Fieldbus System $\mathbf{C} \mathbf{E}$ (Gateway Decentralised Type) Except the SY, VQC and S0700 valves GW Unit which supports PROFINET added. Ne M12 connector type Input Unit added. **GW Unit** (Gateway Unit) **Decentralised** valve installation Valves can be installed OSME near the actuators! Reduced No need to set the Reduced piping space address for the wiring and piping valve manifold and space materials Input Unit. Compatible Number of Number of valve manifold **Branch cable** Description **New function** and Input Unit connections protocol inputs/outputs length Gateway Decentralised Web server function <u>PROF</u> NÉT 128 inputs/ Max. 16 Valve operation test System 2 Max. 20 m 128 outputs Units · Connection diagnostic EtherNet/IP Page 8 Short-circuit diagnostic Page 2 Gateway Decentralised DeviceNet 64 inputs/ Max. 8 System Max. 10 m FROFT TBUIST 64 outputs Units Page 48 **Input Unit** (M8 connector type) Input Unit (M12 connector type) 0.0 0::0 · · · · · · Valve manifold 0::0 0 6 0000000 0.0 0::0 6 0 0.0 0::0 00 0 0 \odot \odot 0 0 \odot . 🖸 : 🖸 \odot : 🖸 0:





Series EX500 Fieldbus System Gateway Decentralised System 2 (128 Points)

Number of branch ports: 4

Number of inputs/outputs 128 inputs/128 outputs

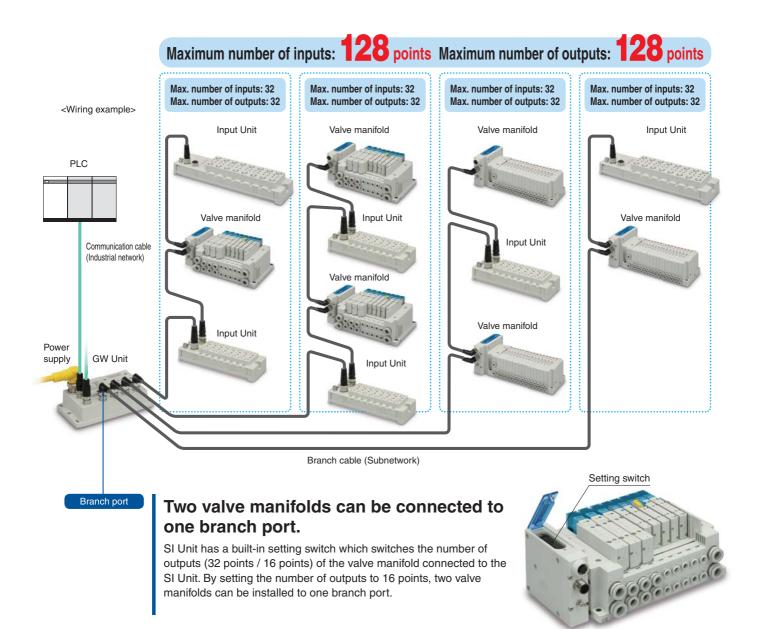
• Number of inputs/outputs per branch: Max. 32 inputs/32 outputs



• Number of valve manifold connections per branch: Max. 2 Units*

Total cable length per branch Max. 20 m

* When the number of outputs is set to "16 outputs" using a built-in setting switch of the SI Unit.



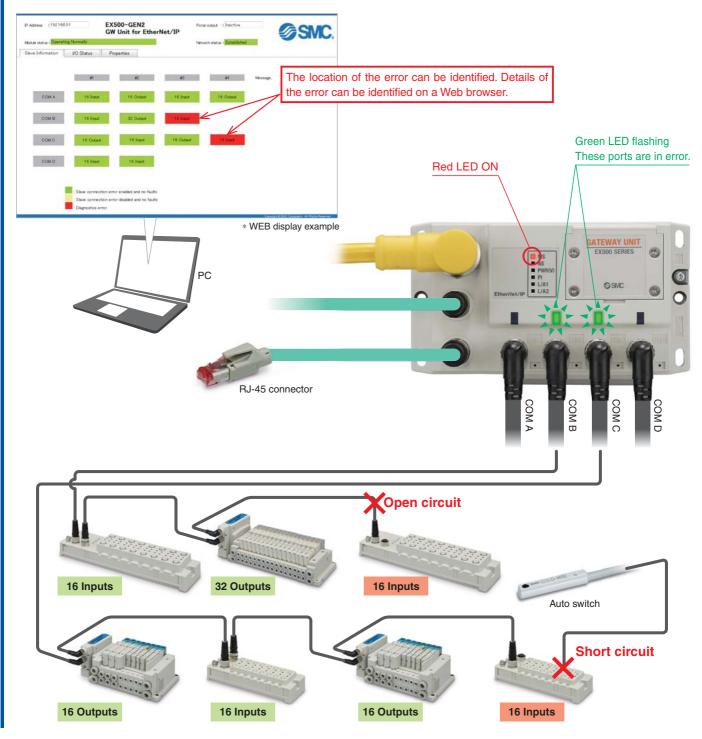
SI Unit



Web server function

Valve operation test (ON/OFF), connection diagnostic between valve manifold and Input Unit, and short-circuit diagnostic of input device can be performed on a Web browser.

A password can be used for the valve operation test (ON/OFF) for security.



No need to set the address

I/O mapping for the SI Unit and Input Unit is set by the Gateway Unit automatically. The Unit installation order is not specified.

(The upper limit of the inputs / outputs is 32 points for one branch port.)



Series EX500 Fieldbus System

Gateway Decentralised System 2 (128 Points)

Reduced wiring

The amount of communication and power supply wiring for the I/O device can be reduced.

Reduction of number of communication nodes

By reducing the number of communication nodes, the load on the network is reduced.

Accessories can be ordered together.

Page 13 Page 56

Accessories including cables and connectors can be ordered together to SMC. Time for selecting parts, ordering and managing lead time can be reduced.

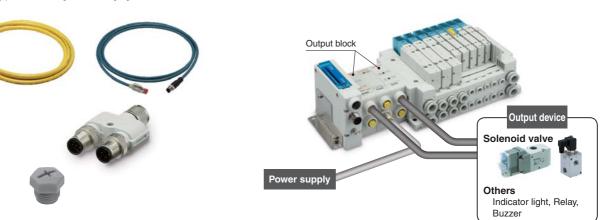
Flexibly copes with changes in the protocol.

Previously, it was necessary to change the part number of the slave unit, return the slave unit, and make arrangements once again to obtain a new unit (additional quotation, delivery period control).

Only the GW Unit needs to be changed.

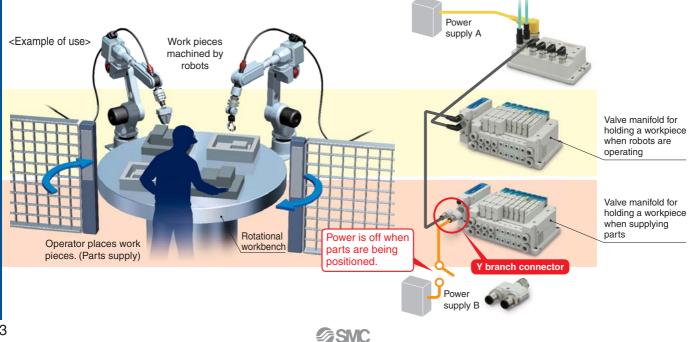
Applicable to output devices Page 16 other than valve manifold.

