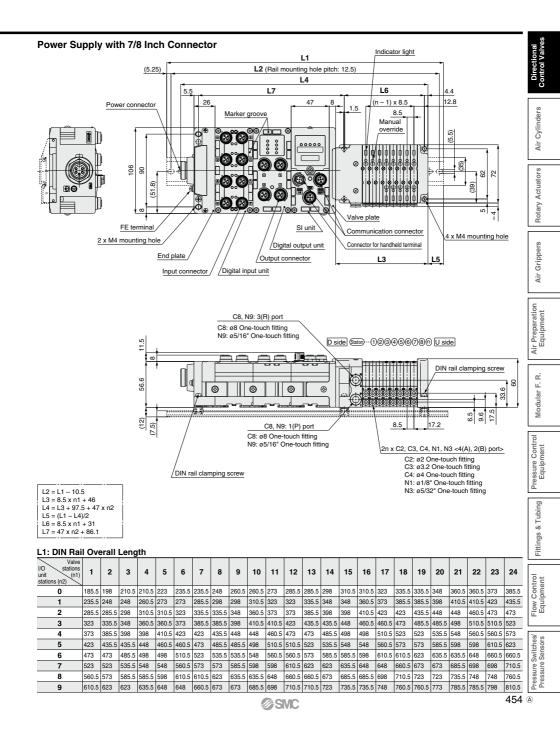


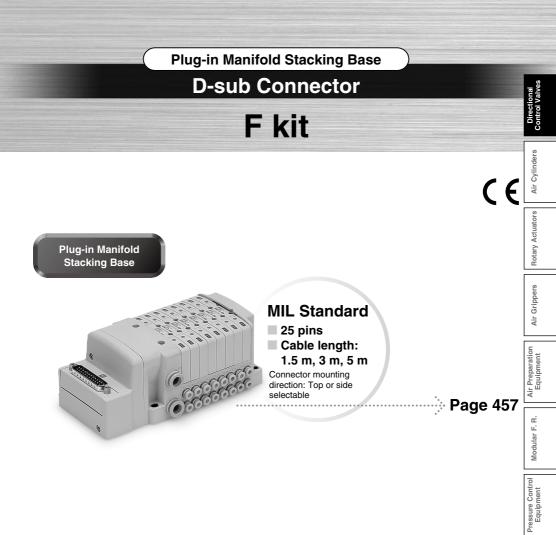
L3 = 8.5 x n1 + 46
L4 = L3 + 81 + 47 x n2
L5 = (L1 - L4)/2
L6 = 8.5 x n1 + 31
L7 = 47 x n2 + 86.1

L1: DIN Rail Overall Length

Valve VO 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







Fittings & Tubing

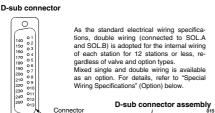
Flow Control Equipment

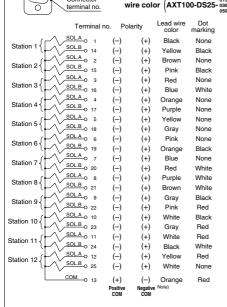
Pressure Switches/ Pressure Sensors

Series 10-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 commercial connectors and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.

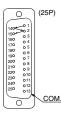
Electrical Wiring Specifications





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 valve

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.

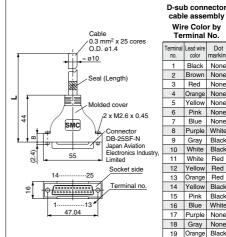
2. Wiring specifications

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



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



D-sub Connector able Assembly (Ontion)

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

* For other commercial connectors, use a 25-

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

* Cannot be used for movable wiring.

Electrical Characteristics

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

Example of connector manufacturers

20 Red

21

22

23 Grav

24

25 White

Brown

Pink Red

Black White

Dot

marking

None

None

None

None

None

None

None

White

Black

Black

Red

Red

Rod

Black

Black

White

None

None

Black

White

White

Red

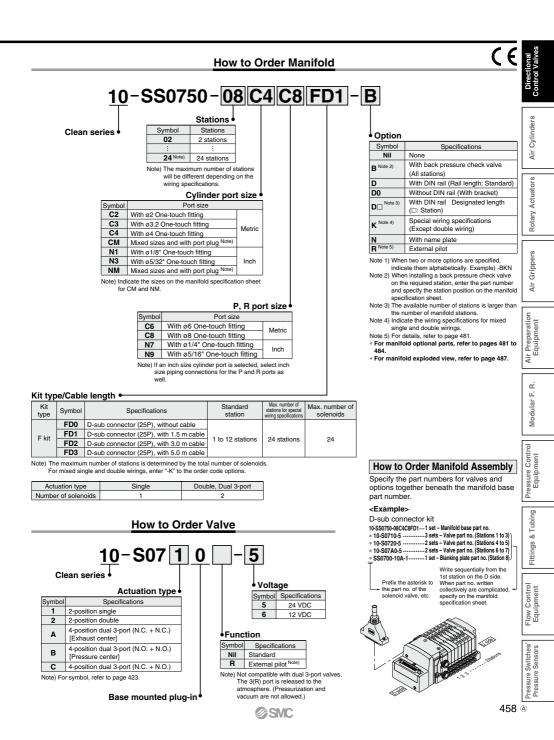
None

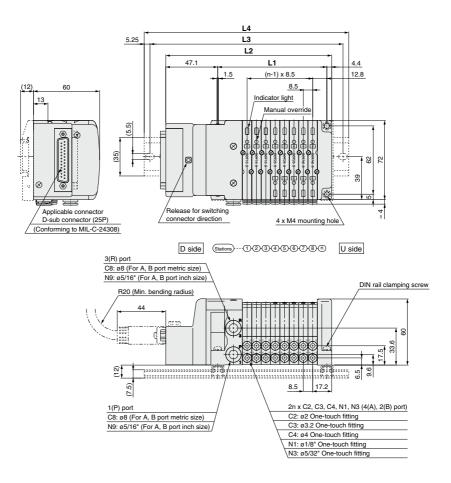
· Fujitsu Limited

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

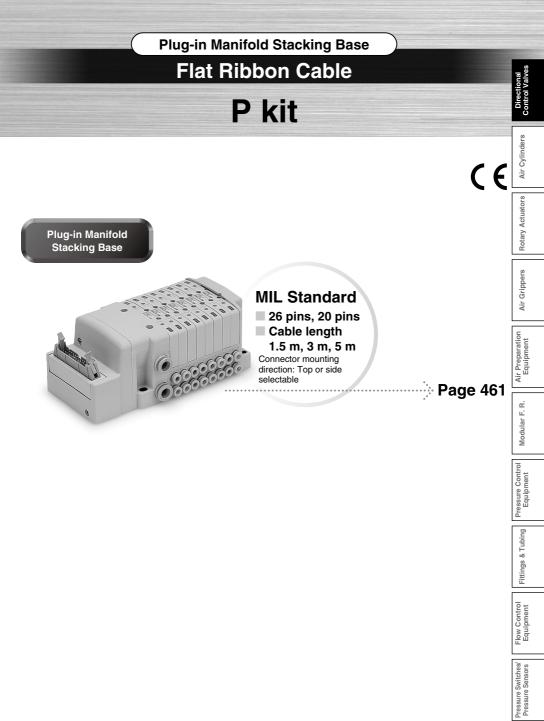
Note) The minimum bending radius of D-sub connector cable is 20 mm.







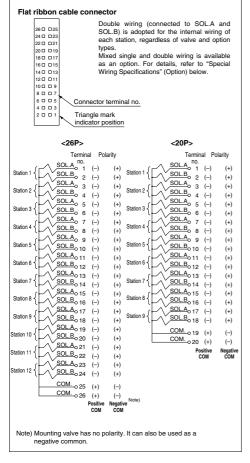
Dimen	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 24 stations								tations)														
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	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



Series 10-S0700 Plug-in Manifold Stacking Base kit (Flat Ribbon Cable)

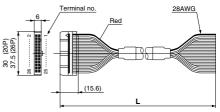
- Flat ribbon cable connector reduces installation labor for electrical connection.
- Using the connector for flat ribbon cable (26P, 20P) conforming to MIL standard
- permits the use of commercial connectors and gives a wide interchangeability.
 Top or side receptacle position can be selected in accordance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

Electrical Wiring Specifications



Cable Assembly





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						

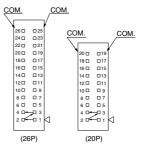
 For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.

* Cannot be used for movable wiring.

