Variations

Variations							
			Serial Tra	Kit nsmission s System)			
	EX 180 For Output Serial Transmission System	EX260 For Output	EX500 Gateway-type	EX510 Gateway-type	EX250 For Input/Output	EX600 For Input/Output	
	Applicable Protocol DeviceNet™ CC-Link	Setal Transmission System Applicable Protocol DeviceNet™ PROFIBUS DP CC-Link EtherNet/IP™ EtherCAT PROFINET Ethemet POWERLINK	Applicable Protocol DeviceNet TM PROFIBUS DP CC-Link EtherNet/IP TM	Sal Iransisson System Applicable Protocol DeviceNet TM PROFIBUS DP CC-Link	Setal Transmission System Applicable Protocol DeviceNet™ PROFIBUS DP CANopen AS-Interface ControlNet™ EtherNet/IP™	Serial Transmission System Applicable Protocol DeviceNet TM PROFIBUS DP CC-Link EtherNet/IP ^{TM*} EtherCAT PROFINET * Compatible with wireless systems	
Slim Compact Plug-in Manifold Bar Base							
	Page 423-2			Page 425			
Plug-in Manifold Stacking Base		 	 	 			
	_			_			
		Page 423-6	Page 447	1 1 1	Page 449	Page 451	
Plug Lead Manifold Bar Base	_	_	_		_	_	
The state of the s				Page 495			

F kit D-sub Connector	P kit Flat Ribbon Cable	T kit Terminal Block Box	L kit Lead Wire	M kit Circular Connector	C kit	Directional Control Valves
MIL Standard	MIL Standard · 26 pins, 20 pins					Air Cylinders
						Rotary Actuators
						Air Grippers
Page 429	Page 423		_	_	_	Air Preparation Equipment
rage 429	Page 433					Modular F. R.
					_	Pressure Control Equipment
Page 457	Page 461	Page 469	Page 473	Page 477		Lubing
					with	Fittings & Tubing
_	_	_	_	_		Flow Control Equipment
					Page 491	Pressure Switches/ Pressure Sensors
		6 8	SIMC		418	

Options

Slim Compact Plug-in Manifold Bar Base / Options





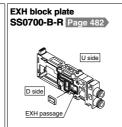




Plug-in Manifold Stacking Base / Options

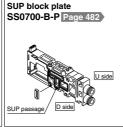












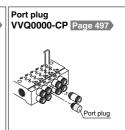


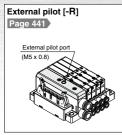
Plug Lead Manifold Bar Base / Options



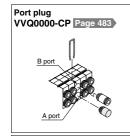








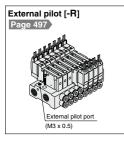














Series 10-S0700 Valve Specifications

Valve Specifications

Model

					Flow rate characteristics						
Series		Actuation type	Model	1→4/	/2 (P→A/B)		4/2→5/3 (A/B→R1/R2)			Note 2) 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-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	اا	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
lical	Ambient and fluid tem	perature	-10 to 50°C Note 1)
Valve specifications	Max. operating cycle		5 Hz
ds e	Pilot valve exhaust method		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



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 iifold e		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
SII Blug		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
	Discovering to the policy of		S kit: Serial transmission (EX250)	Max. 24 stations Note 2)	560 Note 4)	20	
ifold		C8 (ø8) N7 (ø1/4") N9 (ø5/16")	C2 (ø2) C3 (ø3.2) C4 (ø4) N1 (ø1/8") N3 (ø5/32")	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	Bc1/8	M5 thread C2 (ø2) C3 (ø3.2)	C kit: Connector	Max. 20 stations	115	20
Plug man Bar	(Manifold pitch: 8.5 mm*)	nc i/o	C4 (ø4) N1 (ø1/8") N3 (ø5/32")	S kit: Serial transmission (EX510)	Max. 16 stations	115	20
Single	10-S07□5-5□-M5	M5 thread	M5 thread	Connector kit	— 14 Note 6)		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						
		ø6	ø10	ø16	ø20	ø25	ø32	ø40
10-S0715-5G-M5	800 700 600 500 400 300 200 100						Vertical, upward Horizont actuation	

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

Conditions

Bas	e mounted	Series CJ2	Series CM2
10-S0715-5G-M5	Tubing diameter x Length	ø6 x 1 m	
	Speed controller	AS2001F-06	AS2301F-06
	Silencer	AN120-M5	

Symbol

Model	Actuation type	Symbol
10-S0710 10-S0711 10-S0715	2-position single	(A)(B) 4 2 (R1)513(R2) (P)
10-S0720 10-S0721 10-S0725	2-position double	(A)(B) 4 2 (R1)513(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) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
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

Modular F. R. Pressure Control Equipment

Fittings & Tubing

Flow Control Equipment

Pressure Switches/ Pressure Sensors

Air Grippers

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

Port size		
With ø2 One-touch fitting		
With ø3.2 One-touch fitting	Metric	
With ø4 One-touch fitting	1	
With ø1/8" One-touch fitting	Inch	
With ø5/32" One-touch fitting	inch	
	With ø2 One-touch fitting With ø3.2 One-touch fitting With ø4 One-touch fitting With ø1/8" One-touch fitting	

P. R port size

	1 , 11 po	t OILC	
Symbol	Port size		
C6	With ø6 One-touch fitting	Metric	
C8	With ø8 One-touch fitting	Metric	
N7	With ø1/4" One-touch fitting	To als	
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 solenoid 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		
Q2N	T-branch type	PNP output (Negative common)	EX180-SDN5	Max. 32*1	
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)	NPN output (Positive common)	EX180-SDN4A	16*1	
Q3AN	Straight type	PNP output (Negative common)	EX180-SDN6A		
*1: Single	wiring		•		

Kit type

l		Without SI unit
l		CC-Link (32 points)
		DeviceNet (32 points)
l	SDQ3	DeviceNet (16 points)

*: Please contact SMC for SI unit specifications.

How to Order Manifold Assembly

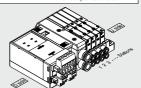
Example Serial transmission kit

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)

Prefix the asterisk Write sequentially from the 1st to the part numbers of the solenoid valve etc.

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 2-position single 2 2-position double 4-position dual 3-port (N.C. + N.C.) Α [Exhaust center] 4-position dual 3-port (N.O. + N.O.) R [Pressure center] 4-position dual 3-port (N.C. + N.O.)

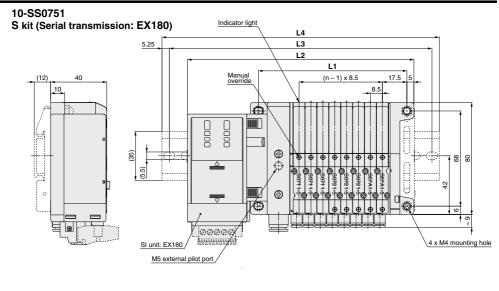
*: For symbol, refer to page 652

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



D side Stations	123456781 U side
(12) 23.5 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	DIN rail clamping screw
(5.7)	(n – 1) x 8.5 7.3
2 x C8, C6, N7, (1(P), 3(R) port) C8: ø8 One-touch fitting C6: ø6 One-touch fitting N7: ø1/4" One-touch fitting	2n x C2, C3, C4, N1, N3 (4(A), 2(B) port) C2: ø2 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

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

Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 93.7 n: Sta								n: Stati	ation (Maximum 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

Plug-in Type Stacking Base

Serial Transmission

S kit



Plug-in Type Stacking Base



For Output Serial Transmission System

EX260

Page 423-6

How to Order Manifold

10-SS0750-08 C4 C8 SNAN-B



1 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									
-	-:-	(Available up to 32 solenoids)									
24	24 stations	(Available up to 32 soleriolds)									

In the case of the 16-output SI unit

Symbol	Stations	Note
01	1 station	
1	- :	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	C3 With ø3.2 One-touch fitting				
C4	Metric				
CM	Mixed sizes and with port plug*1	1			
N1	With ø1/8" One-touch fitting				
N3	N3 With ø5/32" One-touch fitting				
NM	Mixed sizes and with port plug*1	1			

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

3 P, R port size

Symbol Port size						
C6	With ø6 One-touch fitting	Metric				
C8	With ø8 One-touch fitting					
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 specifications

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

SND SNDN 16 D-sut SVA SVAN 32 16 M12 SVB SVBN CC-Link 32 16 M12						
Profice Common Pro					Communication	
NPN NPN Output			Protocol			
SQA SQAN DeviceNet™ 32 16 16 16 16 16 16 16 1	(NPN)	(NPN)		outputs	UIIIDZUI	
SQB SQAN DeviceNet 16 M12	SD	O*1	Without	SI unit	t	
SQB SQAN 16 16 16 16 16 16 16 1	SQA	SQAN	DoviceNetM	32	MIO	
SNB SNBN PROFIBUS 16 M12 SNC SNC SNC SND 16 D-sut SVA SVB SVB SVB SVB SVB SVB SVB SDA SDA SDA SDA SDA SDB SDB SFA SFA SFA SFB SFBN SFB SFBN SEA SEA SEB SEBN EtherNet/IPTM 32 M12 SEB SEBN SEBN Ethernet 32 M12 M12	SQB	SQAN	Devicemet	16	IVITZ	
SNB SNBN PROFIBED 16 SNC SNC SND SNDN SVA SVA SVB CC-Link 16 SDA SDA Ether(AT 32 M12 SFB SFBN SFA SFA SFA SFA SFA SEBN Ether(Net/IP™ 32 M12 SEB SEBN Ether(MET 32 M12 M12	SNA	SNAN		32	M10	
SND SNDN 16 D-sut	SNB	SNBN	PROFIBUS	16	IVI I Z	
SVA SVAN CC-Link 32 16 N12	SNC	SNCN	DP	32	*4	
SVB SVBN CC-Link 16 M12	SND	SNDN		16	D-sub	
SVB SVBN 16 16 16 16 16 16 16 1	SVA	SVAN	CC Link	32	1410	
SDB SDBN EtherCAI 16 M12	SVB	SVBN	CC-LINK	16	IVITZ	
SDB SDBN 16	SDA	SDAN	EthorC AT	32	M12	
SFB SFBN PROFINE 16 M12	SDB	SDBN	Ellieloai	16		
SFB SFBN SFBN 16 SEA SEAN EtherNet/IPTM 32 M12 SEB SEBN Ethernet 32 M12	SFA	SFAN	DDOEINET	32	MIO	
SEB SEBN EtherNet/IPIM 16 M12 —*3 SGAN Ethernet 32 M12	SFB	SFBN	FROFINEI	16	IVITZ	
_*3 SGAN Ethernet 32 M12		SEAN	EthorNot/IDIM	32	MIO	
Linomot GE M12		SEBN	Emenvelle	16	IVI I Z	
—*3 SGBN POWERLINK 16 WITZ		SGAN	Ethernet	32	MIO	
	*3	SGBN	POWERLINK	16	IVI I Z	

- *1: Without SI Unit, the output polarity is decied by the SI unit used.
- *2: DIN rail cannot be mounted without SI unit. *3: Positive common (NPN) type is not applicble.
- *4: IP40 for the D-sub applicable communication connector specification.
- *5: The maximum number of stations is determined by the total number of solenoids. For mixed single and double wirings, enter -K to the order code options.
- *6: For SI unit part number, refer to page 444.

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

6 Option

⊕ ∪p	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)
	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

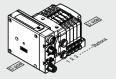
Example Serial transmission kit

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

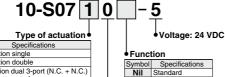
10-SS0750-04C4C8SNAN --- 1 set - Manifold base part no. * 10-S0720-5 ----- 4 sets - Valve part no. (Stations 1 to 4)

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 a complicated, specify on the manifold specification sheet.



