Fieldbus System

(Output device for driving 5 port solenoid valves)















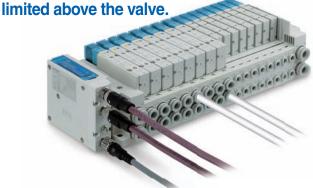


Manifold length is shortened by the small fieldbus output module (SI unit).

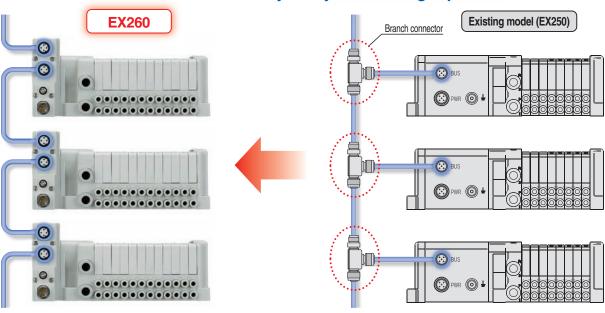


Wiring and piping from the same direction is possible. (for side ported)

Effective for installation in locations where space is



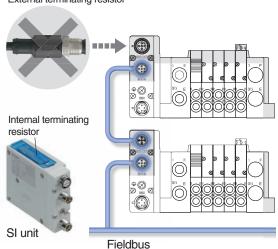
External branch connector is not necessary. Daisy-chain wiring is possible. Reduced wiring space



External terminating resistor is not necessary. (Only available for M12 PROFIBUS DP, CC-Link communication connectors)

ON/OFF switching is possible with an internal terminating resistor. External terminating resistor is not necessary.

External terminating resistor



Features 1

Product Specification Variations

	PROFO® BUS	DeviceNet >>>	CC-Link	PROFU [®] INSTE	EtherNet/IP>	Ether CAT.
Number of	16	16	16	16	16	16
outputs	32	32	32	32	32	32
Output palarity	PNP	PNP	PNP	PNP	PNP	PNP
Output polarity	NPN	NPN	NPN	NPN	NPN	NPN
Communication	M12	M12	M12	M12	M12	M12
connector	D-sub					

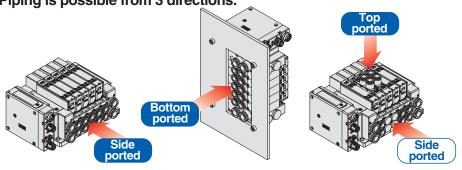
■ Communication connector examples



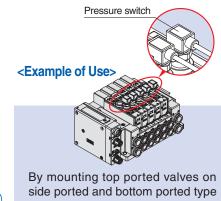
Series SY3000/5000

Valve piping direction variations

Piping is possible from 3 directions.

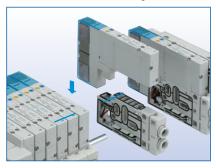


Mixed mounting of top ported and side ported is possible.



By mounting top ported valves on side ported and bottom ported type manifolds, it is possible to detect the output of the A/B port with a pressure switch.

Valves can be freely connected up to 24 stations.



It is possible to connect only the number of valves required, from 1 to 24 stations, to suit the application. (Maximum number of solenoids connected: 32)

Mixed valve sizes manifold

Valves of different sizes, SY3000 and SY5000, can be mounted on the same manifold.

Series S0700

7 mm width valves can be connected.





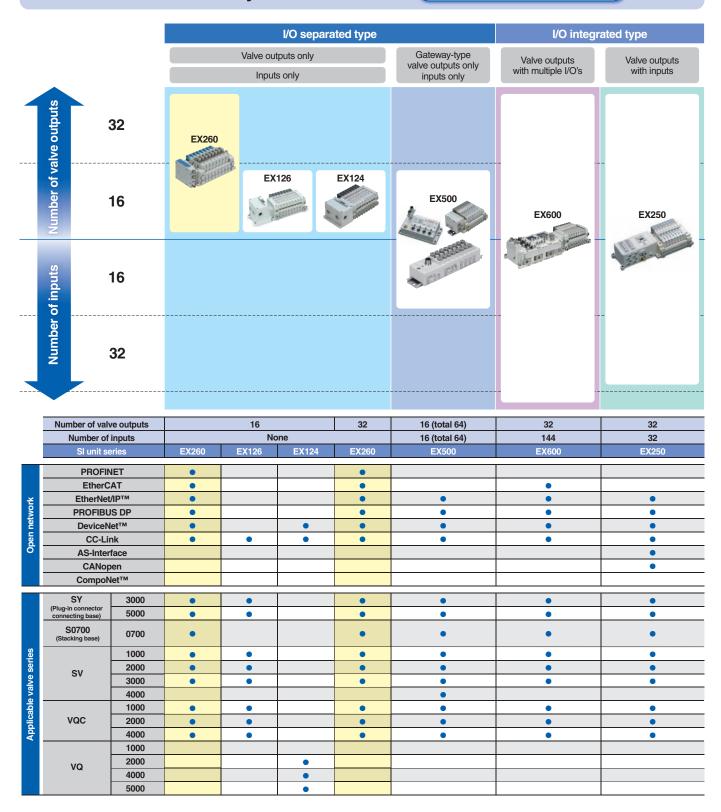
It is possible to connect only the number of 7 mm width valves required, from 1 to 24 stations.

(Maximum number of solenoids connected: 32)

Cavias		Flow-rate characteris	Flow-rate characteristics (4/2→5/3)		Power	F	Oterralende	D
Series	Series		b	number of solenoids	consumption (W)	Enclosure	Standards	Page
THE STATE OF THE S	SY3000	1.6	0.19	32	0.35 (standard)	IP67		
A FEFFER	SY5000	3.6	0.17	32	0.1 (with power- saving circuit)	IP6/	(€	page 7
	S0700	0.37	0.39	32	0.35	IP40	(€	page 38
	SV1000	1.1	0.35				(€	
111111	SV2000	2.4	0.18	32	0.6	IP67		page 24
The second	SV3000	4.3	0.21				A L°	
etteren.	VQC1000	1.0	0.30		O. 4 (atom do val)			
Salahan da	VQC2000	3.2	0.30	24	0.4 (standard)	IP67	(€	page 29
S. Conso	VQC4000	7.3	0.38		1.0 (standard)			

Fieldbus System Variations

(IP67/65 specification models)



Fieldbus System Variations IP20 specification models

						•					
						I/O	separate	d type		I/O integr	ated type
					Val	ve outputs			Gateway-type	Valve outputs	Valve outputs
				Inputs only			valve outputs only inputs only	with multiple I/O's	with inputs		
	1	st s									
		<u>a</u> 32	!								
		Ve o						EX180			
		32 months of valve of		EV400	EV404	EV400	EV4.40				
		o Jec		EX120	EX121	EX122	EX140	3. 1399			
		16	;		100	-			EX510		
					1		*		CACA COMMITTEE OF THE PARTY OF		
_											
		ဟ									
		16	j								
		Ē									
		Number of inputs 32									
		QE									
		32									
-	J										
		Number of valve	outnuts		1	6		32	16 (total 64)		
		Number of in				None			16 (total 64)		
		SI unit seri		EX120	EX121	EX122	EX140	EX180	EX510		
		PROFINET EtherCAT									
+	差	EtherNet/IP	TM								
	netw	PROFIBUS DeviceNet		•	•	•	•	•	•		
	Open network	CC-Link		•	•	•	•	•	•		
	1	AS-Interfac CANoper	1								
		CompoNet		•	•	•					
		SY (Plug-in connector connecting base)	3000 5000	•							
		SJ	2000					•	•		
		SY (Plug-in metal base)	3000 3000					•	•		
			5000					•	•		
		S0700 (Bar stock)	0700								
		SY (Bar stock)	3000 5000						•		
		(Bar Stock)	7000						•		
	se	SY (Stacking base)	3000 5000		•	•			•		
	Applicable valve series	(Glacking Dase)	7000 1000	•					•		
	e val	sv	2000	•							
F	CaD	3	3000 4000	•							
	Арр		1000	•					•		
		VQ	2000 4000	•					•		
			5000				•				
		SQ	1000 2000				•		•		
		SZ	3000 1000				•		•		
		VQZ	2000						•		
			3000 3000						•		
		SYJ	5000						•		
			7000						•		

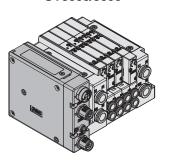
SI Unit Integrated-type/For Output

Series EX260

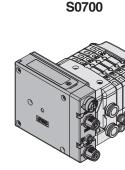


Compact design	Compact design for space saving
Number of outputs	Each 32/16 digital output type available in the series
Output polarity	Each negative common (PNP) / positive common (NPN) type available in the series
Enclosure	IP67 (For units with D-sub connector, and when connected with S0700 manifolds, it is IP40.)
Internal terminating resistor	ON/OFF switching is possible with an internal terminating resistor for communication. (Only for units compatible with M12 PROFIBUS DP, CC-Link communication connectors)

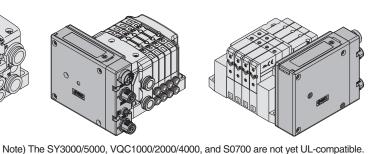
SY3000/5000



VQC1000/2000/4000



SV1000/2000/3000



How to Order SI Units

EX260 - S PR1

♦ Communication protocol

Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol
DN1		32	Source/PNP (Negative common)		QAN
DN2	DoviceNetTM	32	Sink/NPN (Positive common)	M12	QA
DN3	DeviceNet™	16	Source/PNP (Negative common)	IVIIZ	QBN
DN4		10	Sink/NPN (Positive common)		QB
PR1		32	Source/PNP (Negative common)		NAN
PR2		32	Sink/NPN (Positive common)	M12	NA
PR3		16	Source/PNP (Negative common)	IVIIZ	NBN
PR4	PROFIBUS DP	10	Sink/NPN (Positive common)		NB
PR5	FNOFIBUS DE	32	Source/PNP (Negative common)		NCN
PR6		32	Sink/NPN (Positive common)	D-sub Note)	NC
PR7		16	Source/PNP (Negative common)	D-Sub ****	NDN
PR8		10	Sink/NPN (Positive common)		ND
MJ1		32	Source/PNP (Negative common)		VAN
MJ2	CC-Link	32	Sink/NPN (Positive common)	M12	VA
MJ3	CC-LIIK	16	Source/PNP (Negative common)		VBN
MJ4		10	Sink/NPN (Positive common)		VB
EC1		32	Source/PNP (Negative common)		DAN
EC2	EtherCAT	32	Sink/NPN (Positive common)	M10	DA
EC3	EllielCAI	16	Source/PNP (Negative common)	M12	DBN
EC4		10	Sink/NPN (Positive common)		DB
PN1		32	Source/PNP (Negative common)		FAN
PN2	- DECEMET	32	Sink/NPN (Positive common)	M12	FA
PN3		10	Source/PNP (Negative common)	IVIIZ	FBN
PN4		16	Sink/NPN (Positive common)		FB
EN1	1	32	Source/PNP (Negative common)		EAN
EN2		32	Sink/NPN (Positive common)	M12	EA
EN3	Ellielivel/IF	16	Source/PNP (Negative common)	IVIIZ	EBN
EN4		16	Sink/NPN (Positive common)		EB

Note) Enclosure is IP40 when the communication connector is D-sub.



SI Unit Specifications

	Model	EX260-SPR1/3	EX260-SPR2/4	EX260-SPR5/7	EX260-SPR6/8	EX260-SDN1/3	EX260-SDN2/4	EX260-SMJ1/3	EX260-SMJ2/4
	Protocol		PROFIL	BUS DP		Device	eNet™	CC-Link	
Applicable system	Version Note 1)		DP	P-V0		Volume 1(Edition 3.5) Volume 3(Edition 1.5)		Ver.1.10	
	Configuration file Note 3)		GSI	O file		ED9	S file	-	_
I/O occup (Inputs/O		SPR1: 0/32 SPR3: 0/16	SPR2: 0/32 SPR4: 0/16	SPR5: 0/32 SPR7: 0/16	SPR6: 0/32 SPR8: 0/16	SDN1: 0/32 SDN3: 0/16	SDN2: 0/32 SDN4: 0/16		SMJ2: 32/32 SMJ4: 32/32 (1 station, remote I/O stations)
Communi	cation speed	18		5.45 k/93.75 k/ M/3 M/6 M/12 Mb	os	125 k/250	k/500 kbps		625 k/ I/10 Mbps
Power supply	Power supply voltage		21.6 to 2	6.4 VDC		_	_	21.6 to 2	6.4 VDC
for control	Internal current consumption		100 m <i>A</i>	A or less		_	_	100 mA	or less
Power supply for o	output Power supply voltage		_	_	22.8 to 2	6.4 VDC			
Power supply for	Power supply voltage		_	_		11 to 2	5 VDC	-	_
communication	Internal current consumption					100 mA	or less	_	
Communicati	on connector specification	M12 D-sub				M	M12		
Terminating	resistor switch	Bui		Nor		ne			lt-in
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)
	Number of outputs	SPR1: 32 points SPR3: 16 points	SPR2: 32 points SPR4: 16 points	SPR5: 32 points SPR7: 16 points	SPR6: 32 points SPR8: 16 points	SDN1: 32 points SDN3: 16 points	SDN2: 32 points SDN4: 16 points	SMJ1: 32 points SMJ3: 16 points	SMJ2: 32 points SMJ4: 16 points
Output	Load		Solenoid	valve with protect	ctive circuit for sur	irge voltage of 24 VDC/1.5 W or less (SMC)			
	Supplied voltage					VDC			
	Supplied current	SPR1: Max. 2.0 A SPR3: Max. 1.0 A	SPR2: Max. 2.0 A SPR4: Max. 1.0 A	SPR5: Max. 2.0 A SPR7: Max. 1.0 A	SPR6: Max. 2.0 A SPR8: Max. 1.0 A	SDN1: Max. 2.0 A SDN3: Max. 1.0 A	SDN2: Max. 2.0 A SDN4: Max. 1.0 A	SMJ1: Max. 2.0 A SMJ3: Max. 1.0 A	SMJ2: Max. 2.0 A SMJ4: Max. 1.0 A
	Enclosure	IP	67	IP	40	IP67			
Environmenta	Operating temperature range		14 to 122°F (-10 to 50						
resistance	Operating humidity range					No condensation)			
10010141100	Withstand voltage					een terminals an			
	Insulation resistance	10 M Ω or more (500 VDC measured via megohmmeter) between terminals and housing							
Standards	8	CE marking, UL (CSA) compatible							
Weight	•				0.44 lbs	. 0,			
	Mounting screw				2 p	cs.			
Accessories	Seal cap (for M12 connector socket)	EX9-AW	ΓS (1 pc.)	_	_	EX9-AWTS (1 pc.)			