Example of connector manufacturers

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

Special Wiring Specifications (Option) [-K]



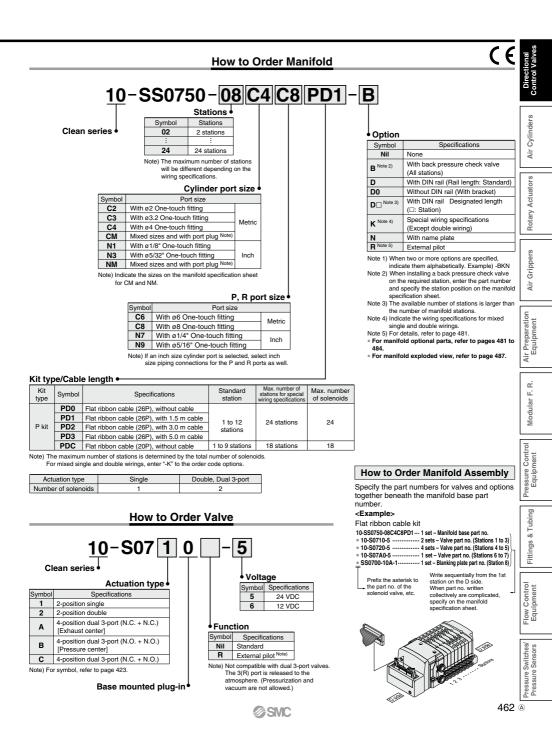
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the unmber of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exced 24 for 26P, 18 for 20P.

1. How to Order valve

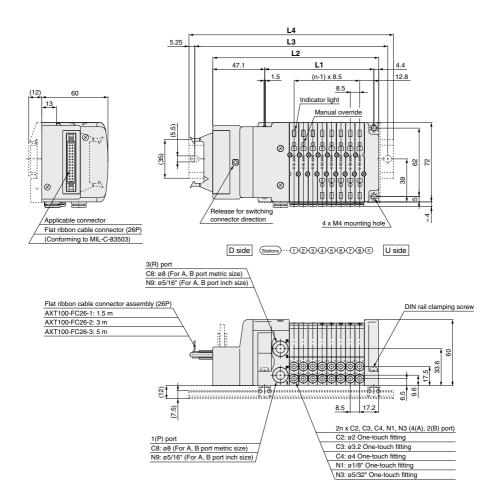
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

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.

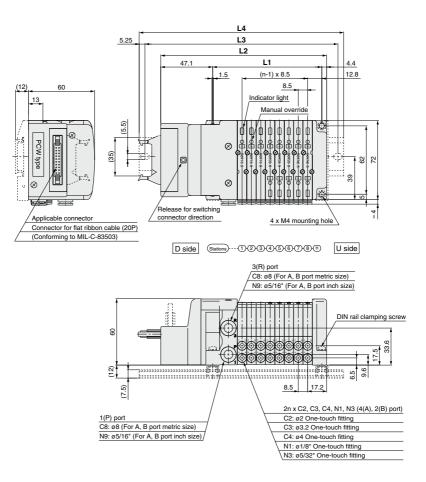


Series 10-S0700 kit (Flat Ribbon Cable)

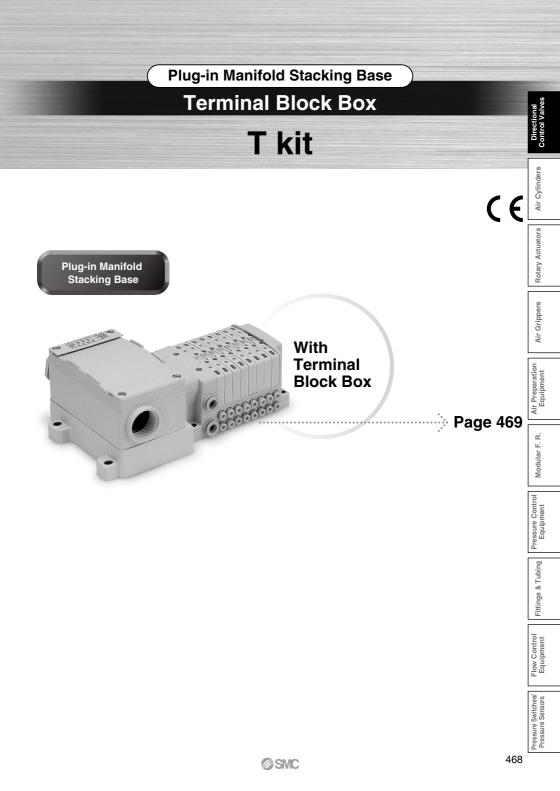


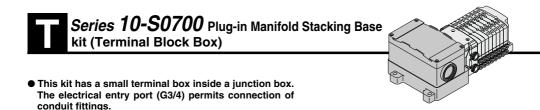
Dimen	nensions											Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 24 station									ations)		
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	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



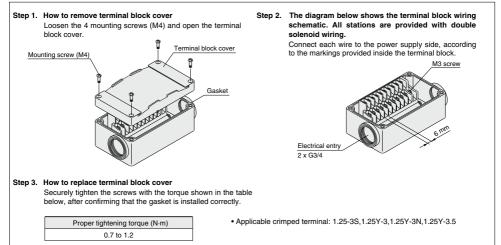


Dimens	sions							Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 16 station									
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167		
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5		
L3	125	137.5	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		

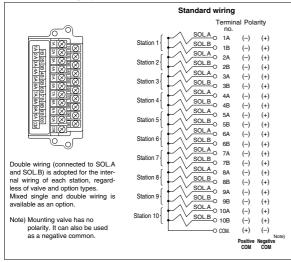




Terminal Block Connection



Electrical Wiring Specifications



Special Wiring Specifications (Option) [-K]

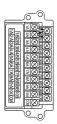
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 20.

1. How to Order valve

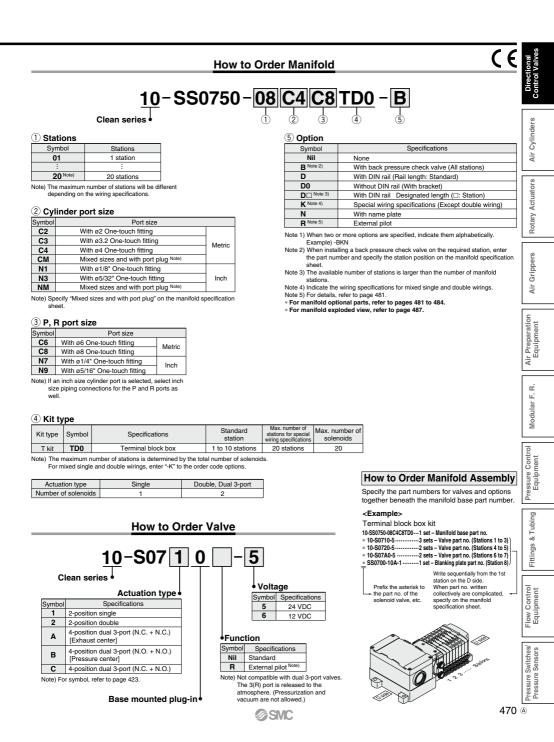
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

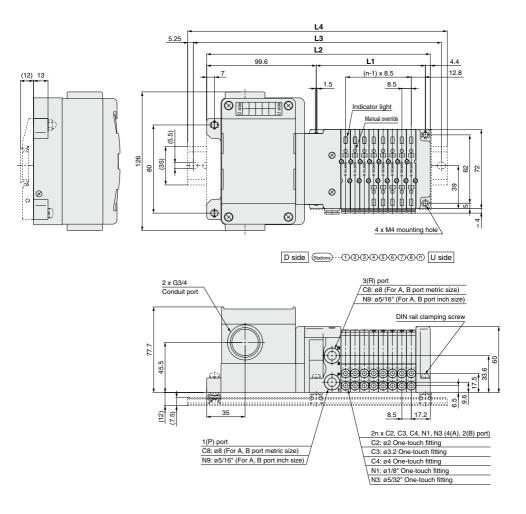
2. Wiring specifications

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.

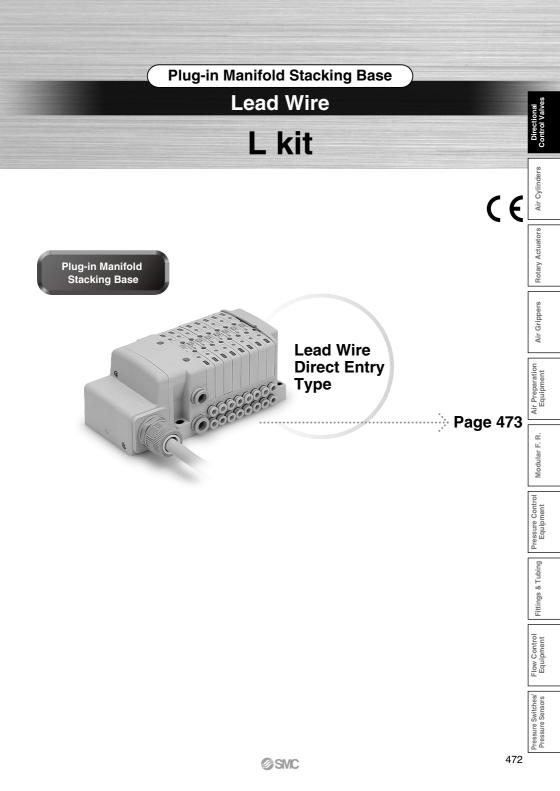








Dimens	imensions												Formula L1 = 8.5n + 31, L2 = 8.5n + 135						n: Station (Maximum 20 stations)				
L _ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201				
L2	152	160.5	169	177.5	186	194.5	203	211.5	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				



Series 10-S0700 Plug-in Manifold Stacking Base kit (Lead Wire)

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, re-

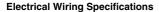
Mixed single and double wiring is available

as an option. For details, refer to "Special

gardless of valve and option types.