How to Order Valves



Symbol	Specifications
1	2-position single
2	2-position double
A	4-position dual 3-port (N.C. + N.C.)
Exhaust center	
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.

Nil Standard

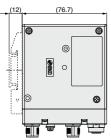
R External pilot*1

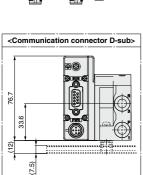
*1: Not compatible with dual 3-port valves. The 3(R) port is open to the atmosphere. (Cannot be used for applying pressure or vacuum)

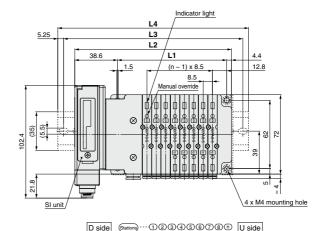
Base mounted plug-in

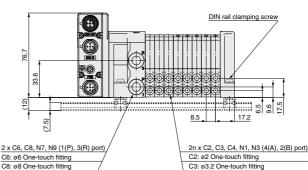
10-SS0750

S kit (Serial transmission: EX260)









C4: ø4 One-touch fitting N1: ø1/8" One-touch fitting

N3: ø5/32" One-touch fitting

N7: ø1/4" One-touch fitting
N9: ø5/16" One-touch fitting
·

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

	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



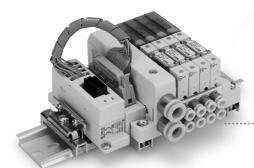
Slim Compact Plug-in Manifold Bar Base

Serial Transmission

S kit



Slim Compact Plug-in Manifold Bar Base

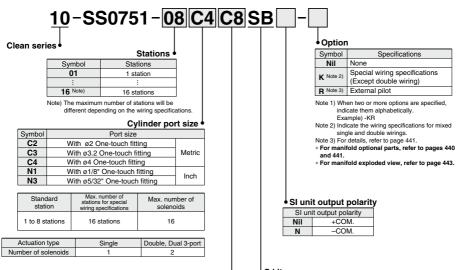


Gateway-type Serial Transmission System

EX510

Page 425

How to Order Manifold



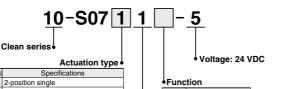
P, R port size

Symbol	Port size				
C6	C6 With ø6 One-touch fitting C8 With ø8 One-touch fitting				
C8					
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

How to Order Valve

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



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.)

Note) For symbol, refer to page 423.

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. (Pressurization and vacuum are not allowed.)

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>

EX510 serial wiring

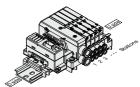
Serial transmission kit

10-SS0751-08C4C8SB...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) * 10-S07A1-52 sets - Valve part no. (Stations 6 to 7)

Prefix the asterisk to the part no. of the

Write sequentially from the 1st station on the D side.
When part no. written collectively solenoid valve, etc. are complicated, specify on the

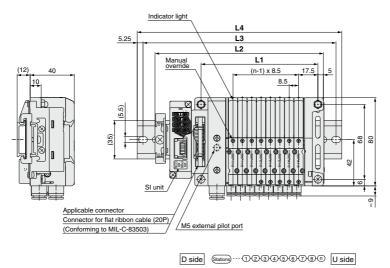
manifold specification sheet.

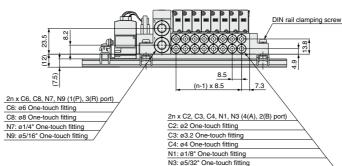




10-SS0751

S kit (Serial transmission: EX510)





D	
Dimen	ISIONS

Difficusions							1 0111dia E1 = 0.511 + 30, E2 = 0.511 + 04.7 11. Station (Maximum 10 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

Modular F. R.

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

Pressure Control Equipment

Flow Control Equipment

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.

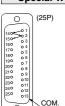
Electrical Wiring Specifications

D-sub connector 0 As the standard electrical wiring specifications, double wiring (connected to SOL.A 140 01 150 03 160 04 170 05 180 06 190 07 200 08 220 010 230 011 240 012 250 012 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. 010 011 012 013 D-sub connector assembly Connector wire color AXT100-DS25-030 terminal no.

	Terminal no.	Pola	rity	Lead wire color	Dot marking
Station 1		(–)	(+)	Black	None
Station 1	SOL.B o 14	(–)	(+)	Yellow	Black
a a r		(–)	(+)	Brown	None
Station 2		(–)	(+)	Pink	Black
01-11 05	SOL.A o 3	(–)	(+)	Red	None
Station 3		(–)	(+)	Blue	White
Station 4	SOL.A 0 4	(–)	(+)	Orange	None
Station 4		(–)	(+)	Purple	None
Station 5	SOL.A o 5	(–)	(+)	Yellow	None
Station 3		(–)	(+)	Gray	None
Station 6	SOL.A 0 6	(–)	(+)	Pink	None
Station 0	SOL.B o 19	(–)	(+)	Orange	Black
Station 7	SOL.A 7	(–)	(+)	Blue	None
Station / 1		(–)	(+)	Red	White
Station 8	SOL.A 0 8	(–)	(+)	Purple	White
Station of		(–)	(+)	Brown	White
Station 9	SOL.A 0 9	(–)	(+)	Gray	Black
Station 91		(–)	(+)	Pink	Red
Station 10	SOLA 0 10	(–)	(+)	White	Black
Station 101		(–)	(+)	Gray	Red
Station 11		(–)	(+)	White	Red
Station 113	SOL.B O 24	(–)	(+)	Black	White
Station 12		(–)	(+)	Yellow	Red
5	SOL.B O 25	(–)	(+)	White	None
L	COM. O 13	(+)	(-)	Orange	Red
	P	ositive	Negative	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

color Black None

Brown None

3 Red None

4 Orange None

5 Yellow None

6 Pink None

7 Blue None

8 Purple White

9 Gray Black

10 White Black

11 White Red Yellow Red

12 13 Orange Red Yellow 14

16

17 Purple Gray None

18 Orange Black Red White

20

21 Brown

24

Pink 22

marking

Black Pink Black Blue White

None

White

Red Gray Red Black White

White None

	Cable
	√ 0.3 mm² x 25 cores
	0.D. ø1.4
1	= ø10
	-[1])-
	74
	∴ Seal (Length)
	363
	P P P P P P P P P P P P P P P P P P P
_	
	► Molded cover
	.2 x M2.6 x 0.45
	1 / 1
	' swic \ /
	Connector
	DB-25SF-N
-	Japan Aviation
	Electronics Industry, Limited
	Sign = Limited
	Socket side
	1425
	Terminal no.
	e lerminai no.
	113 *
	47.04
	₹7.04

D-sub Connector Cable Assembly (Option)

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

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

Flectrical Characteristics

Liectifical Char	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

nector manufacturers	Exa	mple	e of	
	nector	man	ufac	turers

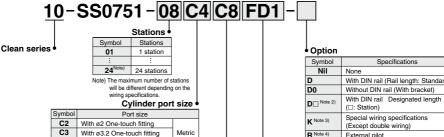
- conr Fuiitsu Limited
- Japan Aviation Electronics
- Industry, Limited . J.S.T. Mfg. Co., Ltd.
- · HIROSE ELECTRIC CO., LTD.

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



Switches/ e Sensors Pressure Pressure

How to Order Manifold



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	IIICII

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

N
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 •										
	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	4 1 40 1 1		24					
	FKIL	FD2	D-sub connector (25P), with 3.0 m cable	1 to 12 stations	24 stations						
L		FD3	D-sub connector (25P), with 5.0 m cable								

With ø4 One-touch fitting

With ø1/8" One-touch fitting

With ø5/32" One-touch fitting

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.

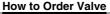
C4

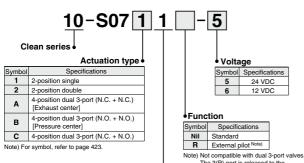
N1

N3

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

Base mounted plug-in





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.

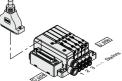
<Example>

D-sub connector kit

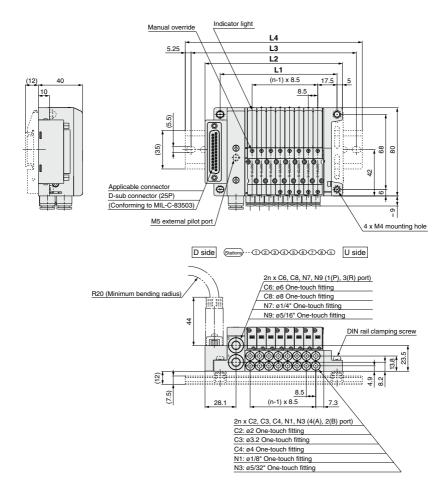
* 10-S0721-5 2 set * 10-S07A1-5 2 set	t – Manifold base part no. is – Valve part no. (Stations 1 to 3) is – Valve part no. (Stations 4 to 5) is – Valve part no. (Stations 6 to 7) – Blanking plate part no. (Station 8)
Prefix the asterisk to	Write sequentially from the 1st station on the D side. When part no, written

the part no, of the solenoid valve, etc

collectively are complicated, specify on the manifold specification sheet.



Series 10-S0700 kit (D-sub Connector)



Dimen:	Dimensions Formula L1 = 8.5n + 38, L2 = 8.5n + 56.7 n: Station (Maximum 24 station:										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

ol Modular F. R.

Pressure Switches/ Pressure Sensors

432

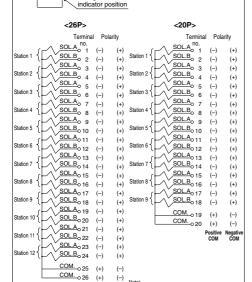
trical connection.

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

- Flat ribbon cable connector reduces installation labor for elec-
- 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

Flat ribbon cable connector Double wiring (connected to SOL.A and 26 П П 26 SOL.B) is adopted for the internal 24 0 023 wiring of each station, regardless of 22 0 021 valve and option types. 20 0 0 19 Mixed single and double wiring is 18 0 0 17 available as an option. For details, refer 160 015 to "Special Wiring Specifications" 14 D D 13 120 011 (Option) below. 10009 8 0 0 7 6005 Connector terminal no. 4003 2001 Triangle mark

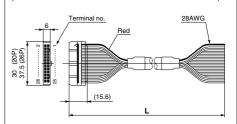


Note) Mounting valve has no polarity. It can also be used as a negative common.

Cable Assembly

AXT100-FC20

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

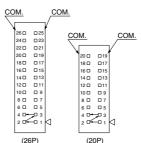
* For other commercial connectors, use a 20- or 26-pin type with strain relief conforming to MIL-C-83503.

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. 3M Japan Limited
- Fuiitsu Limited Oki Electric Cable Co., Ltd.

Special Wiring Specifications (Option) [-K]



Mixed single and double wiring are available as an ontion. 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-SS0751-08 C4 C8 PD1 Stations 4 Symbol Stations Clean series Option 01 1 station 24 24 stations Note) The maximum number of stations will be different depending on the wiring specifications.

	Cylinder por	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	IIICII

Culindon

P. R port size

Standard

station

1 to 12

1 to 9 stations

Max. number of

iring specification

24 stations

18 stations

Max. number

of solenoids

24

18

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

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

Symbol	Specifications				
Nil	None				
D	With DIN rail (Rail length: Standard)				
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.