By using output block, lights and buzzers can be operated.



Specified valve manifold can be controlled by supplying power from a different system. Page 15

By using a Y branch connector, power from a different system can be supplied to the SI Unit (valve manifold).



System Comparison Table	Gateway Decentralised System 2	Gateway Decentralised System (Current model)
Protocol	₽Ŗ Ŏ ĘŨ [®] Ether N et∕IP	Device Net PROFU®
Number of inputs/outputs (Number of inputs/outputs per branch)	128 inputs/128 outputs (32 inputs/32 outputs)	64 inputs/64 outputs (16 inputs/16 outputs)
Number of valve manifold connections (Number of connections per branch)	Max. 8 Units [*] (Max. 2 Units)	Max. 4 Units (1 Unit)
Number of Input Unit connections (Number of connections per branch)	Max. 8 Units (Max. 2 Units)	Max. 4 Units (1 Unit)
Branch cable length	Max. 20 m	Max. 10 m
Enclosure	GW Unit: IP65 SI Unit: IP67 Input Unit: IP67	GW Unit: IP65 SI Unit: IP67 Input Unit: IP65
Function	Web server function (Valve operation test, Connection diagnostic, Short-circuit diagnostic)	_
Page	8	48

* When the number of outputs is set to "16 outputs" using a built-in setting switch of the SI Unit.

Applicable Valve Series

Series		Flow rate ch	naracteristics	; (4/2→5/3)	Maximum Power		Indone atta		
		C [dm³/(s⋅bar)]	b	· · · ·	number of solenoids	consumption [W]	Enclosure	International standard	Page
	SY3000	1.6	0.19	381		0.35 (Standard) 0.1 (With power saving circuit) [Inrush 0.4, Holding 0.1]	IP67	CE	
Color and Co	SY5000	3.6	0.17	848	32				19
-1-1000	SY7000	5.9	0.20	1413					
	VQC1000	1.0 Note 1)	0.30 Note 1)	254	24	0.4 (Standard) 0.95 (Standard)	1P67	CE	
	VQC2000	3.2 Note1)	0.30 Note 1)	814					27
	VQC4000	7.3 Note 1)	0.38 Note 1)	1958					21
	VQC5000	17.0 Note 1)	0.31 Note 1)	4350		0.4 (Low-wattage type)			
A Contraction	S0700	0.37	0.39	100	32	0.35	IP40	()	39
	SV1000	1.1	0.35	289				CE	
	SV2000	2.4	0.18	568	32	32 0.6	IP67		42
	SV3000	4.3	0.21	1036				c AL us	

Note 1) Values for 2-position single, rubber seal type Note 2) These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

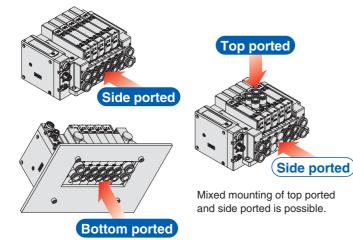
Series SY3000/5000/7000

Piping on the top or the bottom makes the footprint smaller to realise dramatic space-saving.



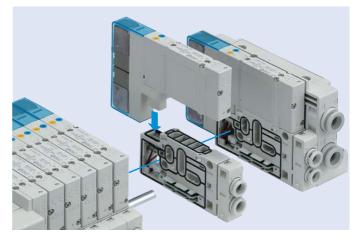
Valve piping direction variations

Piping is possible from 3 directions.



Max. 24 stations connectable

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

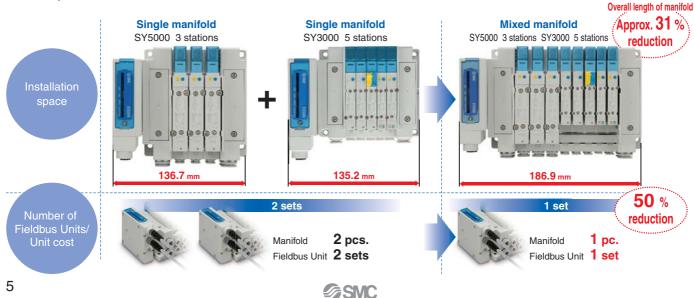


Mixed valve sizes manifold

It is also possible to install a combination of different-sized valves on the same manifold. (SY3000 and SY5000, or SY5000 and SY7000)

This facilitates reduction in the installation space and number of units/cables.

Example: For SY5000 and SY3000



CONTENTS

GW Unit

Fieldbus System (Gateway Decentralised Type) Series EX500

E Features (Gateway Decentralised System 2) Page	1
System Comparison Table/Applicable Valve Series Page -	4
■ Introduction of the SY Series Valve Page	5

Series EX500 Gateway Decentralised System 2 (128 Points) Page 8







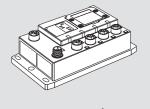


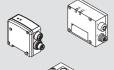
How to Order		Page 9
Specifications		Page 9
	ion	
SI Unit		U
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	ion	
Input Unit		. age
How to Order		···· Page 12
Specifications		Page 12
	ion	
		T ago 12
	Communication Cable/Connector	Paga 13
	Connector • Cable for Power Supply from a Different System	
	IN Rail Bracket	
Power Block		Dege 16
		•
	ck Wiring • Power Supply Cable for Power Block	
• End Plate • Bracket Plat	te	- Page 18
SY3000/5000/7000		D (A)
	e 11	
	Y3000	
	Y5000 ·····	
	Y7000	•
	or dimensions of Type 11 and Type 12, refer to the SY series catalogue (CAT.	EUS11-103).
■ VQC1000		
		Page 29
VQC2000		
How to Order		Page 30
Dimensions		Page 32
VQC4000		
Dimensions		Page 35
VQC5000		
Dimensions		Page 38
S0700		
SV1000/2000/3000		2
		Page 42
	SV1000	
	SV2000	
	SV3000	
Precautions on Mixed Usage of G	ateway Decentralised System 2 and Gateway Decentralised System	•

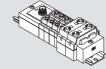


CONTENTS

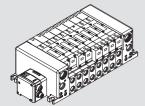
Series EX500 Gateway Decentralised System (64 Points) Page 48

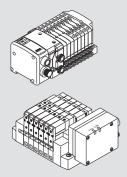












7

GW Unit				
	Description	٦		····· Page 49
SI Unit (for SV)				
		۱		Page 50
SI Unit (for SY/VQC/S				
	Jescription	1		Page 51
Input Manifold				Da
Accessories	lock olali	0113		Faye 55
	ole • Bra	nch Cable		
Communication C	able			
lonnina i lag	Jour Oup			Tage 50
SY3000/5000/7000				
	10/Type	11		Page 59
				-
			Type 11 and Type 12, refer to the SY series catalo	•
VQC1000				
How to Order				Page 67
Dimensions				Page 69
VQC2000				
How to Order				Page 70
Dimensions				Page 72
VQC4000				
Dimensions	••••••			Page 75
VQC5000				
				-
Dimensions	••••••			Page 78
S0700				
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				-
Dimensions: Casse	tte Base			-
Tie-ro	d Base			
		SV4000 ·		······ Page 89