Wiring Specifications" (Option) below.

Direct electrical entry type



Lead wire specifications

Lead wire

0.3 mm² x 25 cores

Sheath Color: White

		erminal	Pola	arity	Lead wire	Dot marking
ر <i>_</i>	\ SOL.A	4	()	(+)	Black	None
Station 1		14	(-)	(+)	Yellow	Black
لل ا	√ SOL.A	2	(-)	(+)	Brown	None
Station 2		15	(-)	(+)	Pink	Black
L.	SOL.A	3	(-)	(+)	Bed	None
Station 3	SOL.B	16	(-)	(+)	Blue	White
L.	SOL.A	4	(-)	(+)	Orange	None
Station 4 {	SOL.B	17	(-)	(+)	Purple	None
L.	SOL.A	5	(-)	(+)	Yellow	None
Station 5 {	SOL.B	18	(-)	(+)	Grav	None
Ľ	SOL.A	6	(-) (-)	(+)	Pink	None
Station 6 {		10	(-) (-)	(+)	Orange	Black
Ľ	SOL.A	7	(-) (-)	(+)	Blue	None
Station 7 {		20	(-) (-)	(+)	Bed	White
Ľ	SOL.A	20	() ()	(+)	Purple	White
Station 8 {	SOL.B	21	() ()	(+)	Brown	White
	SOL.A	21	. ,	. ,		Black
Station 9	SOL.B	9	(-)	(+)	Gray Pink	Black Red
	SOL.A	22	(-)	(+)		
Station 10 {	SOL.B	10	(-)	(+)	White	Black
	SOL.A	23	(-)	(+)	Gray	Red
Station 11			(-)	(+)	White	Red
	SOL.A		(-)	(+)	Black	White
Station 12 {	SOL.B	12	(-)	(+)	Yellow	Red
ιĻ			()	(+)	White	None
	COM. o	13	(+)	(-)	Orange	Red
		F	Positive COM	Negative COM	ote)	

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

Special Wiring Specifications (Option) [-K]

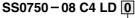
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24.

1. How to Order valve

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





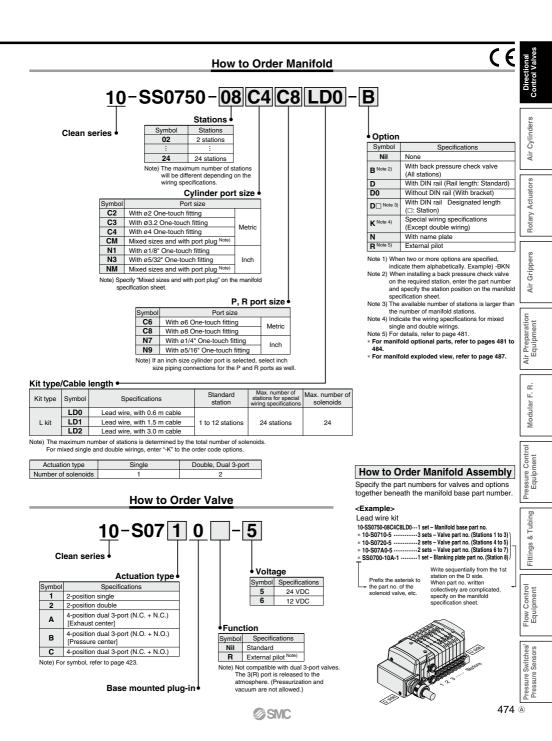
Electrical Characteristics

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

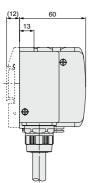
Note) Cannot be used for movable wiring. The minimum bending radius of cable is 20 mm.

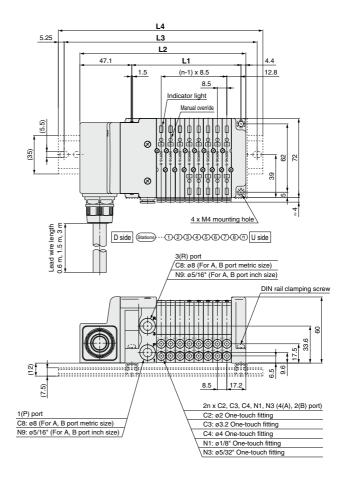
473



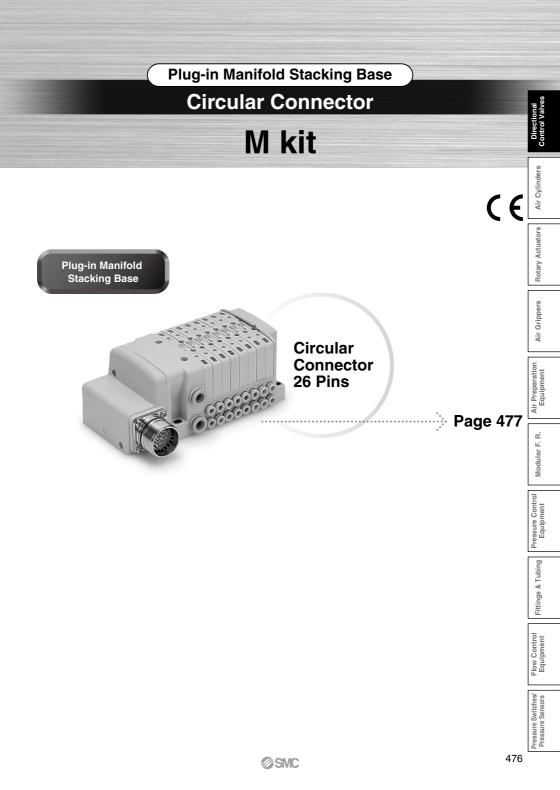


Series 10-S0700 kit (Lead Wire)



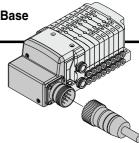


Dimen	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5															n: Sta	n: Station (Maximum 24 stations)						
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	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

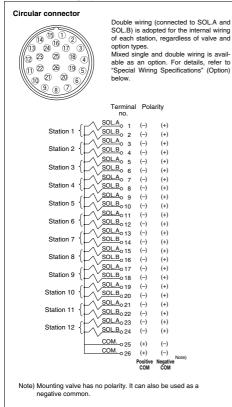


Series 10-S0700 Plug-in Manifold Stacking Base kit (Circular Connector)

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



Electrical Wiring Specifications



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 valve

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.

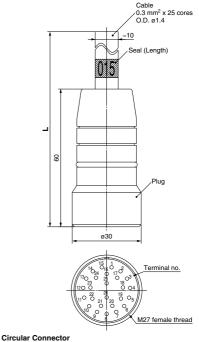
2. Wiring specifications

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. 477

Cable Assembly



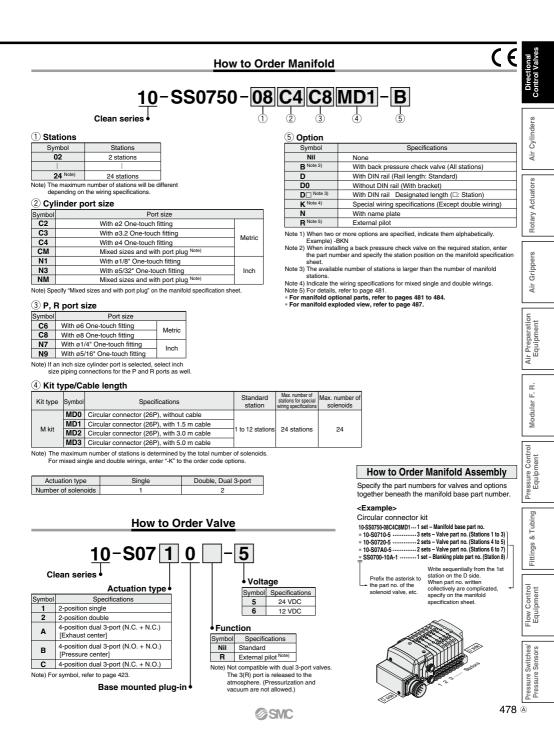
(Circular connector assembly (26P type) can be included in a specific manifold model number. Refer to "How to Order Manifold."