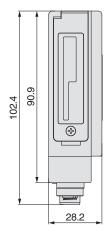
	Model	EX260-SEC1/3	EX260-SEC2/4	EX260-SPN1/3	EX260-SPN2/4	EX260-SEN1/3	EX260-SEN2/4		
	Protocol	EtherC/	T Note 2)	PROFIN	PROFINET Note 2)		IPTM Note 2)		
Applicable system	Version Note 1)	Confort Test Rec			PROFINET Specification Version 2.2		Edition 3.8) Edition 1.9)		
	Configuration file Note 3)	XML file) file	,	S file		
I/O occupat	ion area	SEC1: 0/32 SEC3: 0/16	SEC2: 0/32 SEC4: 0/16	SPN1: 0/32 SPN3: 0/16	SPN2: 0/32 SPN4: 0/16	SEN1: 16/32 SEN3: 16/16	SEN2: 16/32 SEN4: 16/16		
	ation speed	0200.0/10		ps Note 2)	01 141. 0/10		Mbps Note 2)		
	Power supply voltage			21.6 to 2	6.4 VDC				
for control	Internal current consumption				or less				
Power supply for output	Power supply voltage			22.8 to 2	6.4 VDC				
	Power supply voltage			_	_				
communication	Internal current consumption			_	_				
Communication	connector specification			М	12				
Terminating	resistor switch	None							
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)		
	Number of outputs	SEC1: 32 points SEC3: 16 points	SEC2: 32 points SEC4: 16 points	SPN1: 32 points SPN3: 16 points		SEN1: 32 points SEN3: 16 points	SEN2: 32 points SEN4: 16 points		
Output	Load		otective circuit for surge 1.5 W or less (SMC)	Solenoid valve with protective circuit for surge voltage of 24 VDC/1.0 W or less (SMC) voltage of 24 VDC/1.5 W or less (SMC)					
	Supplied voltage	Ŭ	, ,	24\	/DC		,		
	Supplied voltage	SEC1: Max. 2.0 A SEC3: Max. 1.0 A	SEC2: Max. 2.0 A SEC4: Max. 1.0 A	SPN1: Max. 2.0 A SPN3: Max. 1.0 A		SEN1: Max. 2.0 A SEN3: Max. 1.0 A	SEN2: Max. 2.0 A SEN4: Max. 1.0 A		
	Enclosure	IP67							
F	Operating temperature range			14 to 12°F (-	–10 to 50°C)				
Environmental resistance	Operating humidity range			35 to 85%RH (N	o condensation)				
resistance	Withstand voltage		500 VAC	for 1 minute betw	een terminals an	d housing			
	Insulation resistance	10 M Ω or more (500 VDC measured via megohmmeter) between terminals and housing							
Standards		CE marking, UL (CSA) compatible							
Weight		0.44 lbs (200 g)							
	Mounting screw			2 p	CS.				
Accessories	Seal cap (for M12 connector socket)			EX9-AW	ΓS (1 pc.)				

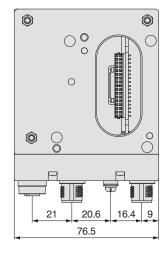
- Note 1) Please note that the version is subject to change.
- Note 2) Use a CAT5 or higher transmission cable for EtherCAT, PROFINET, EtherNet/IP™.
- Note 3) Each file can be downloaded from the SMC website, http://www.smcworld.com



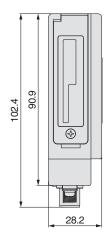
SI Unit Dimensions (mm)

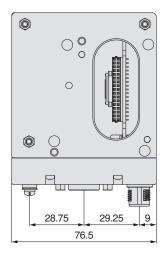
M12 communication connector type





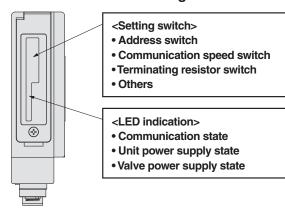
D-sub communication connector type





Functions of SI Unit Parts

<LED indication and setting switch>



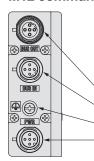
Note) The setting switch varies depending on the model.

Refer to the operation manual for details.

Please download it via the SMC website, http://www.smcworld.com

<Connector>

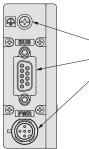
M12 communication connector type



	Part no.	EX260-SPR1/-SPR2 -SPR3/-SPR4	EX260-SDN□	EX260-SMJ□	EX260-SEC□ EX260-SPN□ EX260-SEN□
Communication protocol		PROFIBUS DP	DeviceNet™	CC-Link	EtherCAT PROFINET EtherNet/IP™
\	Communication connector (M12) BUS OUT	5 pins, socket, B code	5 pins, socket, A code	5 pins, socket, A code	4 pins, socket, D code
\	Communication connector (M12) BUS IN	5 pins, plug, B code	5 pins, plug, A code	4 pins, plug, A code	4 pins, socket, D code
_	Ground terminal		N	13	
	Power connector (M12)	5 pins, plug, A code	4 pins, plug, A code	5 pins, plug, B code	5 pins ^{Note1)} , 4 pins ^{Note2)} , plug, A code

Note 1) For EtherCAT, PROFINET Note 2) For EtherNet/IP™

D-sub communication connector type



Part no.	EX260-SPR5/-SPR6/-SPR7/-SPR8		
Communication protocol	PROFIBUS DP		
Ground terminal	M3		
Communication connector (D-sub) BUS IN/OUT	9 pins, socket		
Power connector (M12)	5 pins, plug, A code		

EX260

Accessories

1 Communication cable with connector

For SI units compatible with PROFIBUS DP, DeviceNet™, CC-Link

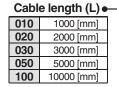
Refer to the catalog (CAT. NAS100-73)

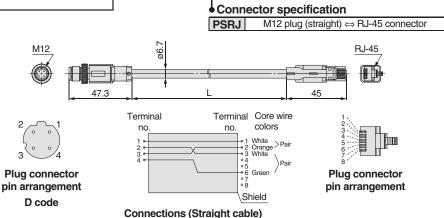
For SI units compatible with EtherCAT, PROFINET, EtherNet/IP™

EX9-AC 020 EN-PSRJ







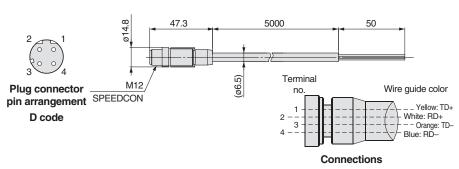


For SI units compatible with EtherCAT, PROFINET, EtherNet/IP™

PCA-1446566

Cable length

1446566 5000 [mm]



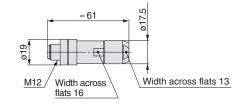
For SI units compatible with EtherCAT, PROFINET, EtherNet/IP™

Fieldwireable connector

PCA-1446553







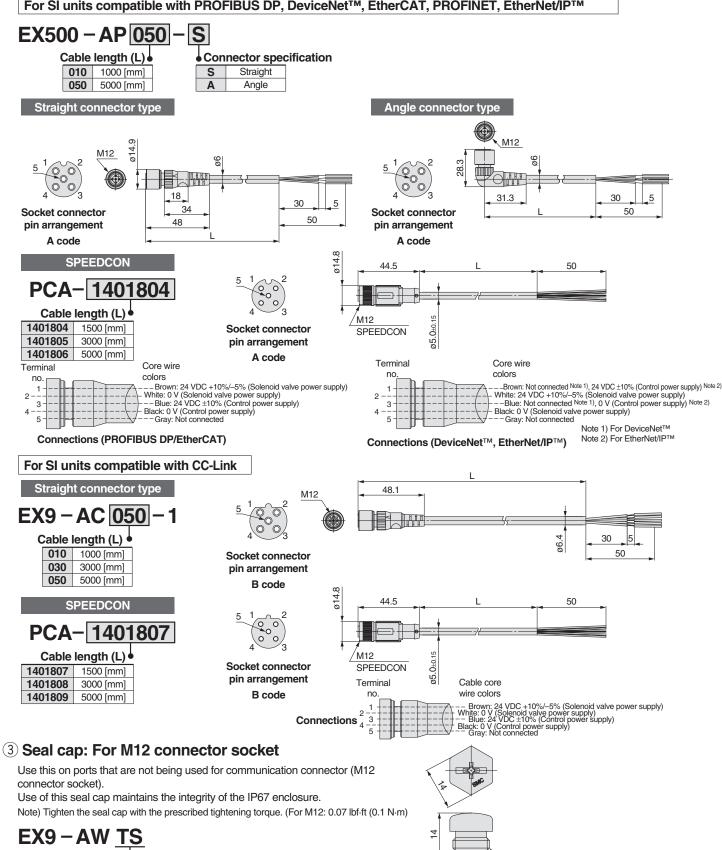


Series EX260

Accessories

2 Power cable with connector (for SI units)

For SI units compatible with PROFIBUS DP, DeviceNet™, EtherCAT, PROFINET, EtherNet/IP™



M12 x 1

Connector type

For M12 connector socket (10 pcs.)

Manifold Solenoid Valves for *Series EX260* Integrated-type (For Output) Serial Transmission System



Series SY3000/5000

Page 7



Series **SV1000/2000/3000**

Page 24



Series VQC1000/2000/4000

Page 29



Series **\$0700**

Page 38

Plug-in Connector Connecting Base: For EX260 Integrated-type (For Output) **Serial Transmission System**

Series SY3000/5000 (RoHS)



How to Order Manifold

Refer to page 11 for Type 11/Bottom ported dimensions.



Series

-	
3	SY3000
5	SY5000

<u> </u>	
10	Side ported
11	Bottom ported*

* The SY5000 manifold base is used for the bottom ported of the SY3000. When ordering, refer to Plug-in Mixed Type Manifold (from page 17).

3 SI unit specifications

Symbol	o or unit specifications									
QA DeviceNet™ 32 M12 NA NA 32 M12 NB PROFIBUS 16 M12 NC DP 32 D-subNote) VA CC-Link 32 M12 VB CC-Link 16 M12 DA EtherCAT 32 M12 FA PROFINET 32 M12 FB EtherNet/IP™ 32 M12	Symbol	Protocol	Number of outputs	Communication connector						
DeviceNet TM	0	V	/ithout SI un	it						
QB 16 NA 32 NB PROFIBUS 16 NC DP 32 ND 16 D-subNote) VA CC-Link 32 M12 DA EtherCAT 32 M12 DB EtherCAT 16 M12 FA PROFINET 32 M12 FB EtherNet/IPIM 32 M12	QA	DovisoNotM	32	M10						
NB PROFIBUS 16 M12 NC DP 32 D-subNote) VA CC-Link 16 M12 VB CC-Link 16 M12 DA EtherCAT 16 M12 FA PROFINET 16 M12 FB PROFINET 16 M12 EA FtherNet/IPTM 32 M12	QB	Device Net	16	IVI I Z						
NB PROFIBUS 16 NC DP 32 ND 16 D-subNote) VA CC-Link 32 VB 16 M12 DA EtherCAT 32 M12 FA PROFINET 32 M12 FB FB FB TherNet/IPIM 32 M12	NA		32	M10						
ND	NB	PROFIBUS	16	IVI I Z						
ND 16 VA 32 M12 VB 16 M12 DA EtherCAT 32 M12 DB EtherCAT 32 M12 FA PROFINET 32 M12 EA EtherNet/IPIM 32 M12	NC	DP	32	D I- Noto)						
VB CC-Link 16 M12 DA EtherCAT 32 M12 DB EtherCAT 32 M12 FA PROFINET 32 M12 FB EA EtherNet/IPTM 32 M12	ND		16	D-sub ^{Note)}						
VB 16 DA EtherCAT 32 DB 16 M12 FA PROFINET 32 M12 FB EA EtherNet/IPIM 32 M12	VA	00 1 5-1-	32	M10						
DB EtherCAT 16 M12 FA PROFINET 32 M12 FB EA EtherNet/IPTM 32 M12	VB	CC-LITIK	16	IVI I Z						
DB 16 FA PROFINET 32 M12 FB EA EtherNet/IPIM 32 M12	DA	EthorCAT	32	M10						
FB PROFINET 16 M12 EA FtherNet/IPTM 32 M12	DB	EllierCAT	16	IVI I Z						
FB 16 EA FtherNet/IPTM 32 M12	FA	DDOEINET	32	M10						
EtherNet/IPIM E M12	FB	PHOFINEI	16	IVI I Z						
EB EUTETIVE/JE 16	EA	EthorNot/IDIM	32	M10						
	EB	Eulenveule	16	IVI I Z						

Note) IP40 for the D-sub applicable communication connector specification.

For SI unit part number, refer to page 1. DIN rail and SI unit output polarity "N" cannot be selected for the product without SI unit.

Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring Note 1)			
16	16 stations	_			
02	2 stations	O ''' II I Note (1)			
:		Specified layout Note 2) (Available up to 32 solenoids)			
24	24 stations	(Available up to 32 soleriolds)			

In the case of the 16-output SI unit

Syn	nbol	Stations	Note				
0	2	2 stations					
	:	::	Double wiring Note 1)				
0	8	8 stations					
0	2	2 stations	O If II (Note 2)				
	:	:	Specified layout Note 2)				
1	6	16 stations	(Available up to 16 solenoids)				

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations.

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) 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.)

Note 3) Includes the number of blanking plate assemblies. Note 4) For the model without the SI unit (S0), note the

maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

6 P. E port entry

U side (2 to 10 stations		U side (2 to 10 stations)
D side (2 to 10 stations		D side (2 to 10 stations)
	В	Both sides (2 to 24 stations)

SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

- 3/5(E) port is plugged for the built-in silencer type.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

Mounting and Option

Symbol	Mounting	Option
Nil	Direct mounting	None
AA		Name plate (With station number)
BA		Name plate (Without station number)
D□	DIM!	Without name plate
A□	DIN rail mounting	Name plate (With station number)
В□		Name plate (Without station number)

Note 1) Enter the number of stations inside □. (Refer to "DIN Rail Option" below.)

Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN Rail Option

Nil	Direct mounting		
0	Without	DIN rail (with bracket)	
3	For 3 stations	Conneit on lawren weil them the testel	
÷	:	Specify a longer rail than the total	
24	For 24 stations	length of specified stations.	

* When it is necessary to mount a DIN rail without an SI unit, select D0 and order DIN rail length separately, referring to L3 in the dimensions. Refer to the SY3000/5000 series catalog (CAT. NAS11-103) for part numbers of DIN rail.

4 SI unit output polarity

Nil	Positive common	Note 1) Ensure a match with the common specifications of the valve to be used.
N	Negative common	Note 2) Without Stunit, the symbol is nil

A, B port size (Metric)

_	,							
Symbol	A, B port		Type Side p	Type 10/ Side ported				
Oyiliboi	A, B port			SY3000	SY5000	SY5000		
C2		ø2	One-touch fitting	•	_	_		
C 3	١	ø3	.2 One-touch fitting	•	_	_		
C4	ight	ø4	One-touch fitting	•	_	•		
C6	Straight	ø6	One-touch fitting	•	•	•		
C8		ø8	One-touch fitting	_	•	•	01988	
CM*		Straight port, mixed sizes		•	•	•		
L4		5	ø4 One-touch fitting	•	•	_		
L6			Upward	ø6 One-touch fitting	•	•	_	
L8		ž	ø8 One-touch fitting	_	•	_	el mark	
B 4	Elbow	ard	ø4 One-touch fitting	•	•	_		
B6	i i i i i i i i i i i i i i i i i i i		ø6 One-touch fitting	•	•	_		
B8			ø8 One-touch fitting	_	•	<u> </u>	To last	
LM*			oow port, mixed sizes cluding upward and downward piping)	•	•	_		
P, E	P. E port size (One-touch fittings)			ø8	ø10	ø10		

Note) To avoid interference with the body or piping, select downward elbow port when mounting the optional spacer assembly (Refer to the SY3000/5000 series catalog (CAT. NAS11-103)).

A, B port size (Inch)

A, b port size (mon)										
Symbol	A, B port		Type Side p	e 10/ ported	Type 11/ Bottom ported					
Syllibul			A, b port	SY3000	SY5000	SY5000				
N1		ø1/8" (One-touch fitting	•	_	_				
N3	Ħ	ø5/32"	One-touch fitting	•	•	•				
N7	Straight	ø1/4" (One-touch fitting	•	•	•				
N9	Ş	ø5/16"	One-touch fitting	_	•	•	@1093			
CM*		Straigh	nt port, mixed sizes	•	•	•				
LN3		5	ø5/32" One-touch fitting	•	_	_				
LN7	Elbow			Upward	ø1/4" One-touch fitting	•	•	_		
LN9) j	ø5/16" One-touch fitting	_	•	_	0 0000			
BN3		ard	ø5/32" One-touch fitting	•	_	_	51			
BN7		Ш	ш	ш	Downward	ø1/4" One-touch fitting	•	•	_	
BN9				å	ø5/16" One-touch fitting	_	•	/	le le	
LM*		Elbow port, mixed sizes (Including upward and downward piping)		•	•	_				
P, E port size (One-touch fittings) ø5/16" ø3/8" ø3/8"										

- * Indicate the sizes on the manifold specification sheet in the case of "CM", "LM".
- * The direction of P, E port fittings is the same as for A, B port. If selecting "LM", indicate it on the manifold specification sheet for the P, E port fitting direction.



specification sheet.