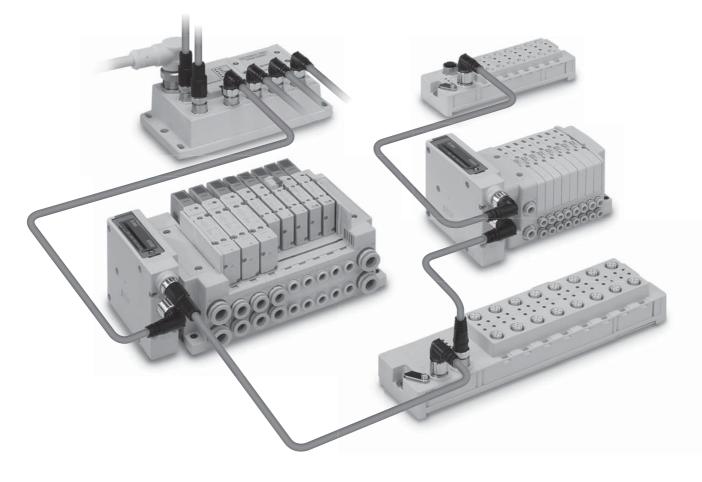




Series EX500

Gateway Decentralised System 2 (128 Points)

- ★ Valve manifold and Input Unit can be connected around the GW (Gateway) Unit.
- ★ Number of inputs/outputs = 128 points/128 points. The number of outputs (solenoids) per branch is 32 points.
- Number of valve manifold connections = Max. 8 Units, Number of Input Unit connections = Max.
 8 Units, Branch cable length = Max. 20 m
- ★ Web server function (Valve operation test, connection diagnostic of Units, short-circuit diagnostic of input devices)
- \star No need to set the address for the valve manifold and Input Unit.





SMC

YS

8

Series EX500 Gateway Decentralised System 2 (128 Points) GW Unit



How to Order

RoHS

EX500-G<u>EN2</u>

Communication protocol

EN2	EtherNet/IP [™] (Input/Output = 128 points/128 points)
	PROFINET (Input/Output = 128 points/128 points)

Specifications

	Model	EX500-GEN2	EX500-GPN2		
	Protocol	EtherNet/IP ^{™ Note 1)}	PROFINET IO		
	Version Note 2)	Volume 1 (Edition 3.14) Volume 2 (Edition 1.15)	PROFINET Specification Version 2.2		
	Media	100BASE-TX	100BASE-TX		
	Communication speed	10/100 Mbps (Automatic)	100 Mbps		
	Communication method	Full duplex/Half duplex (Automatic)	Full duplex		
	Number of inputs/ outputs (I/O occupation area)	128 inputs/128 outputs (20 bytes/20 bytes)	128 inputs/128 outputs (18 bytes/16 bytes)		
Communication	Configuration file Note 3)	EDS file	GSDML		
	IP address setting range	Switch settings: 192.168.0.1 to 254 or 192.168.1.1 to 254, Through DHCP server: Optional address	Optional address		
	Device information	Vendor ID: 7 (SMC Corporation) Product type: 12 (Communication Adapter), Product code: 198	_		
	Applicable function	DLR QuickConnect™ Web server	MRP Fast Start Up Web server		
Power supply	For input and control	24 V DC ±10 %			
voltage	For valve	24 V DC +	10 %, -5 %		
Current consumption	For input and control	6.2 A or less (Max. 1.5 A per branch x 4 branches + GW Unit internal current consumption: 0.2 A or less)			
consumption	For output (valve)	4 A or less (Max. 1 A per branch x 4 branches)			
	Number of branch ports	4 p	orts		
Branch port	Number of inputs and outputs	32 inputs/32 outputs per branch			
	Branch cable length	20 m or less	s per branch		
	Enclosure	IP	65		
Environment	Operating temperature range	Operating: -10 to 50 °C, Stored: -20 to 60 °C (No condensation)			
	Operating humidity range	Operating, Stored: 35 to 85 %RH (No condensation)			
Standards		CE marking, UL (CS	SA), RoHS compliant		
Weight		55	0 g		
Enclosed parts		Seal cap (for M12 connector socket) 5 pcs.			

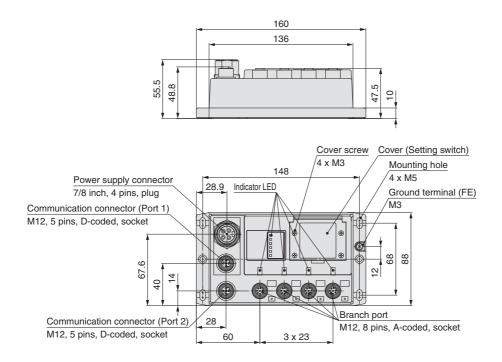
Note 1) Use a CAT5 or higher communication cable.

Note 2) Please note that the version is subject to change.

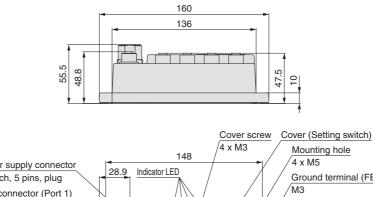
Note 3) Each file can be downloaded from SMC website, http://www.smc.eu

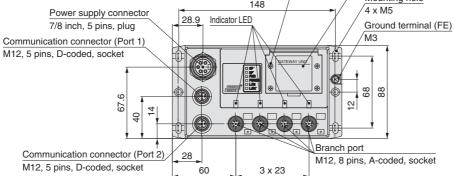
Dimensions/Parts Description

EX500-GEN2 (EtherNet/IP™)



EX500-GPN2 (PROFINET)





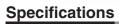
Series EX500 Gateway Decentralised System 2 (128 Points) SI Unit