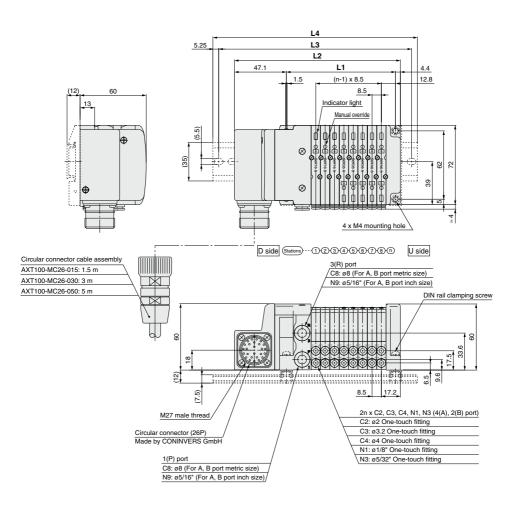
Cable Assembly (Option)

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





Series 10-S0700 kit (Circular Connector)



Dimen	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5														- 82.5	n: Station (Maximum 24 stations)							
L ^r	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



Pressure Switches ¹ Flow Control Fittings & Tubing Equipment Modular F. R. Air Preparation Air Grippers
witches/ Equipment Equipment Modular F. R. Actional Equipment Equipment Equipment
witches/ Flow Control Fittings & Tubing Freesure Control Modular F. Sensors
witches/ Flow Control Fittings & Tubing Pressure. Sensors Equipment
Witches Flow Control Fittings & Tubin Sensors Equipment
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Pressure Switches/ Pressure Sensors

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Series 10-S0700 Plug-in Manifold Stacking Base

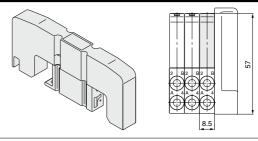
Manifold Optional Parts

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: 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 Valve (Example) 10-S0710 R ⊤ -5

External pilot

How to Order Manifold (Example)

Indicate R for an option.
 10-SS0750-08C4FD1-R

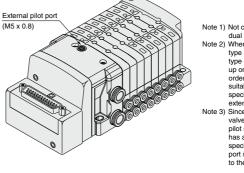
• External pilot

Individual SUP/EXH spacer

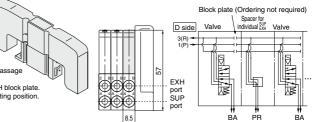
SS0700-PR-1

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.
- The spacer comes with a SUP block plate and an EXH block plate
- * Electrical wiring is also connected to the spacer mounting position.



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) Since the pilot EXH of valves with the external pilot specification also has a common exhaust specification, the 3(R) port should be released to the atmosphere.



4.2

1.5

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.

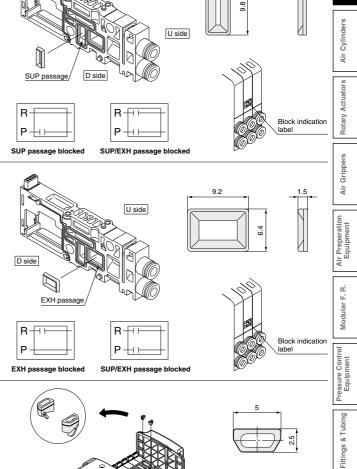
* Specify the number of stations on the manifold specification sheet.

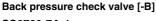
<Block indication label>

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





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

- Switches/ Sensors 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 Pressure at the exhaust port.
- 2. When a back pressure check valve is mounted, the effective area of the valve will decrease by about 20%



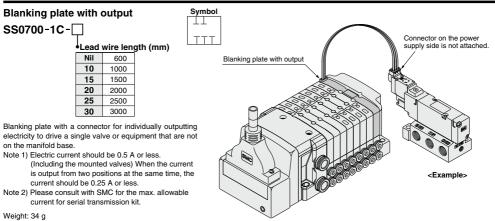
A Precautions

Control

Flow Control Equipment

Pressure

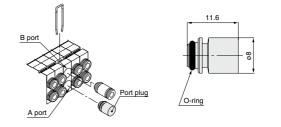
Series 10-S0700 Plug-in Manifold Stacking Base Manifold Optional Parts



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.



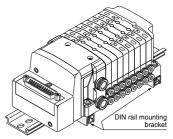
DIN rail mounting bracket



•	
Symbol	Specifications
Nil	S (EX500), F, P, 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.

₿SMC

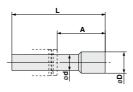
Blanking plug (For One-touch fittings)



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

Purchasing order is available in units of 10 pieces.

483



Dimensio	ns				(mm)
Applicable fitting size ød	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

Control Valves

Air Cylinders

Actuators

Rotary

Grippers

Air

7.5

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) 10-SS0750-08C4FD0-D09K

8-station manifold

Optional symbol (alphabetically)

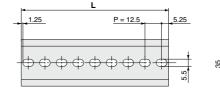
DIN rail for 9 stations

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.



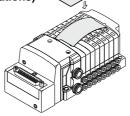
I Dimension

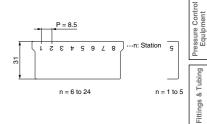
L Dimension L = 12.5 x n + 10.5														
No.	1	2	3	4	5	6	7	8	9	10	_			
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	paration			
											ra			
No.	11	12	13	14	15	16	17	18	19	20	ede ud			
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	r Preparatio Equipment			
											Air			
No.	21	22	23	24	25	26	27	28	29	30	A			
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	<u> </u>			
L dimension	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	1			
											Modular			
Name pla	ate [-N]				100						Mo			

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.

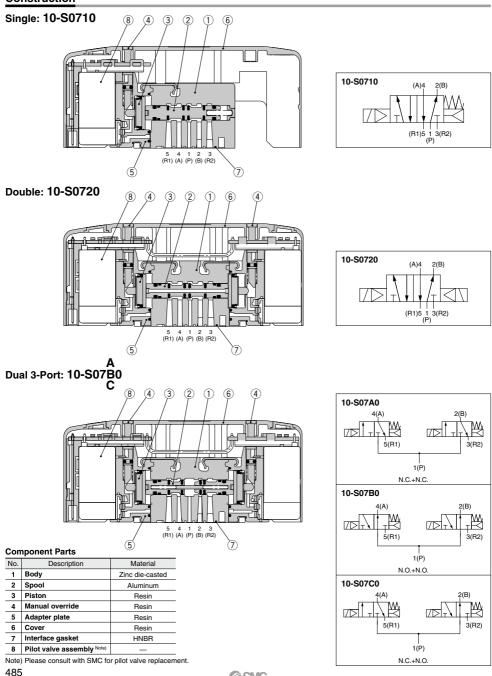




Flow Control Equipment

Pressure Switches/ Pressure Sensors

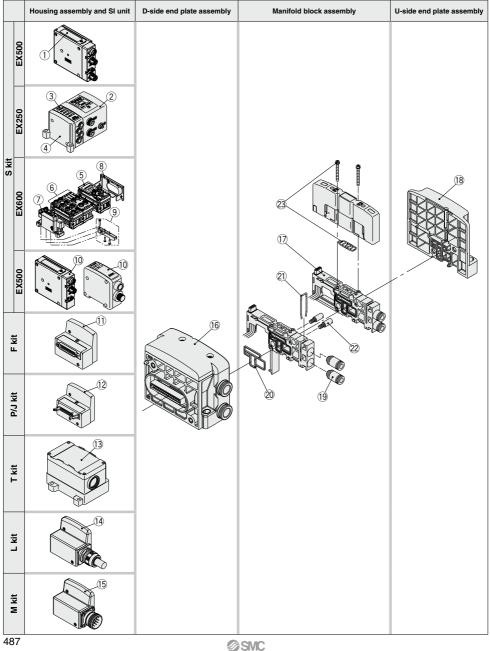
Series 10-S0700 Plug-in Manifold Stacking Base Construction



SMC



Series 10-S0700/Plug-in Manifold Manifold Exploded View



Plug-in Manifold 10-S0700

Se

Manifold Assembly Part No.