EX260

SY

SV

SOS

Example (SS5Y3-10SNAN-□) 2-position single (24 VDC) SY3100-5U1 (2 sets) 3-position closed center (24 VDC) SY3300-5U1 (1 set) SY3300-5U1 (1 set)

SS5Y3-10SNAN-04D-C6 ...1 set (Type 10 4-station manifold base part no.)

*SY3100-5U12 sets (2-position single part no.)

*SY3200-5U11 set (2-position double part no.)

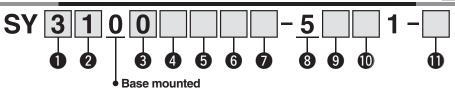
*SY3300-5U11 set (3-position closed center part no.)

- *The asterisk denotes the symbol for assembly.
 *Prefix it to the part nos. of the valve, etc.
- The valve arrangement is numbered as the 1st station from the D side.
- Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure above.
 If the arrangement becomes complicated, specify on a manifold

Note) When mixing top ported configurations, select from page 13. Specify on a manifold specification sheet if plugs are required on the A and B port on the manifold.

How to Order Valves (With two mounting screws)

Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details on valve specifications.



1 Series

3	SY3000
5	SY5000

2 Type of actuation

SS5Y3-10SNAN-04D-C6

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A *	4-position dual 3-port valve (N.C./N.C.)
B *	4-position dual 3-port valve (N.O./N.O.)
C*	4-position dual 3-port valve (N.C./N.O.)

* Only rubber seal type is available for the 4-position dual 3-port valve.

3 Seal type

_	
0	Rubber seal
1	Metal seal

A Pilot type

_	-
Nil	Internal pilot
R	External pilot

Back pressure check valve (Built-in valve type)

	2. 7
Nil	None
Н	Built-in

- * Only rubber seal type. Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details. However, it is not recommended to use the built-in valve type and the manifold installed type at the same time because it will reduce the flow.
- * The built-in valve type back pressure check valve is not available for the 3-position type.

6 Pilot valve option

Nil	Standard (0.7 MPa)
В	Quick response type (0.7 MPa)
K*	High pressure type (1.0 MPa)

* Only metal seal type is available for the high pressure type

Coil type

00	ii typo	
Nil	Standard	
T	With power saving circuit (Continuous duty type)	

- * Be sure to select the power saving circuit type when a valve is continuously energized for long periods of time.
- Note the specified energizing time when power saving circuit is selected

Rated voltage

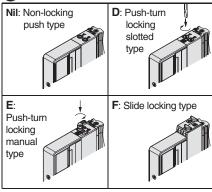
o Hal	ed voitage		
5		24 VDC	

9 Light/surge voltage suppressor and common specification

	unc	a common opcomoation
	R	With surge voltage suppressor (Non-polar)
	U	With light/surge voltage suppressor (Non-polar)
	S	With surge voltage suppressor (Positive common)
	Z	With light/surge voltage suppressor (Positive common)
1	NS	With surge voltage suppressor (Negative common)
	ΝZ	With light/surge voltage suppressor (Negative common)

* Only "Z" and "NZ" types are available for the product with power saving circuit. Select a valve from R, U, S or Z when the SI unit output polarity is Nil (Positive common). Select a valve from R, U, NS or NZ when the SI unit output polarity is N (Negative common).

Manual override

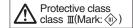


1 Type of mounting screw

1 171	
Nil	Round head combination screw
В	Hexagon socket head cap screw
K	Round head combination screw
r	(Falling-out-prevention type)
	Hexagon socket head cap screw
Н	(Falling-out-prevention type)

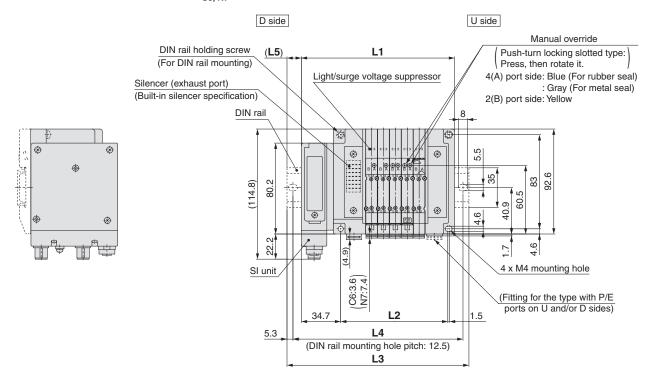
- * For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance etc.
- **When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of the base gasket and mounting screw.
- * "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly or double check spacer assembly with residual pressure release valve.

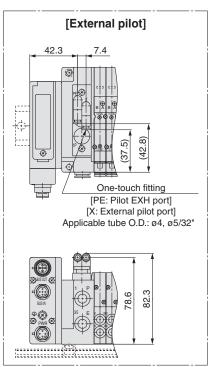
Refer to the SMC website or the SY3000/5000 series catalog (CAT.NAS11-103) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

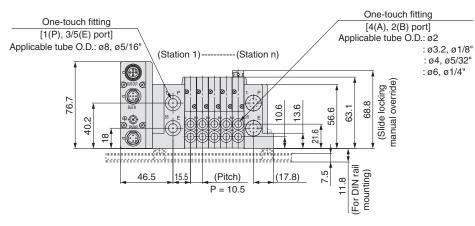


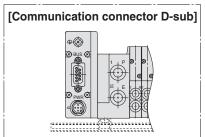


SS5Y3-10S \square -Stations $\stackrel{\mathsf{U}}{\underset{\mathsf{B}}{\mathsf{P}}}$ (S, R) $\stackrel{\mathsf{C2}}{\underset{\mathsf{C4}, \, \mathsf{N3}}{\mathsf{N3}}}$ (D)









Note) These figures show the "SS5Y3-10SQA-05D-C6".

n: stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	103.7	114.2	124.7	135.2	145.7	156.2	166.7	177.2	187.7	198.2	208.7	219.2	229.7	240.2	250.7	261.2	271.7	282.2	292.7	303.2	313.7	324.2	334.7
L2	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252	262.5	273	283.5	294
L3	135.5	148	148	160.5	173	185.5	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348	360.5
L4	125	137.5	137.5	150	162.5	175	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5	350
L5	16	17	11.5	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13

EX260

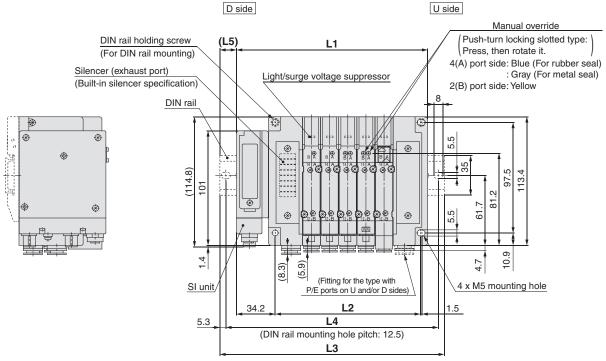
SY

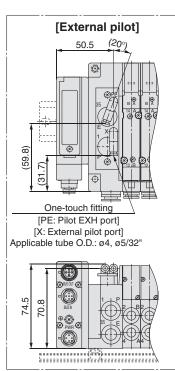
SV

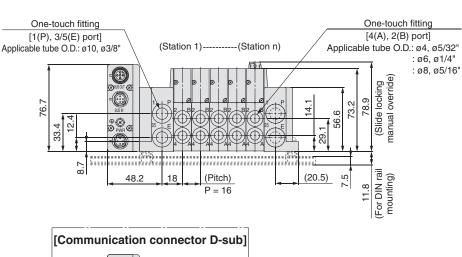
VQC

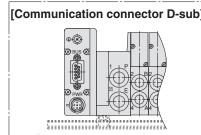
S0700

SS5Y5-10S \square -Stations $\stackrel{\mathsf{U}}{\underset{\mathsf{B}}{\mathsf{E}}}(\mathsf{S},\,\mathsf{R})$ - $\stackrel{\mathsf{C4},\,\mathsf{N3}}{\underset{\mathsf{C6},\,\mathsf{N9}}{\mathsf{N9}}}(\mathsf{D})$









Note) These figures show the "SS5Y5-10SQA-05D-C8".

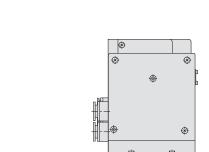
n: Station	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	120.7	136.7	152.7	168.7	184.7	200.7	216.7	232.7	248.7	264.7	280.7	296.7	312.7	328.7	344.7	360.7	376.7	392.7	408.7	424.7	440.7	456.7	472.7
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432
L3	148	160.5	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498
L4	137.5	150	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375	400	412.5	425	437.5	462.5	475	487.5
L5	13.5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	15	13.5	11.5	16	14.5	12.5

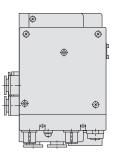
Series SY3000/5000

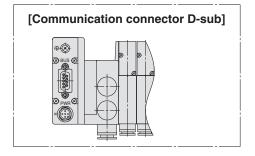
SS5Y5-11S \square -Stations $_{B}^{U}$ (S, R) - $_{C6, N7}^{C4, N3}$

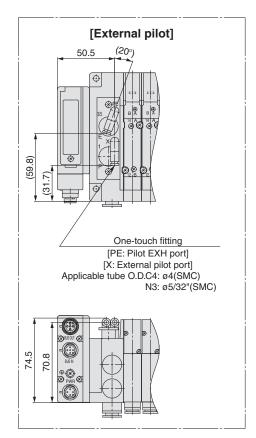
Dimensions: Type 11/For EX260/Series SY5000

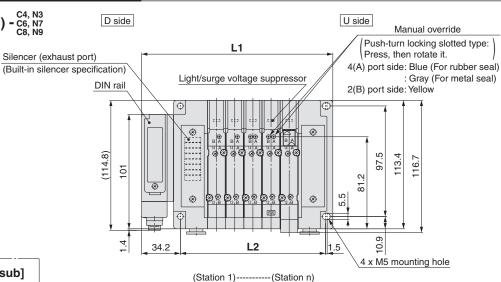
(mm)

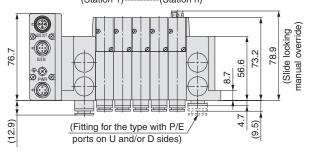


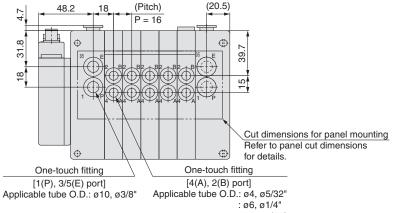




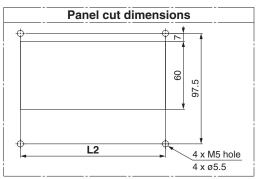








: ø8, ø5/16"



Note) These figures show the "SS5Y5-11SQA-05D-C8".

n: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	120.7	136.7	152.7	168.7	184.7	200.7	216.7	232.7	248.7	264.7	280.7	296.7	312.7	328.7	344.7	360.7	376.7	392.7	408.7	424.7	440.7	456.7	472.7
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432

Type 12
Top Ported

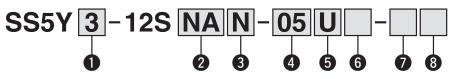
Plug-in Connector Connecting Base: For EX260 Integrated-type (For Output) Serial Transmission System

Series SY3000/5000



How to Order Manifold

Refer to pages 15, 16 for Type 12/Top ported dimensions.



1 Series

3	SY3000
5	SY5000

SI unit specifications

$\overline{}$									
Symbol	Protocol	Number of outputs	Communication						
,		outputs	Connector						
0	Without SI unit								
QA	DeviceNet™	32	M12						
QB	Devicemer	16	IVITZ						
NA		32	M12						
NB	PROFIBUS	16	IVITZ						
NC	DP	32	D-sub Note)						
ND		16	D-Sub (1818)						
VA	CC-Link	32	M12						
VB	OO-LIIK	16	IVITZ						
DA	EtherCAT	32	M12						
DB	LUIBIOAI	16	IVITZ						
FA	PROFINET	32	M12						
FB	INOPINE	16	IVITZ						
EA	EtherNet/IP™	32	M12						
EB	Luicinet/IF	16	IVIIZ						

Note) IP40 for the D-sub applicable communication connector specification.

For SI unit part number, refer to page 1. DIN rail and SI unit output polarity "N" cannot be selected for the product without SI unit.

3 SI unit output polarity

Nil	Positive common
N	Negative common

Note 1) Ensure a match with the common specifications of the valve to be used. Note 2) Without SI unit, the symbol is nil.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note	
02	2 stations		
	:	Double wiring Note 1)	
16	16 stations		
02	2 stations	On a sitilised Leaves at Note 2)	
:	:	Specified layout Note 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		
02	2 stations			
	:	Double wiring Note 1)		
08	8 stations			
02	2 stations	On a sitilis at the control Note 2)		
	:	Specified layout Note 2) (Available up to 16 solenoids)		
16	16 stations	(Available up to 16 soleriolus)		

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) 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.)

Note 3) Includes the number of blanking plate assemblies.

Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

5 P, E port entry

U Note)	U side (2 to 10 stations)
D Note)	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

Note) • For type "S", supply/exhaust block assembly with built-in silencer, choose U or D for P port entry.

6 SUP/EXH block assembly

Nil	Internal pilot		
S	Internal pilot, Built-in silencer		
R	External pilot		

- * For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

7 P, E port size (One-touch fittings)

Symbol	SY3000	SY5000	
Nil	ø8	ø10	
N	ø5/16"	ø3/8"	

^{*} For N, sizes are in inches.

8 Mounting

Nil	Direct mounting			
D	DIN rail mounting (With DIN rail)			
D0	DIN rail mounting (Without DIN rail)			
D3	For 3 stations	Specify a longer rail than the standard length.		
:	:			
D24	For 24 stations			

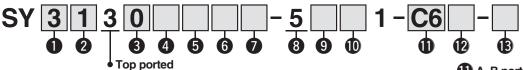
* When it is necessary to mount a DIN rail without an SI unit, select D0 and order DIN rail length separately, referring to L3 in the dimensions. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of DIN rail



Example (SS5Y3-12SNAN-2-position double (24 VDC) 2-position single (24 VDC) SS5Y3-12SNAN-04D 1 set (Type 12 4-station manifold base part no.) SY3230-5U1-C6 (1 set) SY3130-5U1-C6 (2 sets *SY3130-5U1-C6 2 sets (2-position single part no.) 3-position closed center (24 VDC) *SY3230-5U1-C6 1 set (2-position double part no.) SY3330-5U1-C6 (1 set) *SY3330-5U1-C6 1 set (3-position closed center part no.) * The asterisk denotes the symbol for assembly. * Prefix it to the part nos. of the valve, etc. • The valve arrangement is numbered as the 1st station from the D side. • Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure above. If the arrangement becomes complicated, specify on a manifold specification sheet. Manifold base (4 stations) SS5Y3-12SNAN-04D

How to Order Valves (With two mounting screws)

Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details on valve specifications.



Series

3	SY3000		
5	SY5000		

2 Type of actuation

1	2-position single		
2	2-position double		
3	3-position closed center		
4	3-position exhaust center		
5	3-position pressure center		
A*	4-position dual 3-port valve (N.C./N.C.)		
B*	4-position dual 3-port valve (N.O./N.O.)		
C*	4-position dual 3-port valve (N.C./N.O.)		