Output Unit for valve manifold connection

How to Order

RoHS

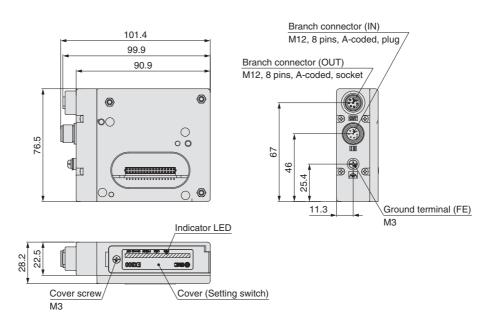
EX500-S103

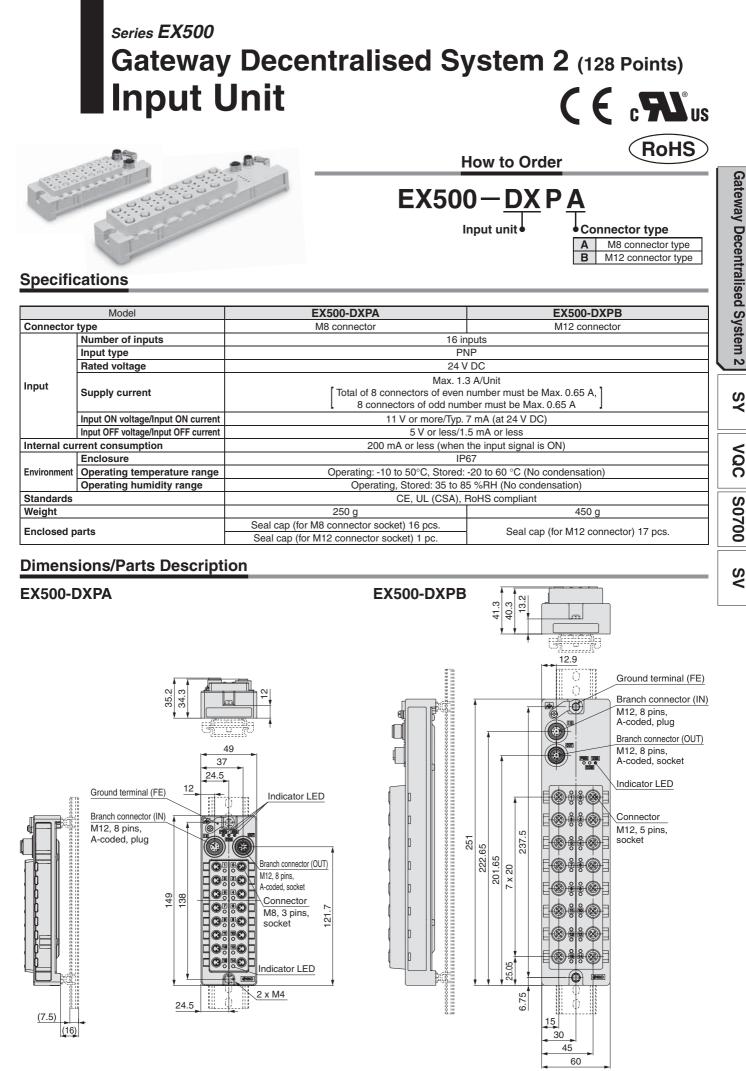


	Model	EX500-S103	
Applicable valve		SY, VQC, S0700, SV	
	Number of outputs	16/32 outputs (Switched by built-in setting switch)	
	Output type	Source/PNP (Negative common)	
Output	Rated voltage	24 V DC	
	Supply current	With power supplied to GW Unit: Max. 1.0 A With external power* supplied: Max. 1.5 A	
Internal currer	nt consumption	50 mA or less	
	Enclosure	IP67	
Environment	Operating temperature range	Operating: -10 to 50 °C, Stored: -20 to 60 °C (No condensation)	
	Operating humidity range	Operating, Stored: 35 to 85 % RH (No condensation)	
Standards		CE, UL (CSA), RoHS compliant	
Weight		200 g	
Enclosed parts		Seal cap (for M12 connector socket) 1 pc.	
		Valve manifold mounting screw (M3 x 30) 2 pcs.	

* When an accessory, Y branch connector, is used.

Dimensions/Parts Description



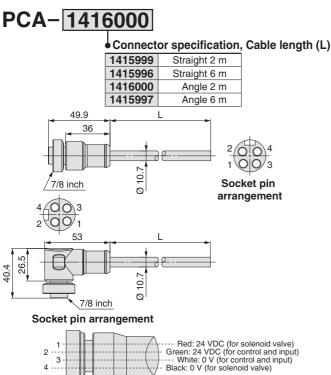


Series EX500 Gateway Decentralised System 2 (128 Points) Accessories

1 Power Supply Cable

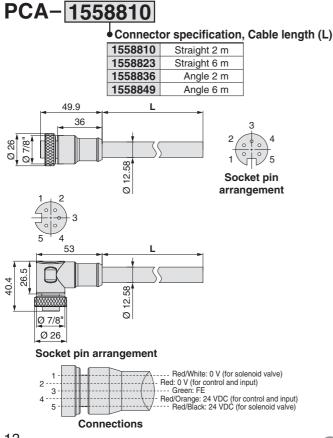
Supplies power to the GW Unit.

For EtherNet/IP™



Connections

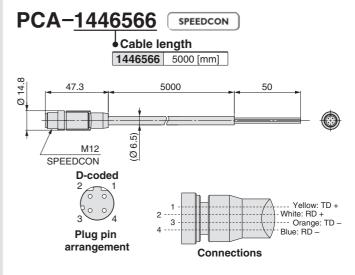
For PROFINET



(2) Communication Cable/Connector

Connects Fieldbus to the GW Unit.

Cable with connector



Field wireable connector

Plug pin arrangement dia to the flats 13

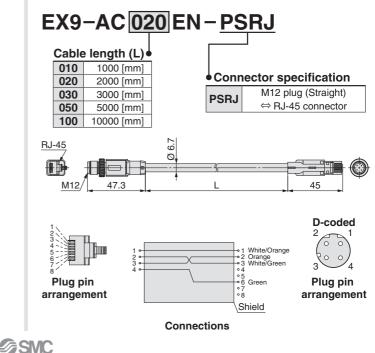
Applicable Cable

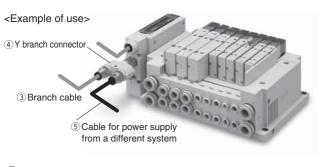
 Cable O.D.
 4.0 to 8.0 mm

 Wire gauge (Stranded wire cross section)
 0.14 to 0.34 mm²/AWG26 to 22

 Note) The table above shows the specifications for the applicable cable. Adaptation for the connector may vary on account of the conductor construction of the electric wire.

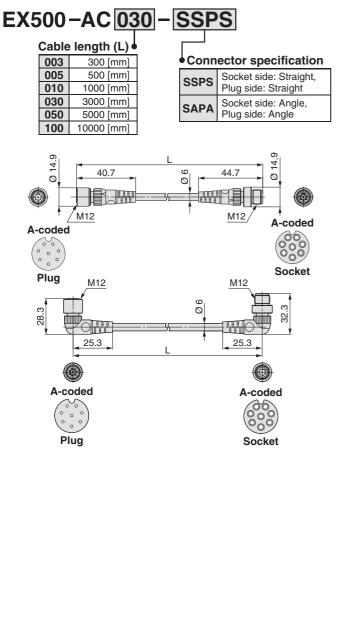
Cable with M12 \leftrightarrow RJ-45 connector





3 Branch Cable

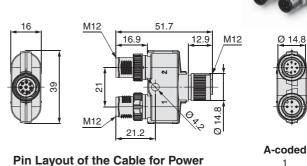
Connects the GW Unit and SI Unit or Input Unit.



④ Y Branch Connector

Supplies separate power to valve manifold when it is connected to the SI Unit.

EX500-ACY01-S

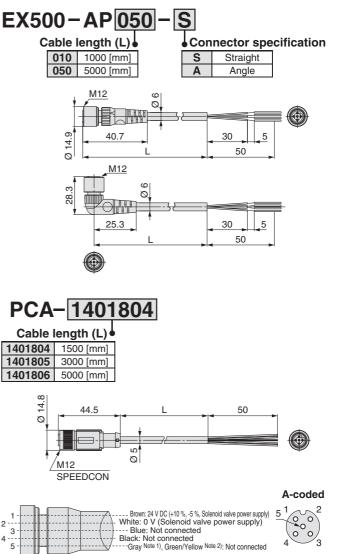


Supply from a Different System

Jup	piy nom a Different System	2(0 0)3
1	24 V DC +10 %, -5 % (for solenoid valve)	
2	0 V DC (for solenoid valve)	4
3	Unused	Plug pin
4	Unused	arrangement
-		

(5) Cable for Power Supply from a Different System

Connect to Y branch connector to supply power.