For mixed single and double wirings, enter "-K" to the order code options. Actuation type Single Double, Dual 3-port Number of solenoids

Base mounted plug-in

Specifications

Flat ribbon cable (26P), without cable

Flat ribbon cable (26P), with 1.5 m cable

Flat ribbon cable (26P), with 3.0 m cable

Flat ribbon cable (26P), with 5.0 m cable

Flat ribbon cable (20P), without cable

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

Kit type/Cable length •

Symbo

PD0

PD1

PD2

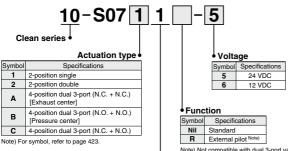
PD3

PDC

type

P kit

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>

Flat ribbon cable kit

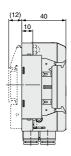
10-SS0751-08C4C8PD1---1 set - Manifold base part no. * 10-S0711-5 2 sets - Valve part no. (Stations 1 to 3) * 10-S0721-5 ----- 4 sets - Valve part no. (Stations 4 to 5) * 10-S07A1-5 1 set - Valve part no. (Stations 6 to 7) * SS0700-10A-3 ········· 1 set – Blanking plate part no. (Station 8) Write sequentially from the 1st Prefix the asterisk to station on the D side.

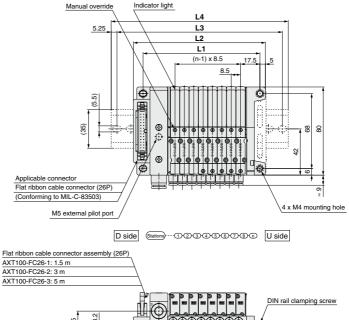
the part no. of the noid valve, etc

When part no. written collectively are complicated. specify on the manifold specification sheet.



Series 10-S0700 kit (Flat Ribbon Cable)





DIN rail clamping screw
(n-1) x 8.5 7.3
2, C3, C4, N1, N3 (4(A), 2(B) port)
2 One-touch fitting
3.2 One-touch fitting
I One-touch fitting
1/8" One-touch fitting
5/32" One-touch fitting

Dimensions

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

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	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

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

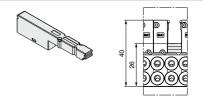
Manifold Optional Parts

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

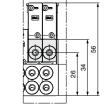
SS0700-P-3-C

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

Weight: 15 g

Port size

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"	



Individual EXH spacer

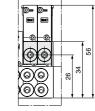
SS0700-R-3-C

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

SS0700-1C3-[

Lead wire length (mm)

Leau	wire ieri	gui (iii
Nil	600	
10	1000	
15	1500	
20	2000	
25	2500	
30	3000	

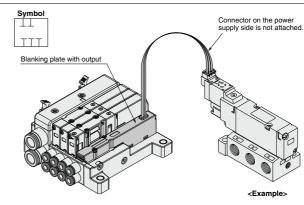
Blanking plate with a connector for individually outputting electricity to drive a single valve or equipment that are not on the manifold base.

Note 1) Electric current should be 0.5 A or less. (Including the mounted valves)

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

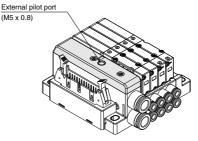
External pilot

How to Order Manifold (Example)

 $* \ \, \text{Indicate R for an option}.$

10-SS0750-08C4FD1-P

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.

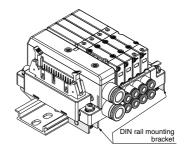
Note 3) Since the pilot EXH of valves with the external pilot specification also has a common exhaust specification, the 3(R) port should be released to the atmosphere.

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.



Sontrol Valves

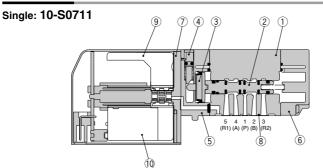
Air Cylinders

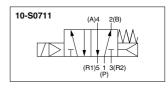
Rotary Actuators

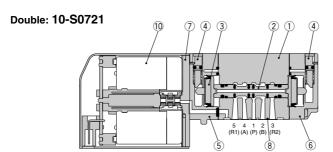
on Air Grippers

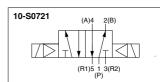
Series 10-S0700 Slim Compact Plug-in Manifold Bar Base

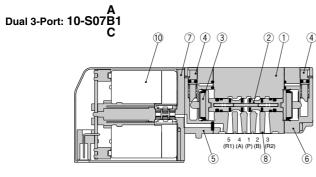
Construction







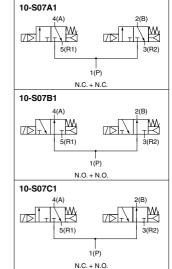




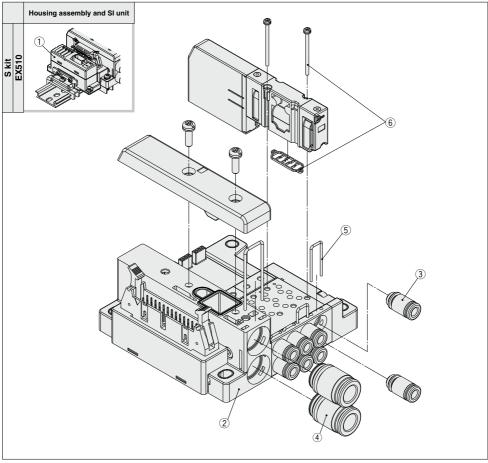
Component Parts

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

Note) Please consult with SMC for pilot valve replacement.



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



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

Manifold Assembly Part No.

No.	Description	Part no.	Note
1	SI unit	EX510-S002A	NPN (Positive common)
	Si unit	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



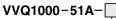
Port size

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



Port size

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

SMC

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



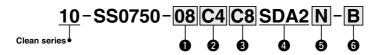
Integrated-type (For I/O) Serial Transmission System (Fieldbus System)

EX600

Page 451

Pressure 9

How to Order Manifold



Valve stations

Stations	Note
1 station	
- :	Double wiring
8 stations	
1 station	Consisted lavoured
1	Specified layout*1 (Available up to 16 solenoids)
16 stations	(Available up to 16 soleriolds)
	1 station : 8 stations 1 station

*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

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

Inch size

IIIOII OILC					
1	۱7	ø1/4" One-touch fitting			
1	19	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)

C or arms (output polarity)					
	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.

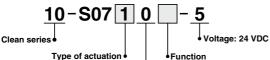
6 Ontion

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

- *1: When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the manifold specification sheet.
- *2:

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

How to Order Valves



	Type of detadtion -			
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 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>

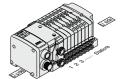
10-SS0750-08C4C8SDA2... 1 set - Manifold base part no. * 10-S0710-5 ···· ······ 3 sets - Valve part no. (Stations 1 to 3) * 10-S0720-5 ·····

······ 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)

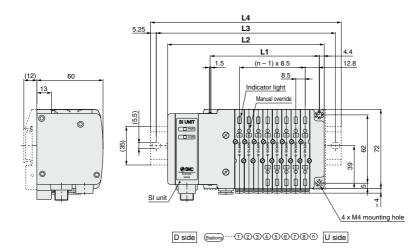
Prefix the asterisk to the part no. of the solenoid valve, etc.

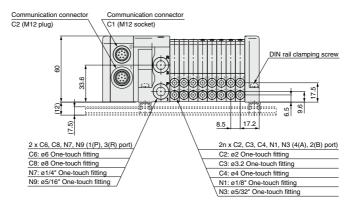
Write sequentially from the 1st station on the D side. When part no. written collectively are complicated, specify on the manifold specification sheet.



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

Valve stations

•	Tuito otationo						
	Stations	Note					
01	1 station						
- I	-	Double wiring					
16	16 stations						
01	1 station	Considered Involved					
- I	-	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.

A, B port size

	Metric size						
	ø2 One-touch fitting						
	ø3.2 One-touch fitting						
	ø4 One-touch fitting						
CM*1 Mixed sizes and port plug							
	Inch si	ze					
N1 ø1/8" One-touch fitting							
N3 ø5/32" One-touch fitting							

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.

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.

G SI unit (Output palarity)

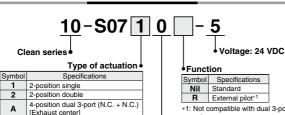
Si unit (Output polarity)				
Nil	(Without SI unit)			
N	Negative common			

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	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



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

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

*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



How to Order Manifold Assembly

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

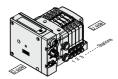
<Example>

Serial transmission kit

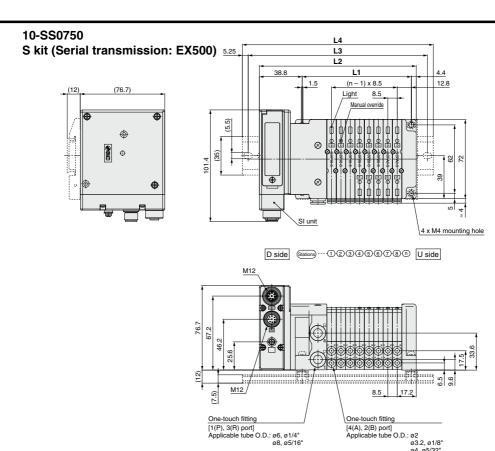
10-SS0750-04C4C8SDA3 ··· 1 set - Manifold base part no. * 10-S0720-5 2 sets - 2-position double part no. * 10-S07A0-5 2 sets - 4-position dual 3-port part no.

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.



ø4, ø5/32"

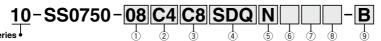


Dimen	sions							F	ormula L1	= 8.5n +	- 31, L2 =	8.5n + 7	4 n: Sta	tion (Max	kimum 24	stations)
L_n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	39.5	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	82.5	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210
L3	112.5	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5
L4	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248
_																

ø8, ø5/16"

	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

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 Oyimaci 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	Menic				
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

S kit

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							
31	uriit GOIVI.	DeviceNet™	PeviceNet™ PROFIBUS DP CC-Link AS-Interface		CANopen EtherNet/II				
Nil	+COM.	_	_	0	_	_	_		
N	-COM.	0	0	_	0	0	0		

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

6 Input block (for I/O unit only)

Symbol	Specifications		
Nil	SI unit/Input block: None (SD0)		
0	Input block: None		
1	Input block: 1 pc.		
:	:		
8	Input block: 8 pcs.		
Note) The cumbel is all for as Clumit (CDO)			

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)

Syn	nbol	Specifications
N	il	PNP sensor input (+COM.) or without input block
1	1	NPN sensor input (-COM.)

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

Kit type	Note 2) Symbol	Specifications	Standard station	stations for special wiring specifications	Max. number of solenoids	
	SD0	Without SI unit		Willing appointment		Refer to the WEB catalog for details on the
	SDQ	DeviceNet™	1 to 12	24		EX250 Integrated-type (For Input/Output
	SDN	PROFIBUS DP	stations	stations	24	Serial Transmission System.
For I/O	SDY	CANonen	Stations	Stations		

Я

8

SDTD AS-Interface 31 slave, 4 in/4 out, 1 common type 1 to 2 stations 4 stations Note 1) The maximum number of stations is determined by the total number of solenoids

SDZEN EtherNet/IP™

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

How to Order Valve

transmission SDTA AS-Interface 31 slave, 8 in/8 out, 2 isolated common type 1 to 4 stations 8 stations

SDTB AS-Interface 31 slave, 4 in/4 out, 2 isolated common type 1 to 2 stations 4 stations

SDTC AS-Interface 31 slave, 8 in/8 out, 1 common type 1 to 4 stations 8 stations

10-S07 Voltage: 24 VDC 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]

External pilot Note) Note) Not compatible with dual 3-port valves The 3(R) port is released to the atmosphere C 4-position dual 3-port (N.C. + N.O.) (Pressurization and vacuum are not allowed.) Note) For symbol, refer to page 423.

Base mounted plug-in

Function Symbol Specifications Standard

9 Optio	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					
MI-A- 43 MAIL-	Ninter d'AMPara tras anno antique anno antique					

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.