* Only rubber seal type is available for the 4-position dual 3-port valve.

Seal type

	71
0	Rubber seal
1	Metal seal

Pilot type

will reduce the flow.

Nil	Internal pilot
R	External pilot

Back pressure check valve (Built-in valve type)

Nil		None	
Н		Built-in	
* Only rubber seal type.			

- Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. Refer to the SY3000/5000 series catalog (CAT. NAS11-103) for details. However, it is not recommended to use the built-in valve type and the manifold installed type at the same time because it
- * The built-in valve type back pressure check valve is not available for the 3-position type.

Refer to the SMC website or the SY3000/5000 series catalog (CAT.NAS11-103) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

6 Pilot valve option

Nil	Standard (101 psi (0.7 MPa))
В	Quick response type (101 psi (0.7 MPa))
K*	High pressure type (145psi (1.0 MPa))

* Only metal seal type is available for the high pressure type.

Coil type

Nil	Standard
Т	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when a valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected.

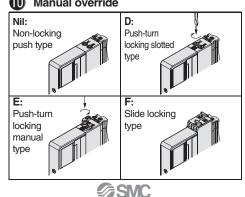
Rated voltage

5	24 VDC										
9 Ligi	nt/surge voltage suppressor and common cification										

R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

* Only "Z" and "NZ" types are available for the product with power saving circuit. Select a valve from R, U, S or Z when the SI unit output polarity is Nil (Positive common). Select a valve from R, U, NS or NZ when the SI unit output polarity is N (Negative common).

Manual override



A. B port size

Thread piping

Symbol	Port size	Applicable series
M5	M5 x 0.8	SY3000
01	1/8	SY5000

One-touch fitting (Metric)

Onc	toden nung (weute)		
Symbol	A and B port	SY3000	SY5000
C2	ø2 One-touch fitting	•	
C3	ø3.2 One-touch fitting	•	_
C4	ø4 One-touch fitting	•	•
C6	ø6 One-touch fitting	•	•
C8	ø8 One-touch fitting	_	•

One-touch fitting (Inch)

Symbol	A and B port	SY3000	SY5000
N1	ø1/8" One-touch fitting	•	_
N3	ø5/32" One-touch fitting	•	•
N7	ø1/4" One-touch fitting	•	•
N9	ø5/16" One-touch fitting	_	•

Thread type

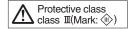
Nil	Rc
F	G
N	NPT
Т	NPTF

* Only Nil is available for M5.

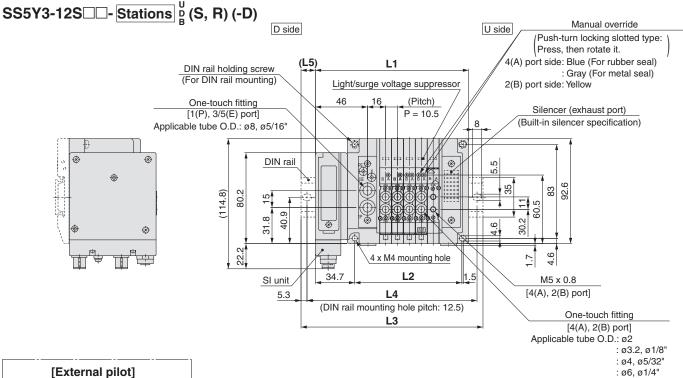
Type of mounting screw

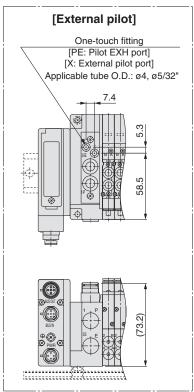
	3
Nil	Round head combination screw
В	Hexagon socket head cap screw
K	Round head combination screw(Falling-out-prevention type)
Н	Hexagon socket head cap screw(Falling-out-prevention type)

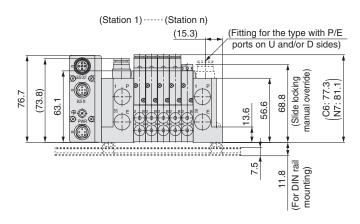
- * For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance etc.
- * When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of the base gasket and mounting screw.
- "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly.

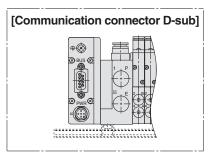


Dimensions: Type 12/For EX260/Series SY3000







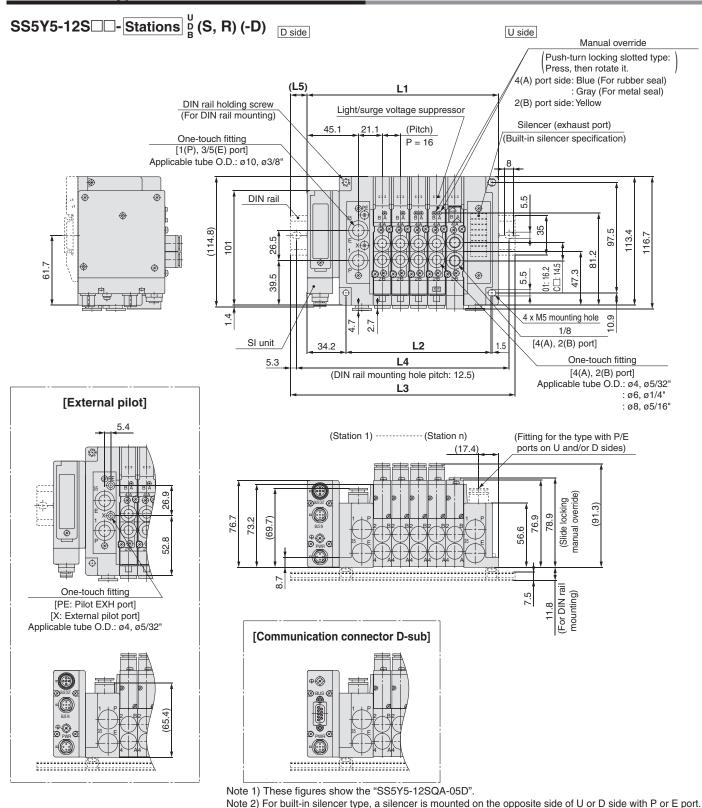


Note 1) These figures show the "SS5Y3-12SQA-05D".

Note 2) For built-in silencer type, a silencer is mounted on the opposite side of U or D side with P or E port.

n:Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	103.7	114.2	124.7	135.2	145.7	156.2	166.7	177.2	187.7	198.2	208.7	219.2	229.7	240.2	250.7	261.2	271.7	282.2	292.7	303.2	313.7	324.2	334.7
L2	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252	262.5	273	283.5	294
L3	135.5	148	148	160.5	173	185.5	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348	360.5
L4	125	137.5	137.5	150	162.5	175	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5	350
L5	16	17	11.5	12.5	13.5	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13

EX260



n:Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	120.7	136.7	152.7	168.7	184.7	200.7	216.7	232.7	248.7	264.7	280.7	296.7	312.7	328.7	344.7	360.7	376.7	392.7	408.7	424.7	440.7	456.7	472.7
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432
L3	148	160.5	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498
L4	137.5	150	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375	400	412.5	425	437.5	462.5	475	487.5
L5	13.5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	15	13.5	11.5	16	14.5	12.5

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base: Plug-in Mixed Mounting Type Manifold For EX260 Integrated-type (For Output)

Serial Transmission System

Series **SY3000/5000**

(E

SY3000 can be mounted onto SY5000 size manifold.

How to Order Manifold

Refer to page 20 for Type 11/ Bottom ported dimensions. SS5Y5 - M 10 S NA N - 05 U - C 8 6

Mixed Mounting Type

ize valves on all stardors.

Will be proved on all stardors.

Will be proved on all stardors.

It is possible to mount SY3000 size valves on all stations. In this case, there is no need to fill in part ① in the order code. However, the manifold block width should be 12.5 mm.

1 Type

10	Side ported
11	Bottom ported

SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector
0	Without SI unit		t
QA	DeviceNet™	32	M12
QB	Devicemet	16	IVITZ
NA		32	M12
NB	PROFIBUS	16	IVITZ
NC	DP	32	DI- Note)
ND		16	D-sub Note)
VA	CC-Link	32	M12
VB		16	IVIIZ
DA	EtherCAT	32	M12
DB	EllierCAT	16	IVIIZ
FA	PROFINET	32	M12
FB	FNOFINET	16	IVI 12
EA	EtherNet/IP™	32	M12
EB	Elleliverie	16	IVITZ

Note) IP40 for the D-sub applicable communication connector specification. For SI unit part number, refer to page 1.

DIN rail and SI unit output polarity "N" cannot be selected for the product without SI unit.

3 SI unit output polarity

Nil	Positive common
N	Negative common

Note 1) Ensure a match with the common specifications of the valve to be used. Note 2) Without SI unit, the symbol is nil.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
16	16 stations	_
02	2 stations	O
:	:	Specified layout Note 2)
24	24 stations	(Available up to 32 solenoids)

In the case of the 16-output SI unit

Symbol	Stations	Note	
02	2 stations		
÷	:	Double wiring Note 1)	
08	8 stations		
02	2 stations	Specified layout Note 2) (Available up to 16 solenoids)	
:	÷		
16	16 stations		

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold stations

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

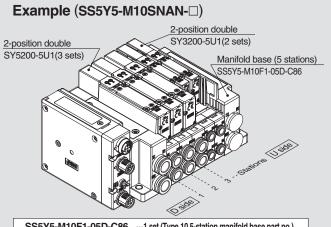
Note 2) Specified layout: Indicate the wiring specifications on the manifold specification sheet.

(Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) Includes the number of blanking plate assemblies.

Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

How to Order Manifold Assembly



*The asterisk denotes the symbol for assembly.
*Prefix it to the part nos. of the valve, etc.

- The valve arrangement is numbered as the 1st station from the D side.
- Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure above.

If the arrangement becomes complicated, then indicate on the manifold specification sheet.

Note) When mounting top ported valves, select from page 21. In this case, use caution as there is also output on the A and B port on base side.

Specify on a manifold specification sheet if plugs are required on the A and B port on base side.

5 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

6 SUP/EXH block assembly

Nil	Internal pilot	
S	Internal pilot, Built-in silencer	
R	External pilot	

- * 3/5(E) port is plugged for the built-in silencer type.
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

Refer to the page on the right for 7,8,9

Mounting and Option

Symbol	Mounting	Option
Nil	Direct mounting	None
AA		Name plate (With station number)
BA		Name plate (Without station number)
D□	DIN rail mounting	Without name plate
A□		Name plate (With station number)
В□		Name plate (Without station number)

Note 1) Enter the number of stations inside \square .

(Refer to "DIN Rail Option" below.)

Note 2) Only direct mounting is available for Type 11 (Bottom ported).

DIN Rail Option

Nil	Standard length	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified
:	:	stations. [The SY5000 valve is now at a mountable length
24	For 24 stations	(manifold block length of 16 mm).]

* When it is necessary to mount a DIN rail without an SI unit, select D0 and calculate DIN rail length, referring to L3 in the dimensions on page 19.



Fitting type

Symbol	A, B port	
С	Metric size: Straight one-touch fitting	
L	Metric size: Elbow one-touch fitting for upward Note)	
В	Metric size: Elbow one-touch fitting for downward Note)	
N	Inch size: Straight one-touch fitting	
LN	Inch size: Elbow one-touch fitting for upward Note)	
BN	Inch size: Elbow one-touch fitting for downward Note)	
CM*	Straight port, mixed sizes	
LM*	Elbow port, mixed sizes (Including upward and downward piping) Note)	

Note) To avoid interference with the body or piping, select downward elbow port when mounting the optional spacer assembly.

- * Indicate the sizes on the manifold specification sheet in the case of "CM", "LM".
- * The direction of P, E port fittings is the same as for A,B port. If selecting "LM", indicate it on the manifold specification sheet for the P, E port fitting direction.
- * Elbow fittings: ø2, ø3.2 and ø1.8" are not available for the SY3000 series. ø2, ø3.2, ø1.8" and ø5/32" are not available for the SY5000 series.

8 SY5000: A, B port size

(Metric)

Symbol	Port size
4	ø4 One-touch fitting
6	ø6 One-touch fitting
8	ø8 One-touch fitting
Nil	For all stations of SY3000

(Inch)

Symbol	Port size
3	ø5/32" One-touch fitting
7	ø1/4" One-touch fitting
9	ø5/16" One-touch fitting
Nil	For all stations of SY3000

* No symbol needs to be specified when fitting type "CM", "LM" is selected.

(Inch)

9 SY3000: A, B port size

(Metric)

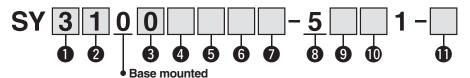
Port size
ø2 One-touch fitting
ø3.2 One-touch fitting
ø4 One-touch fitting
ø6 One-touch fitting

(IIICII)		
Symbol	Port size	
1	ø1/8" One-touch fitting	
3	ø5/32" One-touch fitting	
7	ø1/4" One-touch fitting	

* No symbol needs to be specified when fitting type "CM", "LM" is selected.

How to Order Valves (With two mounting screws)

Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details on valve specifications.



Series

	3	SY3000
	5	SY5000

2 Type of actuation

1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
A *	4-position dual 3-port valve (N.C./N.C.)	
B*	4-position dual 3-port valve (N.O./N.O.)	
C*	4-position dual 3-port valve (N.C./N.O.)	

* Only rubber seal type is available for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pilot type

Nil	Internal pilot
R	External pilot

Back pressure check valve (Built-in valve type)

Nil	None
Н	Built-in

- * Only rubber seal type. Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details. However, it is not recommended to use the built-in valve type and the manifold installed type at the same time because it will reduce the flow.
- * The built-in valve type back pressure check valve is not available for the 3-position type.

6 Pilot valve option

Nil	Standard (101 psi (0.7 MPa))
В	Quick response type (101 psi (0.7 MPa))
K* High pressure type (145 psi (1.0 MPa))	

* Only metal seal type is available for the high pressure type.

Coil type

Nil	Standard	
Т	With power saving circuit (Continuous duty type)	

- * Be sure to select the power saving circuit type when a valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected.

8 Rated voltage

24 VDC

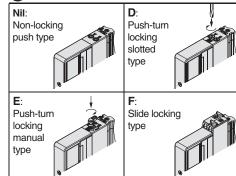
9 Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)	
R	With surge voltage suppressor (Non-polar)	
U	With light/surge voltage suppressor (Non-polar)	
S	With surge voltage suppressor (Positive common)	
Z	With light/surge voltage suppressor (Positive common)	
NS	With surge voltage suppressor (Negative common)	
NZ	With light/surge voltage suppressor (Negative common)	

* Only "Z" and "NZ" types are available for the product with power saving circuit. Select a valve from R, U, S or Z when the SI unit output polarity is Nil (Positive common).

Select a valve from R, U, NS or NZ when the SI unit output polarity is N (Negative common).