Gateway Decentralised System 2

00 003

SS

YS

Socket pin

arrangement 14

Note 1) For EX500-AP ----

Note 2) For PCA-

SMC

Connections

Series EX500

6 Marker (1 sheet, 88 pcs.)

Signal name of the input device such as a switch can be written on the marker and installed to the Input Unit.



⑦ Seal Cap (10 pcs.)

Use with new connector. By using these waterproof caps, the new connector maintains IP65/67 enclosure.

EX9-AWES EX9-AWTS For M8 connector socket For M12 connector socket



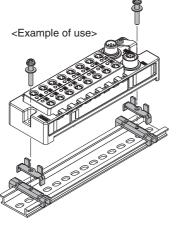


⑧ DIN Rail Bracket (2 pcs.)

Bracket for mounting the Input Unit (EX500-DXPA, EX500-DXPB) to DIN rail.

EX500-ZMA1



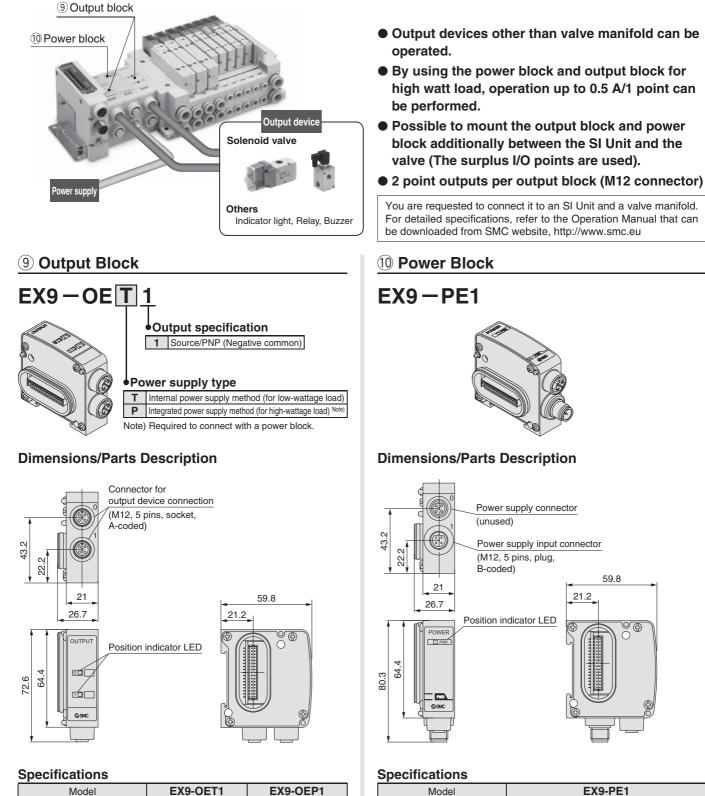


YS

VQC

S0700

SS



Model		EX9-PE1
Connection	block	Output block for high wattage load
Connection b	lock stations	Output block: Max. 8 stations
Power supply for output	Power supply voltage	22.8 to 26.4 V DC
and internal control	Internal current consumption	20 mA or less
Supply current		Max. 3.1 A Note)
	Enclosure	IP67
Environment	Operating temperature range	-10 to 50 °C
	Operating humidity range	35 to 85 %RH (No condensation)
Standards		CE marking, UL (CSA), RoHS
Weight		120 g
Enclosed parts		Seal cap (for M12 connector) 1 pc.

Note) When using with 3.0 to 3.1 A, the ambient temperature should not exceed 40 °C, and do not bundle the cable.



40 mA or less

Source/PNP (Negative common)

2 outputs

24 V DC

Max. 42 mA/point (1.0 W/point) Max. 0.5 A/point (12 W/point) IP67

-10 to 50 °C

35 to 85 %RH (No condensation)

CE marking, UL (CSA), RoHS compliant

120 g

Integrated power supply method

(Power block: supplied from EX9-PE1)

Internal power

supply method

Internal current consumption

Output

Environment

Standards Weight

Output type

Number of outputs

Power supply

Output device supply voltage Output device supply current

Operating temperature range

Operating humidity range

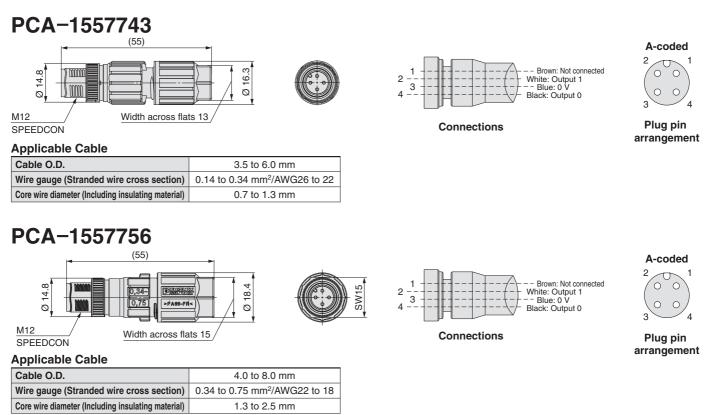
method

Enclosure

Series EX500

1 Connector for Output Block Wiring

Field wireable connects the output device to the output block.

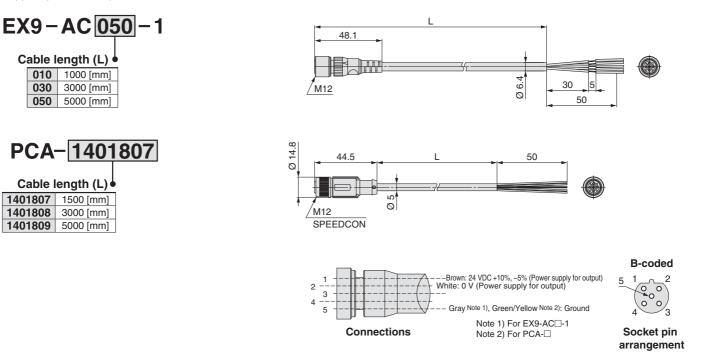


12 Power Supply Cable for Power Block

Supplies power to the power block.

030

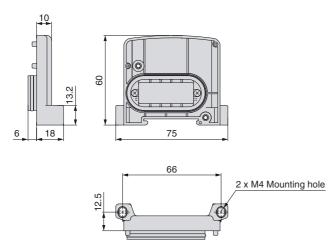
050



13 End Plate

Use when the output block is not used and the valve manifold is not connected.