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

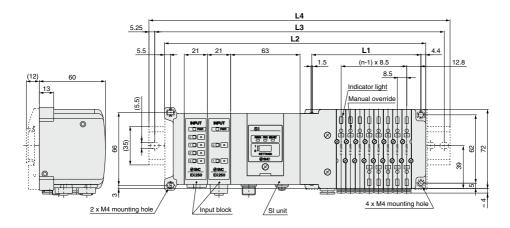
the part no. of the noid valve, etc.

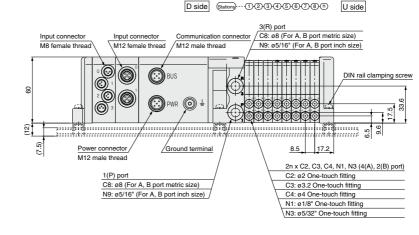
Write sequentially from the 1st station on the D side When part no. written collectively are complicated. specify on the manifold specification sheet.





10-SS0750 S kit (Serial transmission: EX250)





Dimens	sions		Formula	a L1 = 8.5	in + 31, L2	2 = 8.5n +	169 (For	2 input bl	ocks, 21 r	nm is add	ed per 1 p	oc.) n: S	tation (Ma	aximum 24	4 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

How to Order Manifold

10-SS0750-08 C4 SD6Q 2 N 1 - B

Clean series

Stations
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	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) 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		
S kit	SD6EA	EtherNet/IP™ (2 ports)	stations	24 stations Note 3)	32
	SD6D	EtherCAT			
	SD6WE	EtherNet/IP™ compatible wireless master Note 4)			
	SD6WF	PROFINET compatible wireless master Note 4)			
	SD6WS	Wireless slave 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

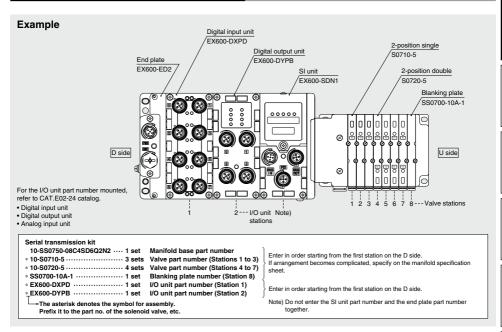
Note) The symbol is nil for no SI unit.

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.

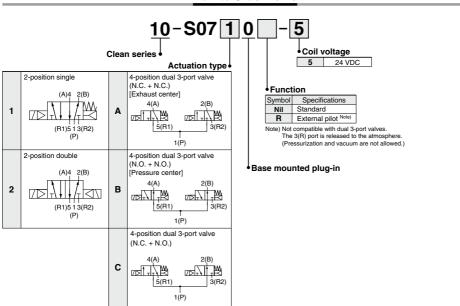
^{*} The pin layout for "4" and "5" pin connector is different.

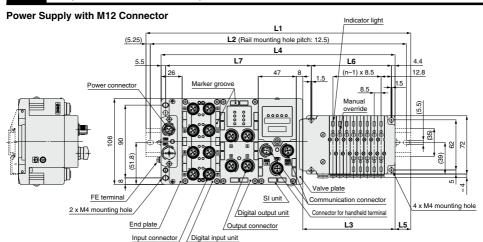
Air

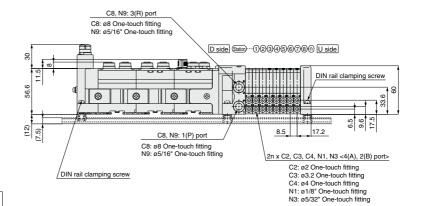
How to Order Manifold Assembly (Example)



How to Order Valve







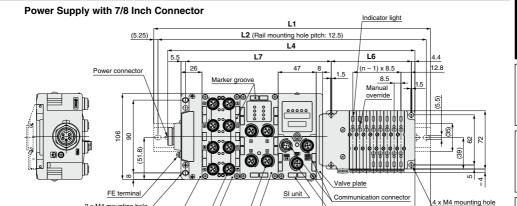
L2 = L1 - 10.5 L3 = 8.5 x n1 + 46 L4 = L3 + 81 + 47 x n2 L5 = (L1 - L4)/2 L6 = 8.5 x n1 + 31 L7 = 47 x n2 + 86.1

L1: DIN Rail Overall Length

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

Connector for handheld terminal

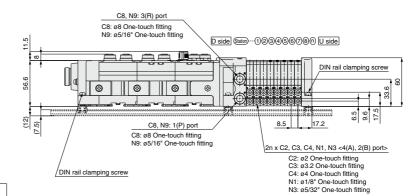
L3



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 Length

2 x M4 mounting hole

End plate

Input connector

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

Plug-in Manifold Stacking Base

D-sub Connector

F kit

((

Plug-in Manifold Stacking Base



MIL Standard

25 pins

SMC

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

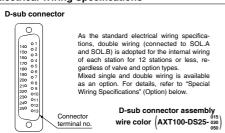
Connector mounting direction: Top or side selectable

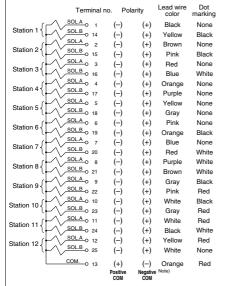
Page 457

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.

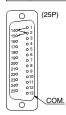
Electrical Wiring Specifications





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 numbe 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."

0.3 mm² x 25 cores

Cable

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

marking

None

None

None

None

None

None

None

White

Black

Black

Red

Red

Red

Black

Black

White

None

None

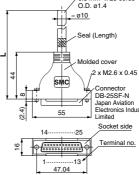
Black

White

Red

None White

Terminal Lead wire



1 = Ø10	no.	color
- 111	1	Black
Seal (Length)	2	Brown
Octal (Length)	3	Red
	4	Orange
Molded cover	5	Yellow
2 x M2.6 x 0.45	6	Pink
5 x M2.6 x 0.45	7	Blue
Connector	8	Purple
DB-25SF-N	9	Gray
	10	White
Electronics Industry, Limited	11	White
Socket side	12	Yellow
1425	13	Orange
Ψ Terminal no.	14	Yellow
-	15	Pink
113 💆	16	Blue
47.04	17	Purple
	18	Gray
	19	Orange

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.

Electrical Ch	aracteristics
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

20 Red White

21

22

23 Grav

24

Pink Red

Black White

- 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-SS0750-08 C4 C8 FD1

Clean series

Stations Symbol Stations 02 2 stations 24 Note) 24 stations

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

Cylinder port size

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

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	Wellic	
N7	With ø1/4" One-touch fitting	Inch	
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

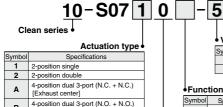
Kit type/Cable length

IXIL LYP	C/ Cabi	c icligal -				
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	24 stations		
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

How to Order Valve



[Pressure center] Note) For symbol, refer to page 423

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

Base mounted plug-in

Voltage Symbol Specifications

24 VDC 6 12 VDC

Specifications

Nii 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.)

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

* 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.

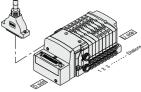
<Example>

D-sub connector kit

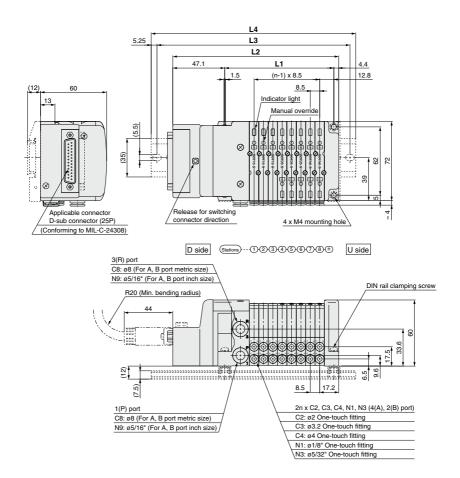
10-SS0750-08C4C8FD1...1 set - Manifold base part no. * 10-S0710-5 ·· .. 3 sets - Valve part no. (Stations 1 to 3) 2 sets - Valve part no. (Stations 4 to 5) * 10-50720-5 ... * 10-S07A0-52 sets - Valve part no. (Stations 6 to 7) * SS0700-10A-1-----1 set – Blanking plate part no. (Station 8) Write sequentially from the

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

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



Series 10-S0700 kit (D-sub Connector)



Dimen:	sions											F	ormula	L1 = 8	.5n + 3	1, L2 =	8.5n -	82.5	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	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

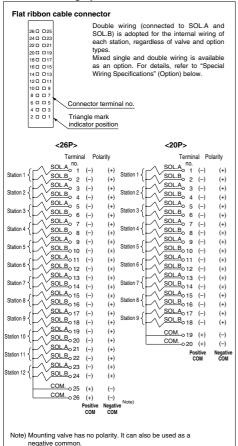
SMC

460

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.

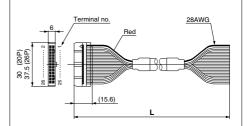
Electrical Wiring Specifications



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)

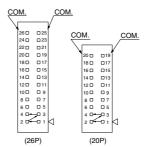
Cable	Assembly part no.									
length (L)	26P	20P								
1.5 m	AXT100-FC26-1	AXT100-FC20-1								
3 m	AXT100-FC26-2	AXT100-FC20-2								
5 m	AXT100-FC26-3	AXT100-FC20-3								

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

 * Cannot be used for movable wiring

Example of connector manufacturers

- HIROSE ELECTRIC CO., LTD. Japan Aviation Electronics Industry, Limited
- 3M Japan Limited
 Fujitsu Limited
 J.S.T. Mfg. Co., Ltd.
 Oki Electric Cable Co., Ltd.
- Special Wiring Specifications (Option) [-K]



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

1. How to Order 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.



Modular F.

How to Order Manifold

10-SS0750-08 C4 C8 PD1 Stations •

Clean series

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

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

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.

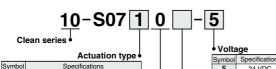
Kit type/Cable length •

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



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.

Base mounted plug-in

Symbol Specifications 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. (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.

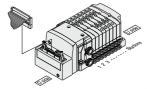
<Example>

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)
 - * 10-S07A0-5 1 set Valve part no. (Stations 6 to 7) * SS0700-10A-1------ 1 set – Blanking plate part no. (Station 8)

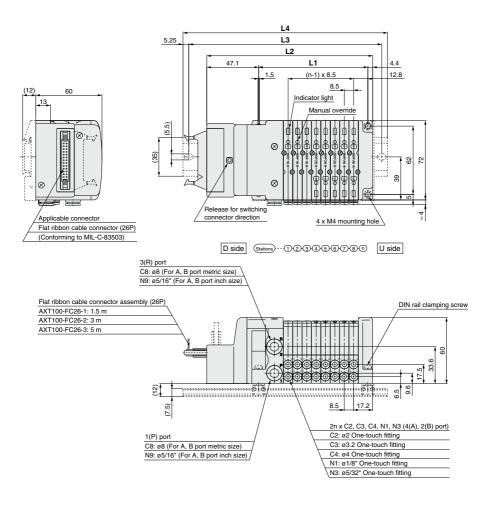
the part no. of the

station on the D side. When part no. written collectively are complicated. specify on the manifold specification sheet



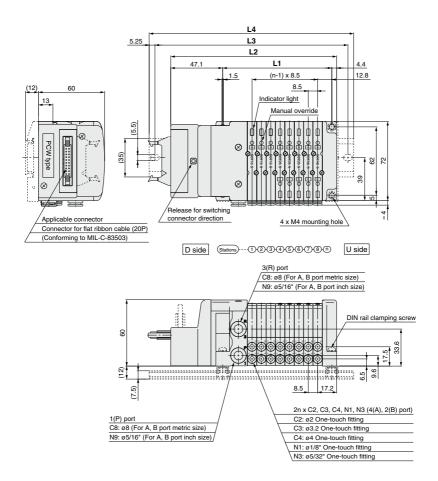


Series 10-S0700 kit (Flat Ribbon Cable)



Dimens																Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5							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	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)



Dimens	sions						Formula L1 = 8.5n + 31, L2 = 8.5n + 82.5 n: Station (Maximum 16 stations									
_ 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

Terminal Block Box

T kit



Plug-in Manifold Stacking Base



With Terminal Block Box

Page 469

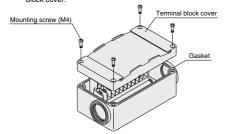
Series 10-S0700 Plug-in Manifold Stacking Base kit (Terminal Block Box)

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

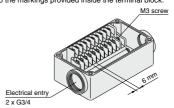
Step 1. How to remove terminal block cover

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



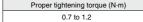
Step 2. The diagram below shows the terminal block wiring schematic. All stations are provided with double solenoid wiring.