Manual override



Type of mounting screw

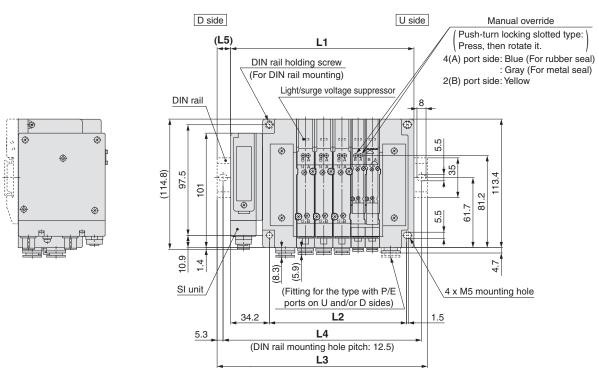
Type of mounting colon		
Nil Round head combination screw B Hexagon socket head cap screw		Round head combination screw
		Hexagon socket head cap screw
	K	Round head combination screw (Falling-out-prevention type)
	Н	Heyagon socket head can screw (Falling-out-prevention type)

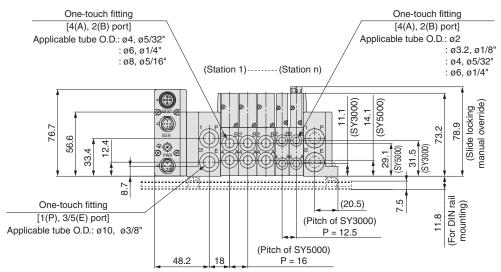
- * For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance
- * When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service.
- Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of the base gasket and mounting screw.
- * "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly or double check spacer assembly with residual pressure release valve.

Refer to the SMC website or the SY3000/5000 series catalog (CAT.NAS11-103) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.



SS5Y5-M10S \square -Stations $\stackrel{\cup}{p}$ (-D)





Note 1) These figures show the "SS5Y5-M10SQA-05D-C86".

Note 2) Refer to page 10 for dimensions of D-sub communication connector, external pilot and built-in silencer.

EX260 Serial transmission Calculation of dimensions

L1 = $12.5 \times n1 + 16 \times n2 + 88.7$

L2 = 12.5 x n1 + 16 x n2 + 48

 \mathbf{M} = L1/12.5 + 1 Remove all numbers after the decimal

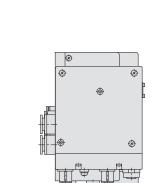
 $L3 = 12.5 \times M + 23$

L4 = L3 - 10.5

L5 = (L3 - L1)/2

n1: SY3000 Valve stations n2: SY5000 Valve stations





Panel cut dimensions

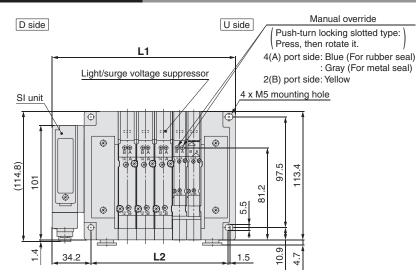
L2

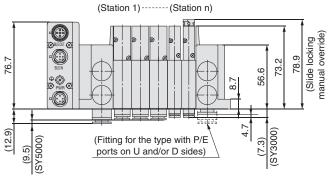
97.5

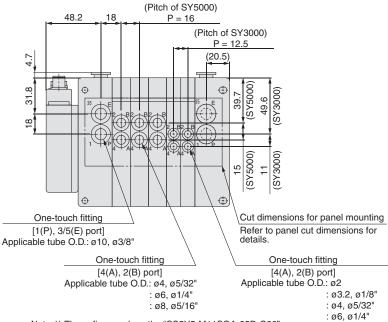
4 x M5 hole

4 x ø5.5

SS5Y5-M11S - Stations







Note 1) These figures show the "SS5Y5-M11SQA-05D-C86".

Note 2) Refer to page 11 for dimensions of D-sub communication connector, external pilot and built-in silencer.

EX260 Serial transmission Calculation of dimensions **L1** = $12.5 \times n1 + 16 \times n2 + 88.7$ **L2** = $12.5 \times n1 + 16 \times n2 + 48$

n1: SY3000 Valve stations n2: SY5000 Valve stations



Plug-in Connector Connecting Base: Plug-in Mixed MountingType Manifold For EX260 Integrated-type (For Output)

Serial Transmission System

Type 12

Series SY3000/5000



SY3000 can be mounted onto SY5000 size manifold.

How to Order Manifold

Refer to page 23 for Type 12/ Top ported dimensions.

SS5Y5 - M12S | NA | N |

Mixed Mounting Type

It is possible to mount SY3000 size valves on all stations. However, the manifold block width should be 12.5 mm.

SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector
0	Without SI unit		it
QA	DeviceNet™	32	M12
QB	Deviceriei	16	IVIIZ
NA		32	M12
NB	PROFIBUS	16	IVI IZ
NC	DP	32	D I- Noto)
ND		16	D-sub Note)
VA	CC-Link	32	M12
VB	CC-LINK	16	IVI IZ
DA	EtherCAT	32	M12
DB	ElherCAT	16	IVI IZ
FA	PROFINET	32	M12
FB		16	IVITZ
EA	EtherNet/IP™	32	M12
EB		16	IVITZ

Note) IP40 for the D-sub applicable communication connector specification.

For SI unit part number, refer to page 1. DIN rail and SI unit output polarity "N" cannot be selected for the product without SI unit.

SI unit output polarity

Nil	Positive common
N	Negative common

Note 1) Ensure a match with the common specifications of the valve to be used. Note 2) Without SI unit, the symbol is nil.

3 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
16	16 stations	-
02	2 stations	O
:	:	Specified layout Note 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
02	2 stations	
:	:	Double wiring Note 1)
80	8 stations	_
02	2 stations	On a sife at Lawrent Note 2)
:	:	Specified layout Note 2) (Available up to 16 solenoids)
16	16 stations	(Available up to 16 soleriolds)

Note 1) Double wiring: 2-position single, double, 3-position and 4-position valves can be used on all manifold

Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout

Note 2) 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

Note 3) Includes the number of blanking plate assemblies.

Note 4) For the model without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

How to Order Manifold Assembly

Example (SS5Y5-M12SNAN) 2-position double 2-position double SY3230-5U1-C6(2 sets) SY5230-5U1-C8 (3 sets) Manifold base (5 stations) SS5Y5-M12F1-05D

SS5Y5-M12F1-05D······1 set (Type M12 5-station manifold base part no.)

- * SY5230-5U1-C8·······3 sets (2-position double part no.)
- * SY3230-5U1-C6.....2 sets (2-position double part no.)
 - The asterisk denotes the symbol for assembly. * Prefix it to the part nos. of the valve, etc.
- The valve arrangement is numbered as the 1st station from the D side.
- Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure above. If the arrangement becomes complicated, specify on a manifold specification sheet.

P, E port entry

U Note)	U side (2 to 10 stations)
D Note)	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

Note) For type "S", supply/exhaust block assembly with built-in silencer, choose U or D for P port entry.

5 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

- * For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of P, E port entry. (Example: When the P, E port entry is D side, the silencer exhaust port is U side.)
- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

6 P, E port size (One-touch fittings)

ſ	Nil	ø10
	N	ø3/8"

* For N, sizes are in inches.

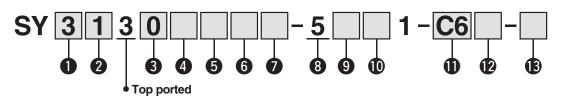
Mounting

Nil	Nil Direct mounting	
DIN rail mounting (With		DIN rail mounting (With DIN rail)
D0		DIN rail mounting (Without DIN rail)
D3	For 3 stations	Specify a longer rail than the standard length.
:	:	The SY5000 valve is now at a mountable length
D24	For 24 stations	(manifold block length of 16 mm).]

* When it is necessary to mount a DIN rail without an SI unit, select D0 and order DIN rail length separately, referring to L3 in the dimensions. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of DIN rail.



Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details on valve specifications.



Series

3	SY3000
5	SY5000

2 Type of actuation

1	2-position single	
2	2-position double	
3	3-position closed center	
4	3-position exhaust center	
5	3-position pressure center	
\mathbf{A}^*	4-position dual 3-port valve (N.C./N.C.)	
B *	4-position dual 3-port valve (N.O./N.O.)	
C*	4-position dual 3-port valve (N.C./N.O.)	

* Only rubber seal type is available for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pilot type

Nil	Internal pilot
R	External pilot

Back pressure check valve (Built-in valve type)

	· · ·
Nil	None
Н	Built-in

* Only rubber seal type.

Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for details. However, it is not recommended to use the built-in valve type and the manifold installed type at the same time because it will reduce the flow.

 \ast The built-in valve type back pressure check valve is not available for the 3-position type.

6 Pilot valve option

	•
Nil	Standard (101 psi (0.7 MPa))
В	Quick response type (101 psi (0.7 MPa))
K*	High pressure type (145 psi (1.0 MPa))

* Only metal seal type is available for the high pressure type.

Coil type

	7.
Nil	Standard
T	With power saving circuit (Continuous duty type)

- * Be sure to select the power saving circuit type when a valve is continuously energized for long periods of time.
- * Note the specified energizing time when power saving circuit is selected.

8 Rated voltage

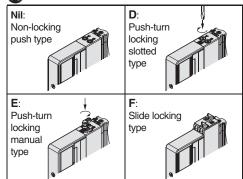
-	041/100
. o	24 VDC
	_

9 Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)	
R	With surge voltage suppressor (Non-polar)	
U	With light/surge voltage suppressor (Non-polar)	
S	With surge voltage suppressor (Positive common)	
Z	With light/surge voltage suppressor (Positive common)	
NS	With surge voltage suppressor (Negative common)	
NZ	With light/surge voltage suppressor (Negative common)	

* Only "Z" and "NZ" types are available for the product with power saving circuit. Select a valve from R, U, S or Z when the SI unit output polarity is Nil (Positive common). Select a valve from R, U, NS or NZ when the SI unit output polarity is N (Negative common).

Manual override



(I) A, B port size

Thread piping

Symbol	Port size	Applicable series		
M5	M5 x 0.8	SY3000		
01	1/8	SY5000		

One-touch fitting (Metric)

Symbol A and B port SY3000 SY5000 C2 Ø2 One-touch fitting — C3 Ø3.2 One-touch fitting — C4 Ø4 One-touch fitting — C6 Ø6 One-touch fitting —				
C3 Ø3.2 One-touch fitting ● C4 Ø4 One-touch fitting ● C6 Ø6 One-touch fitting ●	Symbol	A and B port	SY3000	SY5000
C4 ø4 One-touch fitting • • • • • • • • • • • • • • • • • • •	C2	ø2 One-touch fitting	•	_
C6 ø6 One-touch fitting ● ●	C3	ø3.2 One-touch fitting	•	_
	C4	ø4 One-touch fitting	•	•
CO Commanda Citibera	C6	ø6 One-touch fitting	•	•
Ø8 One-touch fitting —	C8	ø8 One-touch fitting	_	•

One-touch fitting (Inch)

	<u> </u>				
Symbo	A and B port	SY3000	SY5000		
N1	ø1/8" One-touch fitting	•	_		
N3	ø5/32" One-touch fitting	•	•		
N7	ø1/4" One-touch fitting	•	•		
N9	ø5/16" One-touch fitting	_	•		

12 Thread type

	· ·
Nil	Rc
F	G
N	NPT
T	NPTF

* Only Nil is available for M5.

13 Type of mounting screw

Nil	Round head combination screw		
В	Hexagon socket head cap screw		
K	Round head combination screw (Falling-out-prevention type)		
Н	Hexagon socket head cap screw (Falling-out-prevention type)		

- * For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance etc.
- * When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service. Refer to the SY3000/5000 series catalog (CAT.NAS11-103) for part numbers of base gasket and mounting screw.
- * "B" and "H" cannot be selected for the individual SUP/EXH spacer assembly.

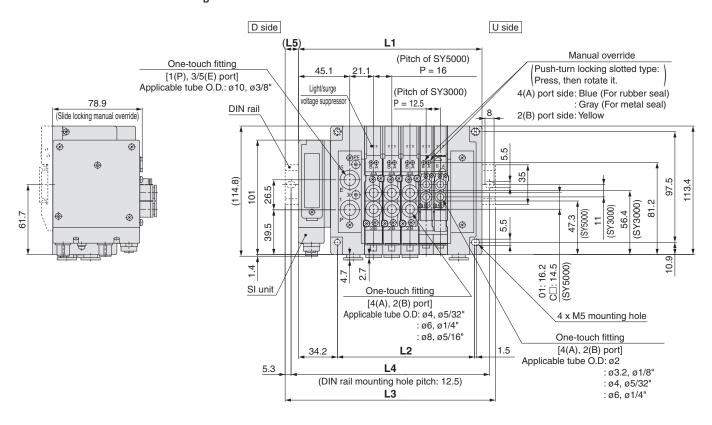
Refer to the SMC website or the SY3000/5000 series catalog (CAT.NAS11-103) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

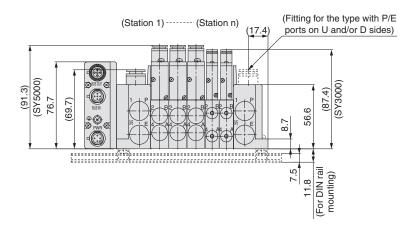


Dimensions: Type 12/Mixed Mounting Type

(mm)

SS5Y5-M12S - Stations (-D)





Note 1) These figures show the "SS5Y5-M12SQA-05D".

Note 2) Refer to page 16 for dimensions of D-sub communication connector, external pilot and built-in silencer.

EX260 Serial transmission Calculation of dimensions

L1 = $12.5 \times n1 + 16 \times n2 + 88.7$

 $L2 = 12.5 \times n1 + 16 \times n2 + 48$

 $\mathbf{M} = L1/12.5 + 1$ Remove all numbers after the decimal.

 $L3 = 12.5 \times M + 23$

L4 = L3 - 10.5

L5 = (L3 - L1)/2

n1: SY3000 Valve stations

n2: SY5000 Valve stations

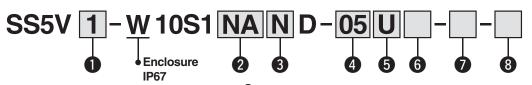


Tie-rod Base: For EX260 Integrated-type (For Output) Serial Transmission System

Series SV



How to Order Manifold



*Refer to Note 1) of the 2 SI unit specifications.

Series

1	SV1000
2	SV2000
3	SV3000

2 SI unit specifications

Symbol	Protocol	Number of outputs	Communication connector
0	V	/ithout SI ur	nit
QA	DeviceNet™	32	M12
QB	Devicerver	16	IVIIZ
NA		32	M12
NB	PROFIBUS	16	IVIIZ
NC	DP	32	D-sub Note 1)
ND		16	D-Sub Note 17
VA	CC-Link	32	M12
VB	OO-LIIK	16	IVIIZ
DA	EtherCAT	32	M12
DB	EllielCAT	16	IVIIZ
FA	PROFINET	32	M12
FB	FNOFINET	16	IVI I Z
EA	EtherNet/IP™	32	M12
EB	Ellelivel/IP····	16	IVI I Z

• DIN rail cannot be selected for the product without SI unit.

Note 1) IP40 for the D-sub applicable communication connector specification. (The manifold part number is "SS5VD-10S1NC/NDDD".)

Note 2) For SI unit part number, refer to page 1.

4 Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	
:	÷	Double wiring Note 1)
16	16 stations	_
02	2 stations	Specified layout Note 2) (Available up to 32 solenoids
:	:	
20	20 stations	

In the case of the 16-output SI unit

Symbol	Stations	Note	
02	2 stations		
:	÷	Double wiring Note 1)	
08	8 stations		
02	2 stations	On a sitiliar I I are at Note 2)	
:	÷	Specified layout Note 2) (Available up to 16 solenoids	
16	16 stations	(Available up to 16 soleriolds	

Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all manifold stations.

Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification

(Note that double, 3-position and 4- position valves cannot be used where single solenoid wiring has been specified.)

Note 3) Includes the number of blanking plate assemblies.

5 P, E port entry

	<u> </u>	1
	U	U side (2 to 10 stations)
	D	D side (2 to 10 stations)
ſ	В	Both sides (2 to 20 stations)

6 SUP/EXH block assembly

Nil	Internal pilot
S Note)	Internal pilot, Built-in silencer
R	External pilot
RS Note)	External pilot, Built-in silencer

Note) When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

8 Mounting

Nil Direct mounting			
D	Birtrain mounting (That Birtrain)		
D0			
D3	For 3 stations	When a longer DIN rail is desired than the	
÷	:	specified stations. (Specify a longer rail	
D20	For 20 stations	than the standard length.)	