EX9-EA03



<Example of use>

Gateway Decentralised System 2

YS

VQC

S0700

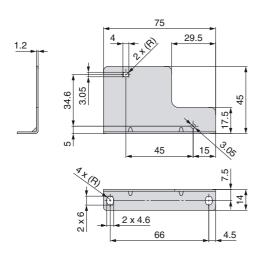
S۷

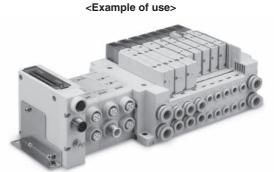
14 Bracket Plate

A reinforcing brace used to mount output block or power block onto the SI Unit. To prevent connection failure between products due to deflection, use this bracket plate whenever output block or power block is mounted.

EX9-BP1

Dimensions





Accessory

SMC

Description	Quantity
Hexagon socket head cap screw (M3 x 35)	2

Gateway Decentralised System 2

5 Port Solenoid Valve Series SY3000/5000/7000



For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

How to Order Manifold



Series

Type 10 Side Ported

Type 11 Bottom Ported

3	SY3000
5	SY5000
7	SY7000

* For mixed mounting, refer to the **WEB** catalogue or the SY series catalogue (CAT. EUS11-103).

2 Туре

- 7	
10	Side ported
11	Bottom ported Note)

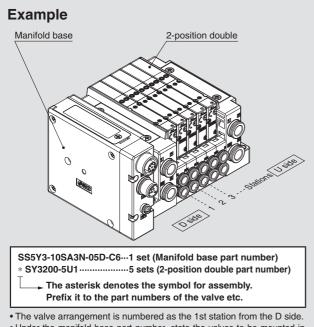
Note) The SY5000 manifold base is used for the bottom ported of the SY3000. When ordering, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

* When mixing top ported configurations, select from page 23.

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.

How to Order Manifold Assembly



Under the manifold base 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 the manifold specification sheet.

SI Unit (Number of outputs, Output polarity, Max. number of valve stations)

0	Without SI Unit			
A3N	32 outputs Note 1, 4), 1 to 16 stations (24 stations Note 3) Negative common Note 2			

- Note 1) 16 outputs can be set by switching the built-in setting switch.
- Note 2) Ensure a match with the common specification of the valve.
- Note 3) (): Maximum number of stations for mixed single and double wiring.
- Note 4) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).

4 Valve stations

	Stations	Note
02	2 stations	
:	÷	Double wiring Note 1)
16	16 stations	
02	2 stations	Mixed withing Creatived levert Note 2)
:	÷	Mixed wiring, Specified layout Note 2) (Available up to 32 solenoids)
24	24 stations	(Available up to 32 soleholds)

- 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) For the product 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.
- * This also includes the number of blanking plate assembly.

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)

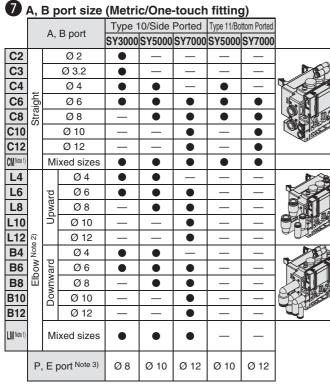
6 SUP/EXH block assembly

—	Internal pilot			
S	Internal pilot, Built-in silencer Note 1) 2)			
R	External pilot			

- Note 1) 3/5(E) port is plugged for the built-in silencer type.
- Note 2) When built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.



Gateway Decentralised System 2 5 Port Solenoid Valve Series SY3000/5000/7000



A, B port size (Inch/One-touch fitting)									
		A, B port		Type 1	0/Side	Ported	Type 11/Bo	ttom Ported	
		А,	ь роп	SY3000	SY5000	SY7000	SY5000	SY7000	
N1			Ø 1/8"			-	-	—	
N3		1	Ø 5/32"	•	•	_	•		
N7	igh		Ø 1/4"						
N9	Straight	1	Ø 5/16"	_	•	•	•		
N11			Ø 3/8"	—	_	٠	—		el Bass
CM Note 1)		Mi	xed sizes		•	•	•		
LN3	3	_	Ø 5/32"	•		-	-	_	
LN7		/arc	Ø 1/4"	•	•	_	_	—	
LN9		Upward	Ø 5/16"	_	•			_	
LN11	e 2)		Ø 3/8"	_		•	-	_	al Sasa
BN3 BN7 BN9	Note	rd	Ø 5/32"	•		-	-	_	
BN7	MOC	wa	Ø 1/4"		•			_	
BN9	Elb	Downward	Ø 5/16"	—	•	—	—	—	
BN11		Ω	Ø 3/8"	—	_		—	—	Ter
LM Note 1)		Mixed sizes		•	•	•	—	—	
	Ρ,	P, E port Note 3)		Ø 5/16"	Ø 3/8"	Ø 1/2"	Ø 3/8"	Ø 1/2"	

Note 1) Indicate the sizes on the manifold specification sheet.

Note 2) To avoid interference with the body or piping, select downward elbow port when mounting the optional spacer assembly. For details, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

Note 3) 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.

8 Mounting and Option

	Mounting	Option	
	Mounting	Name plate	Station number
—	Diverset	—	—
AA	Direct mounting	•	•
BA	mounting	•	—
D Note 1)		—	—
A Note 1)	DIN rail mounting	•	
B Note 1)			—

Note 1) Refer to "DIN Rail Option" below.

* Select the direct mounting type for Type 11 (Bottom ported).

DIN Rail Option

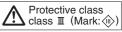
—	With DIN bracket, DIN rail with standard length
0	With DIN bracket, without DIN rail
3 Note)	With DIN bracket, DIN rail for 3 stations
:	:

24 Note) With DIN bracket, DIN rail for 24 stations

Note) Specify a longer rail than the length of valve stations.

* If the DIN rail must be mounted without an SI Unit, select "D0" and order the DIN rail separately. Refer to L3 of the dimensions for the DIN rail length. For the DIN rail part number, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

* For the fixation of DIN rail mounting type manifold, refer to the **WEB** catalogue or the SY series catalogue (CAT. EUS11-103).



多SMC

Gateway Decentralised System 2

YS

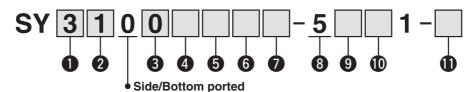
VQC

S0700

SV

Series SY3000/5000/7000

How to Order Valves (With mounting screw)



1 Series			
3	SY3000		
5	SY5000		
7	SY7000		

2 Type of actuation

1	2-position	Single
2	2-position	Double
3		Closed centre
4	3-position	Exhaust centre
5		Pressure centre
A Note)		N.C./N.C.
B Note)		N.O./N.O.
C Note)	5-poir valve	N.C./N.O.

Note) Select the rubber seal type for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pile	ot type	
—	Internal pilot	
R	External pilot	

5 Back pressure check valve

	None
H Note)	Built-in

Note) Select the rubber seal type when the back pressure check valve is built-in. Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. For ordering example, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103). 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.

* Select "-" for 3-position type and the SY7000.

6 Pilot valve option

— Standard (0.7 MPa)		
В	Quick response type (0.7 MPa)	
K Note)	High pressure type (1.0 MPa)	
Note) Select the metal seal type for high pressure		

type.

Coil type

—	Standard	
т	With power saving circuit (Continuous duty type) Note 1) 2)	

Note 1) Be sure to select the power saving circuit type when the valve is continuously energised for long periods of time.

