Variations

Variations							
		S kit Serial Transmission (Fieldbus System)					
	EX180 For Output	EX260 For Output	EX500 Gateway-type	EX510 Gateway-type	EX250 For Input/Output	EX600	
	Serial Transmission System Applicable Protocol	Serial Transmission System Applicable Protocol	Serial Transmission System Applicable Protocol	Serial Transmission System Applicable Protocol	Serial Transmission System Applicable Protocol	For Input/Output Serial Transmission System Applicable Protocol	
	· DeviceNet® · CC-Link	- DeviceNet® - PROFIBUS DP - CC-Link	¦ · PROFIBUS DP ¦ · EtherNet/IP™	· DeviceNet® · PROFIBUS DP · CC-Link	· DeviceNet® · PROFIBUS DP · CANopen	· DeviceNet® · PROFIBUS DP · CC-Link	
		· EtherNet/IPTM · EtherCAT · PROFINET · Ethernet POWERLINK			· AS-Interface · ControlNet™ · EtherNet/IP™	EtherNet/IPTM* EtherCAT PROFINET Compatible with wireless systems	
Slim Compact Plug-in Manifold Bar Base		 					
	Page 423-2			Page 425	_	_	
Plug-in Manifold	rage 420-2	 	 	rage 425		 	
Stacking Base		 	 			 	
	_			_			
4		Page 423-6	Page 447		Page 449	Page 451	
Plug Lead Manifold Bar Base				Also			
	_		_		_	_	
S. S. Constant		1 1 1 1	1 1 1 1 1	Page 495			

						ı
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	
MIL Standard	MIL Standard · 26 pins, 20 pins					Ī
						F
						ļ
		_	_	_	_	
Page 429	Page 433					
					_	
Page 457	Page 461	Page 469	Page 473	Page 477		
					at.	
_	_	_	_	_		
					Page 491	

Options

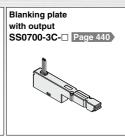
Blanking plate

Slim Compact Plug-in Manifold Bar Base / Options





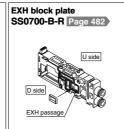


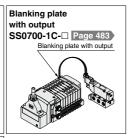


Plug-in Manifold Stacking Base / Options

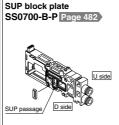






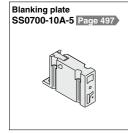






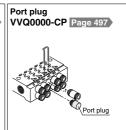


Plug Lead Manifold Bar Base / Options

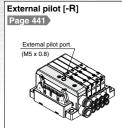




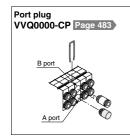




Fittings & Tubing



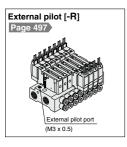














Series 10-S0700 Valve Specifications

Valve Specifications

Model

				Flow rate characteristics						Note 2)	
Series		Actuation type	Model	1→4/	/2 (P→A/B)		4/2→5/3 (A/B→R1/R2)			Response	Weight (g)
		турс		C [dm3/(s-bar)]	b	Cv	C [dm3/(s-bar)]	b	Cv	time (msec)	(9)
	O manitian	Single	S0711	0.39	0.39	0.11	0.37	0.39	0.10	18 or less	36
Slim compact 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
Dai base	4-position	Dual 3-port valve	S07B1	0.34	0.34	0.09	0.33	0.33	0.08	18 or less	41
2 positio	2-position	Single	S0710	0.39	0.39	0.11	0.37	0.39	0.10	18 or less	30
Plug-in manifold Stacking base	2 position	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	S07B5	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 2) Based on JIS B 8375-1993 (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

Opce	ilications		
	Valve construction		Rubber seal
	Fluid		Air/Inert gas
o	Max. operating pressu	ıre	0.7 MPa
ion	Min. operating pressu	re	0.2 MPa
ical	Ambient and fluid tem	perature	-10 to 50°C Note 1)
Valve specifications	Max. operating cycle		5 Hz
ds e	Pilot valve exhaust me	ethod	Common exhaust Note 2)
ake	Pilot valve manual override		Push type
>	Lubrication		Not required
	Impact/Vibration resis	tance Note 3)	30/100 m/s ²
	Enclosure		IP40
ω	Coil rated voltage		24 VDC
cal	Allowable voltage fluctuation		±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



Air Cylinders

Series 10-S0700 **Manifold Specifications**

Manifold Specifications

Model

		Piping specifications			Note 1)	Note 3)	Note 3)
	Base model	Port size		Connection type	Applicable	5-station	Addition
		1(P), 3(R) 4(A), 2(B)			stations	weight (g)	per station (g)
act ifold		C6 (Ø6) C8 (Ø8) N7 (Ø1/4")	C2 (ø2)	S kit: Serial transmission (EX510)	Max. 16 stations	320	19 Note 7)
Slim compact Plug-in manifold Bar base	10-SS0751-□□□□	N9 (ø5/16") Option (Direct EXH outlet	C3 (ø3.2) C4 (ø4) N1 (ø1/8")	F kit: D-sub connector	Max. 24 stations	185	17
S Bing		with built-in silencer)	N3 (ø5/32")	P kit: Flat ribbon cable	Max. 24 stations	181	17
				S kit: Serial transmission (EX500)	Max. 16 stations	360	20
		C6 (e6) C8 (e8) N7 (e1/4") N9 (e5/16") Option (Direct EXH outlet with built-in silencer)	C2 (ø2) C3 (ø3.2) C4 (ø4) N1 (ø1/8") N3 (ø5/32")	S kit: Serial transmission (EX250)	Max. 24 stations Note 2)	560 Note 4)	20
ifold	Stacking base 10-SS0750-			F kit: D-sub connector	Max. 24 stations	330	20
J-in mar				P kit: Flat ribbon cable	Max. 24 stations	325	20
Plug				T kit: Terminal block box	Max. 20 stations	660	20
				L kit: Lead wire	Max. 24 stations	455 Note 5)	20
				M kit: Circular connector	Max. 24 stations	390	20
Plug lead manifold Bar base	10-SS0755-□C□C	Rc1/8	M5 thread C2 (ø2) C3 (ø3.2)	C kit: Connector	Max. 20 stations	115	20
Plug man Bar b	(Manifold pitch: 8.5 mm*)	nc1/6	C4 (ø4) N1 (ø1/8") N3 (ø5/32")	S kit: Serial transmission (EX510)	Max. 16 stations	115	20
Single	10-S07□5-5□-M5	M5 thread	M5 thread	Connector kit	_	14 N	ote 6)

Note 1) Maximum stations for mixed single and double wiring (special wiring specifications)

Note 2) Differs depending on the serial unit type. For details, refer to page 449.

Note 3) Weight excluding valve. Refer to page 421 for valve weight. Note 4) Weight with one input block

Note 5) Weight with lead wire length 0.6 m

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.

Cylinder Speed Chart

Use as a guide for selection. Please confirm the actual conditions with SMC Model Selection Software.

Base Mounted

			Bore size							
Series	Average speed mm/s	Series CJ2 Pressure 0.5 MPa Load factor 50% Stroke 60 mm			Series CM2 Pressure 0.5 MPa Load factor 50% Stroke 300 mm					
		ø6	ø10	ø16	ø20	ø25	ø32	ø40		
	800 700 600 500						Vertical, upward a Horizont actuation			
10-S0715-5G-M5	400 300 200 100									

- * 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

Base mounted		Series CJ2	Series CM2	
	Tubing diameter x Length	ø6 x 1 m		
10-S0715-5G-M5	Speed controller	AS2001F-06	AS2301F-06	
	Silencer	AN12	20-M5	

Symbol

Model	Actuation type	Symbol
10-S0710 10-S0711 10-S0715	2-position single	(A)(B) 4 2 (R1)513(R2) (P)
10-S0720 10-S0721 10-S0725	2-position double	(A)(B) 4 2 (R1)51 3(R2) (P)
10-S07A0 10-S07A1 10-S07A5	4-position dual 3-port (N.C. + N.C.) [Exhaust center]	4(A) 2(B) 5(R1) 3(R2)
10-S07B0 10-S07B1 10-S07B5	4-position dual 3-port (N.O. + N.O.) [Pressure center]	4(A) 2(B) 3(R2) 1(P)
10-S07C0 10-S07C1 10-S07C5	4-position dual 3-port (N.C. + N.O.)	4(A) 2(B) 5(R1) 3(R2)

Serial Transmission

S kit

Rotary Actuators

Slim Compact Bar Base



For Output Serial Transmission System

EX180

Page 423-2

Pressure Control Equipment

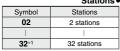
Fittings & Tubing

Pressure Switches/ Pressure Sensors

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

How to Order Manifold

10-SS0751-08 C4 C8 SDV2 Stations •



*1. The maximum number of stations will be different depending on the wiring specifications.

Cylinder port size

Symbol	Port size		
C2	With ø2 One-touch fitting		
C3	With ø3.2 One-touch fitting	Metric	
C4	With ø4 One-touch fitting		
N1	With ø1/8" One-touch fitting	l le	
N3	With ø5/32" One-touch fitting	Inch	

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

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

SI unit output polarity Symbol Specifications Nil Positive common Negative common

Communication connector

Symbol	Specifications
Nil	T-branch type
Α	Straight type

Optio	n
Symbol	Specifications
Nil	None
D	With DIN rail (Rail length: Standard)
D0	Without DIN rail (With bracket)
D□	With DIN rail Designated length (□: Station)
K *1	Special wiring specifications (Except double wiring)
R *2	External pilot

- *1: Indicate the wiring specifications for mixed single and double wirings.
- *2: For details, refer to page 481.
 *: When two or more options are specified, indicate them alphabetically.
- Example) -KR *: For manifold optional parts, refer to pages 481 to 484.
- *: For manifold exploded view, refer to page 487.

Refer to the Web Catalog and the Operation Manual for the details of the EX180 Integratedtype (For Output) Serial Transmission System. Please download the Operation Manual via our website, http://www.smcworld.com

*: 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.

*: For the 10-S0700 series, SI unit models EX180-SDN1, EX180-SDN2, or EX180-SMJ1 cannot be selected as S kit (SDQ , SDV2).

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

SI Unit Part No.

Symbol	Component module/ Communication connector	Common specification	SI unit part no.	Output stations	
V2	CC-Link (32 points)	NPN output (Positive common)	EX180-SMJ3		
V2N	T-branch type	PNP output (Negative common)	EX180-SMJ5	Max.	
V2A	CC-Link (32 points)	NPN output (Positive common)	EX180-SMJ3A	32*1	
V2AN	Straight type	PNP output (Negative common)	EX180-SMJ5A		
Q2	DeviceNet® (32 points)	NPN output (Positive common)	EX180-SDN3	Max. 32*1	
Q2N	T-branch type	PNP output (Negative common)	EX180-SDN5		
Q2A	DeviceNet® (32 points)	NPN output (Positive common)	EX180-SDN3A		
Q2AN	Straight type	PNP output (Negative common)	EX180-SDN5A		
Q3	DeviceNet® (16 points)	NPN output (Positive common)	EX180-SDN4		
Q3N	T-branch type	PNP output (Negative common)	EX180-SDN6	Max.	
Q3A	DeviceNet® (16 points)	viceNet® (16 points) NPN output (Positive common) EX18			
Q3AN	Straight type	PNP output (Negative common)	EX180-SDN6A	ĺ	
*1: Single	wiring				

Kit type

SD0	Without SI unit
	CC-Link (32 points)
SDQ2	DeviceNet® (32 points)
SDQ3	DeviceNet® (16 points)

*: Please contact SMC for SI unit specifications.

How to Order Manifold Assembly

Example Serial transmission kit

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

10-SS0751-08C4C8SDQ2 ··· 1 set - Manifold base part no. * 10-S0711-5 3 sets - Valve part no. (Stations 1 to 3) * 10-S0721-5 2 sets - Valve part no. (Stations 4 to 5) ··· 2 sets - Valve part no. (Stations 6 to 7) 10-SS0700-10A-3 · 1 set - Blanking plate part no. (Station 8)

to the part numbers of the solenoid valve etc.

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

How to Order Valves

10-S07 1

Type of actuation

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

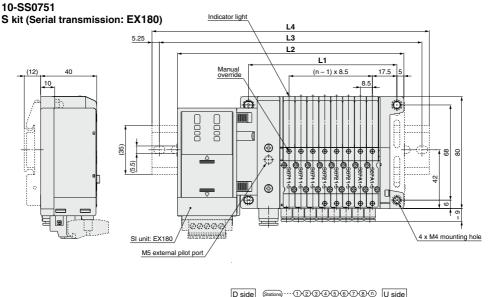
*: For symbol, refer to page 652.

Voltage: 24 VDC Function

Symbol	Specifications
Nil	Standard
R	External pilot*1

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

◆Base mounted plug-in



(7.5)	DIN rail clamping screw
2 x C8, C6, N7, (1(P), 3(R) port) C8: e8 One-touch fitting C6: e6 One-touch fitting N7: e1/4" One-touch fitting	2n x C2, C3, C4, N1, N3 (4(A), 2(B) port) C2: o2 One-touch fitting C3: o32 One-touch fitting C4: o4 One-touch fitting
	N1: ø1/8" One-touch fitting N3: ø5/32" One-touch fitting

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

Dimens	sions								Formula	L1 = 8.5	in + 38, l	.2 = 8.5n	+ 93.7	n: Stati	on (Maxi	mum 32	stations)
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191
L2	110.7	119.2	127.7	136.2	144.7	153.2	161.7	170.2	178.7	187.2	195.7	204.2	212.7	221.2	229.7	238.2	246.7
L3	137.5	150	150	162.5	175	175	187.5	200	200	212.5	225	225	237.5	250	250	262.5	275
L4	148	160.5	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5

L	19	20	21	22	23	24	25	26	27	28	29	30	31	32
L1	199.5	208	216.5	225	233.5	242	250.5	259	267.5	276	284.5	293	301.5	310
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
L3	275	287.5	300	312.5	312.5	325	337.5	337.5	350	362.5	362.5	375	387.5	387.5
L4	285.5	298	310.5	323	323	335.5	348	348	360.5	373	373	385.5	398	398

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Plug-in Type Stacking Base

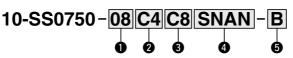


For Output Serial Transmission System

EX260

Page 423-6

How to Order Manifold





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	Considered Invested
-	- :	Specified layout*2
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

• •,	ao. po o	
Symbol	Port size	
C2	With ø2 One-touch fitting	
C3	With ø3.2 One-touch fitting	Metric
C4	With ø4 One-touch fitting	ivietric
CM	Mixed sizes and with port plug*1	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

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

P. R port size

Symbol	Port size				
C6	With ø6 One-touch fitting	Metric			
C8	With ø8 One-touch fitting	ivietric			
N7	With ø1/4" One-touch fitting	Inch			
N9	With ø5/16" One-touch fitting	Inch			
*: If an inch size cylinder port is selected, select inch					

size piping connections for the P and R ports as well.