SI unit output polarity

9 0, 0	and output polarity
Nil	Positive common
N	Negative common

Note) Without SI unit, the symbol is nil.

A. B port size (Metric)

A, B port size (Metric)					
Symbol	A, B port	P, E port	Applicable series		
C3	ø3.2 One-touch fitting	~0	SV1000		
C4	ø4 One-touch fitting	ø8 One-touch fitting			
C6	ø6 One-touch fitting	One-touch litting			
C4	ø4 One-touch fitting	ø10 One-touch fitting	SV2000		
C6	ø6 One-touch fitting				
C8	ø8 One-touch fitting	One-touch litting			
C6	ø6 One-touch fitting	~10			
C8	ø8 One-touch fitting	ø12 One-touch fitting	SV3000		
C10	ø10 One-touch fitting	One-touch litting			
M	A, B ports mixed				

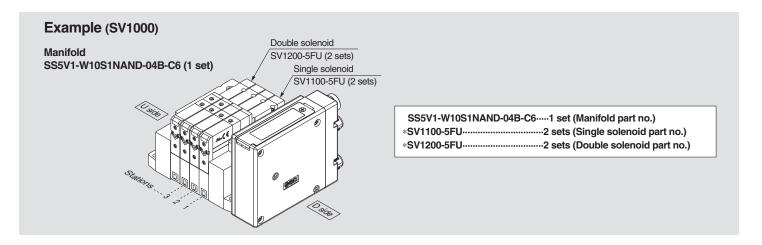
A, B port size (Inch)

Symbol	A, B port	P, E port	Applicable series
N1	ø1/8" One-touch fitting	ø5/16"	SV1000
N3	ø5/32" One-touch fitting	One-touch fitting	
N7	ø1/4" One-touch fitting	One-touch litting	
N3	ø5/32" One-touch fitting	~2/0"	
N7	ø1/4" One-touch fitting	ø3/8" One-touch fitting	SV2000
N9	ø5/16" One-touch fitting	One-touch litting	
N7	ø1/4" One-touch fitting	~0/0!!	
N9	ø5/16" One-touch fitting	ø3/8" One-touch fitting	SV3000
N11	ø3/8" One-touch fitting	One-touch litting	
M	A, B ports mixed		

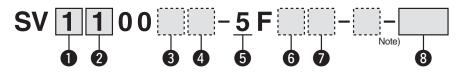
* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

^{*} The X and PE port size of External pilot type (R, RS) are ø4 (mm) or ø5/32" (inch) for the SV1000/2000 series, and ø6 (mm) or ø1/4" (inch) for the SV3000 series.

How to Order Manifold Assembly



How to Order Valves



1 Series

1	SV1000
2	SV2000
3	SV3000

2 Type of actuation

$\overline{}$	7.
1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	4-position dual 3-port valve: N.C./N.C.
В	4-position dual 3-port valve: N.O./N.O.
С	4-position dual 3-port valve: N.C./N.O.

^{* 4-}position dual 3-port valves are applicable to the SV1000/2000 series only.

3 Pilot type

<u> </u>	7. 1) 0
Nil	Internal pilot
R	External pilot

^{*} External pilot specification is not available for 4-position dual 3-port valves.

4 Back pressure check valve

Nil	None
K	Built-in

- * Built-in back pressure check valve type is applicable to the SV1000 series only.
- * Back pressure check valve is not available for 3-position valve.

Note) Refer to Specific Product Precautions 2 in Best Pneumatics No. 1.

5 Rated voltage

O Hat	ca voltago
5	24 VDC

6 Light/surge voltage suppressor

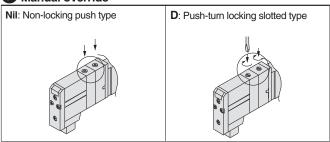
_	_	0 0 11	
U		With light/surge voltage suppressor	
R	П	With surge voltage suppressor	

Note) Available with manifold block for station additions. Refer to Best Pneumatics No. 1.

8 Made to Order

Nil	_
X90	Main valve fluororubber
ASU	(Refer to page 448 in Best Pneumatics No. 1.)

A	Manual	override
v	Ivialiual	overnue



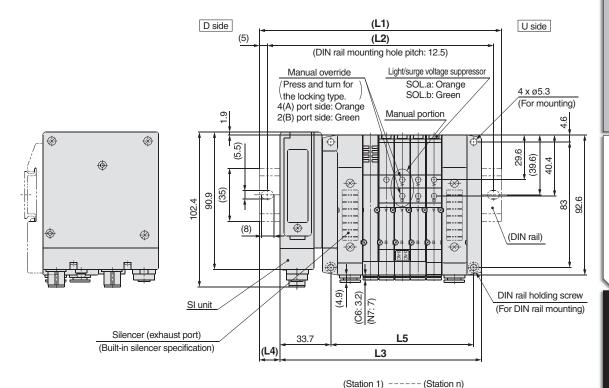
Refer to the SMC website or the SV series in Best Pneumatics No.1 for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

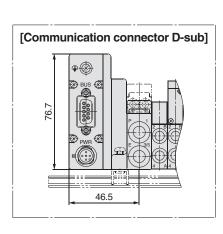


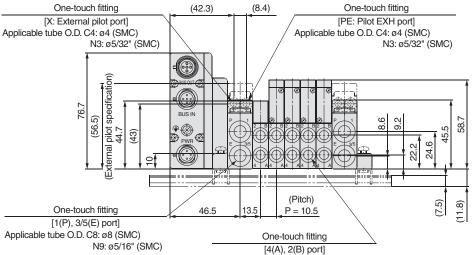
Dimensions: For EX260 Integrated-type (For Output) Serial Transmission System/Series SV1000

● Tie-rod base manifold: SS5V1-W10S1□□D - Stations D (S, R, RS)- C4, N3 (-D)

- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.







Applicable tube O.D. C3: ø3.2 (SMC)

C4: ø4 (SMC) C6: ø6 (SMC) N1: ø1/8" (SMC)

N3: ø5/32" (SMC) N7: ø1/4" (SMC)

L: DIN Rail Overall Length

L: DIN	: DIN Rail Overall Length																		
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	135.5	148	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323
L2	125	137.5	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	262.5	275	287.5	300	312.5
L3	102.2	112.7	123.2	133.7	144.2	154.7	165.2	175.7	186.2	196.7	207.2	217.7	228.2	238.7	249.2	259.7	270.2	280.7	291.2
L4	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16	17	12	13	14	15	16
L5	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252



Series SV

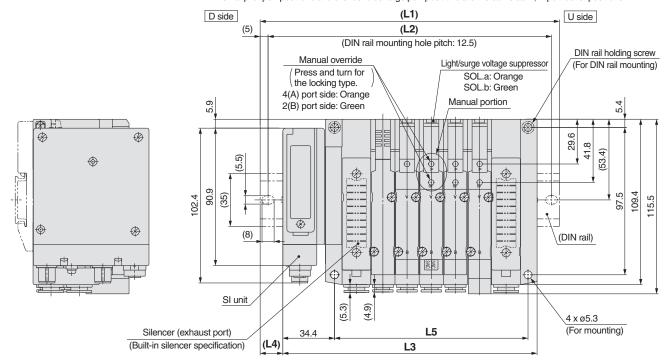
Dimensions: For EX260 Integrated-type (For Output) Serial Transmission System/Series SV2000

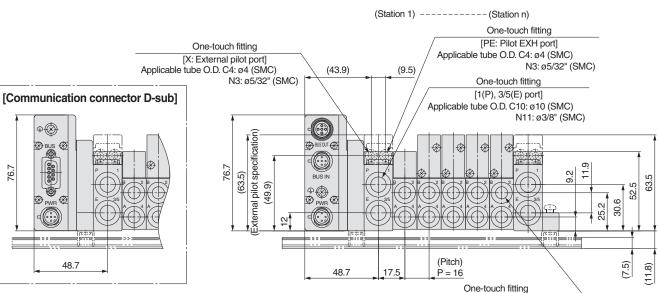
● Tie-rod base manifold: SS5V2-W10S1□□D-Stations DO (S, R, RS)-

• When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

(mm)

• External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.





[4(A), 2(B) port] Applicable tube O.D. C4: ø4 (SMC)

> C6: ø6 (SMC) C8: Ø8 (SMC) N3: ø5/32" (SMC) N7: Ø1/4" (SMC) N9: ø5/16" (SMC)

L: DIN Rail Overall Length

48.7

₽█

⊗ Bus ⊗

76.7

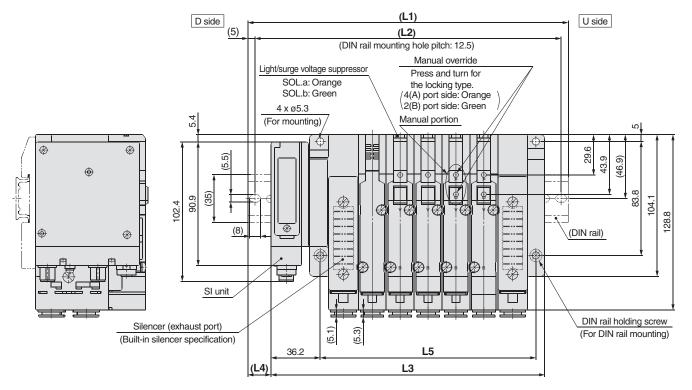
n: Stations n 2 3 4 7 11 5 6 8 9 10 12 13 14 15 16 19 17 18 20 L1 148 160.5 185.5 198 210.5 235.5 248 260.5 273 298 310.5 323 335.5 360.5 373 385.5 410.5 423 435.5 L2 137.5 150 175 187.5 200 225 237.5 250 262.5 287.5 300 312.5 325 350 362.5 375 400 412.5 425 L3 120.2 136.2 152.2 168.2 184.2 200.2 216.2 232.2 248.2 264.2 280.2 296.2 312.2 328.2 344.2 360.2 376.2 392.2 408.2 L4 14 12 16.5 15 13 17.5 16 14 12.5 17 15 13.5 11.5 16 14.5 12.5 17 15.5 13.5 L5 112 128 144 160 176 192 208 240 272 320 352 368

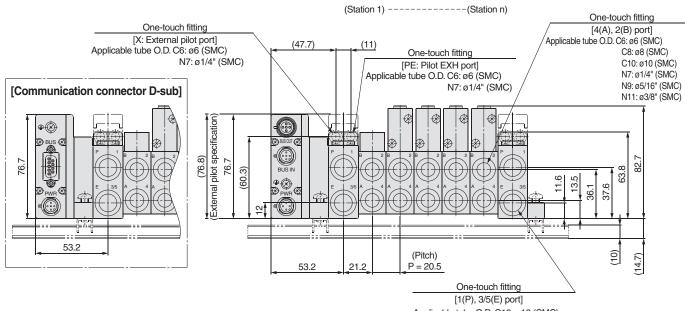
(mm)

Dimensions: For EX260 Integrated-type (For Output) Serial Transmission System/Series SV3000

● Tie-rod base manifold: SS5V3-W10S1□□D-Stations B (S, R, RS)-C6, N7 (C8, N9 C10, N11 (-D)

- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.





Applicable tube O.D. C12: Ø12 (SMC) N11: ø3/8" (SMC)

L: DIN	:: DIN Rail Overall Length n: Stations																		
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	173	185.5	210.5	235.5	248	273	298	310.5	335.5	348	373	398	410.5	435.5	460.5	473	498	523	535.5
L2	162.5	175	200	225	237.5	262.5	287.5	300	325	337.5	362.5	387.5	400	425	450	462.5	487.5	512.5	525
L3	139.7	160.2	180.7	201.2	221.7	242.2	262.7	283.2	303.7	324.2	344.7	365.2	385.7	406.2	426.7	447.2	467.7	488.2	508.7
L4	16.5	12.5	15	17	13	15.5	17.5	13.5	16	12	14	16.5	12.5	14.5	17	13	15	17.5	13.5
L5	97	117.5	138	158.5	179	199.5	220	240.5	261	281.5	302	322.5	343	363.5	384	404.5	425	445.5	466

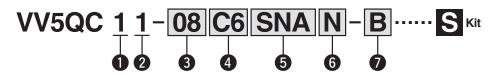


Plug-in Unit: For EX260 Integrated-type (For Output) **Serial Transmission System**

Series VQC1000



How to Order Manifold



Series

VQC1000

2 Manifold model

Plug-in unit

3 Stations

In the case of the 32-output SI unit

Symbol	Stations	Note			
02	2 stations				
:	i :	Double wiring Note 1)			
12	12 stations	-			
02	2 stations	O (C LI L Note 2)			
- :	:	Specified layout Note 2)			
24	24 stations	(Available up to 24 solenoids)			

In the case of the 16-output SI unit

Symbol	Stations	Note				
02	2 stations					
:	:	Double wiring Note 1)				
08	8 stations					
02	2 stations	O 'C' II I Note 2)				
:	:	Specified layout Note 2) (Available up to 16 solenoids)				
16	16 stations	(Available up to 16 soleriolds)				

Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all manifold stations.

Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) 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.)

Note 3) Includes the number of blanking plate assemblies.

Cylinder port size

C3	With ø3.2 One-touch fitting							
C4	With ø4 One-touch fitting							
C6	With ø6 One-touch fitting							
M5	M5 thread							
CM	Mixed sizes and with port plug							
L3	Top ported elbow with ø3.2 One-touch fitting							
L4	Top ported elbow with ø4 One-touch fitting							
L6	Top ported elbow with ø6 One-touch fitting							
L5	M5 thread							
В3	Bottom ported elbow with ø3.2 One-touch fitting							
B4	Bottom ported elbow with ø4 One-touch fitting							
В6	Bottom ported elbow with ø6 One-touch fitting							
B5	M5 thread							
LM	Elbow port, mixed sizes							
MM Note2)	Mixed size for different types of piping, option installed							

Note 1) Indicate the sizes on the manifold specification sheet in the case of "CM", "LM".

Note 2) When selecting the mixed size for different types of piping or dual flow fitting assembly, enter "MM" and give instructions in the manifold specification sheet.

Note 3) Symbols for inch sizes are as follows:

- N1: ø1/8"
- N3: ø5/32"
- N7: ø1/4"
- NM: Mixed

The top ported elbow is LN $\!\square$ and the bottom ported elbow is BN□.

6 SI unit output polarity

Nil	Positive common
N	Negative common

Option

Nil	None					
В	With back pressure check valve (All stations) Note 2)					
D	With DIN rail (Rail length: Standard)					
D□	With DIN rail (Rail length: Special) Note 3)					
K	Special wiring spec. (Except double wiring) Note 4)					
N	With name plate					
R	External pilot Note 5)					
S	Built-in silencer, Direct exhaust Note 6)					

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

Note 2) When the back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position on the manifold specification sheet.

Note 3) For special DIN rail length, indicate "D\[\tilde{D}\]". (Enter the number of stations inside \square .) Example: -D08

> In this case, stations will be mounted on a DIN rail for 8 stations regardless of the actual number of manifold stations.

The specified number of stations must be larger than the number of stations on the manifold. Indicate "-D0" for the option without DIN rail.

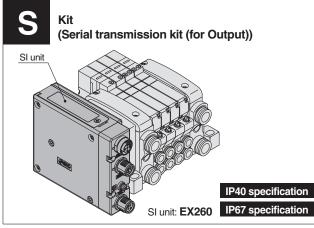
Note 4) Specify wiring type of each station on the manifold specification sheet.

Note 5) For external pilot option, "-R", indicate the external pilot specification "R" for the applicable valves as

Note 6) Built-in silencer type does not satisfy IP67.