<Housing Assembly and SI Unit, Input Block>

No.	Description	Part no.	Note
		EX260-SDN1	DeviceNet® M12 connector, 32 outputs, PNP (Negative common)
		EX260-SDN2	DeviceNet® M12 connector, 32 outputs, NPN (Positive common)
		EX260-SDN3	DeviceNet® M12 connector, 16 outputs, PNP (Negative common)
		EX260-SDN4	DeviceNet® M12 connector, 16 outputs, NPN (Positive common)
		EX260-SPR1	PROFIBUS DP M12 connector, 32 outputs, PNP (Negative common)
		EX260-SPR2	PROFIBUS DP M12 connector, 32 outputs, NPN (Positive common)
		EX260-SPR3	PROFIBUS DP M12 connector, 16 outputs, PNP (Negative common)
		EX260-SPR4	PROFIBUS DP M12 connector, 16 outputs, NPN (Positive common)
		EX260-SPR5	PROFIBUS DP D-sub connector, 32 outputs, PNP (Negative common)
		EX260-SPR6	PROFIBUS DP D-sub connector, 32 outputs, NPN (Positive common)
		EX260-SPR7	PROFIBUS DP D-sub connector, 16 outputs, PNP (Negative common)
		EX260-SPR8	PROFIBUS DP D-sub connector, 16 outputs, NPN (Positive common)
		EX260-SMJ1	CC-Link M12 connector, 32 outputs, PNP (Negative common)
~	Evene et al	EX260-SMJ2	CC-Link M12 connector, 32 outputs, NPN (Positive common)
1	EX260 SI unit	EX260-SMJ3	CC-Link M12 connector, 16 outputs, PNP (Negative common)
		EX260-SMJ4	CC-Link M12 connector, 16 outputs, NPN (Positive common)
		EX260-SEC1	EtherCAT M12 connector, 32 outputs, PNP (Negative common)
		EX260-SEC2	EtherCAT M12 connector, 32 outputs, NPN (Positive common)
		EX260-SEC3	EtherCAT M12 connector 16 outputs, PNP (Negative common)
		EX260-SEC4	EtherCAT M12 connector, 16 outputs, NPN (Positive common)
		EX260-SE04	PROFINET M12 connector, 32 outputs, PNP (Negative common)
		EX260-SPN2	PROFINET M12 connector, 32 outputs, NPN (Positive common)
		EX260-SPN2 EX260-SPN3	PROFINET M12 connector, 16 outputs, NPN (Positive common)
		EX260-SPN3 EX260-SPN4	PROFINET M12 connector, 16 outputs, PNP (Negative common)
		EX260-SEN1	EtherNet/IP™ M12 connector, 32 outputs, PNP (Negative common)
		EX260-SEN1 EX260-SEN2	EtherNet/IP™ M12 connector, 32 outputs, NPN (Negative common)
		EX260-SEN2 EX260-SEN3	EtherNet/IP™ M12 connector 16 outputs, NPN (Positive common)
		EX260-SEN3	EtherNet/IP™ M12 connector, 16 outputs, NPN (Positive common)
		EX250-SEN4	DeviceNet® PNP (Negative common)
			PROFIBUS DP PNP (Negative common)
		EX250-SPR1	AS-Interface 31 slave, 8 in/8 out, 2 isolated common type, PNP (Negative common)
		EX250-SAS3	
2	EX250 SI unit	EX250-SAS5	AS-Interface 31 slave, 4 in/4 out, 2 isolated common type, PNP (Negative common)
~		EX250-SAS7	AS-Interface 31 slave, 8 in/8 out, 1 common type, PNP (Negative common)
		EX250-SAS9	AS-Interface 31 slave, 4 in/4 out, 1 common type, PNP (Negative common)
		EX250-SCA1A	CANopen PNP (Negative common)
		EX250-SEN1	EtherNet/IP™ PNP (Negative common)
~		EX250-IE1	M12 2 inputs
3	EX250 input block	EX250-IE2	M12 4 inputs
		EX250-IE3	M8 4 inputs
(4)	EX250 end plate assembly	EX250-EA1	Direct mounting
9	EA250 end plate assembly	EX250-EA2	DIN rail mounting
		EX600-SDN1A	DeviceNet® PNP (Negative common)
		EX600-SDN2A	DeviceNet® NPN (Positive common)
		EX600-SMJ1	CC-Link PNP (Negative common)
		EX600-SMJ2	CC-Link NPN (Positive common)
		EX600-SPR1A	PROFIBUS DP PNP (Negative common)
Ē	EX600 SI unit	EX600-SPR2A	PROFIBUS DP NPN (Positive common)
(5)	EAOUU SI UNIT	EX600-WEN1 Note)	Wireless base module EtherNet/IP™ PNP (Negative common)
		EX600-WEN2 Note)	
		EX600-WPN1 Note)	
		EX600-WPN2 Note)	Wireless base module PROFINET NPN (Positive common)
		EX600-WSV1 Note)	Wireless remote module PNP (Negative common)
		EX600-WSV2 Note)	Wireless remote module NPN (Positive common)
		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-DXPD	NPN input, M8 connector, 3 pins (4 pcs.), 8 inputs
6)		EX600-DXNC1	NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs, with open circuit detection
		EX600-DXNCT	PNP input, M8 connector, 3 pins (8 pcs.), 8 inputs, with open circuit detection 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		
6		EX600-DXND	NPN input, M12 connector, 5 pins (8 pcs.), 16 inputs
6		EX600-DXPD	PNP input, M12 connector, 5 pins (8 pcs.), 16 inputs
6			
6		EX600-DXNE	NPN input, D-sub connector, 25 pins, 16 inputs
6		EX600-DXPE	PNP input, D-sub connector, 25 pins, 16 inputs
6			

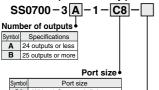
Note) The wireless system is suitable for use only in a country where it is in accordance with the Radio Act and regulations of that country.

Manifold Assembly Part No.

<Housing Assembly and SI Unit. Input Block>

Description	Part no.	Note		
	EX600-DYNB	NPN output, M12 connector, 5 pins (4 pcs.), 8 outputs		
	EX600-DYPB	PNP output, M12 connector, 5 pins (4 pcs.), 8 outputs		
EXCOLUTION IN THE REAL PROPERTY OF	EX600-DYNE	NPN output, D-sub connector, 25 pins,16 outputs		
Ex600 digital output unit	EX600-DYPE	PNP output, D-sub connector, 25 pins, 16 outputs		
	EX600-DYNF	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 digital I/O upit	EX600-DMPE	PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs		
	EX600-DMNF	NPN input/output, Spring type terminal block, 32 pins, 8 inputs/outputs		
	EX600-DMPF	PNP input/output, Spring type terminal block, 32 pins, 8 inputs/outputs		
		M12 connector, 5 pins (2 pcs.), 2-channel input		
	EX600-AYA	M12 connector, 5 pins (2 pcs.), 2-channel output		
EX600 analog I/O unit	EX600-AMB	M12 connector, 5 pins (4 pcs.), 2-channel input/output		
	EX600-ED2	M12 connector, 5 pins		
EX600 end plate	EX600-ED2-2	M12 connector, 5 pins, with DIN rail mounting bracket		
	EX600-ED3	7/8 inch connector, 5 pins		
	EX600-ED3-2	7/8 inch connector, 5 pins, with DIN rail mounting bracket		
	EX600-ED4	M12 connector (4 pins/5 pins) IN/OUT		
		M12 connector (4 pins/5 pins) IN/OUT, with DIN rail mounting bracket		
	EX600-ED5	M12 connector (4 pins/5 pins) IN/OUT		
	EX600-ED5-2	M12 connector (4 pins/5 pins) IN/OUT, with DIN rail mounting bracket		
		Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs.		
EX600 bracket for end plate	K600 bracket for end plate EX600-ZMA2 This bracket is used for the end plate of DIN rail mour			
	EX500-S103	EX500 Gateway Decentralized System 2 Negative common (PNP)		
EX500 SI unit		EX500 Gateway Decentralized System Positive common (NPN)		
	EX500-Q101	EX500 Gateway Decentralized System Negative common (PNP)		
D-sub connector housing assembly		F kit, 25 pins		
Elet ribbon coble boucing cocombly		P kit, 26 pins		
•	VVQC1000-P20-1	P kit, 20 pins		
Flat ribbon cable housing assembly Flat ribbon cable PC wiring system compatible	VVQC1000-J20-1	J kit, 20 pins		
Terminal block box housing assembly	VVQC1000-T0-1	T kit		
	VVQC1000-L25-0-1	L kit, Lead wire length 0.6 m		
Lead wire housing assembly	VVQC1000-L25-1-1	L kit, Lead wire length 1.5 m		
	VVQC1000-L25-2-1	L kit, Lead wire length 3.0 m		
Circular connector housing assembly	VVQC1000-M26-1	M kit, 26 pins		
	EX600 digital output unit EX600 digital I/O unit EX600 analog input unit EX600 analog output unit EX600 analog output unit EX600 analog I/O unit EX600 end 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 Lead wire housing assembly	EX600 digital output unitEX600-DYNB EX600-DYNEEX600 digital output unitEX600-DYNE EX600-DYNEEX600 digital I/O unitEX600-DYNE EX600-DNNEEX600 digital I/O unitEX600-DMNE EX600-DMNFEX600 analog input unitEX600-AXA EX600-AXAEX600 analog output unitEX600-AXA EX600-ED2EX600 analog l/O unitEX600-AXA EX600-ED2EX600 end plateEX600-ED3 EX600-ED4EX600 valve plateEX600-ED4-2 EX600-ED5-2EX600 bracket for end plateEX600-ZMA2 EX500-CD1EX500 SI unitEX500-OU1 EX500-Q101D-sub connector housing assembly Flat ribbon cable housing assemblyVVQC1000-P20-1 VVQC1000-P20-1Flat ribbon cable housing assembly Flat ribbon cable housing assemblyVVQC1000-D20-1 VVQC1000-P20-1Lead wire housing assemblyVVQC1000-L25-0-1 VVQC1000-L25-1-1 VVQC1000-L25-1-1		

16D-side end plate assembly part no.