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



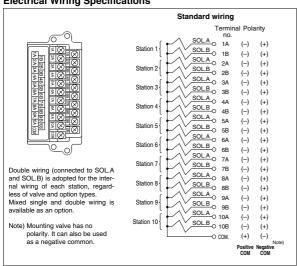
Step 3. How to replace terminal block cover

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

Electrical Wiring Specifications



Special Wiring Specifications (Option) [-K]

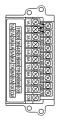
Mixed single and double wiring are available as an option. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 20.

1. How to Order valve

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

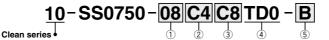
2. Wiring specifications

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



Air

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			
СМ	M Mixed sizes and with port plug Note)			
N1	With ø1/8" One-touch fitting			
N3	With ø5/32" One-touch fitting Incl			
NM	NM Mixed sizes and with port plug Note)			

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

(3) P. R port size

Symbol	Port size	
C6	With ø6 One-touch fitting	Metric
C8	With ø8 One-touch fitting	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

(5) Ontion

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.

well

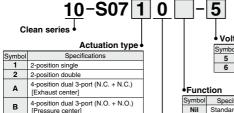
(4) Kit type

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



Note) For symbol, refer to page 423

С

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

Base mounted plug-in

Voltage Symbol Specifications 24 VDC

12 VDC

Specifications Standard External pilot

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

R

ØSMC

How to Order Manifold Assembly

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

<Example>

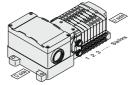
Terminal block box kit

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

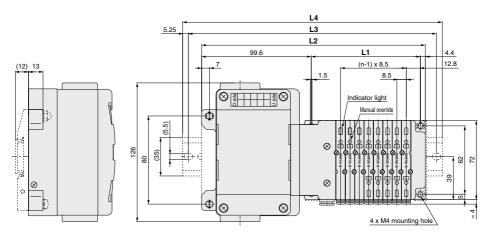
Prefix the asterisk to

the part no. of the solenoid valve, etc.

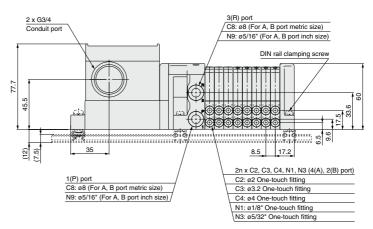
Write sequentially from the 1st station on the D side. When part no, written collectively are complicated, specify on the manifold specification sheet.



Series 10-S0700 kit (Terminal Block Box)







Dimensions Formula L1 = 8.5n + 31, L2 = 8.5n + 135 n: Station (Maximum 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

Plug-in Manifold Stacking Base

Lead Wire

L kit



Plug-in Manifold Stacking Base



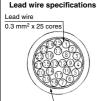
Lead Wire Direct Entry Type

Page 473

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

Direct electrical entry type

Electrical Wiring Specifications



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

	'n	ninal o.	Pola	rity	Lead wire color	Dot marking
~ (L^	SOL.A	ĺ	(-)	(+)	Black	None
Station 1	SOL.B 14	1	(-)	(+)	Yellow	Black
Station 2	SOL.A 2	2	(-)	(+)	Brown	None
Station 2	SOL.B 15	5	(-)	(+)	Pink	Black
Station 3	SOL.A 3	3	(-)	(+)	Red	None
Station's	SOL.B 0 16	3	(-)	(+)	Blue	White
Station 4	SOL.A	1	(-)	(+)	Orange	None
Station 4	SOL.B 17	7	(-)	(+)	Purple	None
Station 5	SOL.A .	5	(-)	(+)	Yellow	None
Ollahori S	SOL.B _O 18		(-)	(+)	Gray	None
Station 6	SOL.A	3	(-)	(+)	Pink	None
	SOL.B o 19	9	(-)	(+)	Orange	Black
Station 7	SOL.A	7	(-)	(+)	Blue	None
- C.L.	SOL.B 20)	(-)	(+)	Red	White
Station 8	SOL.A 8	3	(-)	(+)	Purple	White
	SOL.B 2	I	(-)	(+)	Brown	White
Station 9	SOL.A	9	(-)	(+)	Gray	Black
	SOL.B o 22	2	(-)	(+)	Pink	Red
Station 10	SOL.A 0 10)	(-)	(+)	White	Black
(L)	SOL.B o 20	3	(-)	(+)	Gray	Red
Station 11	SOL.A 0 11	ı	(-)	(+)	White	Red
4	SOL.B 2	1	(-)	(+)	Black	White
Station 12	SOL P 12	2	(-)	(+)	Yellow	Red
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SOL.B _{O 25}		(-)	(+)	White	None
	COM. 0 10	3	(+)	(-)	Orange	Red
			ositive COM	Negative COM	lote)	

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.



Modular F.

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	Metric				
C4 With ø4 One-touch fitting		ivietric			
CM	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.

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

uch fitting	Inch

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

* For manifold exploded view, refer to page 487.

Kit type/Cable length •

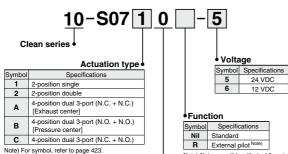
Kit type	Symbol	Specifications	Standard station	Max. number of stations for special wiring specifications	Max. number of solenoids
	LD0	Lead wire, with 0.6 m cable			
L kit	LD1	Lead wire, with 1.5 m cable	1 to 12 stations	24 stations	24
	LD2	Lead wire, with 3.0 m cable			

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

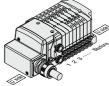
10-SS0750-08C4C8LD0...1 set - Manifold base part no.

* 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)

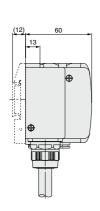
SS0700-10A-11 set - Blanking plate part no. (Station 8) Write sequentially from the 1st

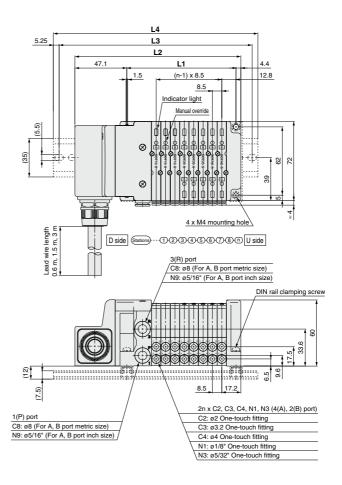
Prefix the asterisk to the part no. of the solenoid valve, etc.

station on the D side When part no. written collectively are complicated, specify on the manifold specification sheet.



Series 10-S0700 kit (Lead Wire)





Dimen	sions											F	ormula	L1 = 8	.5n + 3	1, L2 =	8.5n +	82.5	n: Sta	tion (N	laximu	n 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	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

Page 477

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

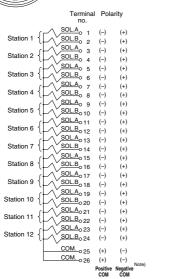
 Simplification and labor savings for wiring work can be achieved by using a circular connector for the electrical connection.

Electrical Wiring Specifications

Circular connector 15 (1) 24 16 17 (13) 25 (18) 26 19 21) (20)

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.

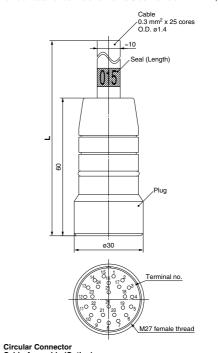
2. Wiring specifications

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.



Air

How to Order Manifold

10-SS0750-08 C4 C8 MD1 Clean series

(1) Stations

Symbol	Stations
02	2 stations
:	
24 Note)	24 stations

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

2 Cylinder port size

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

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

(3) P, R port size

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

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

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.

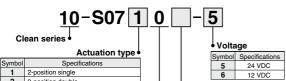
4 Kit type/Cable length

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

Note) 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



2 2-position double 4-position dual 3-port (N.C. + N.C.) Δ [Exhaust center] 4-position dual 3-port (N.O. + N.O.) R [Pressure center] 4-position dual 3-port (N.C. + N.O.)

Note) For symbol, refer to page 423

Base mounted plug-in

Function

Symbol	Specifications			
Nil	Nil Standard			
R	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.)

How to Order Manifold Assembly

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

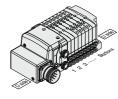
<Example>

Circular connector kit

10-SS0750-08C4C8MD1 ··· 1 set - Manifold base part no. 10-S0710-5 ····3 sets - Valve part no. (Stations 1 to 3) * 10-S0720-52 sets - Valve part no. (Stations 4 to 5) * 10-S07A0-52 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.

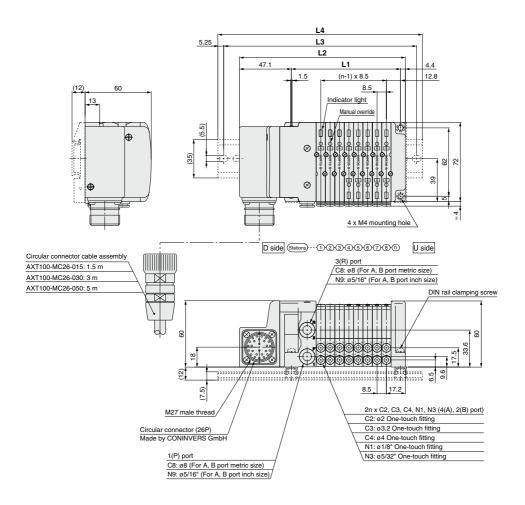
station on the D side. When part no. written collectively are complicated. specify on the manifold specification sheet.



Switches/ e Sensors Pressure Pressure



Series 10-S0700 kit (Circular Connector)



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

Series 10-S0700 Plug-in Manifold Stacking Base

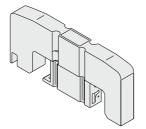
Manifold Optional Parts

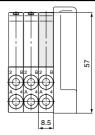
Blanking plate

SS0700-10A-1

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

Weight: 25 g







External pilot [-R]

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

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

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

How to Order Valve (Example)

10-S0710 R -5

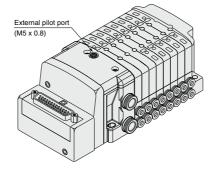
External pilot

How to Order Manifold (Example)

* Indicate R for an option.

10-SS0750-08C4FD1-R

External pilot



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.

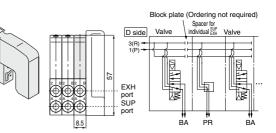
Individual SUP/EXH spacer SS0700-PR-1

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.