4 SI unit specifications

(Output polarity, protocol, number of outputs, communication connector)

Symbol (out	put polarity)		Number	Communication	
	Negative common	Protocol	of	connector	
(NPN)	(NPN)		outputs	WIIIDZU	
SD	O*1	Without	SI unit		
SQA	SQAN	DeviceNet®	32	M12	
SQB	SQAN	Devicemen	16	IVI I Z	
SNA	SNAN		32	M12	
SNB	SNBN	PROFIBUS	16	IVIIZ	
SNC	SNCN	DP	32	*4	
SND	SNDN		16	D-sub	
SVA	SVAN	CC-Link	32		
SVB	SVBN	CC-LINK	16	M12	
SDA	SDAN	EtherCAT	32	M12	
SDB	SDBN	EllierCAT	16	IVI I Z	
SFA	SFAN	PROFINET	32		
SFB	SFBN	PROFINE	16	M12	
SEA	SEAN	EtherNet/IP™	32	1440	
SEB	SEBN	Ethernet/IP'	16	M12	
*3	SGAN	Ethernet	32	M12	
*3	SGBN	POWERLINK	16		

- *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

A Option

Op Op	uon
Symbol	Specifications
Nil	None
B*1	With back pressure check valve (All stations)
D	With DIN rail (Rail length: Standard)
D0	Without DIN rail (with bracket)
D □*2	With DIN rail Designated length (□: Station)
K ∗3	Special wiring specifications (Except double wiring)
	With name plate
R*4	External pilot

- *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

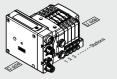
Example Serial transmission kit

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

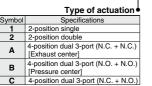
10-SS0750-04C4C8SNAN ··· 1 set - Manifold base part no. * 10-S0720-5 4 sets - Valve part no. (Stations 1 to 4) -

to the part numbers of the solenoid valve etc.

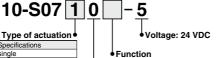
Prefix the asterisk Write sequentially from the 1st station on the D side. When part numbers written collectively are complicated, specify on the manifold specification sheet



How to Order Valves



*: For symbol, refer to page 423.



Symbol Specifications Nil Standard

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

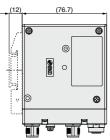
The 3(R) port is open to the atmosphere. (Cannot be used for applying pressure or vacuum)

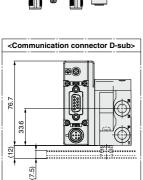
Base mounted plug-in

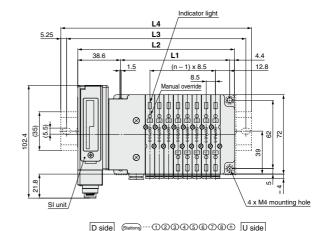


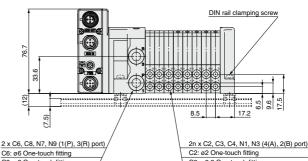
10-SS0750

S kit (Serial transmission: EX260)









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

C3: ø3.2 One-touch fitting C4: ø4 One-touch fitting N1: ø1/8" One-touch fitting N3: ø5/32" One-touch fitting

Dimensions	

Dimensions								Formula $L1 = 8.5n + 31$, $L2 = 8.5n + 74$				n: Station (Maximum 24 stations)				
Ln	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

Ln	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



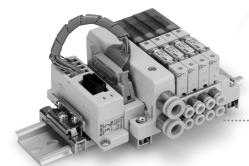
Slim Compact Plug-in Manifold Bar Base

Serial Transmission

S kit



Slim Compact Plug-in Manifold Bar Base

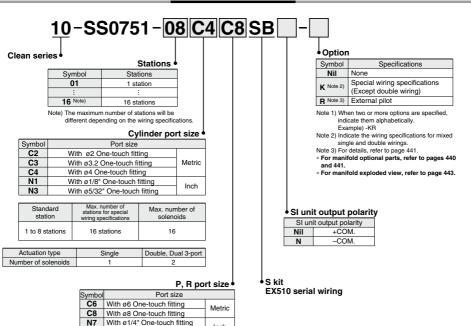


Gateway-type Serial Transmission System

EX510

Page 425

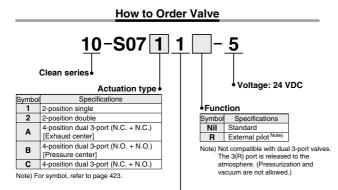
How to Order Manifold



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

N9 With ø5/16" One-touch fitting

Refer to the **WEB catalog** for details on the EX510 Gateway-type Serial Transmission System.



How to Order Manifold Assembly

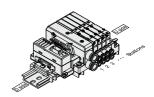
Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

Serial transmission kit

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.

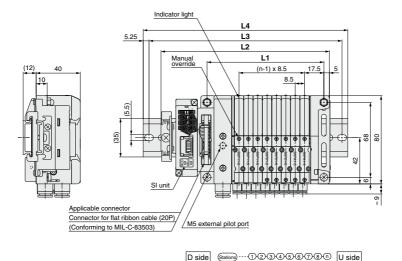


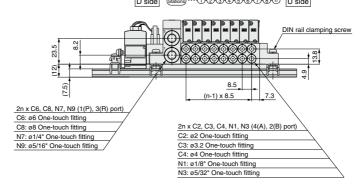


Base mounted plug-in

10-SS0751

S kit (Serial transmission: EX510)





DI	mei	nsı	on	s
_				

Difficusions								i Oiiiiuia	LI - 0.31	1 T 30, LZ	- 0.3H + C	74.7 II. C	ialion (ivi	axiiiiuiiii i t) stations)
_ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174
L2	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

Slim Compact Plug-in Manifold Bar Base

D-sub Connector

F kit

((

Slim Compact Plug-in Manifold Bar Base



MIL Standard

25 pins

■ Cable length: 1.5 m, 3 m, 5 m

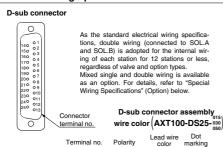
Page 429

SMC

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



						COIOI	manning
Station 1 {	r^{\wedge}	SOL.A	1	(-)	(+)	Black	None
Station	extstyle ext	SOL.B	14	(-)	(+)	Yellow	Black
04-4: 0	1	SOL.A _O	2	(-)	(+)	Brown	None
Station 2 {	+1	SOL.B _O	15	(-)	(+)	Pink	Black
Station 3	$H \setminus$	SOL.A O	3	(-)	(+)	Red	None
Station 37	$+\wedge$	SOL.B_o	16	(-)	(+)	Blue	White
Station 4 {	H^{\prime}	SOL.A _O	4	(-)	(+)	Orange	None
Station 4	$H \setminus$	SOL.B O	17	(-)	(+)	Purple	None
Station 5 {	$+ \wedge$	SOL.A O	5	(-)	(+)	Yellow	None
Station	$H \lambda$	SOL.B O	18	(-)	(+)	Gray	None
Station 6	$+$ \wedge	SOL.A O	6	(-)	(+)	Pink	None
Otation 0	$H \wedge$	SOL.B O	19	(-)	(+)	Orange	Black
Station 7	$+ \wedge$	SOL.A O	7	(–)	(+)	Blue	None
Oldilon /	$H \sim$	SOL.B O	20	(-)	(+)	Red	White
Station 8	$H \sim$	SOL.A O	8	(–)	(+)	Purple	White
Cidiion o	$H \sim$	SOL.B O	21	(-)	(+)	Brown	White
Station 9 {	$H \sim$	SOL.A O	9	(-)	(+)	Gray	Black
Cidiioo	$H \sim$	SOL.B O		(–)	(+)	Pink	Red
Station 10 €	$H \sim$	SOL.A_O	10	(-)	(+)	White	Black
101	$H \sim$	SOL.B O		(–)	(+)	Gray	Red
Station 11 €	$+ \sim$	SOL.A_o		(–)	(+)	White	Red
(H_{λ}	SOL.B O	24	(–)	(+)	Black	White
Station 12 √	$H \sim$	SOL.A O	12	(–)	(+)	Yellow	Red
($H \setminus$	SOL.B_O	25	(–)	(+)	White	None
		COM.	13	(+)	(-)	Orange	Red
				Positive COM	Negative COM	Note)	

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

Special Wiring Specifications (Option) [-K]



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

1. How to Order 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-DS25-030 050

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

cable assembly Wire Color by Terminal No. Terminal Lead wire Dot

Brown None

3 Red None

4 Orange None

5 Yellow None

6 Pink None

7 Blue None Purple White

8 9 Gray Black

10 White Black

11 White Red Yellow Red

12 13 Orange Red Yellow 14

17 Purple Gray None

18 Orange Black Red White

20

21 Brown

22 Pink Red Gray Red Black White

24

marking Black None

Black Pink Black White Blue 16

None

White

White None

	Cable
	√ 0.3 mm² x 25 cores
	, O.D. ø1.4
- 1	
1	= Ø10
	Ш
	rt1
	Seal (Length)
	DR8
_	
	F:□ Molded cover
	.2 x M2.6 x 0.45
	1 / 1
	SMC \/
	Connector
,	√∞
	Japan Aviation
	55 Electronics Industry, Limited
	•
	Socket side
	1425
	Terminal no.
	p reminar no.
	1 11 - 1
	113 🖍
	47.04
	4

D-sub Connector Cable Assembly (Option)

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

- * For other commercial connectors, use a 25pin type with female connector conforming to MIL-C-24308
- * Cannot be used for movable wiring.

Flectrical Characteristics

Liectifical Citar	acteristics
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

Exa	ımp	le (of		
nector	mai	nu	fac	tur	ers

· Fujitsu Limited

con

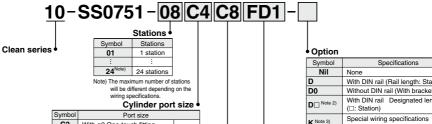
- Japan Aviation Electronics
- Industry, Limited
- . J.S.T. Mfg. Co., Ltd.
- · HIROSE ELECTRIC CO., LTD.

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



Air

How to Order Manifold



	i	P. R po	rt size
N3	With ø5/32" One-touch fitting	IIICII	
N1	With ø1/8" One-touch fitting	Inch	
C4	With ø4 One-touch fitting		
C3	With ø3.2 One-touch fitting	Metric	
U2	with 62 One-touch litting		

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

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

None
With DIN rail (Rail length: Standard)
Without DIN rail (With bracket)
With DIN rail Designated length (□: Station)
Special wiring specifications (Except double wiring)
External pilot

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

Note 2) The available number of stations is larger than the number of manifold stations

Note 3) Indicate the wiring specifications for mixed single and double wirings.

Note 4) For details, refer to page 441 * For manifold optional parts, refer to pages 440 to 441.

* For manifold exploded view, refer to page 443.

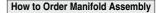
Kit type/Cable length

	· · · · · · , - · · ·		9			
	Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
		FD0	D-sub connector (25P), without cable			
	F kit	FD1	D-sub connector (25P), with 1.5 m cable	1 to 12 stations	24 stations	24
	FKIL	FD2	D-sub connector (25P), with 3.0 m cable	1 to 12 stations	24 Stations	24
		FD3	D-sub connector (25P), with 5.0 m cable			

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

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

Base mounted plug-in



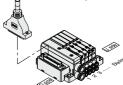
Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

D-Sub connector kit	
10-SS0751-08C4C8FD1 1 se	t – Manifold base part no.
* 10-S0711-5 3 sei	ts - Valve part no. (Stations 1 to 3))
* 10-S0721-5 2 set	ts - Valve part no. (Stations 4 to 5)
* 10-S07A1-5 2 set	ts - Valve part no. (Stations 6 to 7)
* SS0700-10A-3 1 set	- Blanking plate part no. (Station 8)
T	Write sequentially from the
	1st station on the D side.
Prefix the asterisk to	When part no. written
the part no of the	collectively are complicated :

solenoid valve, etc.

specify on the manifold specification sheet



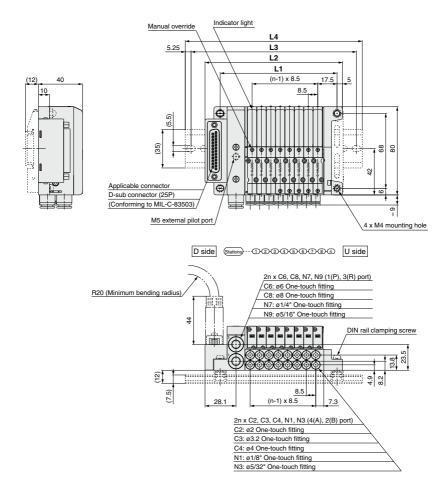
CI	10-S07 1	1]-	5 Volta	age.	
Symbol				Symbol	Specifica	ations
1	2-position single			5	24 VD	
2	2-position double			6	12 VD	C
Α	4-position dual 3-port (N.C. + N.C.) [Exhaust center]					
В	4-position dual 3-port (N.O. + N.O.)		◆Func	tion		
В	[Pressure center]		Symbol	Specific	cations]
С	4-position dual 3-port (N.C. + N.O.)		Nil	Standard		
Note) Fo	r symbol, refer to page 423.		R	External p	oilot ^{Note)}]
				t compatible e 3(R) port i		

How to Order Valve

ØSMC

atmosphere. (Pressurization and vacuum are not allowed.)