0,111001	1 011 0120
C8	With ø8 One-touch fitting
N9	With ø5/16" One-touch fitting

Option

Symbol	Specifications		
Nil	Common EXH		
R External pilot			
S Direct EXH outlet with built-in sile			

*: When both options are specified, indicate as -RS

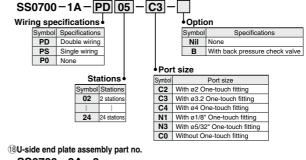
(9)Fitting assembly part	
VVQ0000-50A-	C4

Port size •			
Symbol Applicable tube			
C2 Applicable tube ø2			
C3 Applicable tube ø3			
C4 Applicable tube ø4			
N1 Applicable tube ø1/8"			
N3	Applicable tube ø5/32"		

*: Purchasing order is available in units of

10 pieces.

*: For One-touch fittings replacement, refer to Specific Product Precautions. Manifold block assembly Tie-rod (2 pcs.) and lead wire assembly for extensions are attached.



SS0700-2A-2

<Replacement Parts for Manifold Block> <Replacement Parts for Valve> **Replacement Parts**

No.	Description	Part no.	Qty.
20	Gasket	SS0700-80A-2	10+1
21	Clip	SS0700-80A-4	10* ¹
22	Tie-rod assembly	SS0700-TR-	2*2

*1: 1 set includes 10 pieces.

*2: 1 set includes 2 pieces. Please order when eliminating manifold stations. When adding stations, tie-rods are attached to the manifold block assembly. Therefore, it is not necessary to order.

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□: Stations 02 to 24

Replacement Parts

No.	Description	Part no.	Qty.
23	Gasket, Screw	S0700-GS-5	10

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

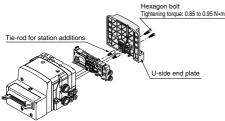
How to Add Manifold Stations (Plug-in Type / Lead Wire Connection Type)

What to order

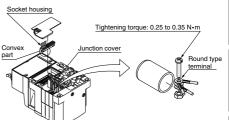
Manifold block assembly (Refer to page 489-16.)

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: 0.85 to 0.95 N•m)

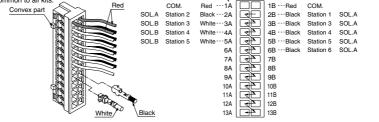


③ Connect the round type terminal of red lead wire to the common terminal inside the junction cover.



Terminal no.

④ Take out the socket housing and connect the black and white lead wires. The connection layout is common to all kits.



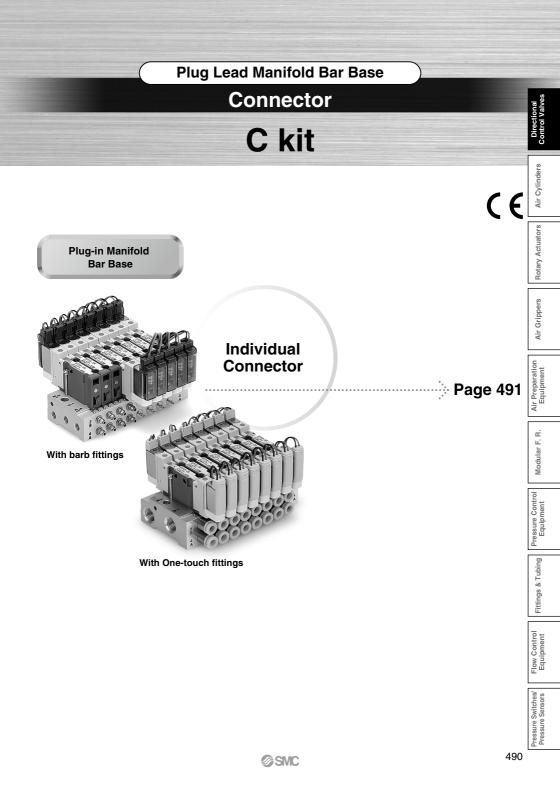


Directional Control Valves

Air Cylinders

Rotary Actuators

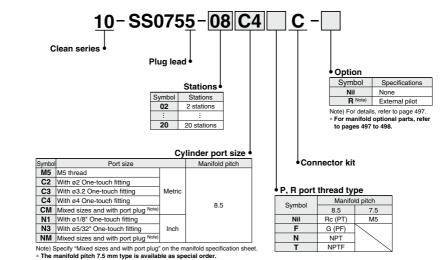
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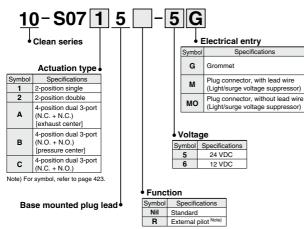
Series 10-S0700 Plug Lead Manifold Bar Base kit (Connector)



How to Order Manifold



How to Order Valve



Note) Not compatible with dual 3-port valves. The 3(R) port is released to the atmosphere. (Pressurization and vacuum are not allowed.)

How to Order Manifold Assembly

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

<Example>

Connector kit

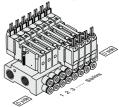
10-SS0755-07C4C-...1 set - Manifold base part no.

* 10-S0715-5G....... 3 sets - Valve part no. (Stations 1 to 3) * 10-S0725-5G...... 2 sets - Valve part no. (Stations 4 to 5)

* 10-S07A5-5G 2 sets - Valve part no. (Stations 6 to 7)

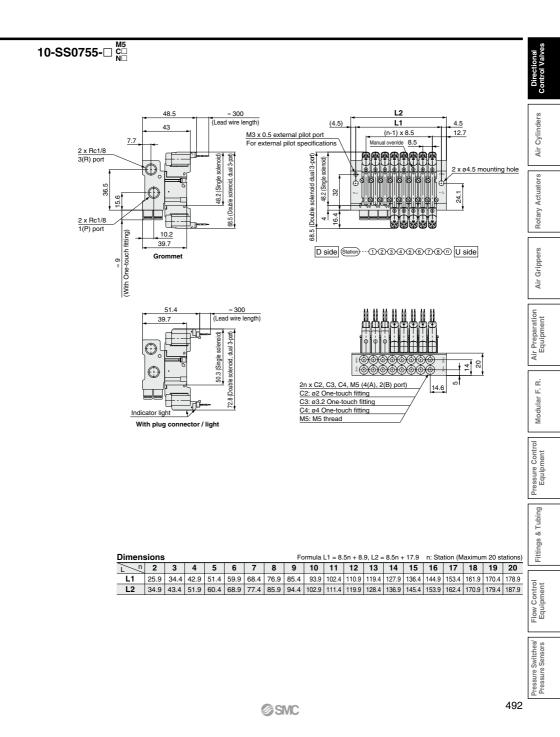
Prefix the asterisk to the part no. of the enoid valve, etc

Write sequentially from the 1st station on the D side. When part no. written collectively are complicated, specify on the manifold specification sheet









Plug Lead Manifold Bar Base **Serial Transmission** Directional Control Valves S kit Air Cylinders CE **Rotary Actuators** Plug Lead Manifold Bar Base Air Grippers Gateway-type Serial Transmission System Air Preparation Equipment **EX510** Connect all wiring using connectors. Page 495 Modular F. R. Pressure Control Equipment

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Fittings & Tubing

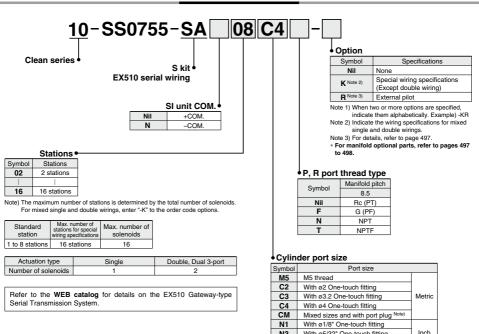
Flow Control Equipment

Pressure Switches/ Pressure Sensors

Series 10-S0700 Plug Lead Manifold Bar Base kit (Serial Transmission) EX510 Gateway-type Serial Transmission System





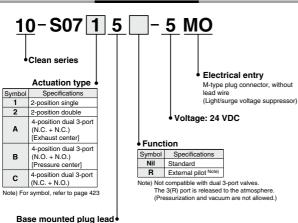


Mixed sizes and with port plug Note) NM Note) Specify "Mixed sizes and with port plug" on the manifold

N3

specification sheet.