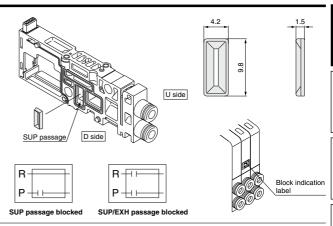
 Specify the number of stations on the manifold specification sheet.

<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.

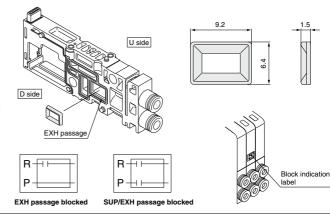
 Specify the number of stations on the manifold specification sheet.

<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

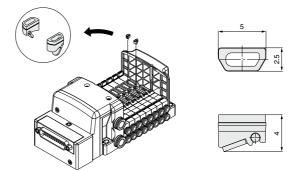


Back pressure check valve [-B] SS0700-7A-1

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**

Symbol

Blanking plate with output

SS0700-1C-

Lead wire length (mm)

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

Connector on the power supply side is not attached. Blanking plate with output <Example>

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.

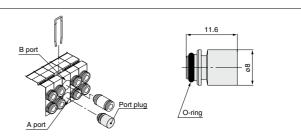
Weight: 34 g

Port plug

VVQ0000-CP

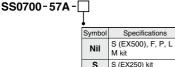
The plug is used to block the cylinder port when using a 5-port valve as a 3-port valve.

 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.



Dimensions

DIN rail mounting bracket



T kit

S (EX250) 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 bracket

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

Blanking plug (For One-touch fittings)

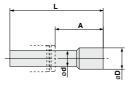
KJP-02



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

Purchasing order is available in units of 10 pieces.

483



Differsions						
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	



7.5

510.5

Applicable to DIN rail mounting

Each manifold can be mounted on a DIN rail.

Order it by indicating a manifold mounting symbol for DIN rail mounting [-D].

Standard DIN rail which is approx. 30 mm longer than the manifold with the specified number of stations is attached.

The following options are also available.

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

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

Example) 10-SS0750-08C4FD0 - D09K

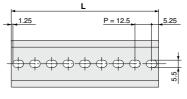


How to Order DIN rail only

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.



		<u> </u>	-	
	1.25	P = 12.5	5.25	
	444	4 4 4	+	
Ī	~~~~	~~~~	5.5	35
				<u> </u>

473

L Dimensior	1
-------------	---

L Dilliella	1011								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	34	35	36	37	38	39	40

448

460.5

Name plate [-N]

L dimension

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

410.5

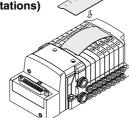
423

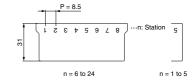
435.5

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.

398

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



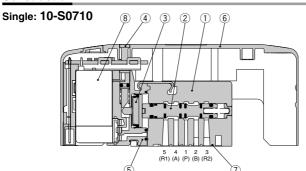


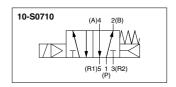
485.5

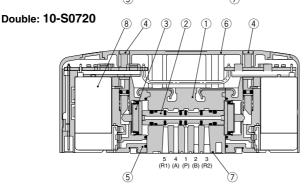
498

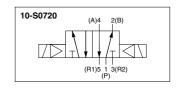
Series 10-S0700 Plug-in Manifold Stacking Base

Construction

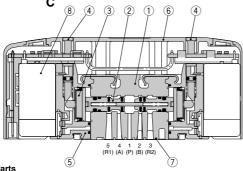








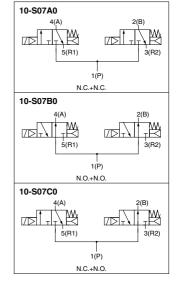
A Dual 3-Port: 10-S07B0



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.



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		6	0000	20 19	
:	- KII	(3)				
:	L KIT					
:	M Kit	1 5				

Manifold Assembly Part No.

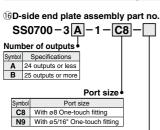
<housing< th=""><th>Assembly</th><th>and SI</th><th>Unit.</th><th>Input</th><th>Block></th></housing<>	Assembly	and SI	Unit.	Input	Block>
---	----------	--------	-------	-------	--------

1	Description	Part no. EX260-SDN1	Note DeviceNet™ M12 connector, 32 outputs, Negative common (PNP)
			DeviceNet™ M12 connector 32 outputs, Negative common (PNP)
J		EX260-SDN2 EX260-SDN3	DeviceNet™ M12 connector, 32 outputs, Positive common (NPN)
J		EX260-SDN3	DeviceNet TM M12 connector, 16 outputs, Negative common (PNP)
J		EX260-SDN4 EX260-SPR1	DeviceNet™ M12 connector, 16 outputs, Positive common (NPN) PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
		EX260-SPR1	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
		EX260-SPR2	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)
	1	EX260-SPR3	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP
	1	EX260-SPR4	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)
j		EX260-SPR5	PROFIBUS DP D-sub connector, 32 outputs, Negative common (PN
J		EX260-SPR6	PROFIBUS DP D-sub connector, 32 outputs, Positive common (NPN
ļ	1	EX260-SPR7	PROFIBUS DP D-sub connector, 16 outputs, Negative common (PN
J		EX260-SPR8	PROFIBUS DP D-sub connector, 16 outputs, Positive common (NPN
J		EX260-SMJ1	CC-Link M12 connector, 32 outputs, Negative common (PNP)
_	Evece 5:	EX260-SMJ2	CC-Link M12 connector, 32 outputs, Negative common (NPN)
1)	EX260 SI unit	EX260-SMJ3	CC-Link M12 connector, 32 outputs, Positive common (NPN) CC-Link M12 connector, 16 outputs, Negative common (PNP)
}	l	EX260-SMJ4	CC-Link M12 connector, 16 outputs, Negative common (PNP) CC-Link M12 connector, 16 outputs, Positive common (NPN)
,		EX260-SMJ4 EX260-SEC1	EtherCAT M12 connector, 16 outputs, Positive common (NPN) EtherCAT M12 connector, 32 outputs, Negative common (PNP)
,			
J	1	EX260-SEC2	EtherCAT M12 connector, 32 outputs, Positive common (NPN)
J	1	EX260-SEC4	EtherCAT M12 connector 16 outputs, Negative common (PNP)
	1	EX260-SEC4	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
J	1	EX260-SPN1	PROFINET M12 connector, 32 outputs, Negative common (PNP)
J		EX260-SPN2	PROFINET M12 connector, 32 outputs, Positive common (NPN)
J		EX260-SPN3	PROFINET M12 connector, 16 outputs, Negative common (PNP)
j		EX260-SPN4	PROFINET M12 connector, 16 outputs, Positive common (NPN)
j		EX260-SEN1	EtherNet/IP™ M12 connector, 32 outputs, Negative common (PNP)
j		EX260-SEN2	EtherNet/IP™ M12 connector, 32 outputs, Positive common (NPN)
J		EX260-SE3	EtherNet/IP™ M12 connector 16 outputs, Negative common (PNP)
J		EX260-SE3	EtherNet/IP™ M12 connector, 16 outputs, Negative common (NPN)
		EX250-SE4 EX250-SDN1	DeviceNet™ Negative common (PNP)
J			PROFIBUS DP Negative common (PNP)
,		EX250-SPR1 EX250-SAS3	AS-Interface 31 slave, 8 in/8 out, 2 isolated common type, Negative common (F
_		EX250-SAS3	AS-Interface 31 slave, 4 in/4 out, 2 isolated common type, Negative common (F
2)	EX250 SI unit	EX250-SAS5	AS-Interface 31 slave, 4 in/4 out, 2 isolated common type, Negative common (P
J	EALSO OF WITH	EX250-SAS7	AS-Interface 31 slave, 8 in/8 out, 1 common type, Negative common (P
J		EX250-SAS9	AS-Interface 31 slave, 4 in/4 out, 1 common type, Negative common (P
		EX250-SCA1A	CANopen Negative common (PNP)
		EX250-SEN1	EtherNet/IP™ Negative common (PNP)
୍ 🗇		EX250-IE1	M12 2 inputs
3)	EX250 input block	EX250-IE2	M12 4 inputs
_	<u> </u>	EX250-IE3	M8 4 inputs
4)	EVOSO1-1	EX250-EA1	Direct mounting
	EX250 end plate assembly		
シ		EX250-EA2	DIN rail mounting
シ			DeviceNet™ Negative common (PNP)
シ		EX250-EA2 EX600-SDN1A	DeviceNet™ Negative common (PNP)
シ		EX250-EA2 EX600-SDN1A EX600-SDN2A	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN)
υ U	2.225 one plate assembly	EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (PNP)
y .	and the place assembly	EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SMJ2	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (PNP) CC-Link Positive common (NPN)
υ I	and the place assembly	EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SMJ2 EX600-SPR1A	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (PNP) CC-Link Positive common (NPN) PROFIBUS DP Negative common (PNP)
v i		EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SMJ2 EX600-SPR1A EX600-SPR2A	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (PNP) CC-Link Positive common (NPN) PROFIBUS DP Negative common (PNP) PROFIBUS DP Positive common (NPN)
<i>y</i>	and the place assembly	EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (NPN) PROFIBUS DP Negative common (NPN) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (PNP)
v i		EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SMJ2 EX600-SPR1A EX600-SPR2A EX600-SEN1	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (NPN) PROFIBUS DP Negative common (NPN) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (PNP)
2		EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SPN1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (PNP) CC-Link Positive common (PNP) PROFIBUS DP Negative common (PNP) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (NPN) EtherNet/IP™ (1 port) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN)
5)	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SMJ1 EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN3	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (PNP) CC-Link Positive common (PNP) PROFIBUS DP Negative common (NPN) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (NPN) EtherNet/IP™ (1 port) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN)
		EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SPR1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN3 EX600-SEN3 EX600-SEN4 EX600-SEN4	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (PNP) PROFIBUS DP Negative common (PNP) PROFIBUS DP Positive common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Positive common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) PROFINET Negative common (NPN)
		EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SPN1A EX600-SPR1A EX600-SPR2A EX600-SEN1 EX600-SEN2 EX600-SEN4 EX600-SEN4 EX600-SEN4	DeviceNet™ Negative common (PNP)
		EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SMJ1 EX600-SMJ2 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Regative common (NPN) CC-Link Positive common (PNP) PROFIBUS DP Negative common (NPN) EtherNet/IP™ (1 port) Negative common (NPN) EtherNet/IP™ (1 port) Negative common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) PROFINET Negative common (NPN) PROFINET Positive common (NPN) EtherCAT Negative common (NPN)
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		EX250-EA2 EX600-SDN1A EX600-SDN2A EX600-SMJ1 EX600-SPR1A EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN3 EX600-SEN4 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SEN2 EX600-SEN3 EX600-SEN4 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SEC2 EX600-WEN1 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2 EX600-WEN2	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (PNP) CC-Link Positive common (PNP) PROFIBUS DP Negative common (NPN) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Positive common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) PROFINET Negative common (NPN) PROFINET Positive common (NPN) EtherCAT Negative common (NPN) EtherCAT Positive common (NPN) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit EtherNet/IP™ Positive common (NPN) Wireless master unit EtherNet/IP™ Positive common (NPN)
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		EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SMN1 EX600-SMN1 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN2 EX600-SEN3 EX600-SEN3 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-WPN1 EX600-WPN1 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WSV1 EX600-WSV2 EX600-WSV2 EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNC EX600-DXNC	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (PNP) CC-Link Positive common (PNP) PROFIBUS DP Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) PROFINET Negative common (NPN) PROFINET Positive common (NPN) EtherCAT Positive common (NPN) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit PROFINET Negative common (PNP) Wireless master unit PROFINET Negative common (NPN) Wireless slave unit Negative common (NPN) 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
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	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SMN1 EX600-SMN1 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN2 EX600-SEN3 EX600-SEN3 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-WPN1 EX600-WPN1 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WSV1 EX600-WSV2 EX600-WSV2 EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNC EX600-DXNC	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (NPN) PROFIBUS DP Negative common (PNP) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) PROFINET Negative common (NPN) EtherCAT Negative common (NPN) EtherCAT Negative common (NPN) EtherCAT Negative common (NPN) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit PROFINET Positive common (NPN) Wireless saster unit PROFINET Positive common (NPN) Wireless save unit PROFINET Positive common (NPN) Wireless save unit PROFINET Positive common (NPN) Wireless save unit PROFINET Negative common (NPN) Wireless slave unit Negative common (NPN) Wireless sl
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	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SDN1A EX600-SMJ1 EX600-SMJ1 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN1 EX600-SEN2 EX600-SEN2 EX600-SEN1 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-WPN1 EX600-WPN1 EX600-WPN1 EX600-WPN1 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-DXNC	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (NPN) CC-Link Regative common (NPN) CC-Link Positive common (NPN) PROFIBUS DP Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (NPN) PROFINET Negative common (NPN) PROFINET Negative common (NPN) EtherCAT Positive common (NPN) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit PROFINET Negative common (PNP) Wireless master unit PROFINET Negative common (NPN) Wireless slave unit N
	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SDN1A EX600-SN12 EX600-SPR1A EX600-SPR2 EX600-SEN1 EX600-SEN2 EX600-SEN4 EX600-SEN4 EX600-SEN4 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-WEN6 EX600-WEN6 EX600-WEN6 EX600-WEN6 EX600-WEN6 EX600-WEN6 EX600-WEN6 EX600-DXNB EX600-DXNB EX600-DXNB EX600-DXNC EX600-DXNC EX600-DXNC EX600-DXNC EX600-DXNC EX600-DXND EX600-DXND EX600-DXND EX600-DXND EX600-DXND EX600-DXND EX600-DXND EX600-DXND EX600-DXND	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (NPN) PROFIBUS DP Negative common (NPN) PROFIBUS DP Positive common (NPN) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN) PROFINET Negative common (NPN) EtherCAT Negative common (NPN) EtherCAT Negative common (NPN) EtherCAT Negative common (NPN) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit PROFINET Negative common (NPN) Wireless slave unit Negative common (NPN) Wireless slave unit PROFINET Positive common (NPN) Wireless slave unit PROFINET Negative common (NPN) 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, 5 pins (6 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.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 8 inputs NPN input, M12 connector, 5 pins (8 pcs.), 8 inputs
	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SDN1A EX600-SMN1 EX600-SMN1 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN3 EX600-SEN4 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SPN1 EX600-SEN6 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-WEN1 EX600-WEN1 EX600-WEN2 EX600-WSV2 EX600-WSV2 EX600-DXPD2 EX600-DXPD6 EX600-DXPD6 EX600-DXPC1 EX600-DXPD6	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (NPN) CC-Link Regative common (NPN) CC-Link Regative common (NPN) PROFIBUS DP Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) PROFINET Negative common (NPN) PROFINET Positive common (NPN) EtherCAT Positive common (NPN) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit PROFINET Negative common (NPN) Wireless save unit Negative common (NPN) Wireless save unit Negative common (NPN) Wireless slave unit Profine (NPN) Wireless slave unit Negative common (NPN) Wireless slave unit Negative common (NPN) Wireless slave unit Negative common (NPN) Ninpin, M12 connector, 5 pins (4 pcs.), 8 inputs 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, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 16 inputs NPN input, D-sub connector, 5 pins (8 pcs.), 16 inputs
	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SDN1A EX600-SMJ1 EX600-SMJ1 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN1 EX600-SEN2 EX600-SEN1 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-WPN1 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-WPN2 EX600-DXNC	DeviceNet™ Negative common (PNP) DeviceNet™ Positive common (NPN) CC-Link Negative common (NPN) CC-Link Positive common (NPN) CC-Link Positive common (NPN) PROFIBUS DP Negative common (PNP) PROFIBUS DP Positive common (PNP) EtherNet/IP™ (1 por) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (NPN) PROFINET Negative common (NPN) PROFINET Positive common (NPN) PROFINET Positive common (NPN) EtherCAT Negative common (NPN) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit PROFINET Negative common (NPN) Wireless save unit PROFINET Negative common (NPN) Wireless save unit Negative common (PNP) Wireless save unit Negative common (PNP) Wireless save unit Negative common (PNP) Wireless slave unit Negative common (PNP)
	EX600 SI unit	EX250-EA2 EX600-SDN1A EX600-SDN1A EX600-SDN1A EX600-SMN1 EX600-SMN1 EX600-SPR1A EX600-SPR1A EX600-SEN1 EX600-SEN2 EX600-SEN3 EX600-SEN3 EX600-SEN4 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SEN6 EX600-SPN1 EX600-SEN6 EX600-SPN1 EX600-SPN1 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-SPN2 EX600-WEN1 EX600-WEN1 EX600-WEN2 EX600-WSV2 EX600-WSV2 EX600-DXPD2 EX600-DXPD6 EX600-DXPD6 EX600-DXPC1 EX600-DXPD6	DeviceNet™ Negative common (PNP) DeviceNet™ Negative common (NPN) CC-Link Negative common (NPN) CC-Link Regative common (NPN) CC-Link Regative common (NPN) PROFIBUS DP Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (1 port) Negative common (PNP) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Negative common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) EtherNet/IP™ (2 ports) Positive common (NPN) PROFINET Negative common (NPN) PROFINET Positive common (NPN) EtherCAT Positive common (NPN) Wireless master unit EtherNet/IP™ Negative common (PNP) Wireless master unit EtherNet/IP™ Negative common (NPN) Wireless master unit PROFINET Negative common (NPN) Wireless save unit Negative common (NPN) Wireless save unit Negative common (NPN) Wireless slave unit Profine (NPN) Wireless slave unit Negative common (NPN) Wireless slave unit Negative common (NPN) Wireless slave unit Negative common (NPN) Ninpin, M12 connector, 5 pins (4 pcs.), 8 inputs 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, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 8 inputs NPN input, M8 connector, 5 pins (8 pcs.), 16 inputs NPN input, D-sub connector, 5 pins (8 pcs.), 16 inputs