Series 10-S0700 kit (D-sub Connector)



Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 5										- 56.7	n: Sta	tion (N	laximu	m 24 st	tations)								
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55	63.5	72	80.5	89	97.5	106	114.5	123	131.5	140	148.5	157	165.5	174	182.5	191	199.5	208	216.5	225	233.5	242
L2	73.7	82.2	90.7	99.2	107.7	116.2	124.7	133.2	141.7	150.2	158.7	167.2	175.7	184.2	192.7	201.2	209.7	218.2	226.7	235.2	243.7	252.2	260.7
L3	100	112.5	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	237.5	250	262.5	275	275	287.5
L4	110.5	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298

Slim Compact Plug-in Manifold Bar Base

Flat Ribbon Cable

P kit



Slim Compact Plug-in Manifold Bar Base



MIL Standard

26 pins, 20 pinsCable length:

1.5 m, 3 m, 5 m

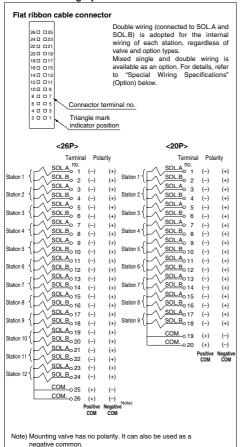
Page 433

P

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.

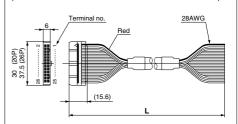
Electrical Wiring Specifications



Cable Assembly

AXT100-FC₂₆-2

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



Flat Ribbon Cable Connector Assembly (Option)

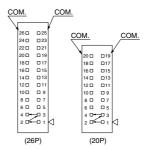
Cable	Assembly part no.						
length (L)	26P	20P					
1.5 m	AXT100-FC26-1	AXT100-FC20-1					
3 m	AXT100-FC26-2	AXT100-FC20-2					
5 m	AXT100-FC26-3	AXT100-FC20-3					

 For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.
 Cannot be used for movable wiring

Example of connector manufacturers

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

Special Wiring Specifications (Option) [-K]



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

1. How to Order valve

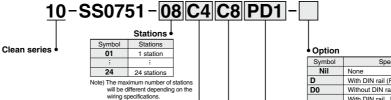
Indicate an option symbol, -K, for the manifold part number and be sure to specify the mounting position and number of stations of the single and double wiring on the manifold specification sheet.

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.



How to Order Manifold



	ming opositioations.	
	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	
N1	With ø1/8" One-touch fitting	Inch
N3	With ø5/32" One-touch fitting	inch

P, R port size

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

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

2

Nil None D With DIN rail (Rail length: Standard	
With DIN rail (Pail longth: Standars)	
With Diff fair (Hair length: Standar	d)
D0 Without DIN rail (With bracket)	
D□ Note 2) With DIN rail Designated length (□: Station)	
K Note 3) Special wiring specifications (Except double wiring)	
R Note 4) External pilot	

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

Note 2) The available number of stations is larger than the number of manifold stations

Note 3) Indicate the wiring specifications for mixed single and double wirings. Note 4) For details, refer to page 441

* For manifold optional parts, refer to pages 440 to 441.

* For manifold exploded view, refer to page 443.

Kit type/Cable length

Number of solenoids

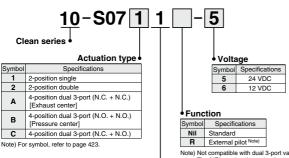
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	PD0	Flat ribbon cable (26P), without cable			
	PD1	Flat ribbon cable (26P), with 1.5 m cable	1 to 12	24 stations	24
P kit	PD2	Flat ribbon cable (26P), with 3.0 m cable	stations	24 5(8(10)15	24
	PD3	Flat ribbon cable (26P), with 5.0 m cable			
	PDC	Flat ribbon cable (20P), without cable	1 to 9 stations	18 stations	18

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

Actuation type Single Double, Dual 3-port

Base mounted plug-in

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

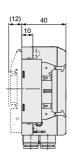
<Example>

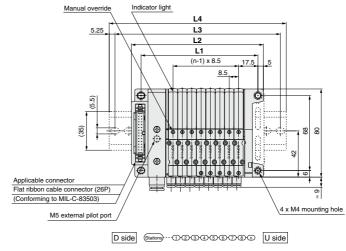
* 10-S0721-5 4 * 10-S07A1-5 1	set – Manifold base part no. sets – Valve part no. (Stations 1 to 3) set – Valve part no. (Stations 4 to 5) set – Valve part no. (Stations 6 to 7) set – Blanking plate part no. (Station 8)
₹	Write sequentially from the 1st

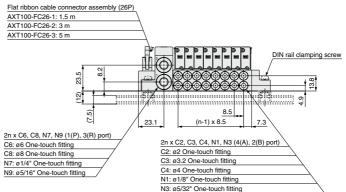


specify on the manifold specification sheet.

Series 10-S0700 kit (Flat Ribbon Cable)







Dimen	Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 51.7									n: Station (Maximum 24 stations)													
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	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

Directional ontrol Valves

Air Cylinders

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

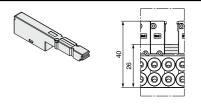
Manifold Optional Parts

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[

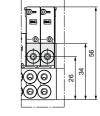
Mounted on the manifold block to make an independent supply port when each solenoid valve uses different operating pressure.

Weight: 15 g

Port size

C2	Applicable tubing ø2
C3	Applicable tubing ø3
C4	Applicable tubing ø4
N1	Applicable tubing ø1/8"
N3	Applicable tubing ø5/32"

Applicable tubing



Individual EXH spacer

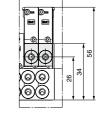
SS0700-R-3-C

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

Port size

Symbol	Applicable tubing	
C2	Applicable tubing ø2	
C3	Applicable tubing ø3	
C4	Applicable tubing ø4	
N1	Applicable tubing ø1/8"	
N3	Applicable tubing ø5/32"	



Blanking plate with output

SS0700-3C-

Lead wire length (mm)

-Lead Wife length				
Nil	600			
10	1000			
15	1500			
20	2000			
25	2500			
30	3000			

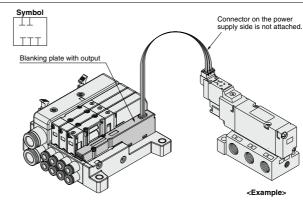
Blanking plate with a connector for individually outputting electricity to drive a single valve or equipment that are not on the manifold base.

Note 1) Electric current should be 0.5 A or

e 1) Electric current should be 0.5 A or less. (Including the mounted valves) When the current is output from two positions at the same time, the current should be 0.25 A or less.

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

Weight: 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 R -5

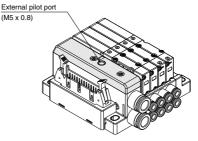
External pilot

How to Order Manifold (Example)

* Indicate R for an option.

10-SS0750-08C4FD1-<u>R</u>

External pilot



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

Note 2) When the internal pilot type and external 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.

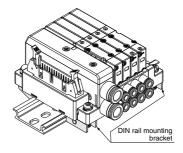
Note 3) Since the pilot EXH of valves with the external pilot specification also has a common exhaust specification, the 3(R) port should be released to the atmosphere.

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 kitt)).

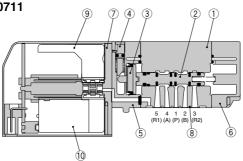
 When ordering this option incorporated with a manifold, suffix "-D" to the end of the manifold part number.

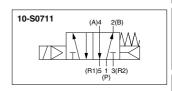


Series 10-S0700 Slim Compact Plug-in Manifold Bar Base

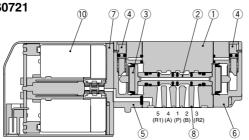
Construction

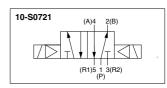




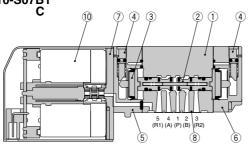


Double: 10-S0721



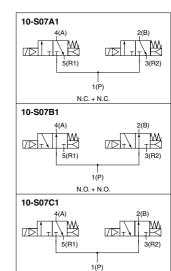


Dual 3-Port: 10-S07B1



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.



N.C. + N.O.

Control Valves

Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

Modular F. R.

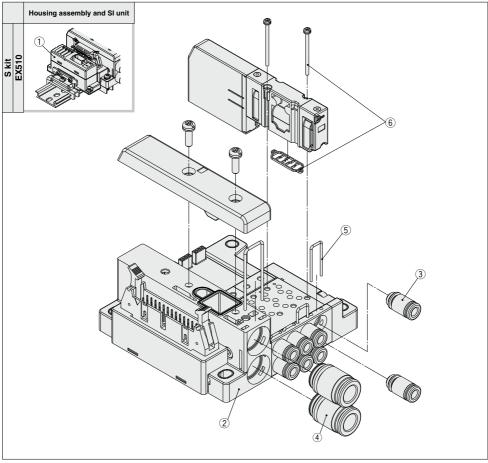
Pressure Control Equipment

Fittings & Tubing

Flow Control Equipment

Pressure Switches/ Pressure Sensors

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.

Manifold Assembly Part No.

No.	Description	Part no.	Note
1	SI unit EX510-S002A NPN (Positive common)		NPN (Positive common)
	Si uliit	EX510-S102A	PNP (Negative common)
2	Base unit	SS0751-□□□□	Refer to How to Order for each kit.

③ Fitting assembly part number for cylinder port



Port size

Symbol	Applicable tubing
C2	Applicable tubing ø2
C3	Applicable tubing ø3
C4	Applicable tubing ø4
N1	Applicable tubing ø1/8"
N3	Applicable tubing ø5/32

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.

4 Fitting assembly part number for P, R port

VVQ1000-51A-

Port size

	Symbol	Applicable tubing
	C6	Applicable tubing ø6
	C8	Applicable tubing ø8
	N7	Applicable tubing ø1/4"
ı	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.

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.

Plug-in Manifold Stacking Base

Serial Transmission

S kit

Plug-in Manifold Stacking Base





Gateway-type Serial Transmission System

EX500

Page 447



Integrated-type (For I/O) Serial Transmission System

EX250

Page 449

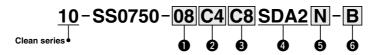


Integrated-type (For I/O) Serial Transmission System (Fieldbus System)

EX600

Page 451

How to Order Manifold



Valve stations

Note								
Double wiring								
a aifi a d I a va vito 1								
ecified layout*1 e up to 16 solenoids)								
e up to 10 solenolus)								

*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

Metric 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

P, R port size

	0.20
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

11011 31	26						
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									
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.

St unit (Output polarity)

•	• or anne (carpar peranty)									
Nil	Positive common									
N	Negative common									

- *: Ensure a match with the common specification of the valve to be used.
- *: Select Nil for without SI unit.

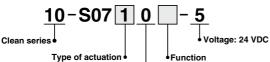
(A) Option

Option								
None								
With back pressure check valve (All stations)								
With DIN bracket, DIN rail with standard length								
With DIN bracket, without DIN rail								
With DIN bracket, DIN rail for □ stations								
Special wiring specification (Except double wiring)								
With name plate								
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 Valves



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

*: For symbol, refer to page 423.

Symbol Specifications Nil Standard External pilot*1

*1: Not compatible with dual 3-port

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

(Cannot be used for applying pressure or vacuum)

Base mounted plug-in



How to Order Manifold Assembly

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

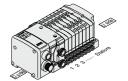
<Example>

10-SS0750-08C4C8SDA2··· 1 set - Manifold base part no. * 10-S0710-5 ···· ······ 3 sets - Valve part no. (Stations 1 to 3) * 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)

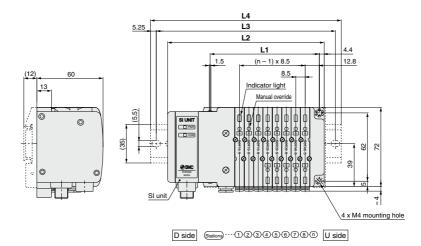
Prefix the asterisk to the part no. of the solenoid valve, etc.

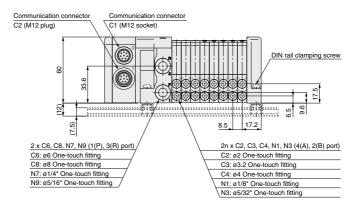
Write sequentially from the 1st station on the D side. When part no. written collectively are complicated, specify on the manifold specification sheet.



10-SS0750

S kit (Serial transmission: EX500)





Dimensions

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

L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	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

How to Order Manifold 10 - SS0750 - 08 C4 C8 SDA3 N - B Clean series 0 0 0 0 0 0 0

Valve stations

•	Tuil To Glutionio										
	Stations	Note									
01	1 station										
:	-	Double wiring									
16	16 stations										
01	1 station	Considered lawweight									
:	-	Specified layout*1									
24	24 stations	(Available up to 32 solenoids)									

*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

WELLIC 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.

P, R port size Metric size

	C6	ø6 One-touch fitting				
C8 ø8 One-touch fitting						
	Inch si	ze				
	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
SDA3	32 outputs*1, 2, 1 to 16 stations (24 stations*3)

- *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)

O or arm (Output polarity)								
	Nil							
	N							
	N							

6 Option

U Op	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)							
N	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:

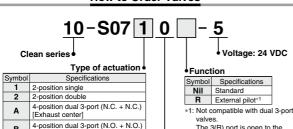
 : Specify a longer rail than the length of valve stations.

 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 Valves



B 4-position dual 3-port (N.O. + N.O.)
[Pressure center]
C 4-position dual 3-port (N.C. + N.O.)
*: For symbol, refer to page 423.

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

Base mounted plug-in



How to Order Manifold Assembly

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

<Example>

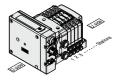
Serial transmission kit

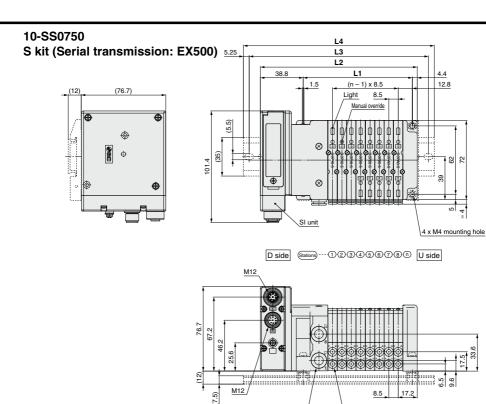
10-SS0750-04C4C8SDA3 --- 1 set – Manifold base part no. * 10-S0720-5 ------- 2 sets – 2-position double part no.