Note 2) Be careful of the energising time when the power saving circuit is selected. For details, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

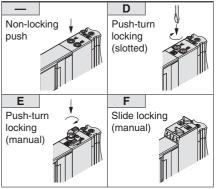


9 Light/surge voltage suppressor and common specification

	With light	Surge voltage suppressor	Common specification
R	_		Non-polar
U			Non-pola
NS	—	•	Negative
NZ			common

* Select "NZ" type for with the power saving circuit.

Manual override



Type of mounting screw

_	Round head combination screw
B Hexagon socket head cap scre	
к	Round head combination screw (Falling-out-prevention type) Note)
н	Hexagon socket head cap screw (Falling-out-prevention type) Note)

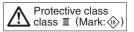
Note) For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance etc.

* 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.

For details, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

* Select "—" or "K" for the optional individual SUP/EXH spacer assembly, interface regulator or double check spacer assembly with residual pressure release valve.

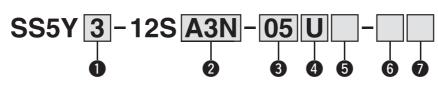


Gateway Decentralised System 2

5 Port Solenoid Valve Series SY3000/5000/7000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

How to Order Manifold



Series

Type 12 Top Ported

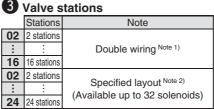
3	SY3000	
5	SY5000	
7	SY7000	

* For mixed mounting, refer to the **WEB** catalogue or the SY series catalogue (CAT. EUS11-103).

SI Unit (Number of outputs, Output polarity, Max. number of valve stations)

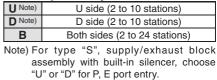
0 Without SI Unit		
	32 outputs Note 1, 4), 1 to 16 stations (24 stations Note 3), Negative common Note 2)	

- Note 1) 16 outputs can be set by switching the built-in setting switch.
- Note 2) Ensure a match with the common specification of the valve.
- Note 3) (): Maximum number of stations for mixed single and double wiring.
- Note 4) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).



- 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) For the product 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.
- * This also includes the number of blanking plate assembly.

P, E port entry



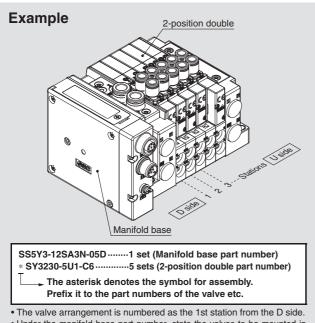
5 SUP/EXH block assembly

	internal pilot		
S Note 1)	Internal pilot, Built-in silencer Note 2)		
R	External pilot		
í í I	Note 1) For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P, E port entry. 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 silence		
6	exhaust port is U side.)		

Internal pilot

Note 2) When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

How to Order Manifold Assembly



The valve arrangement is numbered as the 1st station from the D side.
 Under the manifold base 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 the manifold specification sheet.

6 P, E port size (One-touch fittings

	SY3000	SY5000	SY7000	
_	Ø 8	Ø 10	Ø 12	
Note)	Ø 5/16"	Ø 3/8"	Ø 1/2"	

Note) For "N", sizes are in inches.

Mounting

—	Direct mounting	
D	With DIN bracket, DIN rail with standard length	
D0	With DIN bracket, without DIN rail	
D3 Note)	With DIN bracket, DIN rail for 3 stations	
:		
D24 Note)	With DIN bracket, DIN rail for 24 stations	

D24 Note) With DIN bracket, DIN rail for 24 stations Note) Specify a longer rail than the length of valve stations.

- * If the DIN rail must be mounted without an SI Unit, select "D0". Then, refer to L3 of the dimensions for the DIN rail length and order separately. For the DIN rail part number, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).
- * For the fixation of DIN rail mounting type manifold, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

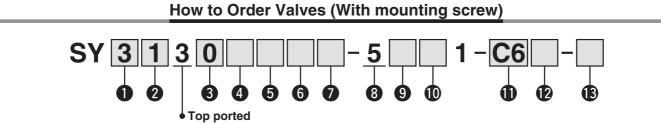
6

RoHS

SV

SY

Series SY3000/5000/7000



O Series				
3	SY3000			
5	SY5000			
7	SY7000			

2 Type of actuation

1	2-position	Single
2	2-0051001	Double
3		Closed centre
4	3-position	Exhaust centre
5		Pressure centre
A Note)	A second to second	N.C./N.C.
B Note)	4-position dual 3-port valve	N.O./N.O.
C Note)	5-poir valve	N.C./N.O.

Note) Select the rubber seal type for the 4-position dual 3-port valve.

3 Seal type

	ai type
0	Rubber seal
1	Metal seal

4 Pilot type

	Internal pilot
R	External pilot

Back pressure check valve (Built-in valve type)

—	None						
H Note)			E	Built-ir	1		
Noto) Sc	loct	tho	rubbor	coal	typo	whon	the

- Note) Select the rubber seal type when the back pressure check valve is built-in. Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. For ordering example, refer to the SY series catalogue (CAT. EUS11-103). 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.
- * Select "---" for 3-position type and the SY7000.

6 Pilot valve option

- Standard (0.7 MPa)		
В	Quick response type (0.7 MPa)	
K Note) High pressure type (1.0 MPa)		
lote) Select the metal seal type for high pressure		

Note) Select the metal seal type for high pressure type.

<u>7</u>	Coil	type

—	Standard		
т	With power saving circuit (Continuous duty type) Note 1) 2)		

- Note 1) Be sure to select the power saving circuit type when the valve is continuously energised for long periods of time.
- Note 2) Be careful of the energising time when the power saving circuit is selected. For details, refer to the SY series catalogue (CAT. EUS11-103).

8 Rated voltage

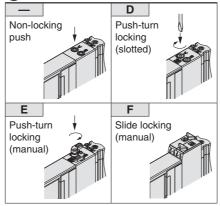
24 V DC

Sught/surge voltage suppressor and common specification

	With light	Surge voltage suppressor	Common specification
R	—		Non-polar
U			Non-polar
NS	_	•	Negative
NZ			common
	(A) (T) () () () () () () () () (

 Select "NZ" type for with the power saving circuit.

Manual override



1 A, B port size

Thre	Thread piping				
	Port size	SY3000	SY5000	SY7000	
M5	M5 x 0.8		—	—	
01	1/8	—		—	
02	1/4	—	—		

One-touch fitting (Metric)

	0 (,		
	A, B port	SY3000	SY5000	SY7000
C2	Ø 2		—	—
C3	Ø 3.2		—	—
C4	Ø 4			—
C6	Ø 6			
C 8	Ø 8	—		
C10	Ø 10	—	_	
C12	Ø 12		_	

One-touch fitting (Inch)

	A, B port	SY3000	SY5000	SY7000
N1	Ø 1/8"		_	—
N3	Ø 5/32"			—
N7	Ø 1/4"			
N9	Ø 5/16"	_		
N11	Ø 3/8"	_	_	

A, B port thread type

—	Rc
F	G
Ν	NPT
Т	NPTF

* Select "-" for M5.