With ø5/32" One-touch fitting



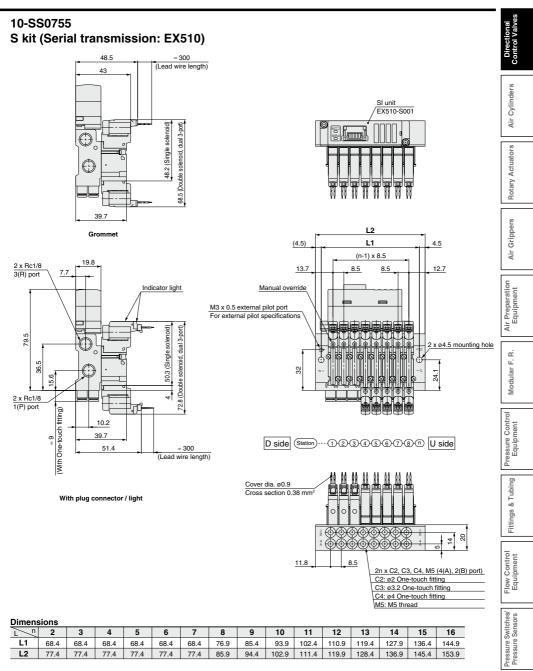
How to Order Manifold Assembly

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

<example></example>	
Serial transmission I	kit
10-SS0755-SA08C41 set * 10-S0715-5MO3 set	 Manifold base part no. s – Valve part no. (Stations 1 to 3))
* 10-S0725-5MO 3 set	s - Valve part no. (Stations 4 to 6)
* 10-507A5-5₩O2 set 〒	s – Valve part no. (Stations 7 to 8))
Prefix the asterisk to the part no. of the	Write sequentially from the 1st station on the D side. When part no. written collectively are complicated, - specify on the manifold
solenoid valve, etc.	specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on
	the number of stations.
	Therefore, solenoid valves (including a blanking plate) and
	connector assembly are assembled when
	shipped as a standard specification. Please specify the mounting
	solenoid valve when ordering.
	\geq

How to Order Valve





Series 10-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: 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: 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: 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.

11.6 O-ring Port plug



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.

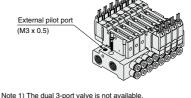
Add R to the part numbers of manifolds and valves to indicate the external pilot specifications.

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

- How to Order Valve (Example)
 - 10-S0715 R -5G

External pilot

- How to Order Manifold (Example)
- * Indicate -R for an option. 10-SS0755-08C4C-R
 - - External pilot



- 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) Since the pilot EXH of valves with the external pilot specification also has a common exhaust specification, the 3(R) port should be released to the atmosphere.





M5 x 0.8

8

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5

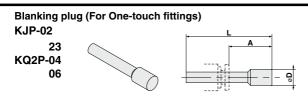
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8.3









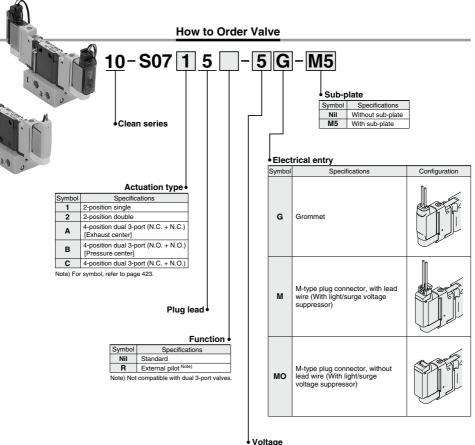
Dimensio	ns				(mm)	Directional Control Valves
Applicable fitting size ø d	Model	A	L	D	Weight (g)	
2	KJP-02	8.2	17	3	0.1	Cylinders
3.2	KQ2P-23	16	31.5	3.2	1	ind
4	KQ2P-04	16	32	6	1	5
6	KQ2P-06	18	35	8	1	Air 0
						◄



Rotary Actuators

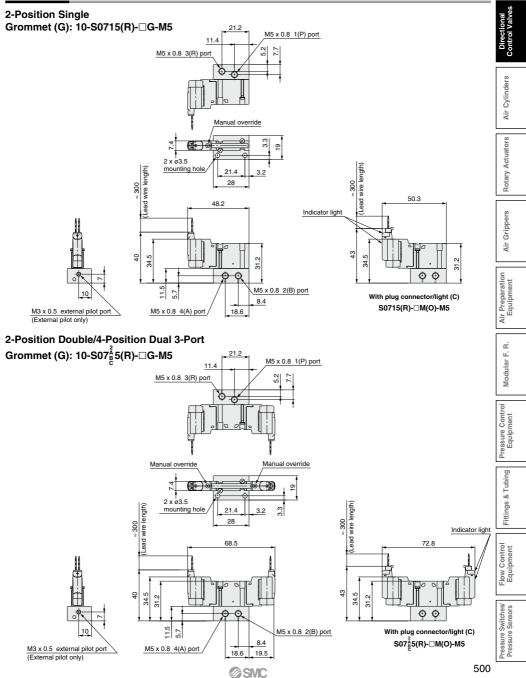
Pressure Switches/ Pressure Sensors

Series 10-S0700 ^{5 Port Solenoid Valve:} Base Mounted Plug Lead, Single Unit (E

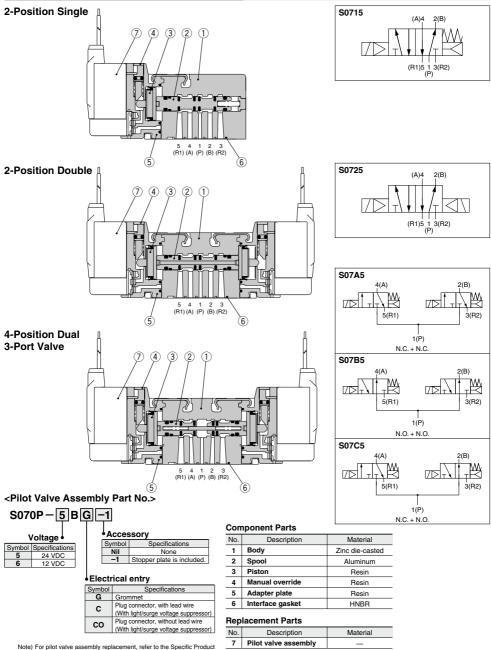


 Voltage 				
Symbol	Specifications			
5	24 VDC			
6	12 VDC			

Dimensions



Series 10-S0700 Plug Lead Single Unit Construction: Main Parts/Replacement Parts



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Note) For pilot valve assembly replacement, refer to the Specific Product Precautions 3.

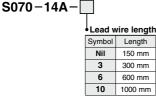
Series 10-S0700 Plug Lead Replacement Parts

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

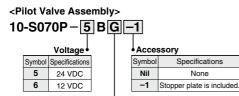
Manifold pitch	Port size	Part no.
	ø2 One-touch fitting	VVQ0000-50A-C2
	ø3.2 One-touch fitting	VVQ0000-50A-C3
8.5	ø4 One-touch fitting	VVQ0000-50A-C4
	ø1/8" One-touch fitting	VVQ0000-50A-N1
	ø5/32" One-touch fitting	VVQ0000-50A-N3
	ø2 barb fitting	SS070-50A-20
7.5	ø3.2 barb fitting	SS070-50A-32
	ø4 barb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

Note) Purchase orders are available in units of 10 pieces.

<Plug Connector Assembly>



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.



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 the Specific Product Precautions 3.

<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

<SI Unit (Series EX510)> EX510-S001

Out	Output specifications	
0	NPN output (+COM.)	
1	PNP output (-COM.)	

Fittings & Tubing



Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

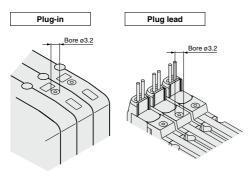
Manual Override

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.

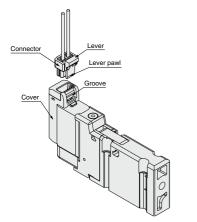


How to Attach/Detach Plug Connector

<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.

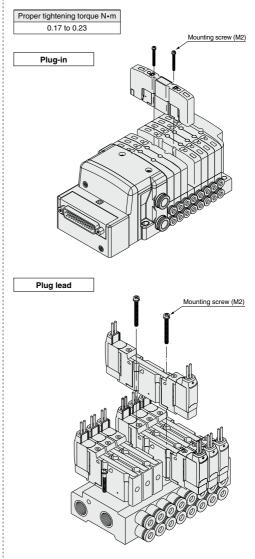
To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.