* 10-S0720-5 ----- 2 sets – 2-position double part no.

* 10-S07A0-5 ----- 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.





One-touch fitting

[1(P), 3(R) port] Applicable tube O.D.: ø6, ø1/4"

ø8, ø5/16"

Dimen	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 74 n: Station (Maximum 24 stations)															
) L	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
	4-7	40	40	- 00	04	-	-00	04								

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

One-touch fitting

One-touc.....
[4(A), 2(B) port]
Applicable tube O.D.: ø2
ø3.2, ø1/8"

ø4, ø5/32"

How to Order Manifold



(1) Stations

Symbol	Stations			
01	1 station			
24 Note)	24 stations			

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

(2) Cylinder port size

E 0	E Cylinder port size						
Symbol	Symbol Port size						
C2	With ø2 One-touch fitting						
C3	C3 With ø3.2 One-touch fitting						
C4	C4 With ø4 One-touch fitting						
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

4 Kit type

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

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

(5) SI unit COM.

CI.	unit COM.	EX250						
311	uriit GOWI.	DeviceNet®	AS-Interface	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)

O	© , (,,,					
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 symbol is nil for no SI unit (SD0).

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

Symbol	Specifications					
Nil	Input block: None					
1	M12 2 inputs					
2	M12 4 inputs					
3	M8 4 inputs (3 pins)					

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

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

5	Symbol	Specifications
	Nil	PNP sensor input (+COM.) or without input block
	N	NPN sensor input (-COM.)

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

	Kit type	Note 2) Symbol	Note 2) Symbol Specifications		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™	Stations	Stations	
S kit	serial	SDTA	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

@ 0=+:==

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 (□: Station)				
K Note 4)	Special wiring specifications (Except double wiring)				
N	With name plate				
R Note 5)	External pilot				

Note 1) When two or more options are specified.

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

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

Note 4) Indicate the wiring specifications for mixed single and double wirings

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-S0710-5 3 sets - Valve part no. (Stations 1 to 3)

* 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

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

noid valve, etc.



How to Order Valve

Actuation type

10-S07

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

Note) For symbol, refer to page 423.



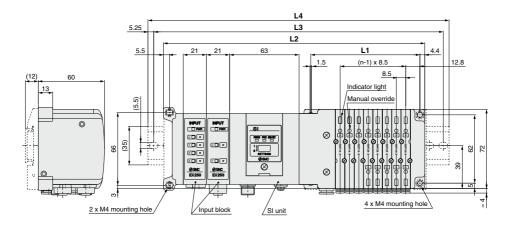
External pilot Note) Note) Not compatible with dual 3-port valves. The 3(R) port is released to the atmosphere

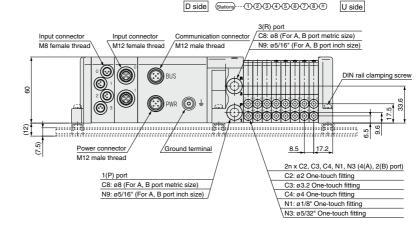
(Pressurization and vacuum are not allowed.)

Base mounted plug-in

10-SS0750

S kit (Serial transmission: EX250)





Dimens	sions	Formula L1 = 8.5n + 31, L2 = 8.5n + 169 (For 2 input blocks, 21 mm is added per 1 pc.) n: Station (Maximum 24 stations)													
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	186	194.5	203	211.5	220	228.5	237	245.5	254	262.5	271	279.5	288	296.5	305
L3	212.5	225	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5	325	325
L4	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	335.5

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

Series 10-S0700 Plug-in Manifold Stacking Base

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



Kit type

How to Order Manifold

10-SS0750-08 C4 SD6Q 2 N 1

Clean series

Stations 4 Symbol Stations 01 1 station 24 Note) 24 stations

Note) Max. number of stations depends on the wiring specifications.

Cylinder port size

Symbol	Port size			
C2	With ø2 One-touch fitting			
C3	With ø3.2 One-touch fitting	Matria		
C4	With ø4 One-touch fitting Metric			
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) Indicate the sizes on the manifold specification sheet for CM and NM

Kit type

Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids	
	SD60	Without SI unit				
	SD6Q	DeviceNet®				
	SD6V	CC-Link				
	SD6N	PROFIBUS DP				
	SD6F	PROFINET				
	SD6ZE	EtherNet/IP™ (1 port)	1 to 16		32	
S kit	SD6EA	EtherNet/IP™ (2 ports)	stations	24 stations Note 3)		
	SD6D	EtherCAT				
	SD6WE	EtherNet/IP™ compatible wireless base Note 4)				
	SD6WF	Wireless base Note 4)				
	SD6WS	Wireless remote Note 4)				

Note 1) Max. station number depends on the number of solenoid valve.

Add the option symbol "-K" when the combination of single wiring and double wiring is specified

- . When "Without SI unit" is specified, valve plate to connect the manifold and SI unit is not mounted. Refer to page 512 for mounting method.
- . I/O unit cannot be chosen without SI unit.

Note 2) For SI unit part number, refer to page 444.

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

Note 4) 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

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

Option

Symbol	Specifications
Nil	None
B Note 2)	With back pressure check valve (All sta.)
D	With DIN rail (Rail length: Standard)
D0	With DIN rail bracket (Without rail)
D Note 3)	With DIN rail length specified (□: Sta.)
K Note 4)	Special wiring specifications (Except double wiring)
N	With name plate
R	External pilot

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

Note 2) When back pressure check valve is used only for specified station, specify back pressure check valve part number, and specify station number to which the valve is mounted on the manifold specification sheet.

Note 3) Specified station number shall be longer than manifold station number.

Note 4) When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet.

Note 5) When "Without SI unit (SD60)" is specified, "With DIN rail (D)" cannot be selected.

I/O unit station number

Nil	None
1	1 station
÷	:
9	9 stations

Note 1) The symbol is nil for no SI unit.

Note 2) SI unit is not included in I/O unit station number.

Note 3) When I/O unit is selected, it is shipped separately, and assembled by customer. Refer to the attached operation manual for mounting method.

SI unit COM

•. •	
Nil	+COM.
N	-COM.

Note) The symbol is nil for no SI unit.

End plate type

Nil	No end plate
2	M12 power supply connector, B-coded
3	7/8 inch power supply connector
4	M12 power supply connector IN/OUT, A-coded, Pin arrangement 1
5	M12 nower supply connector IN/OLIT A-coded, Pin arrangement 2

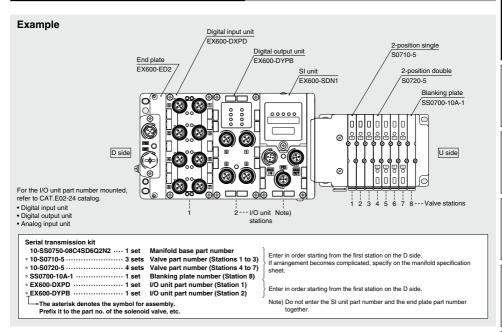
Note) The symbol is nil for no SI unit.

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.

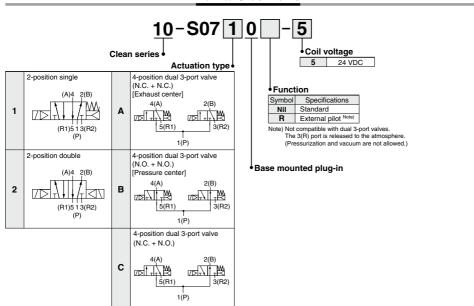
^{*} The pin layout for "4" and "5" pin connector is different.

Air

How to Order Manifold Assembly (Example)

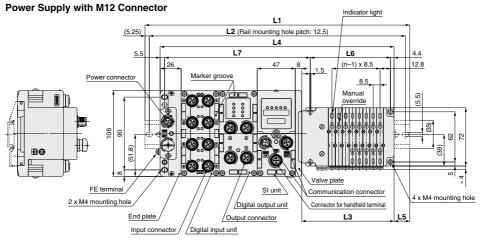


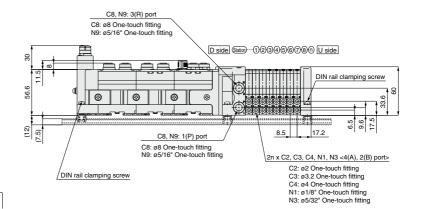
How to Order Valve



SMC







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

L1: DIN Rail Overall Length

Valve 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

Connector for handheld terminal

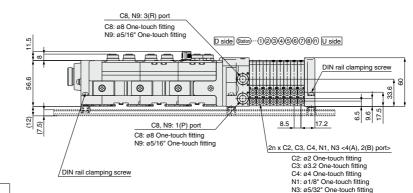
L3

Power Supply with 7/8 Inch Connector Indicator light L1 L2 (Rail mounting hole pitch: 12.5) (5.25)L4 L7 L6 5.5 12.8 26 47 (n - 1) x 8.5 Power connector 8.5 Marker groove Manual override (2.5)00000 90 8 62 72 (51.8) 33 Valve plate FE termina SI uni Communication connector 4 x M4 mounting hole

Digital output unit

Output connector

/Digital input unit



L2 = L1 - 10.5 L3 = 8.5 x n1 + 46 L4 = L3 + 97.5 + 47 x n2 L5 = (L1 - L4)/2 L6 = 8.5 x n1 + 31

L7 = 47 x n2 + 86.1

L1: DIN Rail Overall Lengt

2 x M4 mounting hole

End plate

Input connector

L	1: DIN Rai	I Ove	erall	Leng	jth																				
	Valve stations nit (n1) ations (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	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5
	1	235.5	248	248	260.5	273	273	285.5	298	298	310.5	323	323	335.5	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5
	2	285.5	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	398	410.5	423	423	435.5	448	448	460.5	473	473
	3	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	510.5	523
	4	373	385.5	398	398	410.5	423	423	435.5	448	448	460.5	473	473	485.5	498	498	510.5	523	523	535.5	548	560.5	560.5	573
	5	423	435.5	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	510.5	523	535.5	548	548	560.5	573	573	585.5	598	598	610.5	623
	6	473	473	485.5	498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	660.5
	7	523	523	535.5	548	548	560.5	573	573	585.5	598	598	610.5	623	623	635.5	648	648	660.5	673	673	685.5	698	698	710.5
	8	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	660.5	673	685.5	685.5	698	710.5	723	723	735.5	748	748	760.5
	9	610.5	623	623	635.5	648	648	660.5	673	673	685.5	698	710.5	710.5	723	735.5	735.5	748	760.5	760.5	773	785.5	785.5	798	810.5

Plug-in Manifold Stacking Base

D-sub Connector

F kit

((

Plug-in Manifold Stacking Base



MIL Standard

- 25 pins
- Cable length:
 - 1.5 m, 3 m, 5 m

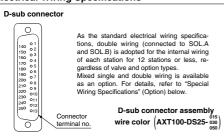
Connector mounting direction: Top or side selectable

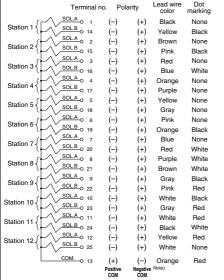
Page 457

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.

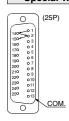
Electrical Wiring Specifications





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

AXT100-DS25-030

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

Cable

D-sub connector cable assembly Wire Color by Terminal No.

Lead wire

color marking

Black None

3 Red

Orange None

Purple White

Gray

White Black

Orange

Blue White

18 Gray

Pink Red

Black White

None

Black

Red

Purple None

None

White

White

Red

White None

2 Brown None

5 Yellow None

6 Pink None

7 Blue None

9

10

11 White Red

12 Yellow Red

13

14 Yellow Black

15 Pink Black

16

17

19 Orange Black

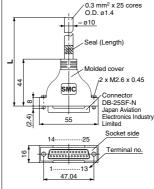
20 Red

21

22

23 Grav

24



D-sub	Connector	
Cable	Assembly	(Option)

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

- For other commercial connectors, use a 25pin type with female connector conforming to MII -C-24308.
- * Cannot be used for movable wiring.

Electrical Characteristics

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

- 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.



How to Order Manifold

10-SS0750-08C4C8FD1-B

Clean series

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

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

Note) Indicate the sizes on the manifold specification sheet for CM and NM.

P, R port size

Symbol	FUIT SIZE	
C6	With ø6 One-touch fitting	Metric
C8	With ø8 One-touch fitting	WELLIC
N7	With ø1/4" One-touch fitting	Inch
N9	With ø5/16" One-touch fitting	IIICH

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

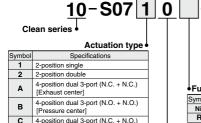
Kit type/Cable length •

Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	FD0	D-sub connector (25P), without cable			
F kit	FD1	D-sub connector (25P), with 1.5 m cable	1 4- 10 -4-4	04 -4-4:	24
I KIL	FD2	D-sub connector (25P), with 3.0 m cable	1 to 12 stations	24 stations	24
	FD3	D-sub connector (25P), with 5.0 m cable			

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

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

How to Order Valve



Note) For symbol, refer to page 423

Base mounted plug-in

Symbol Specifications
5 24 VDC
6 12 VDC

Function Symbol Specifications Nil Standard

R External pilot Note)

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

@SMC

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 (□: Station)
K Note 4)	Special wiring specifications (Except double wiring)
N	With name plate
R Note 5)	External pilot

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

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

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

Note 4) Indicate the wiring specifications for mixed single and double wirings.

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.

How to Order Manifold Assembly

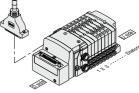
Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

D-sub connector kit

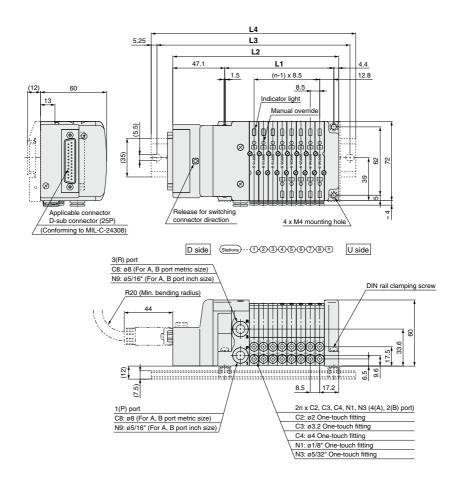
> Prefix the asterisk to the part no. of the solenoid valve, etc.