Note 7) When the "SD0" (Without SI unit) is specified, "-D", "-D□" cannot be selected.

5 Kit type



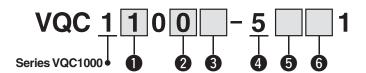
Symbol	Protocol	Number of outputs	Communication connector
SD0	V	/ithout SI ur	nit
SQA	DeviceNet™	32	M12
SQB	Devicemet	16	IVIIZ
SNA		32	M12
SNB	PROFIBUS DP	16	IVITZ
SNC	PHOFIBUS DP	32	D-sub Note 1)
SND		16	D-Sub ·····
SVA	CC-Link	32	M12
SVB	CC-LINK	16	IVIIZ
SDA	EtherCAT	32	M12
SDB	EllierCAT	16	IVIIZ
SFA	PROFINET	32	M12
SFB	FROFINEI	16	IVIIZ
SEA	EtherNet/IP™	32	M12
SEB	Eulenvel/IP	16	IVIIZ

Note 1) D-sub S kit: IP40 specification (IP67 specification for all other S kits)

Note 2) For SI unit part number, refer to page 1.



How to Order Valves



1 Ty	pe of actuation
1	2-position single (A)4 2(B) (R1) 5 1 3 (R2) (P)
2	2-position double (Metal) (A)4 2(B) (R1) 513 (R2) (P) 2-position double (Rubber) (A)4 2(B)
	(R1) 5 1 3 (R2) (P) 3-position closed center
3	(A)4 2(B) (R1) 51 3 (R2) (P)
4	3-position exhaust center (A)4 2(B) (R1) 5 1 3 (R2) (P)
5	3-position pressure center (A)4 2(B) (B1) 5 1 3 (R2) (P)
A Note)	4-position dual 3-port valve (A) (A)4 2(B) 5(R1) 1(P) 3(R2)
B Note)	4-position dual 3-port valve (B) (A)4 (B)
C Note)	5(R1) 1(P) 3(R2) 4-position dual 3-port valve (C) (A)4 2(B)
Note) (5(R1) 1(P) 3(R2) Only rubber seal type

2 Seal type

0	Metal seal
1	Rubber seal

3 Function

Nil	Standard (0.4 W)
В	Quick response type (0.95 W)
K Note 2)	High pressure type (145 psi (1.0 MPa), 0.95 W)
N Note 3)	Negative common
R Note 4)	External pilot

Note 1) When two or more symbols are specified, indicate them alphabetically. However, combination of "B" and "K" is not possible.

Note 2) Only metal seal type

Note 3) When negative common is specified for SI unit, select and mount the valve of negative common.

Note 4) Not applicable for dual 3-port valves

4	Coil	voltage
---	------	---------

6 CO	i voitage
5	24 VDC

5 Light/surge voltage suppressor

	ъргосоо:
Nil	Yes

6 Manual override



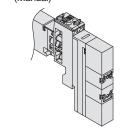
B: Locking type (Tool required)



C: Locking type (Manual)



D: Slide locking type (Manual)



Note) Only rubber seal type

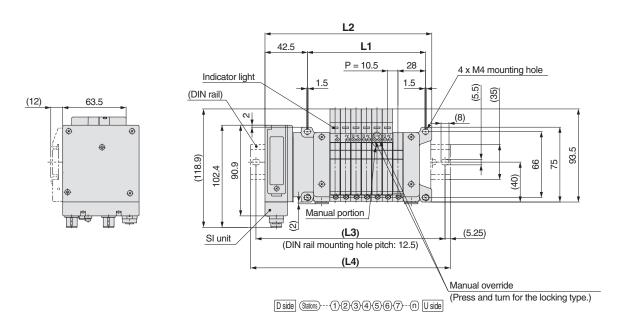
Refer to the SMC website or the VQC1000/2000 series catalog (CAT.NAS11-101) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

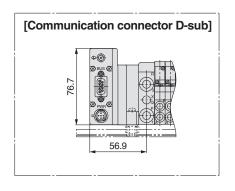


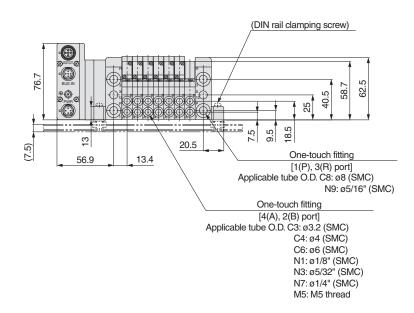
Kit (Serial transmission) For EX260 Integrated-type (For Output) Serial Transmission System

VV5QC11

S Kit (Serial transmission kit: EX260)







n: Stations (Maximum 24 stations)

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L2	104.2	114.7	125.2	135.7	146.2	156.7	167.2	177.7	188.2	198.7	209.2	219.7	230.2	240.7	251.2	261.7	272.2	282.7	293.2	303.7	314.2	324.7	335.2	345.7
L3	127	139.5	152	164.5	177	177	189.5	202	214.5	227	239.5	239.5	252	264.5	277	289.5	302	314.5	314.5	327	339.5	352	364.5	377
L4	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5	275	287.5	300	312.5	325	325	337.5	350	362.5	375	387.5

Series

VQC2000

Plug-in Unit:

Manifold model

Plug-in unit

Stations

In the case of the 32-output SI unit

Symbol	Stations	Note				
02	2 stations					
:	:	Double wiring Note 1)				
12	12 stations					
02	2 stations	O :::				
:	:	Specified layout Note 2)				
24	24 stations	(Available up to 24 solenoids)				

In the case of the 16-output SI unit

Symbol	Stations	Note			
02	2 stations				
:	:	Double wiring Note 1)			
08	8 stations				
02	2 stations	On a siff and Lawrent Moto 2)			
÷	:	Specified layout Note 2)			
16	16 stations	(Available up to 16 solenoids)			

Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all manifold stations. Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) Specified layout: Indicate the wiring specifications on the manifold specification

(Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

Note 3) Includes the number of blanking plate assemblies.

Cylinder port size

C4	ø4 One-touch fitting							
C6	ø6 One-touch fitting							
C8	ø8 One-touch fitting							
CM	Mixed sizes and with port plug							
L4	Top ported elbow							
	with ø4 One-touch fitting							
L6	Top ported elbow							
LO	with ø6 One-touch fitting							
L8	Top ported elbow							
LO	with ø8 One-touch fitting							
B4	Bottom ported elbow							
D4	with ø4 One-touch fitting							
В6	Bottom ported elbow							
В	with ø6 One-touch fitting							
B8	Bottom ported elbow							
Бо	with ø8 One-touch fitting							
LM	Elbow port, mixed sizes							
MM Note 2)	Mixed size for different types of piping,							
IVIIVI Note 2)	option installed							

Note 1) Indicate the sizes on the manifold specification sheet in the case of "CM",

Note 2) When selecting the mixed size for different types of piping or dual flow fitting assembly, enter "MM" and give instructions in the manifold specification sheet.

Note 3) Symbols for inch sizes are as follows:

- N3: ø5/32"
- N7: ø1/4"
- N9: ø5/16"
- NM: Mixed

The top ported elbow is LN \square and the bottom ported elbow is BN□.

6 SI unit output polarity

Nil	Positive common
N	Negative common

Option

Nil	None							
В	With back pressure check valve (All stations) Note 2)							
D	With DIN rail (Rail length: Standard)							
D□	With DIN rail (Rail length: Special) Note 3)							
K	Special wiring spec. (Except double wiring) Note 4)							
N	With name plate							
R	External pilot Note 5)							
S	Built-in silencer, Direct exhaust Note 6)							
Т	P and R ports included on both sides of the U side Note 7)							

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

Note 2) When the back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position on the manifold specification sheet.

Note 3) For special DIN rail length, indicate "D□". (Enter the number of stations inside \square .) Example: -D08 In this case, stations will be mounted on a DIN

rail for 8 stations regardless of the actual number of manifold stations.

The specified number of stations must be larger than the number of stations on the manifold. Indicate "-D0" for the option without DIN rail.

Note 4) Specify wiring type of each station on the manifold specification sheet.

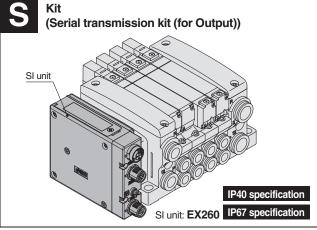
Note 5) For external pilot option, "-R", indicate the external pilot specification "R" for the applicable valves as well.

Note 6) Built-in silencer type does not satisfy IP67.

Note 7) 2 ports for SUP and EXH are included on both sides of U side (cylinder port and coil side) with ø12 One-touch fittings.

Note 8) When the "SD0" (Without SI unit) is specified, "-D", "-D□" cannot be selected.

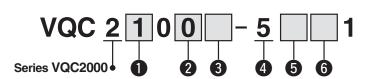
6 Kit type

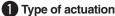


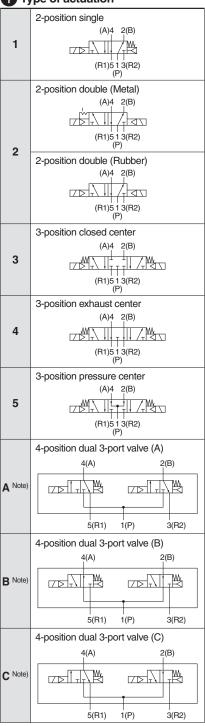
Symbol	Protocol	Number of outputs	Communication connector							
SD0	Without SI unit									
SQA	DeviceNet™	32	M12							
SQB	Devicemet	16	IVITZ							
SNA		32	M12							
SNB	PROFIBUS DP	16	IVITZ							
SNC	PHOFIBUS DP	32	D-sub Note 1)							
SND		16	D-Sub Note 17							
SVA	CC-Link	32	M12							
SVB	CC-LINK	16	IVIIZ							
SDA	EtherCAT	32	M12							
SDB	EllierCAT	16	IVIIZ							
SFA	PROFINET	32	M12							
SFB	PHOFINE	16	IVIIZ							
SEA	EtherNet/IP™	32	M12							
SEB	Eulenvel/IP····	16	IVIIZ							

Note 1) D-sub S kit: IP40 specification (IP67 specification for all other S kits)

Note 2) For SI unit part number, refer to page 1.







2 Seal type

0	Metal seal
1	Rubber seal

3 Function

Nil	Standard (0.4 W)
В	Quick response type (0.95 W)
K Note 2)	High pressure type (145 psi (1.0 MPa), 0.95 W)
N Note 3)	Negative common
R Note 4)	External pilot

Note 1) When two or more symbols are specified, indicate them alphabetically. However, combination of "B" and "K" is not possible.

Note 2) Only metal seal type
Note 3) When negative common is
specified for SI unit, select and
mount the valve of negative
common.

Note 4) Not applicable for dual 3-port valves

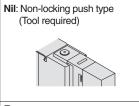
4 Coil voltage

5 00.	i voitage
5	24 VDC

5 Light/surge voltage suppressor

	•
Nil	Yes

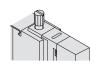
6 Manual override



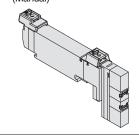
B: Locking type (Tool required)



C: Locking type (Manual)



D: Slide locking type
(Manual)



Note) Only rubber seal type

Refer to the SMC website or the VQC1000/2000 series catalog (CAT.NAS11-101) for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

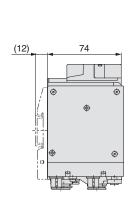


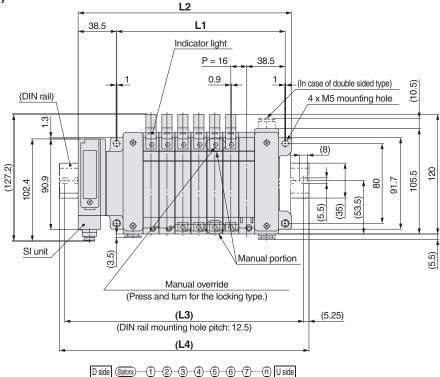
Series VQC2000 Kit (Serial transmission) For F

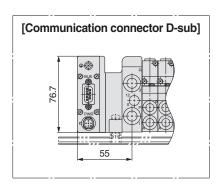
Kit (Serial transmission) For EX260 Integrated-type (For Output) Serial Transmission System

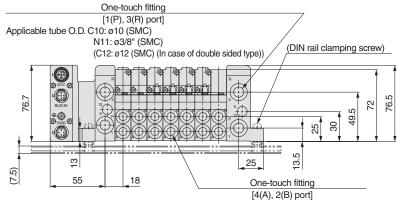
VV5QC21

S Kit (Serial transmission kit: EX260)









[4(A), 2(B) port]
Applicable tube O.D. C4: ø4 (SMC)
C6: ø6 (SMC)
C8: ø8 (SMC)
N3: ø5/32" (SMC)
N7: ø1/4" (SMC)
N9: ø5/16" (SMC)

n: Stations (Maximum 24 stations)

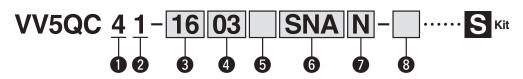
ì	n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
	L2	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342	358	374	390	406	422	438	454	470	486
	L3	139.5	164.5	177	189.5	202	227	239.5	252	277	289.5	302	314.5	339.5	352	364.5	389.5	402	414.5	427	452	464.5	477	489.5	514.5
	L4	150	175	187.5	200	212.5	237.5	250	262.5	287.5	300	312.5	325	350	362.5	375	400	412.5	425	437.5	462.5	475	487.5	500	525

Plug-in Unit: For EX260 Integrated-type (For Output) Serial Transmission System

Series VQC4000



How to Order Manifold



Series

4 VQC4000

2 Manifold model

1 Plug-in unit

4 Cylinder port size

C8	With ø8 One-touch fitting
C10	With ø10 One-touch fitting
C12	With ø12 One-touch fitting
02	Rc1/4
03	Rc3/8
В	Bottom ported Rc1/4
CM	Mixed

Note 1) Indicate the sizes on the manifold specification sheet in the case of "CM".

Note 2) Symbols for inch sizes are as follows: <In the case of One-touch fittings>

- N7: ø1/4"
- N7: Ø 1/4" • N9: Ø5/16"
- N11: ø3/8"
- NM: Mixed

5 Thread type

	Nil	Rc
	F	G
	Т	NPT/NPTF

3 Stations

In the case of the 32-output SI unit

Symbol	Stations	Note				
01	1 station					
:	:	Double wiring Note 1)				
12	12 stations	_				
01	1 station	On a sifi and Lauran & Note 2)				
:	:	Specified layout Note 2) (Available up to 24 solenoids)				
16	16 stations	(Available up to 24 soleriolds)				

In the case of the 16-output SI unit

Symbol	Stations	Note				
01	1 station					
:	i i	Double wiring Note 1)				
08	8 stations					
01	1 station	O				
÷	:	Specified layout Note 2)				
16	16 stations	(Available up to 16 solenoids)				

Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all manifold stations.

Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

Note 2) 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.)

Note 3) Includes the number of blanking plate assemblies.

7 SI unit output polarity

Nil	Positive common
N	Negative common

8 Option

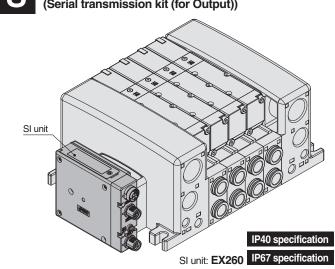
O - P	
Nil	None
S	Built-in silencer, Direct exhaust Note 1)
K	Special wiring spec. (Except double wiring) Note 2)

Note 1) Built-in silencer type does not satisfy IP67.

Note 2) Specify wiring type of each station on the manifold specification sheet.