Manifold Assembly Part No.

<Housing Assembly and SI Unit, Input Block>

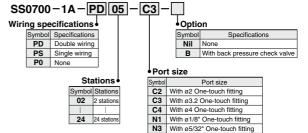
No.	Description	Part no.	Note
	-	EX600-DYNB	NPN output, M12 connector, 5 pins (4 pcs.), 8 outputs
		EX600-DYPB	PNP output, M12 connector, 5 pins (4 pcs.), 8 outputs
	EVC00 digital autout unit	EX600-DYNE	NPN output, D-sub connector, 25 pins,16 outputs
	EX600 digital output unit	EX600-DYPE	PNP output, 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
	Exodo 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
()		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
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.



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		
СЗ	Applicable tube ø3		
C4	Applicable tube ø4		
N1	Applicable tube ø1/8"		
N3	Applicable tube ø5/32"		

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

<Replacement Parts for Manifold Block> Replacement Parts

	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 for Valve> Replacement Parts

C0 Without One-touch fitting

No.	Description	Part no.	Qty.			
23	Gasket, Screw	S0700-GS-5	10			
41						

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

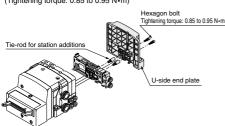
How to Add Manifold Stations (Plug-in Type / Lead Wire Connection Type)

What to order

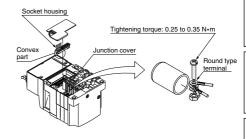
• Manifold block assembly (Refer to page 489-16.)

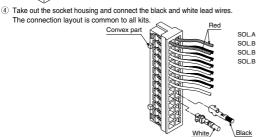
Steps for adding stations

- 1) Loosen hexagon bolts from the end plate at the U-side and remove the end plate.
- 2 Connect the tie-rod for increasing the station number, open the junction cover, mount the manifold block assembly and U-side end plate and tighten them by hexagon bolts. (Tightening torque: 0.85 to 0.95 N·m)



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





	Ter	minal no.			
COM. Station 2 Station 3 Station 4 Station 5	Red1A Black2A White3A White5A 6A 7A 8A	minal no.	1B ···Red 2B ···Black 3B ···Black 4B ···Black 5B ···Black 6B ···Black 7B	COM. Station 1 Station 3 Station 4 Station 5 Station 6	SOL. SOL. SOL. SOL.
	9A		9B		
	10A		10B		
	11A		11B		
	12A 13A		12B 13B		
	IJA		100		



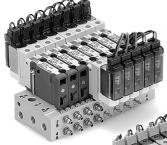
Plug Lead Manifold Bar Base

Connector

C kit

((

Plug-in Manifold Bar Base



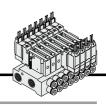
Individual Connector



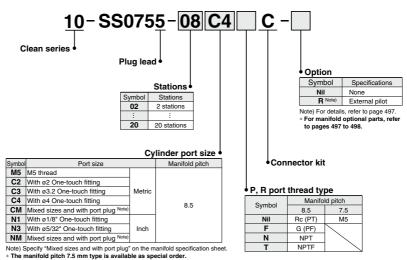
With barb fittings

With One-touch fittings

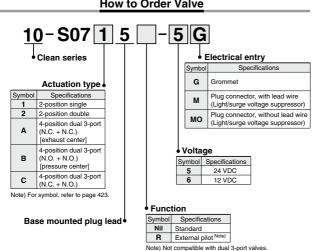
490



How to Order Manifold



How to Order Valve



The 3(R) port is released to the atmosphere. (Pressurization and vacuum are not allowed.)

How to Order Manifold Assembly

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

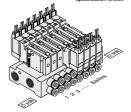
<Example>

Connector kit

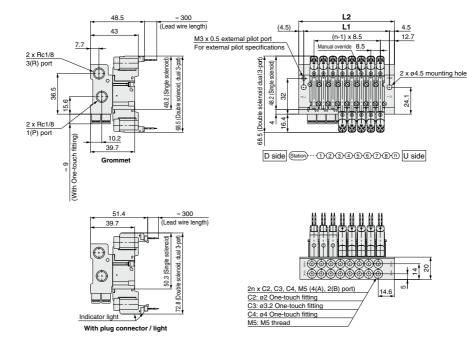
10-SS0755-07C4C... 1 set - Manifold base part no. * 10-S0715-5G----- 3 sets - Valve part no. (Stations 1 to 3) * 10-S0725-5G----- 2 sets - Valve part no. (Stations 4 to 5) * 10-S07A5-5G-----2 sets - Valve part no. (Stations 6 to 7)

Prefix the asterisk to the part no. of the

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







Dimensions Formula L1 = 8.5n + 8.9, L2 = 8.5n + 17.9							n: Sta	tion (M	laximu	n 20 st	ations)								
L	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



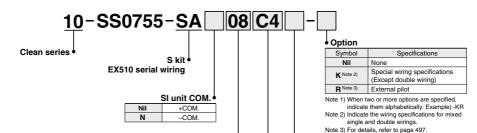
Gateway-type Serial Transmission System

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

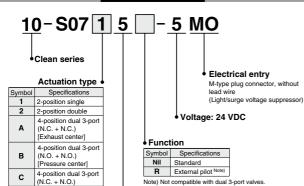
Symbol	Manifold pitch
Symbol	8.5
Nil	Rc (PT)
F	G (PF)
N	NPT
Т	NPTF

Cylinder port cize

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



How to Order Manifold Assembly

* For manifold optional parts, refer to pages 497

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

<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)

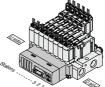
10-S07A5-5MO ······ 2 sets - Valve part no. (Stations 7 to 8) Write sequentially from the

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.