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



458 A

Series 10-S0700 kit (D-sub Connector)



Dimens	sions											F	ormula	L1 = 8	.5n + 3	1, L2 =	8.5n +	82.5	n: Sta	tion (N	laximu	n 24 st	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	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5	227	235.5	244	252.5	261	269.5	278	286.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323

Plug-in Manifold Stacking Base

Flat Ribbon Cable

P kit



Plug-in Manifold Stacking Base



MIL Standard

- 26 pins, 20 pins
- Cable length
 - 1.5 m, 3 m, 5 m

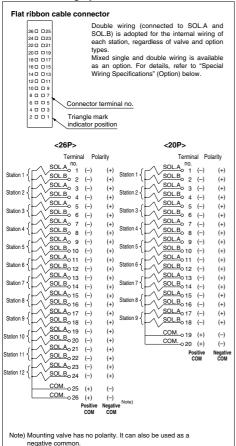
Connector mounting direction: Top or side selectable

Page 461

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 available mounting space.

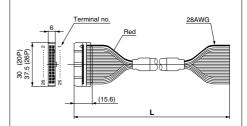
Electrical Wiring Specifications



Cable Assembly

AXT100-FC₂₆-2

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

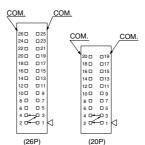
 For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.

Example of connector manufacturers

Cannot be used for movable wiring

- HIROSE ELECTRIC CO., LTD.
 Japan Aviation Electronics Industry, 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 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.



How to Order Manifold

10-SS0750-08 C4 C8 PD1 - B

Clean series •

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

Cylinder port size

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

Note) Indicate the sizes on the manifold specification sheet for CM and NM.

P, R port size

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

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

Option

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

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

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

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

Note 4) Indicate the wiring specifications for mixed single and double wirings.

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.

Kit type/Cable length •

Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	PD0	Flat ribbon cable (26P), without cable			
	PD1	Flat ribbon cable (26P), with 1.5 m cable	1 to 12	24 stations	24
P kit	PD2	Flat ribbon cable (26P), with 3.0 m cable	stations	24 Stations	24
	PD3	Flat ribbon cable (26P), with 5.0 m cable			
	PDC	Flat ribbon cable (20P), without cable	1 to 9 stations	18 stations	18

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

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

How to Order Valve



Actuation tur

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

Note) For symbol, refer to page 423.

Clean series

Base mounted plug-in

Voltage Symbol Specifications 5 24 VDC

12 VDC

Function

Symbol	Specifications	
Nil	Standard	
R	External pilot Note)	

6

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.

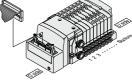
<Example>

Flat ribbon cable kit

10-SS0750-08C4C8PD1 ··· 1 set - Manifold base part no.

- * 10-S0710-5 ------ 2 sets Valve part no. (Stations 1 to 3) * 10-S0720-5 ----- 4 sets – Valve part no. (Stations 4 to 5)

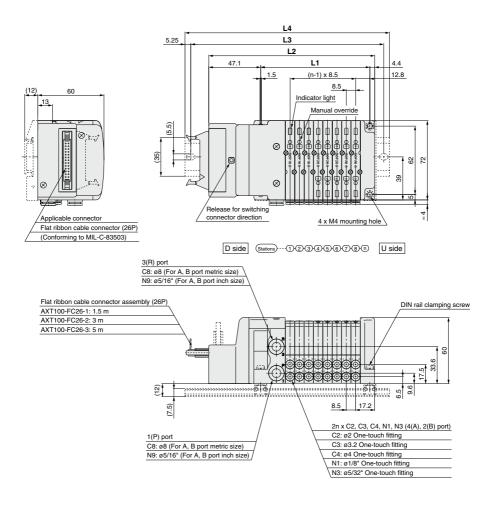
Prefix the asterisk to the part no. of the solenoid valve, etc. Write sequentially from the 1s station on the D side. When part no. written collectively are complicated, specify on the manifold specification sheet.



Pressure Sw Pressure Se



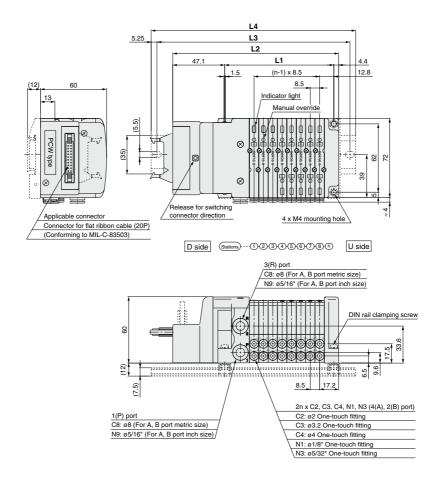
Series 10-S0700 kit (Flat Ribbon Cable)



Dimen:	Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 24 stations											tations)											
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	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 kit (PC Wiring System Compatible Flat Ribbon Cable)



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

€

Plug-in Manifold Stacking Base

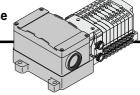


With Terminal Block Box

Page 469

SMC

Series 10-S0700 Plug-in Manifold Stacking Base kit (Terminal Block Box)

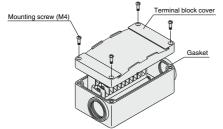


This kit has a small terminal box inside a junction box. The electrical entry port (G3/4) permits connection of conduit fittings.

Terminal Block Connection

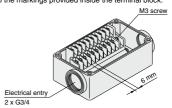
Step 1. How to remove terminal block cover

Loosen the 4 mounting screws (M4) and open the terminal



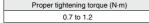
Step 2. The diagram below shows the terminal block wiring schematic. All stations are provided with double solenoid wiring.

Connect each wire to the power supply side, according to the markings provided inside the terminal block.

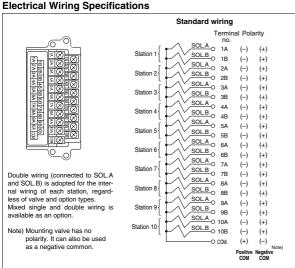


Step 3. How to replace terminal block cover

Securely tighten the screws with the torque shown in the table below, after confirming that the gasket is installed correctly.



Applicable crimped terminal: 1.25-3S,1.25Y-3,1.25Y-3N,1.25Y-3.5



Special Wiring Specifications (Option) [-K]

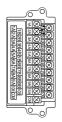
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 20.

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

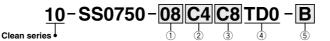
2. Wiring specifications

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.





How to Order Manifold



(1) Stations

Stations					
1 station					
:					
20 stations					

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

2 Cylinder port size

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

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

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

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

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 (□: Station)					
K Note 4)	Special wiring specifications (Except double wiring)					
N	With name plate					
R Note 5)	External pilot					

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

the part number and specify the station position on the manifold specification sheet. Note 3) The available number of stations is larger than the number of manifold

stations. Note 4) Indicate the wiring specifications for mixed single and double wirings.

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.

(3) P. R port size

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

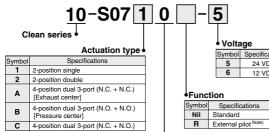
4 Kit type

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

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

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

How to Order Valve



Base mounted plug-in

Note) For symbol, refer to page 423

Symbol Specifications 24 VDC 12 VDC

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

SMC

How to Order Manifold Assembly

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

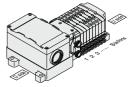
<Example>

Terminal block box kit

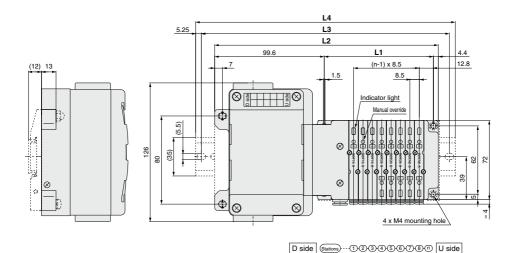
10-SS0750-08C4C8TD0---1 set - Manifold base part no. * 10-S0710-5 3 sets - Valve part no. (Stations 1 to 3) * 10-S0720-5.... ·····2 sets - Valve part no. (Stations 4 to 5) * 10-S07A0-52 sets - Valve part no. (Stations 6 to 7) SS0700-10A-11 set - Blanking plate part no. (Station 8)

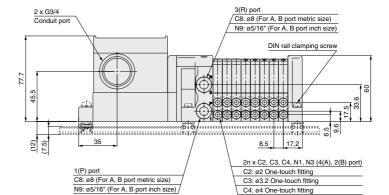
> Prefix the asterisk to the part no. of the solenoid valve, etc.

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



Series 10-S0700 kit (Terminal Block Box)





Dimens	ions									F	ormula L	1 = 8.5n	+ 31, L2	2 = 8.5n	+ 135	n: Statio	n (Maxir	num 20 :	stations)
L	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

N1: ø1/8" One-touch fitting N3: ø5/32" One-touch fitting

Plug-in Manifold Stacking Base

Lead Wire

L kit

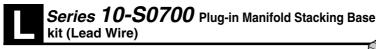


Plug-in Manifold Stacking Base



Lead Wire Direct Entry Type

Page 473



Direct electrical entry type

Electrical Wiring Specifications

Lead wire specifications Lead wire 0.3 mm² x 25 cores

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.

Sheath Color: White

		rminal	Pola	rity	Lead wire color	Dot marking
- A. J. C.	SOL.A	1	(-)	(+)	Black	None
Station 1	SOL.B	14	(-)	(+)	Yellow	Black
	SOL.A	2	(-)	(+)	Brown	None
Station 2	SOL.B	15	(-)	(+)	Pink	Black
Station 3	SOL.A	3	(-)	(+)	Red	None
Station 3	SOL.B _O	16	(-)	(+)	Blue	White
Station 4	SOL.A	4	(-)	(+)	Orange	None
Station 4	SOL.B	17	(-)	(+)	Purple	None
Station 5	SOL.A	5	(-)	(+)	Yellow	None
Stations	SOL.B _O		(-)	(+)	Gray	None
Station 6	SOL.A	6	(-)	(+)	Pink	None
	SOL.B _O	19	(-)	(+)	Orange	Black
Station 7	SOL.A	7	(-)	(+)	Blue	None
) () () () () () () () () ()	SOL.B _O	20	(-)	(+)	Red	White
Station 8	SOL.A	8	(-)	(+)	Purple	White
Old library	SOL.B _O	21	(-)	(+)	Brown	White
Station 9	SOL.A _O	9	(-)	(+)	Gray	Black
Old lion of the	SOL.B _O		(-)	(+)	Pink	Red
Station 10	SOL.A _O	10	(-)	(+)	White	Black
	SOL.B _O		(-)	(+)	Gray	Red
Station 11	SOL.A		(-)	(+)	White	Red
· · · · · · · · · · · · · · · · · · ·	SOL.B _O		(-)	(+)	Black	White
Station 12	SOL.A	12	(-)	(+)	Yellow	Red
-1+V	SOL.B _O	25	(-)	(+)	White	None
	COM.	13	(+)	(-)	Orange	Red
			ositive	Negative	ote)	
			COM	COM		

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

Lead wire length

SS0750-08 C4 LD 0

Lead wire length

0	0.6 m							
1	1.5 m							
2	3.0 m							

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.

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.



How to Order Manifold

10-SS0750-08 C4 C8 LD0-B

Clean series

Stations 4 Symbol Stations 02 2 stations 24 24 stations

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

Cylinder port size

Symbol	Port size				
C2					
C3 With Ø3.2 One-touch fitting					
C4 With ø4 One-touch fitting Met					
CM					
N1 With ø1/8" One-touch fitting					
N3 With ø5/32" One-touch fitting In					
NM Mixed sizes and with port plug Note)					

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

P, R port size

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

Note) If an inch size cylinder port is selected, select inch

size piping connections for the P and R ports as well

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 (□: Station)							
K Note 4)	Special wiring specifications (Except double wiring)							
N	With name plate							
R Note 5)	External pilot							
Note 1) Who	on two or more entions 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.

Kit type/Cable length

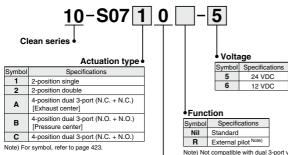
, po	,				
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	LD0	Lead wire, with 0.6 m cable			
L kit	LD1	Lead wire, with 1.5 m cable	1 to 12 stations	24 stations	24
	I D2	Lead wire with 3.0 m cable			

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

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

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

How to Order Valve



Base mounted plug-in

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>

Lead wire kit

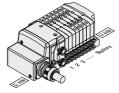
10-SS0750-08C4C8LD0...1 set - Manifold base part no.

* 10-S0710-53 sets - Valve part no. (Stations 1 to 3) * 10-S0720-5 ·· ... 2 sets - Valve part no. (Stations 4 to 5)

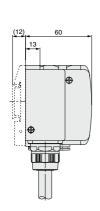
* 10-S07A0-52 sets - Valve part no. (Stations 6 to 7) SS0700-10A-11 set - Blanking plate part no. (Station 8)

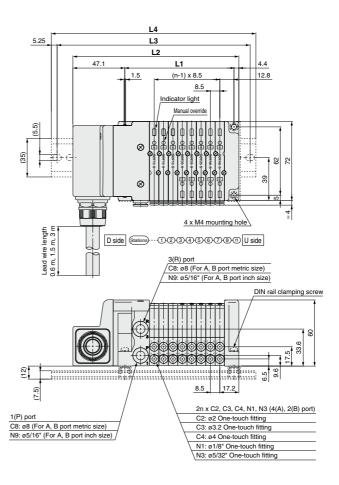
Prefix the asterisk to the part no. of the solenoid valve, etc.