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

\land 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.



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Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

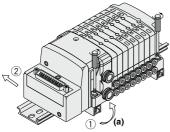
How to Mount/Remove DIN Rail

▲ Caution

Plug-in

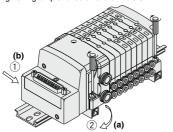
Removal

- 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 0.4 to 0.6 N·m.



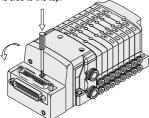
How to Change Connector Entry Direction

∧ 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 switch-

ing from the side to the top

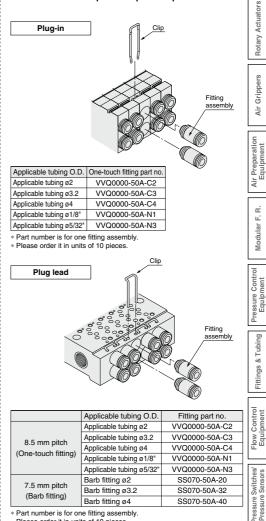


How to Replace Cylinder Port Fittings

\land 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.



Please order it in units of 10 pieces.



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Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

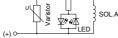
Internal Wiring Specifications

A Caution

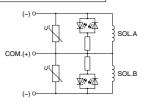
Light/surge voltage suppressor

No polarity by adopting non-polar light.

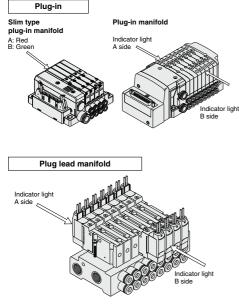




Plug-in Double, Dual 3-port



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



Surge Voltage Intrusion

▲ 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

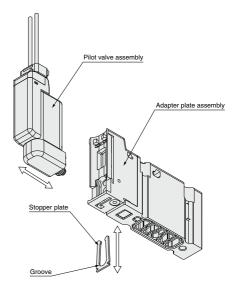
<Plug lead>

Removal

- 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.
- Insert the stopper plate into the adapter plate so that the stopper plate will not protrude from the end of the adapter plate.





Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX500/EX250/EX260

\land 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.

∧ 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 watchmakers' 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.

Safety Instructions on Power Supply

/↑\ Caution

SMC

- 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. Use the following UL approved products for DC power supply combinations.
 - 1) Controlled voltage current circuit conforming to UL508 Circuit uses the secondary coil of an isolated transformer as the power supply, satisfying the following conditions.
 - . Max. voltage (with no load): 30 Vrms (42.4 V peak) or less . Max. current: (1) 8 A or less (including shorts), and
 - (2) When controlled by a circuit protector (fuse, etc.) with the following rating

. ,	0 0
No-load voltage (V peak)	Max. current rating
0 to 20 [V]	5.0
Over 20 [V] to 30 [V]	100
	Peak voltage value

2) A circuit (class 2 circuit) with maximum 30 Vrms (42.4 V peak) or less, and a power supply consisting of a class 2 power supply unit confirming to UL1310, or a class 2 transformer confirming to UL1585

Cylinders

Air

Actuators

Rotary J

Grippers

Air

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Air

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Modular

Control

Pressure Contr Equipment

& Tubing

Fittings

Flow Control Equipment

e Sensors

Pressure S Pressure S



Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX500/EX250

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.

EX510

Design/Selection

ÌSMC

M 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.
- Establish a backup system beforehand, which employs fail-safe concepts such as multiple equipment and devices to prevent breakage or malfunction of this product.
- Provide an external emergency stop circuit that will immediately stop an operation and cut off the power supply.

5. When using for an interlock circuit:

- Provide a double interlock which is operated by another system (such mechanical protection function).
- Perform an inspection to check that it is working properly because it can cause possible injuries.

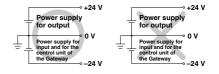
ACaution

- Keep the surrounding space free for maintenance. When designing a system, take into consideration the amount of free space needed for performing maintenance.
- Use the following UL approved products for DC power supply combinations.
 - Controlled voltage current circuit conforming to UL508 Circuit uses the secondary coil of an isolated transformer as the power supply, satisfying the following conditions.
 - Max. voltage (with no load): 30 Vrms (42.4 V peak) or less
 - Max. current: (1) 8 A or less (including shorts), and

(2) When controlled by a circuit protector (fuse, etc.) with the following rating

No-load voltage (V peak)	Max. current rating
0 to 20 [V]	5.0
Over 20 [V] to 30 [V]	100
	Peak voltage value

- 2) A circuit (class 2 circuit) with maximum 30 Vrms (42.4 V peak) or less, and a power supply consisting of a class 2 power supply unit confirming to UL1310, or a class 2 transformer confirming to UL1585
- 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 this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX510

Mounting

▲ Caution

- 1. 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

A 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.

ACaution

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.

 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

A 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.

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.

- 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.

Rotary

Grippers

Air

Air Preparation Equipment

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Modular





Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX510

Adjustment/Operation

MWarning

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 injuries.

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 this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX600

∧ Caution

tor or plug.

assembling.

Injury can result.

caught between units.

Design/Selection

MWarning

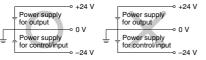
- Use this product within the specification range. Using beyond the specifications range can cause fire, malfunction, or damage to the system. Check the specifications when operating.
- 2. When using for an interlock circuit:
 - Provide a multiple interlock system which is operated by another system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

≜Caution

- 1. Use the following UL approved products for DC power supply combinations.
 - Controlled voltage current circuit conforming to UL508 Circuit uses the secondary coil of an isolated transformer as the power supply, satisfying the following conditions.
 Max. voltage (with no load): 30 Vrms (42.4 V peak) or less
 - Max. current: (1) 8 A or less (including shorts), and
 - (2) When controlled by a circuit protector (fuse, etc.) with the following rating

No-load voltage (V peak)	Max. current rating
0 to 20 [V]	5.0
Over 20 [V] to 30 [V]	100
010.20[1] 0.00[1]	Peak voltage value

- 2) A circuit (class 2 circuit) with maximum 30 Vrms (42.4 V peak) or less, and a power supply consisting of a class 2 power supply unit confirming to UL1310, or a class 2 transformer confirming to UL1585
- 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.
- 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 operation 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

Do not touch the sharp metal parts of the connec-

Do not apply excessive force to the unit when dis-

The connecting portions of the unit are firmly joined with seals.

When joining units, take care not to get fingers

Directional Control Valves

Actuators

Rotary J

Grippers

Air

r Preparation Equipment

Air

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Modular F.

Pressure Control Equipment

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.

1. When handling and assembling units:

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.

 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.

 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

wiini

- 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.

Avoid miswiring.

A Caution

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.

Switches/ e Sensors

Pressure S Pressure

& Tubing

Fittings



Be sure to read this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX600

Wiring

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.

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

A 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.

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

IP65/67 is achieved when the following conditions are met.

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

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

Also, the Handheld Terminal conforms to IP20, so prevent foreign matter from entering inside, and water, solvent or oil from coming in direct contact with it.

Operating Environment

≜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
- 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.

 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.

- 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.

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 this before handling. Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

EX600

Adjustment/Operation

A Warning

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

<Handheld Terminals

- 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.

▲ Caution

1. Use a watchmakers' screwdriver with thin blade for the setting of each switch of the SI unit. When setting the switch, do not touch other unrelated parts.

This may cause parts damage or malfunction due to a shortcircuit

2. Provide adequate setting for the operating conditions. Failure to do so could result in malfunction.

Refer to the operation manual for setting of the switches.

3. For details on programming and address setting, refer to the manual from the PLC manufacturer. The content of programming related to protocol is designed by the manufacturer of the PLC used.

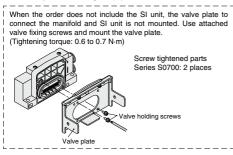
<Handheld Terminal>

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 settina buttons.

This may cause damage, equipment failure or malfunction.



Maintenance

A Warning

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

Such actions are likely to cause injuries or breakage.

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

Unexpected malfunction of system components and injury can result.

▲ Caution

- 1. When handling and replacing the unit:
 - · Do not touch the sharp metal parts of the connector or plug.
 - · Do not apply excessive force to the unit when disassembling.

The connecting portions of the unit are firmly joined with seals.

 When joining units, take care not to get fingers caught between units. Injury can result.

2. Perform periodic inspection.

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

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

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

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.

Switches/ e Sensors

Pressure Pressure



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Cylinders

Air

Actuators

Rotary

Grippers

Air

Air Preparation Equipment

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Modular

Control

Pressure Contre Equipment