The 3(R) port is released to the atmosphere

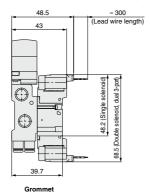
(Pressurization and vacuum are not allowed.)

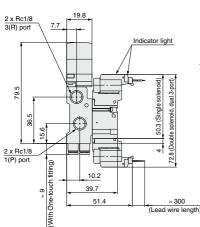
(N.C. + N.O.)

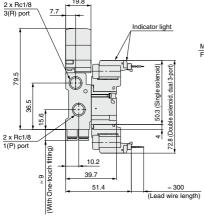
Note) For symbol, refer to page 423

Base mounted plug lead

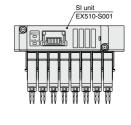
10-SS0755 S kit (Serial transmission: EX510)

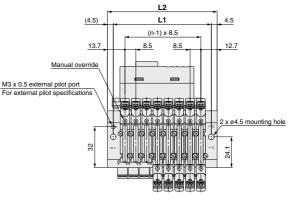






With plug connector / light





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

Cover dia. Ø0.9 Cross section 0.38 mm²			
	# (DO	
11.8		8.5	2n x C2, C3, C4, M5 (4(A), 2(B) port)
			C2: ø2 One-touch fitting

C4: ø4 One-touch fitting M5: M5 thread

Dι	m	eı	าร	10	ns

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

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

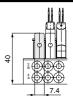
Blanking plate assembly

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

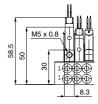
Port size M5 M5 thread

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

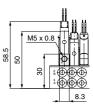
Port size M5 M5 thread

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 a

* Compatible with 8.5 mm pitch manifold only.



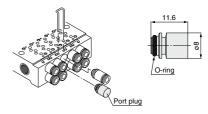


Port plug

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)

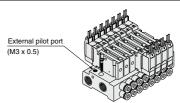
10-S0715 R -5G

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.

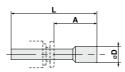


Blanking plug (For One-touch fittings)

KJP-02

23 KQ2P-04 06

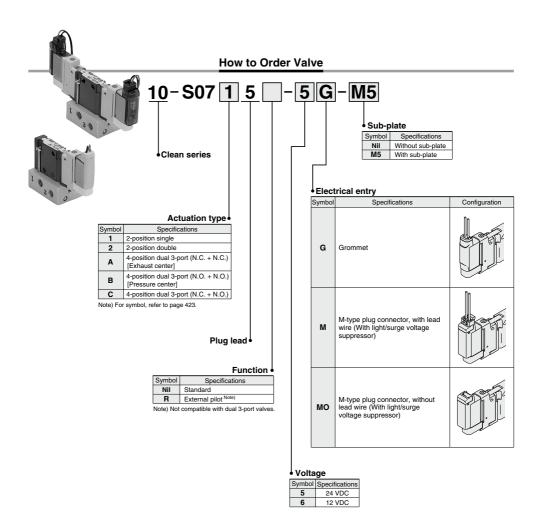




Dimensions (m						
Applicable fitting size ø d	Model	Α	L	D	Weigh (g)	
2	KJP-02	8.2	17	3	0.1	
3.2	KQ2P-23	16	31.5	3.2	1	
4	KQ2P-04	16	32	6	1	
6	KQ2P-06	18	35	8	1	

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



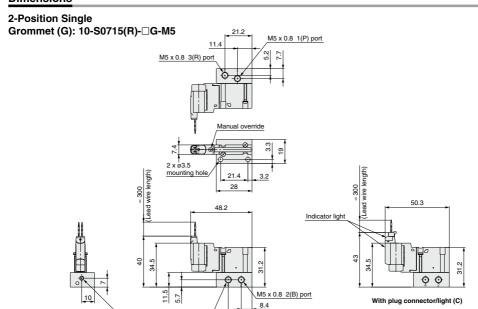


S0715(R)-□M(O)-M5

M3 x 0.5 external pilot port (External pilot only)

M3 x 0.5 external pilot port

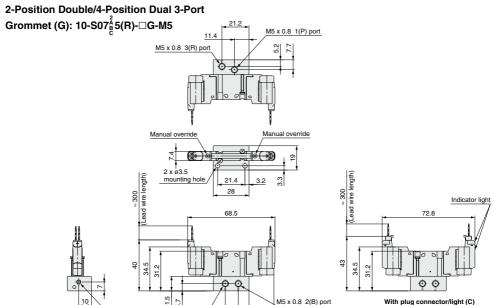
(External pilot only)



18.6

M5 x 0.8 4(A) port

M5 x 0.8 4(A) port



8.4

18.6 19.5

SMC

Directional Control Valves

Air Cylinders

Rotary Actuators

tion Air Grippers

Air Preparation Equipment

Pressure Control Modular F. R. Equipment

Fittings & Tubing

Flow Control Equipment

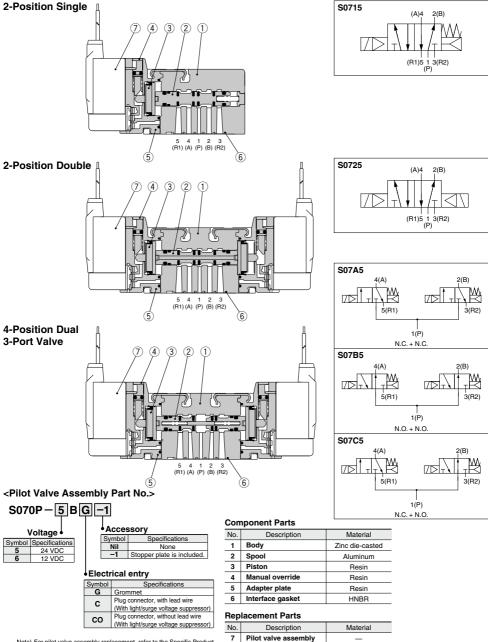
Pressure Switches/ Pressure Sensors

500

S07²₈5(R)-□M(O)-M5

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.

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

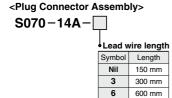


Series 10-S0700 Plug Lead Replacement Parts

<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.



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.

10

<Pilot Valve Assembly>



	Voltage
Symbol	Specifications
5	24 VDC
6	12 VDC

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

Electrical entry

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

Note) For pilot valve assembly replacement, refer to 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

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



Be sure to read this before handling.

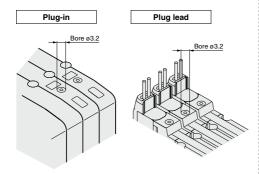
Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

Manual Override

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.

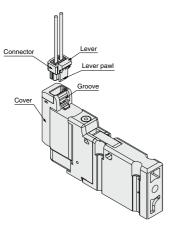


How to Attach/Detach Plug Connector

<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.

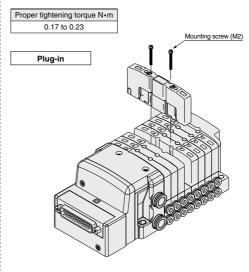


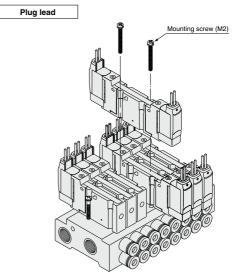
Note) In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 10 N or more).

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.









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.

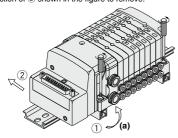
How to Mount/Remove DIN Rail

⚠ Caution

Plug-in

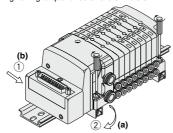
Removal

- 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.



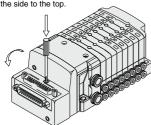
How to Change Connector Entry Direction

∧ 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.

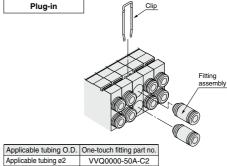


How to Replace Cylinder Port Fittings

⚠ Warning

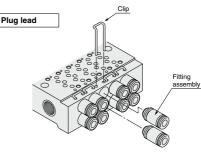
The cylinder port fittings are a cassette for easy replacement. The fittings are blocked by a clip inserted from the top of the valve.

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 O.D.	One-touch fitting part no.
Applicable tubing ø2	VVQ0000-50A-C2
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.

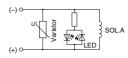
Refer to page 1382 for Safety Instructions and pages 677 to 683 for 3/4/5 Port Solenoid Valve Precautions.

Internal Wiring Specifications

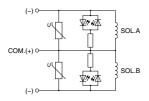
Light/surge voltage suppressor

No polarity by adopting non-polar light.

Plug-in Single/All plug lead types

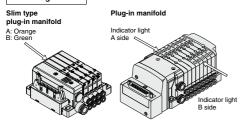


Plug-in Double, Dual 3-port

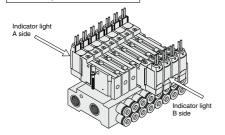


Note) Coil surge voltage generated when OFF is about –60 V. Please contact SMC separately for further suppression of the coil surge voltage.

Plua-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

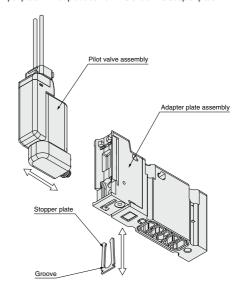
<Plug lead>

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.







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

∕ Marning

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 00 D/I to 00 D/I	100
	Over 20 [V] to 30 [V]	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

Pressure S Pressure 5





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

⚠ Warning

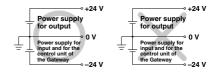
- 1. Use within the allowable voltage range.
 - Using beyond the allowable voltage range is likely to cause the units and connecting devices to be damaged or to malfunction.
- 2. Do not use beyond the specification range.
 - Using beyond the specification range is likely to cause a fire, malfunction, 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.

⚠ Caution

- 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
Outer 00 D./I to 00 D./I	100
Over 20 [V] to 30 [V]	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.

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

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

Wiring

⚠ Warning

1. Avoid miswiring.

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

2. Do not wire while energizing the product.

It is likely to damage the units or connecting devices.

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

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

4. Check the wiring insulation.

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

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

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

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

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

Operating Environment

⚠ Warning

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

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

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

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

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

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

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

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

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.

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

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

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

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



Be sure to read 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

⚠ 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.





Rotary 1





Series 10-S0700 **Specific Product Precautions 8**

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.

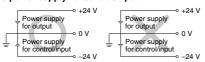
- 2. When using for an interlock circuit:
 - . Provide a multiple interlock system which is operated by another system (such as mechanical protection function).
 - Perform an inspection to confirm that it is working properly. This may cause possible injury due to malfunction.

∕ 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.

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

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

7. Beware of inrush current when the power supply is

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. 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.

Pressure





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

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.





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

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

< Handheld Terminal>

2. Do not apply pressure to the LCD.

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

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

Otherwise, injury or equipment damage could result.

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

This may cause injury or equipment damage.

⚠ Caution

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

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

- 2. Provide adequate setting for the operating conditions. Failure to do so could result in malfunction.
 - Refer to the operation manual for setting of the switches
- 3. For details on programming and address setting, refer to the manual from the PLC manufacturer.

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

<Handheld Terminal>

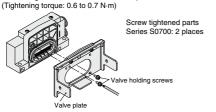
4. Do not press the setting buttons with a sharp pointed object.

This may cause damage or malfunction.

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

This may cause damage, equipment failure or malfunction.

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

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

Such actions are likely to cause injuries or breakage.

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

Unexpected malfunction of system components and injury can

- 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

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

2. Perform periodic inspection.

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

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

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

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

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

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

Flow Control Equipment

ressure Switches/ Pressure Sensors Pressure



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