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



Series 10-S0700 kit (Lead Wire)





Dimens	sions											F	ormula	L1 = 8	.5n + 3	1, L2 =	8.5n +	82.5	n: Sta	tion (M	laximu	n 24 st	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	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167	175.5	184	192.5	201	209.5	218	226.5	235
L2	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210	218.5	227	235.5	244	252.5	261	269.5	278	286.5
L3	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250	262.5	275	275	287.5	300	300	312.5
L4	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	310.5	323

Plug-in Manifold Stacking Base

Circular Connector

M kit



Plug-in Manifold Stacking Base



Circular Connector 26 Pins

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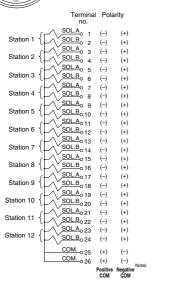
 Simplification and labor savings for wiring work can be achieved by using a circular connector for the electrical connection.

Electrical Wiring Specifications



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

Mixed single and double wiring is available as an option. For details, refer to "Special Wiring Specifications" (Option) below.



Special Wiring Specifications (Option) [-K]

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

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

negative common.

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.

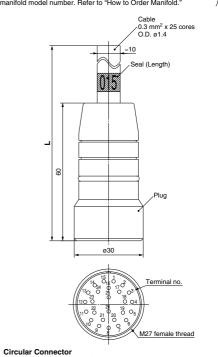
2. Wiring specifications

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

Cable Assembly

AXT100-MC26-030 050

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

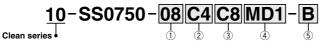
Cannot be used for movable wiring.



Grippers

Air

How to Order Manifold



1) Stations

Symbol Stations							
02	2 stations						
:							
24 Note)	24 stations						

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

2 Cylinder port size

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

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

3 P, R port size

Port size	
With ø6 One-touch fitting	Metric
With ø8 One-touch fitting	ivietric
With ø1/4" One-touch fitting	Inch
With ø5/16" One-touch fitting	IIICII
	With ø6 One-touch fitting With ø8 One-touch fitting With ø1/4* One-touch fitting

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

(5) Ontion

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

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

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

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.

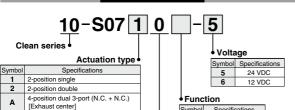
4 Kit type/Cable length

	Kit type	Symbol	Specifications		Max. number of stations for special wiring specifications	Max. number of solenoids	
	M leit	MD0	Circular connector (26P), without cable				
		MD1	Circular connector (26P), with 1.5 m cable	4 1 40 1 1			
		MD2	Circular connector (26P), with 3.0 m cable	1 to 12 stations	24 stations	24	
		MD3	Circular connector (26P), with 5.0 m cable				

Note) 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.

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

How to Order Valve



[Pressure center] 4-position dual 3-port (N.C. + N.O.) Note) For symbol, refer to page 423

R

Base mounted plug-in

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

Symbol Specifications Nil Standard External pilot Note

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

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

<Example>

10-S0710-5 ····

Circular connector kit



......3 sets - Valve part no. (Stations 1 to 3) * 10-S0720-52 sets - Valve part no. (Stations 4 to 5)



How to Order Manifold Assembly Specify the part numbers for valves and options together beneath the manifold base part number.

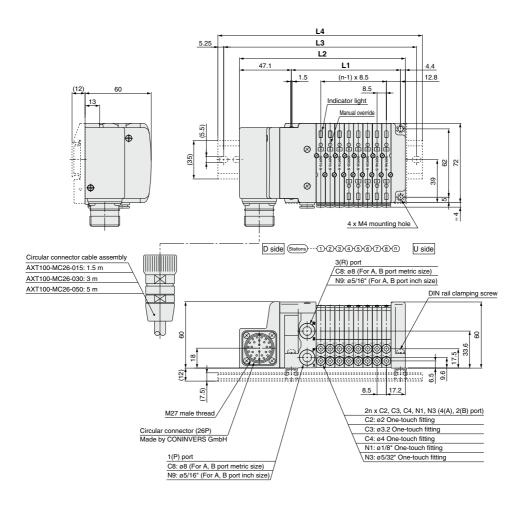
10-SS0750-08C4C8MD1 ··· 1 set - Manifold base part no.

* 10-S07A0-52 sets - Valve part no. (Stations 6 to 7)

Pressure



Series 10-S0700 kit (Circular Connector)



		Dimensions										Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5						n: Station (Maximum 24 stations)			
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 1	25 133.5	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 1	50 162.5	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 1	60.5 173	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

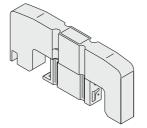
Manifold Optional Parts

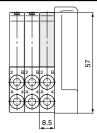
Blanking plate

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 specifica-

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

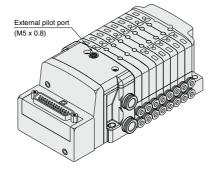
External pilot

How to Order Manifold (Example)

* Indicate R for an option.

10-SS0750-08C4FD1-R

External pilot



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.

BA

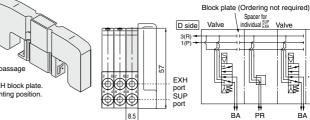
Individual SUP/EXH spacer SS0700-PR-1

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.



Air

SUP block plate

SS0700-B-P

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

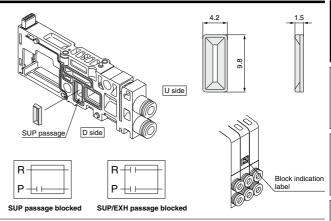
* Specify the number of stations on the manifold specification sheet.

<Block indication label>

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

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

Weight: 0.3 g



EXH block plate

SS0700-B-R

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

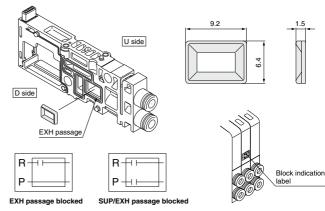
 Specify the number of stations on the manifold specification sheet.

<Block indication label>

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

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

Weight: 0.3 g

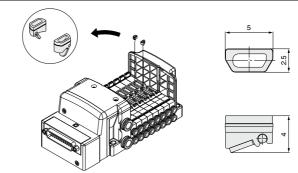


Back pressure check valve [-B] SS0700-7A-1

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

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

Weight: 0.1 g



⚠ Precautions

- The back pressure check valve assembly is assembly parts with a check valve structure. However, as slight air leakage is allowed for the back pressure, take care the exhaust air will not be restricted at the exhaust port.
- When a back pressure check valve is mounted, the effective area of the valve will decrease by about 20%



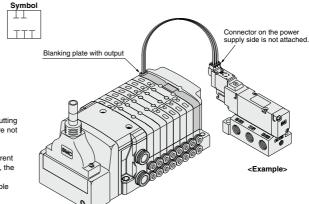
Series 10-S0700 Plug-in Manifold Stacking Base **Manifold Optional Parts**

Blanking plate with output

SS0700-1C-

Lead wire length (mm)

Loud Will Clong							
Nil	600						
10	1000						
15	1500						
20	2000						
25	2500						
30	3000						



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

Note 1) Electric current should be 0.5 A or less. (Including the mounted valves) When the current is output from two positions at the same time, the current should be 0.25 A or less.

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

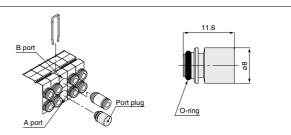
Weight: 34 g

Port plug

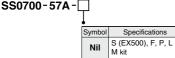
VVQ0000-CP

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

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



DIN rail mounting bracket



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)).

DIN rail mounting * When ordering this option incorporated

with a manifold, suffix "-D" to the end of the manifold part number.

Blanking plug (For One-touch fittings)

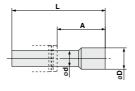
KJP-02



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

Purchasing order is available in units of 10 pieces.

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Dimensions									
Applicable fitting size ød	size ød Wiodei		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				



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

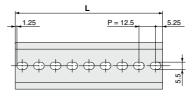


How to Order DIN rail only

DIN rail part number

AXT100-DR-III

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





L Dimens	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	
No.	11	12	13	14	15	16	17	18	19	20	
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	
No.	21	22	23	24	25	26	27	28	29	30	
L dimension	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	
No	31	32	33	3/1	35	36	37	38	30	40	

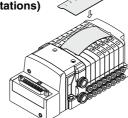
140.		22	20	2-7	20	20	21	20	20	00
L dimension	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5
No.	31	32	33	34	35	36	37	38	39	40
L dimension	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5
				•		•				•

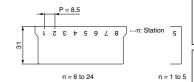
Name plate [-N]

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.

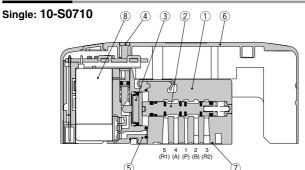


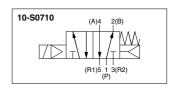


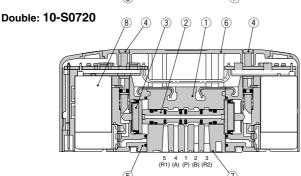
ØSMC

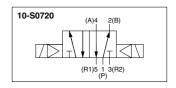
Series 10-S0700 Plug-in Manifold Stacking Base

Construction

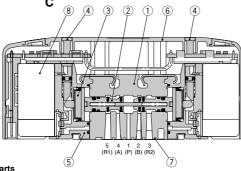








A Dual 3-Port: 10-S07B0

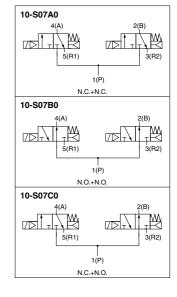


Component Parts

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

Note) Please consult with SMC for pilot valve replacement.

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Series 10-S0700/Plug-in Manifold

Manifold Exploded View

		Housing assembly and SI unit	D-side end plate assembly	Manifold block assembly	U-side end plate assembly
	EX500	1000			
	EX250	3 2 2			
Skit	EX600				(18)
	EX500				
: 1	r Kit		(6)		
:	P/J Kit			20 19	
:	- KII	(3)			
:	L KIT				
:	M Kit	1 5			

Manifold Assembly Part No.

The 1-port EtherNet/IP compatible SI unit is to be discontinued as of March 2022. Please consider ordering the 2-port EtherNet/IP compatible SI unit as a substitute.

Discontinued models EX600-SEN1 EX600-SEN2

Substitute models EX600-SEN3 EX600-SEN4

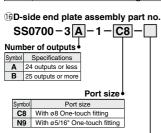
<Housing Assembly and SI Unit, Input Block>