6 Kit type





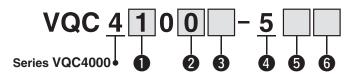
Symbol	Protocol	Number of outputs	Communication connector	
SD0A		Without SI unit		
SQA	DeviceNet™	32	M12	
SQB	Devicemet	16	IVITZ	
SNA		32	M12	
SNB	PROFIBUS DP	16	IVITZ	
SNC	PHOPIBUS DP	32	D-sub Note 1)	
SND		16	D-Sub ······	
SVA	CC-Link	32	M12	
SVB	CC-LITIK	16	IVITZ	
SDA	EtherCAT	32	M12	
SDB	Elleloat	16	IVITZ	
SFA	PROFINET	32	M12	
SFB	FUCTINE	16	IVIIZ	
SEA	EtherNet/IP™	32	M12	
SEB	Eulenver/IP····	16	IVIIZ	

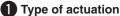
Note 1) D-sub S kit: IP40 specification (IP67 specification for all other S kits)

Note 2) For SI unit part number, refer to page 1.



How to Order Valves





U T	ype of actuation
1	2-position single (A) 4 2(B) (B1) 513(R2) (P)
2	2-position double (Metal) (A) 4 2(B) (R1) 51 3(R2) (P)
2	2-position double (Rubber) (A) 4 2(B) (R1) 51 3(R2) (P)
3	3-position closed center (A) 4 2(B) (B) 1 3 13(R2) (P) (P)
4	3-position exhaust center (A) 4 2(B) (R1) 513(R2) (P)
5	3-position pressure center (A) 4 2(B) (R1) 51 3(R2) (P)
6	3-position double check (A) 4 2(B) (B) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2 Seal type

0	Metal seal
1	Rubber seal

3 Function

Nil	Standard (1 W)
R	External pilot
Y Note 2)	Low wattage type (0.5 W)

Note 1) When two or more symbols are specified, indicate them alphabetically.

Note 2) Select "Y" when a valve is continuously energized for long periods of time.

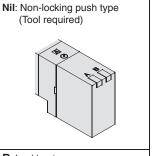
4 Coil voltage

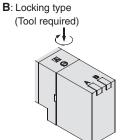
5	24 VDC

5 Light/surge voltage suppressor

Nil	Yes							
E	Without light, with surge voltage suppressor							

6 Manual override



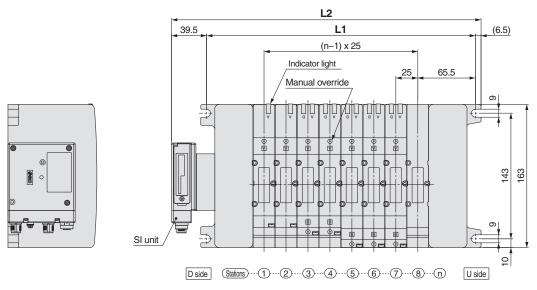


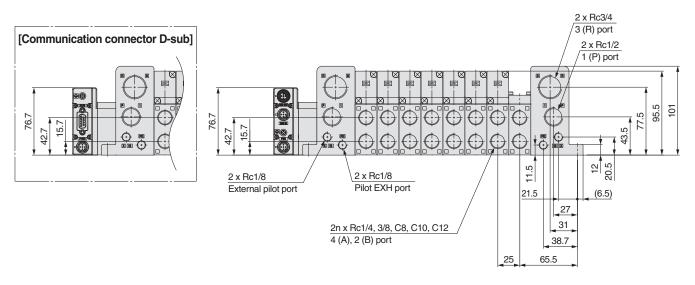
Refer to the SMC website or the VQC4000 series in Best Pneumatics No.1 for details on solenoid valve specifications, Common Precautions and Specific Product Precautions.

Kit (Serial transmission) For EX260 Integrated-type (For Output) Serial Transmission System

VV5QC41

S Kit (Serial transmission kit: EX260)





n: Stations	(Maximum	16 stations

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	131	156	181	206	231	256	281	306	331	356	381	406	431	456	481	506
L2	177	202	227	252	277	302	327	352	377	402	427	452	477	502	527	552



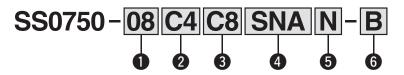
Plug-in Manifold Stacking Base S Kit (Serial Transmission): For EX260 Integrated-type (For Output)

Serial Transmission System

Series **\$0700**



How to Order Manifold



1 Stations

In the case of the 32-output SI unit

Symbol	Stations	Note			
01	1 station				
:	:	Double wiring Note 1)			
16	16 stations				
01	1 station	On a sifical law and Note 2)			
:	:	Specified layout Note 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				
:	:	Double wiring Note 1)			
08	8 stations	-			
01	1 station	O * # ! Noto 2)			
:	:	Specified layout Note 2)			
16	16 stations	(Available up to 16 solenoids)			

- Note 1) Double wiring: single, double, 3-position and 4-position solenoid valves can be used on all manifold stations.

 Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- Note 2) 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.)
- Note 3) Includes the number of blanking plate assemblies.

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

Note) Indicate the sizes on the manifold specification sheet in the case of "CM", "NM".

3 P, R port size

Symbol	Port size				
Nil	With ø8 One-touch fitting Note)				
C6	With ø6 One-touch fitting	Metric			
C8	With ø8 One-touch fitting				
N7	With Ø1/4" One-touch fitting				
N9	Nith ø5/16" One-touch fitting Inch				

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

4 Kit type

Symbol	Protocol	Number of outputs	Communication connector	
SD0	V	Vithout SI un	it	
SQA	DeviceNet™	32	M12	
SQB	Devicemet	16	IVI I Z	
SNA		32	M12	
SNB	PROFIBUS	16	IVI 12	
SNC	DP	32	D-sub Note 1)	
SND		16	D-Sub Held 17	
SVA	CC-Link	32	M12	
SVB	OO-LIIK	16	IVITZ	
SDA	EtherCAT	32	M12	
SDB	EllielOAT	16	IVIIZ	
SFA	PROFINET	32	M12	
SFB	FNORINEI	16	IVI 12	
SEA	EtherNet/IP™ 32		M12	
SEB	Luicinet/IF	16	IVITZ	

Note 1) The maximum number of stations is determined by the total number of solenoids.

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

Note 2) For SI unit part number, refer to page 1.

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

5 SI unit output polarity

Nil		Positive common				
	N	Negative common				

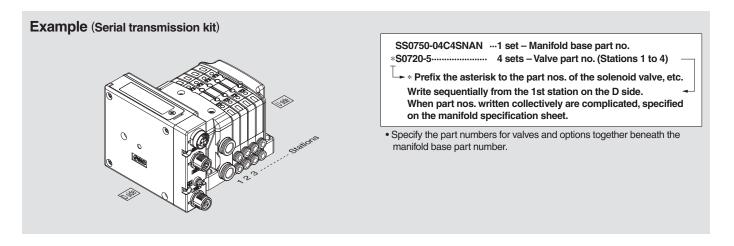
Option

Symbol	Option			
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 (Rail length specified, □: Stations)			
K Note 4)	Special wiring specifications (Except double wiring)			
N	With name plate			
R Note 5)	External pilot			
S	Built-in silencer			

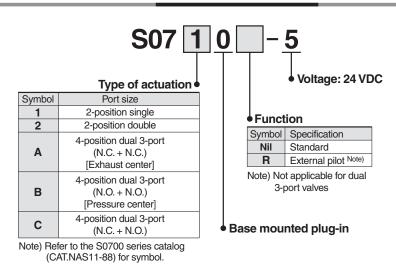
- Note 1) When two or more options are specified, indicate them alphabetically.

 Example) -BKN
- Note 2) When the back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting 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) Refer to the S0700 series catalog (CAT.NAS11-88) for details.
- Refer to the S0700 series catalog (CAT.NAS11-88) for manifold optional parts.
- * Refer to the S0700 series catalog (CAT.NAS11-88) for manifold exploded view.
- * When the "SD0" (Without SI unit) is specified, "-D",
- "-D□" cannot be selected.

How to Order Manifold Assembly



How to Order Valves

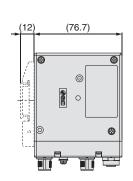


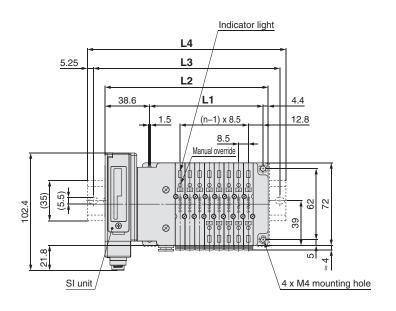
Refer to the SMC website or the S0700 series catalog (CAT.NAS11-88) for details on

solenoid valve specifications, Common Precautions and Specific Product Precautions.

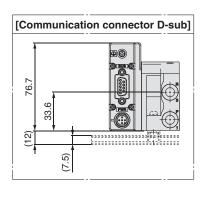
SS0750

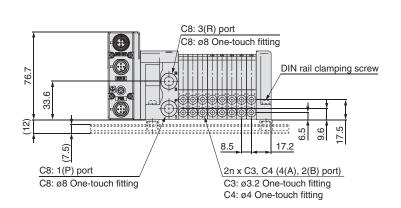
S Kit (Serial transmission kit: EX260)





D side Stations --- 12345678 n U side





) 1	m	e	ns	:10	วท	S

L1

L2

L3

L4

39.5

82.5

112.5

123

2

48

91

112.5

123

3

56.5

99.5

125

135.5

4

65

108

148

137.5

5

73.5

116.5

137.5

148

6

82

125

150

160.5

Formula $L1 = 8.5n + 31$, $L2 = 8.5n + 74$				n: Station (Maximun 16 stations)					
	8	9	10	11	12	13	14	15	16
.5	99	107.5	116	124.5	133	141.5	150	158.5	167
.5	142	150.5	159	167.5	176	184.5	193	201.5	210
.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5
	173	185.5	198	198	210.5	223	223	235.5	248

7

90.

133.

162.

173

SY

SV

VQC



Series EX260 Specific Product Precautions 1

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" for 3/4/5 Port Solenoid Valve Precautions. The Operation Manual can be downloaded from the SMC website, http://www.smcworld.com

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 before operation.

When using for an interlegly sireuit.

- 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. When applicable to UL, use a Class 2 power supply unit conforming to UL1310 for direct current power supply.
- 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.

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.

4. Keep the surrounding space free for maintenance.

When designing a system, take into consideration the amount of free space needed for performing maintenance.

5. 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.

Mounting

∧ Caution

- 1. When handling and assembling units:
 - 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 screw.

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

Mounting

∧ Caution

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

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

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

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

Wiring

⚠ Caution

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

Provide a specific grounding as close to the unit as possible to minimize the distance to grounding.

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

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

3. Avoid miswiring.

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

4. Do not wire while energizing the product.

There is a danger of malfunction or damage to the reduced wiring system or output device.

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

Noise or surge produced by signal line resulting from the power line or high pressure line could cause malfunction. Wiring of the reduced wiring system or 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 output device due to excessive voltage and current.

7. When a reduced wiring system is installed in machinery/equipment, provide adequate protection against noise by using noise filters, etc.

Noise in signal lines may cause malfunction.





Series EX260 Specific Product Precautions 2

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" for 3/4/5 Port Solenoid Valve Precautions. The Operation Manual can be downloaded from the SMC website, http://www.smcworld.com

Wiring

8. When connecting wires of output device, prevent water, solvent or oil from entering inside the connector section.

This can cause damage, equipment failure or malfunction.

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

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

10. Select connectors that are Ø16 or less if mounting manifolds directly using fieldwireable connectors for SI unit power supply wiring.

Using large diameter connectors causes interference with the mounting surface.

The following cables with connectors are recommended.

- For EX260-SPR□/-SDN□/-SEC□/-SPN□/-SEN□
 - <Cable with connector>
 - EX500-AP□□□-□
 - PCA-1401804/-1401805/-1401806
- For EX260-SMJ□

<Cable with connector>

- EX9-AC□□□-1
- PCA-1401807/-1401808/-1401809

Operating Environment

⚠ Warning

1.Do not use in an atmosphere containing an inflammable gas or explosive gas.

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

∧ Caution

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

IP67 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.

When the enclosure is IP40, do not use in an operating environment or atmosphere where it may come in contact with corrosive gas, chemical agents, seawater, water, or water vapor.

When connected to the EX260-SPR5/6/7/8, manifold enclosure is IP40.

Operating Environment

⚠ Caution

2. Provide adequate protection when operating in locations such as the following.

Failure to do so may cause damage or malfunction.

The effect of countermeasures should be checked in individual equipment and machine.

- 1) Where noise is generated by static electricity, etc.
- 2) Where there is a strong electric field
- 3) Where there is a danger of exposure to radiation
- 4) When in close proximity to power lines or high voltage lines
- 3. Do not use in an environment where oil and chemicals are used.

Operating in environments with coolants, cleaning solvents, various oils or chemicals may cause adverse effects (damage, malfunction) to the unit even in a short period of time.

4. Do not use in an environment where the product could be exposed to corrosive gas or liquid.

This may damage the unit and cause it to malfunction.

5. Do not use in locations with sources of surge generation.

Installation of the unit in an area around the equipment (electromagnetic lifters, high frequency induction furnaces, welding machine, motors, etc.), which generates the large surge voltage could cause to deteriorate an internal circuitry element of the unit or result in damage. Implement countermeasures against the surge from the generating source, and avoid touching the lines with each other.

- The product is CE marked, but not immune to lightning strikes. Take measures against lightning strikes in your system.
- 7. Keep dust, wire scraps and other extraneous material from getting inside the product.

This may cause malfunction or damage.

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

This may cause malfunction or damage.

9.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 effec-ted.

10. Do not use in direct sunlight.

Do not use in direct sunlight. It may cause malfunction or damage.

11. Use this product within the specified ambient temperature range.

This may cause malfunction.

12. Do not use in places where there is radiated heat around it. Such a place is likely to cause malfunction.





Series EX260 Specific Product Precautions 3

Be sure to read before handling. Refer to back cover for Safety Instructions, "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" for 3/4/5 Port Solenoid Valve Precautions. The Operation Manual can be downloaded from the SMC website, http://www.smcworld.com

Adjustment/Operation

⚠ Warning

1. Do not perform operation or setting with wet hands.

There is a risk of electrical shock.

∧ Caution

1. Use a watchmakers' screwdriver with thin blade for the setting of each switch of the SI unit.

When setting the switch, do not touch other unrelated parts.

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

2. Provide adequate setting for the operating conditions.

Failure to do so could result in malfunction.

Refer to the operation manual for setting of the switches.

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

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

 For the EX260-SPN□, the side of the SI unit may become hot

It may cause burns.

Maintenance

Marning

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 pressurein piping and verify that the air is released before performing maintenance work.

Unexpected malfunction of system components and injury can result.

⚠ Caution

- 1. When handling and replacing the unit:
 - Do not apply excessive force to the unit when disassembling.

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

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

Injury can result.

2. Perform periodic inspection.

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

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

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

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

Damage to the surface or erasure of the display can result.

Wipe off any stains with a soft cloth.

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

Other

 Refer to the catalog of each series for Common Precautions and Specific Product Precautions on manifold solenoid valves.

■ Trademark

DeviceNet $^{\text{TM}}$ is a trademark of ODVA. EtherNet/IP $^{\text{TM}}$ is a trademark of ODVA

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

♠ Danger : Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

*1) ISO 4414: Pneumatic fluid power – General rules relating to systems. ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery – Electrical equipment of machines.

(Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety.

⚠ Warning

 The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

▲ Caution

The product is provided for use in manufacturing industries.
 The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered.*2)
 - Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided.
 - This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Revision history

Edition B ● EtherNet/IP™ added to applicable Fieldbus protocols.

QS

↑ Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.



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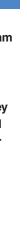
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SMC Pneumatics (Canada) Ltd. www.smcpneumatics.ca

(800) SMC.SMC1 (762-7621)

e-mail: sales@smcusa.com

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