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)
_	EVOCO OL!	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-SPN1	PROFINET M12 connector, 32 outputs, PNP (Negative common)
		EX260-SPN2	PROFINET M12 connector, 32 outputs, NPN (Positive common)
		EX260-SPN3	PROFINET M12 connector, 16 outputs, PNP (Negative common)
		EX260-SPN4	PROFINET M12 connector, 16 outputs, NPN (Negative common)
		EX260-SEN1	EtherNet/IP™ M12 connector, 32 outputs, PNP (Negative common)
		EX260-SEN2	EtherNet/IP™ M12 connector, 32 outputs, NPN (Negative common)
		EX260-SE3	EtherNet/IP™ M12 connector 16 outputs, PNP (Negative common)
		EX260-SE4	EtherNet/IP™ M12 connector, 16 outputs, NPN (Positive common)
-		EX250-SE4 EX250-SDN1	DeviceNet® PNP (Negative common)
		EV250 CDD1	PROFIBUS DP PNP (Negative common)
		EX250-SPR1	AS-Interface 31 slave, 8 in/8 out, 2 isolated common type, PNP (Negative common
		EX250-SAS3	
)	EX250 SI unit	EX250-SAS5	AS-Interface 31 slave, 4 in/4 out, 2 isolated common type, PNP (Negative comm
		EX250-SAS7	AS-Interface 31 slave, 8 in/8 out, 1 common type, PNP (Negative comm
		EX250-SAS9	AS-Interface 31 slave, 4 in/4 out, 1 common type, PNP (Negative comm
		EX250-SCA1A	CANopen PNP (Negative common)
_		EX250-SEN1	EtherNet/IP™ PNP (Negative common)
	EVOSO la sust blaste	EX250-IE1	M12 2 inputs
3	EX250 input block	EX250-IE2	M12 4 inputs
		EX250-IE3	M8 4 inputs
i)	EX250 end plate assembly	EX250-EA1	Direct mounting
_		EX250-EA2	DIN rail mounting
		EX600-SDN1A	DeviceNet® PNP (Negative common)
		EX600-SDN2A	DeviceNet® NPN (Positive common)
			CC-Link PNP (Negative common)
		EX600-SMJ1	
		EX600-SMJ2	CC-Link NPN (Positive common)
		EX600-SMJ2 EX600-SPR1A	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common)
		EX600-SMJ2 EX600-SPR1A EX600-SPR2A	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common)
		EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common)
		EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) NPN (Positive common)
		EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2 EX600-SEN3	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) NPN (Positive common) EtherNet/IP™ (2 ports) PNP (Negative common)
0	FX600 Stunit	EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN4	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) NPN (Positive common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common)
0	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN4 EX600-SPN1	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Positive common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common)
)	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN2	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) NPN (Positive common) PROFINET PNP (Negative common) PROFINET NPN (Positive common)
0	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPC1	CC-Link NPN (Positive common) PROFIBUS DP NPN (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 port) PNP (Negative common) EtherNet/IP™ (2 ports) NPN (Positive common) EtherNet/IP™ (2 ports) NPN (Positive common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common)
0	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SEC1 EX600-SEC2	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) NPN (Positive common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common)
0	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SEC1 EX600-SEC1 EX600-WEN1	CC-Link NPN (Positive common) PROFIBUS DP NPN (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common) EtherCAT TNP (Negative common) EtherCAT NPN (Positive common)
))	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPC1 EX600-SEC1 EX600-SEC1 EX600-SEC1 EX600-WEN1 Note)	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT NPN (Positive common) EtherCAT NPN (Positive common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common)
))	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SEC1 EX600-MEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common)
)	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SEC1 EX600-SEC1 EX600-WEN2 Note) EX600-WEN2 Note) EX600-WEN2 Note) EX600-WEN2 Note) EX600-WPN2 Note)	CC-Link NPN (Positive common) PROFIBUS DP NPN (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PROFINET NPN (Negative common)
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))	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-SEC1 EX600-WEN1 Note) EX600-WPN1 Note) EX600-WPN1 Note) EX600-WPN1 Note) EX600-WSV1 Note) EX600-WSV2 Note)	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PNOFINET NPN (Positive common) Wireless base module PNOFINET NPN (Positive common) Wireless base module PNOFINET NPN (Positive common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common)
)	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPC2 EX600-WEN1 EX600-SEC2 EX600-WEN1 EX600-WEN2 EX600-WEN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WSN2 EX600-WS	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Positive common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module PROFINET PNP (Negative common)
))	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-SEC1 EX600-WEN1 Note) EX600-WPN1 Note) EX600-WPN1 Note) EX600-WPN1 Note) EX600-WSV1 Note) EX600-WSV2 Note)	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PROFINET PNP (Negative common) Wireless ternote module PNP (Negative common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) NPN input, M12 connector, 5 pins (4 pos.), 8 inputs PNP input, M12 connector, 5 pins (4 pos.), 8 inputs
)	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SEC1 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN1 Notes EX600-WYN1 Notes EX600-WSV1 Notes EX600-WSV1 Notes EX600-WSV2 EX600-DXNB	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) NPN (Positive common) PROFINET PNP (Negative common) PROFINET NPN (Positive common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Positive common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PROFINET NPN (Negative common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) NPN input, M12 connector, 5 pins (4 pos.), 8 inputs
	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPC2 EX600-WEN Note) EX600-WEN Note) EX600-WPN Note) EX600-WPN Note) EX600-WPN Note) EX600-WYN Note) EX600-WYN Note) EX600-WSVN Note) EX600-WSVN Note) EX600-WSVN Note) EX600-WSVN Note) EX600-WSVN Note) EX600-DXNB EX600-DXNB	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) NPN (Positive common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PNP (Negative common) Wireless base module PNP (Negative common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) NPN input, M12 connector, 5 pins (4 pcs.), 8 inputs PNP input, M12 connector, 5 pins (4 pcs.), 8 inputs NPN input, M8 connector, 5 pins (4 pcs.), 8 inputs
	EX600 SI unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-WEN1 EX600-WEN1 EX600-WEN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WSV1 EX600-WSV2 EX600-WSV2 EX600-WSV2 EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNC EX600-DXNC	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) PROFINET PNP (Negative common) EtherCAT NPN (Positive common) EtherCAT NPN (Positive common) Wireless base module EtherNet/IP™ NPN (Negative common) Wireless base module PROFINET PNP (Negative common) Wireless remote module PNP (Negative common) Wireless remote module NPN (Positive common) Wireless remote module NPN (Positive common) Wireless remote module NPN (Positive common) NPN input, M12 connector, 5 pins (4 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs
		EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN3 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-WEN1 Note) EX600-WEN2 Note) EX600-WPN1 Note) EX600-WPN1 Note) EX600-WSN2 Note) EX600-WSN2 Note) EX600-WSN2 Note) EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNC EX600-DXNC	CC-Link NPN (Positive common) PROFIBUS DP PNP (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PROFINET PNP (Negative common) Wireless base module PROFINET NPN (Positive common) Wireless remote module PNP (Negative common) NPN input, M12 connector, 5 pins (4 pcs.), 8 inputs NPN input, M3 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs
	EX600 SI unit EX600 digital input unit	EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SEC1 EX600-SEC2 EX600-WEN1 Note) EX600-WPN1 Note) EX600-WPN1 Note) EX600-WPN2 Note) EX600-WSV2 Note) EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNC1 EX600-DXNC1 EX600-DXNC1 EX600-DXPC	CC-Link NPN (Positive common) PROFIBUS DP NPN (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) NPN (Positive common) EtherNet/IP™ (2 ports) NPN (Positive common) EtherNet/IP™ (2 ports) NPN (Positive common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PROFINET NPN (Regative common) Wireless base module PROFINET NPN (Positive common) Wireless remote module PNP (Negative common) Nireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) Nireless remote module NPN (Negative common) Nireless remote module RNPN (Negative common)
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		EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-WPN2 EX600-WPN1 EX600-DXND EX600-DXNB EX600-DXNC1 EX600-DXNC1 EX600-DXPC1 EX600-DXPC1 EX600-DXND EX600-DXND EX600-DXND EX600-DXND	CC-Link NPN (Positive common) PROFIBUS DP NPN (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ PNP (Negative common) Wireless base module EtherNet/IP™ NPN (Positive common) Wireless base module PROFINET PNP (Negative common) Wireless base module PROFINET NPN (Positive common) Wireless remote module PNP (Negative common) NPN input, M12 connector, 5 pins (4 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 16 inputs
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		EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN4 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-WPN2 EX600-WPN1 EX600-DXND EX600-DXNB EX600-DXNC1 EX600-DXNC1 EX600-DXPC1 EX600-DXPC1 EX600-DXND EX600-DXND EX600-DXND EX600-DXND	CC-Link NPN (Positive common) PROFIBUS DP NPN (Negative common) PROFIBUS DP NPN (Positive common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (1 port) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) EtherNet/IP™ (2 ports) PNP (Negative common) PROFINET PNP (Negative common) EtherCAT PNP (Negative common) EtherCAT PNP (Negative common) Wireless base module EtherNet/IP™ NPP (Negative common) Wireless base module EtherNet/IP™ NPP (Negative common) Wireless base module PROFINET PNP (Negative common) Wireless base module PNOFINET NPN (Positive common) Wireless remote module PNOFINET NPN (Positive common) Wireless remote module PNP (Negative common) Wireless remote module PNP (Negative common) Nireless remote module PNP (Negative common) Nireless remote module PNP (Negative common) NPN input, M12 connector, 5 pins (4 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 3 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 16 inputs NPN input, M12 connector, 5 pins (8 pcs.), 16 inputs

Manifold Assembly Part No.

<Housing Assembly and SI Unit, Input Block>

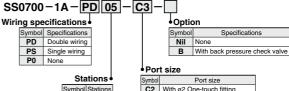
No.	Description	Part no.	Note
	·	EX600-DYNB	NPN output, M12 connector, 5 pins (4 pcs.), 8 outputs
		EX600-DYPB	PNP output, M12 connector, 5 pins (4 pcs.), 8 outputs
	EVOCO di elte i entent melt	EX600-DYNE	NPN output, D-sub connector, 25 pins,16 outputs
	EX600 digital output unit	EX600-DYPE	PNP output, D-sub connector, 25 pins, 16 outputs
		EX600-DYNF	NPN output, Spring type terminal block, 32 pins, 16 outputs
		EX600-DYPE	PNP output, Spring type terminal block, 32 pins, 16 outputs
6		EX600-DMNE	NPN input/output, D-sub connector, 25 pins, 8 inputs/outputs
	EX600 digital I/O unit	EX600-DMPE	PNP input/output, D-sub connector, 25 pins, 8 inputs/outputs
	EX600 digital I/O dilit	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
	EX600 analog input unit	EX600-AXA	M12 connector, 5 pins (2 pcs.), 2-channel input
	EX600 analog output unit	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-ED2-2	M12 connector, 5 pins, with DIN rail mounting bracket
	EX600 end plate	EX600-ED3	7/8 inch connector, 5 pins
(7)		EX600-ED3-2	7/8 inch connector, 5 pins, with DIN rail mounting bracket
W)		EX600-ED4	M12 connector (4 pins/5 pins) IN/OUT
		EX600-ED4-2	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
(8)	EX600 valve plate	EX600-ZMV1	Enclosed parts: Round head screw (M4 x 6) 2 pcs, Round head screw (M3 x 8) 4 pcs.
9	EX600 bracket for end plate	EX600-ZMA2	This bracket is used for the end plate of DIN rail mounting.
		EX500-S103	EX500 Gateway Decentralized System 2 Negative common (PNP)
10	EX500 SI unit	EX500-Q001	EX500 Gateway Decentralized System Positive common (NPN)
		EX500-Q101	EX500 Gateway Decentralized System Negative common (PNP)
11)	D-sub connector housing assembly	VVQC1000-F25-1	F kit, 25 pins
	Flat ribbon cable housing assembly	VVQC1000-P26-1	P kit, 26 pins
(12)	• ,	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
(13)	Terminal block box housing assembly	VVQC1000-T0-1	T kit
		VVQC1000-L25-0-1	L kit, Lead wire length 0.6 m
(14)	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
15	Circular connector housing assembly	VVQC1000-M26-1	M kit, 26 pins



	Option 4		
Symbol	Specifications		
Nil	Common EXH		
R	External pilot		
S	Direct EXH outlet with built-in silencer		

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

(7) Manifold block assembly Tie-rod (2 pcs.) and lead wire assembly for extensions are attached.



Symbol Stations 02 2 stations 24 stations

Port size C2 With ø2 One-touch fitting C3 With ø3.2 One-touch fitting C4 With ø4 One-touch fitting N1 With ø1/8" One-touch fitting N3 With ø5/32" One-touch fitting C0 Without One-touch fitting

18U-side end plate assembly part no.

SS0700-2A-2

19Fitting assembly part no. VVQ0000-50A-C4

	FUIT SIZE			
Symbol	Applicable tube			
C2	Applicable tube ø2			
C3 Applicable tube ø3				
C4	Applicable tube ø4			
N1	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.

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

nepi	cement raits		
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.
 - □: Stations 02 to 24

Replacement Parts

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

Specifications

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



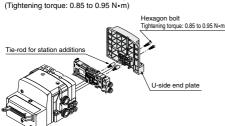
How to Add Manifold Stations (Plug-in Type / Lead Wire Connection Type)

What to order

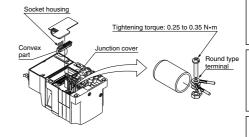
• Manifold block assembly (Refer to page 489-16.)

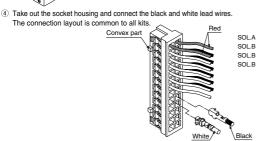
Steps for adding stations

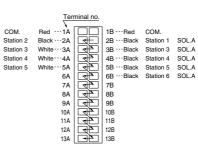
- 1) Loosen hexagon bolts from the end plate at the U-side and remove the end plate.
- 2 Connect the tie-rod for increasing the station number, open the junction cover, mount the manifold block assembly and U-side end plate and tighten them by hexagon bolts.



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







COM



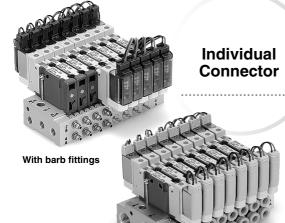
Plug Lead Manifold Bar Base

Connector

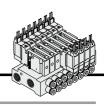
C kit

((

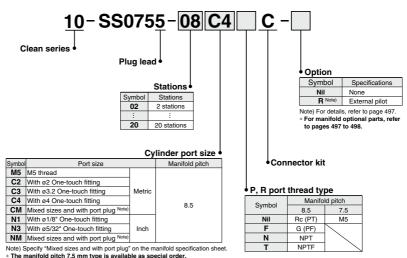
Plug-in Manifold Bar Base

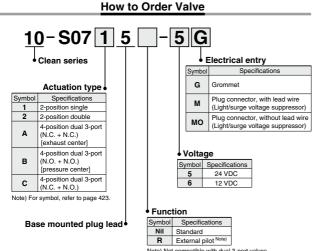


With One-touch fittings



How to Order Manifold





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-S6075-0704C... 1 set – Manifold base part no.

* 10-S075-0704C... 1 set – Manifold base part no.

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

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

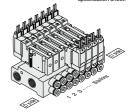
* 10-S07A5-5G... 2 sets – Valve part no. (Stations 6 to 7)

Write sequentially from the

Prefix the asterisk to

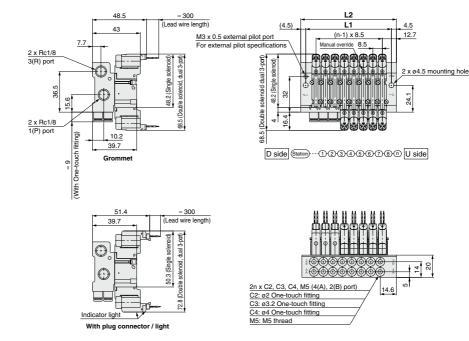
the part no. of the

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





10-SS0755-



Dimensions							Formula L1 = 8.5n + 8.9, L2 = 8.5n + 17.9							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	25.9	34.4	42.9	51.4	59.9	68.4	76.9	85.4	93.9	102.4	110.9	119.4	127.9	136.4	144.9	153.4	161.9	170.4	178.9
L2	34.9	43.4	51.9	60.4	68.9	77.4	85.9	94.4	102.9	111.4	119.9	128.4	136.9	145.4	153.9	162.4	170.9	179.4	187.9

Plug Lead Manifold Bar Base

Serial Transmission

S kit



Plug Lead Manifold Bar Base



Gateway-type Serial Transmission System

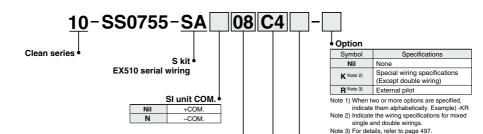
EX510

Connect all wiring using connectors.

→ Page 495



How to Order Manifold



Stations •

Symbol	Stations			
02	2 stations			
- :				
16	16 stations			

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

Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
1 to 8 stations	16 stations	16

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

Refer to the WEB catalog for details on the EX510 Gateway-type Serial Transmission System.

to 498 P. R port thread type

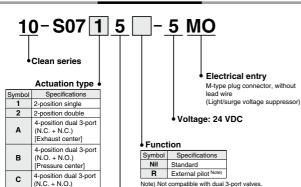
Symbol	Manifold pitch		
Symbol	8.5		
Nil	Rc (PT)		
F	G (PF)		
N	NPT		
Т	NPTF		

Cylinder port size

- Cylinder port size					
Symbol	Symbol Port size				
M5	M5 thread				
C2	With ø2 One-touch fitting				
C3 With ø3.2 One-touch fitting		Metric			
C4 With ø4 One-touch fitting					
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

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.)

Base mounted plug lead

Note) For symbol, refer to page 423

How to Order Manifold Assembly

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

* For manifold optional parts, refer to pages 497

<Example>

Serial transmission kit

10-SS0755-SA08C4 ··· 1 set - Manifold base part no.

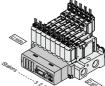
* 10-S0715-5MO 3 sets - Valve part no. (Stations 1 to 3) 10-S0725-5MO ----- 3 sets - Valve part no. (Stations 4 to 6)

10-S07A5-5MO ······ 2 sets - Valve part no. (Stations 7 to 8) Write sequentially from the

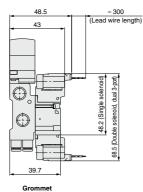
Prefix the asterisk to the part no. of the

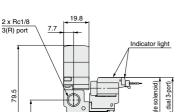
1st station on the D side When part no. written collectively are complicated, specify on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations.

Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Please specify the mounting enoid valve when ordering.



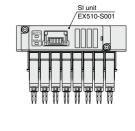
10-SS0755 S kit (Serial transmission: EX510)

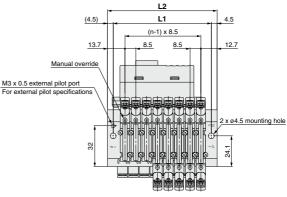




72.8 (Double solenoid, dual 3-port) 50.3 (Single solenoid) 79.5 36.5 2 x Rc1/8 1(P) port ≈ 9 (With One-touch fitting) 10.2 39.7 51.4 = 300 (Lead wire length)

With plug connector / light





D side (Station) (1) (2) (3) (4) (5) (6) (7) (8) (1)	U side
--	--------

Cover dia. e0.9 Cross section 0.38 mm²	
11.8 8.5	2n x C2, C3, C4, M5 (4(A), 2(B) port)
	C2: ø2 One-touch fitting C3: ø3.2 One-touch fitting

١	C2: Ø2 One-touch fitting
	C3: ø3.2 One-touch fitting
	C4: ø4 One-touch fitting

1	C4:	Ø4 I	One-
	M5:	M5	thre

<u>Dimensions</u>						
	2					

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

Series 10-S0700 Plug Lead Manifold Bar Base Manifold Optional Parts

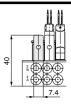
Blanking plate assembly

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

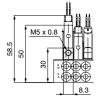
Port size
M5 M5 thread

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

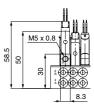
Port size
M5 M5 thread

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.



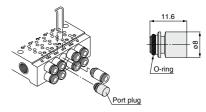


Port plug

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.



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)

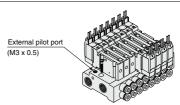
10-S0715 B -5G

External pilot

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

10-SS0755-08C4C-R

External pilot



Note 1) The dual 3-port valve is not available.

Note 2) When the internal pilot type and external pilot type of valves are mixed up on the manifold, order the manifold suitable for the specifications of the external pilot valve.

Note 3) 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.

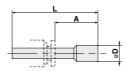


Blanking plug (For One-touch fittings)

KJP-02

23 KQ2P-04 06

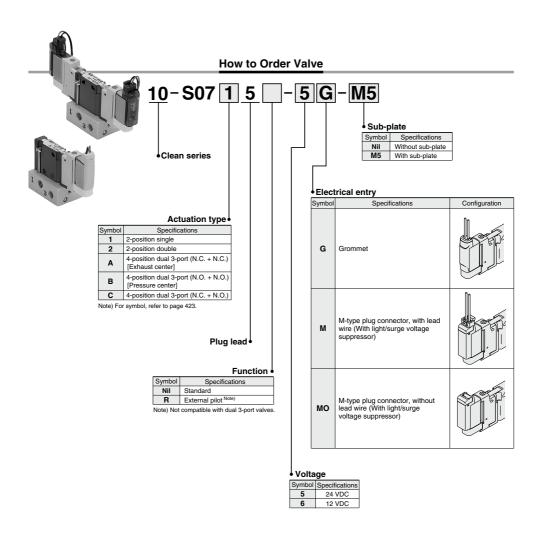


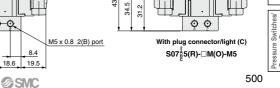


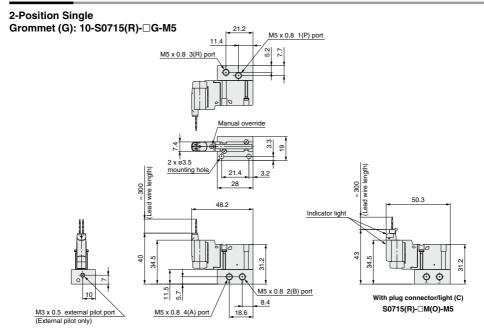
Dimensions (mm)						
Applicable fitting size ø d	Model	Α	L	D	Weight (g)	
2	KJP-02	8.2	17	3	0.1	
3.2	KQ2P-23	16	31.5	3.2	1	
4	KQ2P-04	16	32	6	1	
6	KQ2P-06	18	35	8	1	

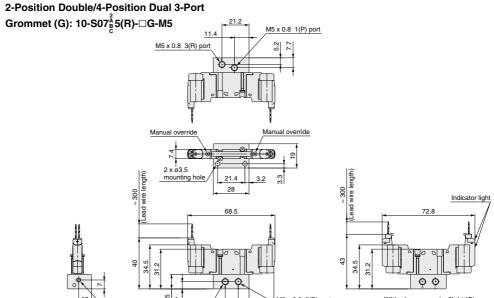
Series 10-S0700 5 Port Solenoid Valve: Base Mounted Plug Lead, Single Unit











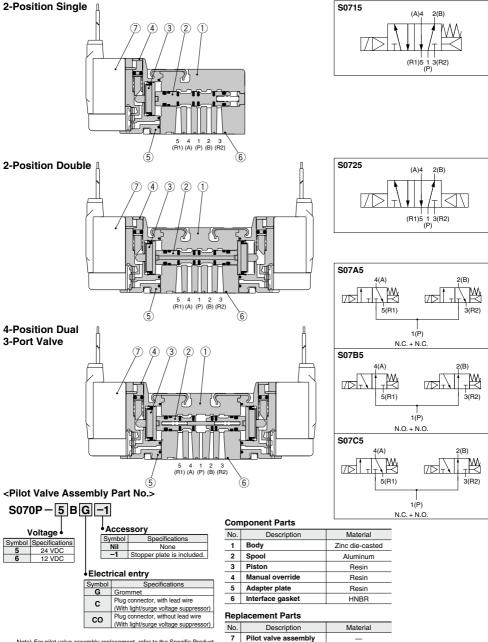
M5 x 0.8 4(A) port

M3 x 0.5 external pilot port

(External pilot only)

Series 10-S0700 Plug Lead Single Unit

Construction: Main Parts/Replacement Parts



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

501

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

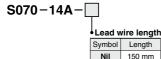


Series 10-S0700 Plug Lead Replacement Parts

<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>

 Symbol
 Length

 Nil
 150 mm

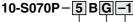
 3
 300 mm

 6
 600 mm

 10
 1000 mm

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

<Pilot Valve Assembly>



	Voltage
Symbol	Specification
5	24 VDC
6	12 VDC

Accessory						
Symbol	Specifications					
Nil	None					
-1	Stopper plate is included					

Electrical entry

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

Note) For pilot valve assembly replacement, refer to 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 – S 0 01

Output specifications

0	NPN output (+COM.	
1	PNP output (-COM.)	





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.

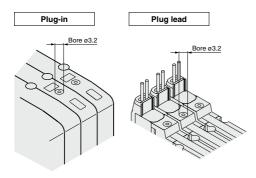
Manual Override

⚠ 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.

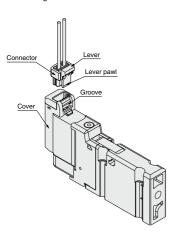


How to Attach/Detach Plug Connector

<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.

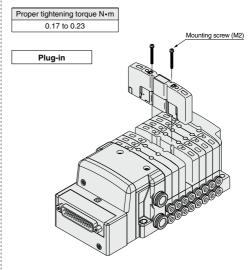


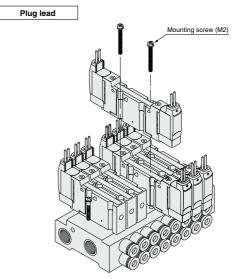
Note) In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 10 N or more).

How to Mount Valve

∕ 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.







Actuators

Air



Series 10-S0700 Specific Product Precautions 2

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.

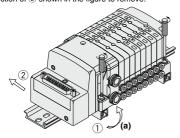
How to Mount/Remove DIN Rail

∧ Caution

Plug-in

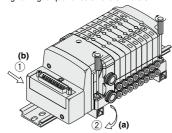
Removal

- 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.



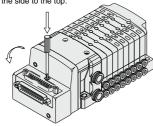
How to Change Connector Entry Direction

⚠ 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 switching from the side to the top.

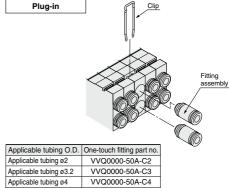


How to Replace Cylinder Port Fittings

⚠ Warning

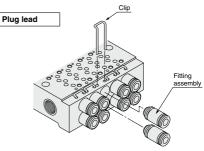
The cylinder port fittings are a cassette for easy replacement. The fittings are blocked by a clip inserted from the top of the valve.

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



Applicable tubing ø3.2	VVQ0000-50A-C3
Applicable tubing ø4	VVQ0000-50A-C4
Applicable tubing ø1/8"	VVQ0000-50A-N1
Applicable tubing ø5/32"	VVQ0000-50A-N3

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



	Applicable tubing O.D.	Fitting part no.
	Applicable tubing ø2	VVQ0000-50A-C2
8.5 mm pitch	Applicable tubing ø3.2	VVQ0000-50A-C3
(One-touch fitting)	Applicable tubing ø4	VVQ0000-50A-C4
(One-touch fitting)	Applicable tubing ø1/8"	VVQ0000-50A-N1
	Applicable tubing ø5/32"	VVQ0000-50A-N3
7.5	Barb fitting ø2	SS070-50A-20
7.5 mm pitch (Barb fitting)	Barb fitting ø3.2	SS070-50A-32
(barb litting)	Barb fitting ø4	SS070-50A-40

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





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.

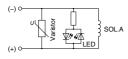
Internal Wiring Specifications

⚠ Caution

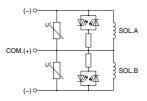
Light/surge voltage suppressor

No polarity by adopting non-polar light.

Plug-in Single/All plug lead types

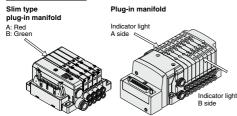


Plug-in Double, Dual 3-port

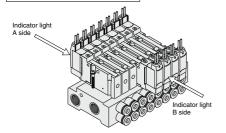


Note) Coil surge voltage generated when OFF is about –60 V. Please contact SMC separately for further suppression of the coil surge voltage.

Plug-in



Plug lead manifold



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

⚠ Caution

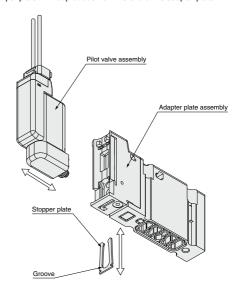
<Plug lead>

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.





Cylinders



Series 10-S0700 **Specific Product Precautions 4**

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

∕ 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 sup-
- 5. Do not remodel these products, as there is a danger of injury and damage.

- 1. Read the operation manual carefully, strictly observe the precautions and operate within the range of the
- 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,
- 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.

∕**∴** 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

- 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

٠.	,,	3 3
	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

Flow Control Equipment

Pressure Switches/ Pressure Sensors





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

- 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.
- 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.
- 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

1. Use within the allowable voltage range.

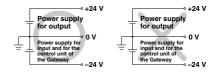
Using beyond the allowable voltage range is likely to cause the units and connecting devices to be damaged or to malfunction.

- 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.

- 1. 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.
- 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

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

Marning

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 cur-

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

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

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

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

Operating Environment

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

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

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

or corrosion. This wire-reduced system is not explosion-proof.

clic temperature changes.

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

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

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

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

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

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

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

breakage.

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

Use in such an atmosphere is likely to cause a fire, explosion.

4. Do not use this product in places where there are cy-

SMC



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

⚠ Warning

1. Do not short-circuit a load.

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

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

⚠ Caution

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

Maintenance

\land Warning

 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.

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

Design/Selection

∕ Warning

1. Use this product within the specification range.

Using beyond the specified specifications range can cause fire, malfunction, or damage to the system. Check the specifications when operating.

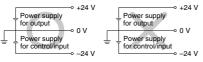
- 2. When using for an interlock circuit:
 - . Provide a multiple interlock system which is operated by another system (such as mechanical protection function).
 - Perform an inspection to confirm that it is working properly. This may cause possible injury due to malfunction.

∕ Caution

- 1. Use the following UL approved products for DC power supply combinations.
 - 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

	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
- 2. Use this product within the specified voltage range. Using beyond the specified voltage range is likely to cause the units and connecting devices to be damaged or to malfunction.
- 3. 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.

- 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

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

Mounting

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

2. Do not drop, bump, or apply excessive impact. Otherwise, the unit can become damaged, malfunction, or fail

to function.

3. Observe the tightening torque range.

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

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

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

The connection parts of the unit may be damaged.

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

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

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

Wiring

∕ Caution

1. Check the grounding to maintain the safety of the reduced wiring system and for anti-noise performance. Provide a specific grounding as close to the unit as possible to

minimize the distance to grounding

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

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

3. Avoid miswiring.

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

4. Do not wire while energizing the product.

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

Flow Control Equipment Pressure Pressure

Control





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

⚠ Caution

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.

 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.

 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.

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

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

Operating Environment

⚠ Warning

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.

 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

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
- 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.

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.

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.

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

This may cause a malfunction or damage.

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.



Rotary



Series 10-S0700 Specific Product Precautions 10

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

⚠ Warning

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

<Handheld Terminal>

2. Do not apply pressure to the LCD.

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

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

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

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

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

Refer to the operation manual for setting of the switches.

3. For details on programming and address setting, refer to the manual from the PLC manufacturer.

The content of programming related to protocol is designed by the manufacturer of the PLC used.

<Handheld Terminal>

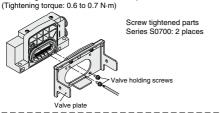
Do not press the setting buttons with a sharp pointed object.

This may cause damage or malfunction.

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

This may cause damage, equipment failure or malfunction.

When the order does not include the SI unit, the valve plate to connect the manifold and SI unit is not mounted. Use attached valve fixing screws and mount the valve plate.



Maintenance

⚠ Warning

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.

vices is likely to occur.

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

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 de-

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

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

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

Flow Contr Equipmen

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