(B) Type of mounting screw

- / /	.. <i>....<i>.</i>..</i>
—	Round head combination screw
В	Hexagon socket head cap screw
к	Round head combination screw (Falling-out-prevention type Note))
н	Hexagon socket head cap screw (Falling-out-prevention type Note)

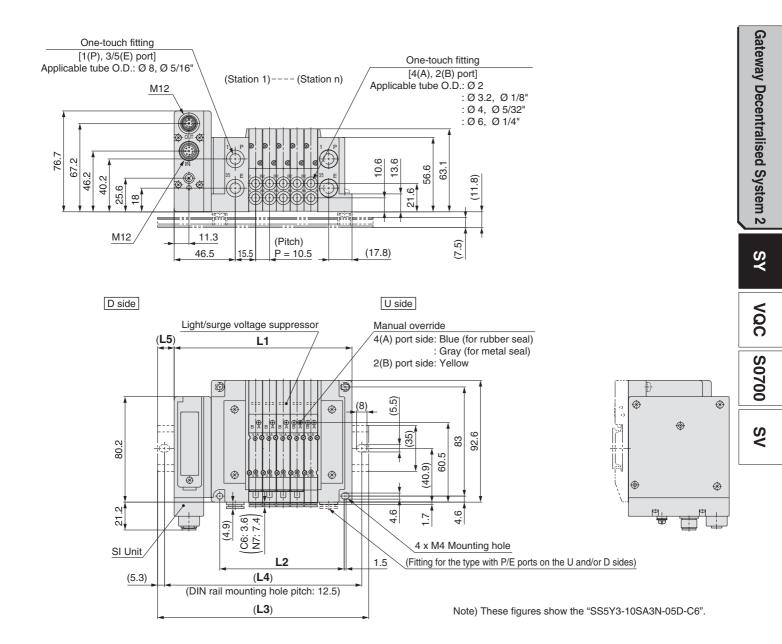
- Note) For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance etc.
- * When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance
- For details, refer to the SY series catalogue (CAT. EUS11-103).
- * Select "—" or "K" for the optional individual SUP/EXH spacer assembly or interface regulator.

	Protect	ive class (Mark: ())
2:\	class I	: (Mark: ())

Gateway Decentralised System 2 5 Port Solenoid Valve Series SY3000

Dimensions

Type 10/Side Ported Series SY3000



L: Dim	ension	IS												r	: Stations
/ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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
L2	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210
L3	135.5	148	148	160.5	173	185.5	198	210.5	223	223	235.5	248	260.5	273	285.5
L4	125	137.5	137.5	150	162.5	175	187.5	200	212.5	212.5	225	237.5	250	262.5	275
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
<u> </u>	47	40	40		04			04							
L	17	18	19	20	21	22	23	24							
L1	261.2	271.7	282.2	292.7	303.2	313.7	324.2	334.7							
L2	220.5	231	241.5	252	262.5	273	283.5	294		E FC	r dimonsi	ions of Ty		ttom port	ed type
L3	285.5	298	310.5	323	335.5	348	348	360.5							ne WEB
L4	275	287.5	300	312.5	325	337.5	337.5	350		ca	talogue	or the S	Y series		
L5	12	13	14	15	16	17	12	13		; El	JS11-103)).			

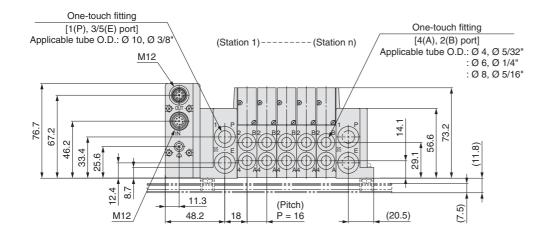


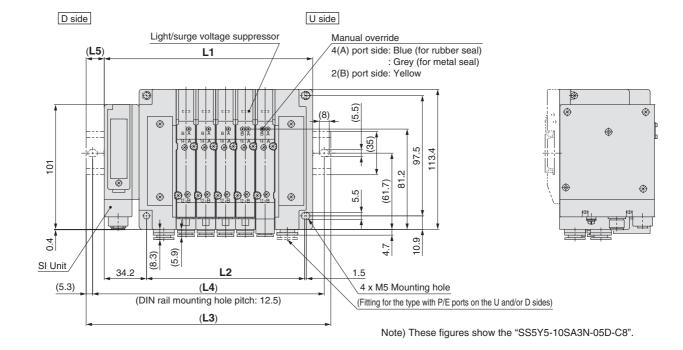
24

Series SY5000

Dimensions

Type 10/Side Ported Series SY5000





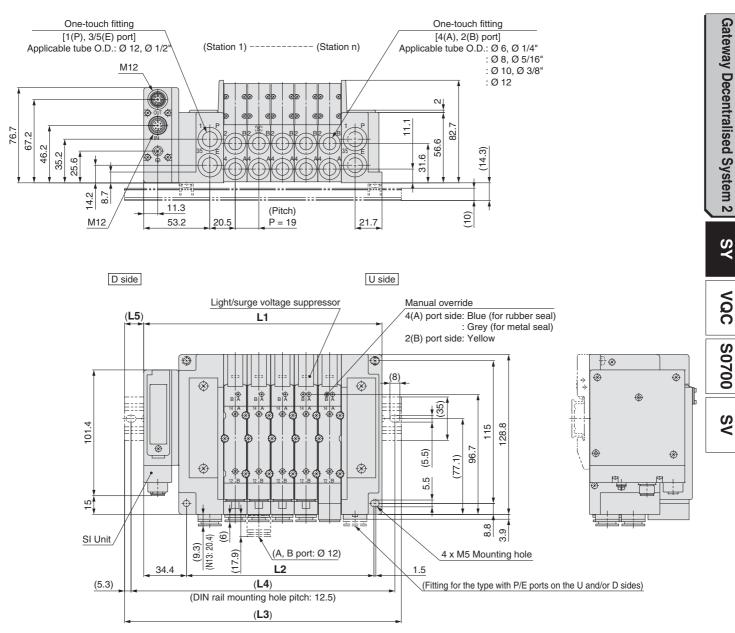
L: Dim	ension	S												r	1: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	120.7	136.7	152.7	168.7	184.7	200.7	216.7	232.7	248.7	264.7	280.7	296.7	312.7	328.7	344.7
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304
L3	148	160.5	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373
L4	137.5	150	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5
L5	13.5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14
∕_ n	17	18	19	20	21	22	23	24							
L1	360.7	376.7	392.7	408.7	424.7	440.7	456.7	472.7							
L2	320	336	352	368	384	400	416	432		(r dimonoi	one of T	(no. 11/De	++	ed type
L3	385.5	410.5	423	435.5	448	473	485.5	498			d Type 1	2/Top por	уре П/БС ted tvpe.	refer to th	ne WEB
L4	375	400	412.5	425	437.5	462.5	475	487.5		ca	talogue	or the S	Y series	catalogue	e (CAT.
L5	12.5	17	15	13.5	11.5	16	14.5	12.5		EL	JS11-103)). 			j

SMC

Gateway Decentralised System 2 5 Port Solenoid Valve Series SY7000

Dimensions

Type 10/Side Ported Series SY7000



Note) These figures show the "SS5Y7-10SA3N-05D-C10".

L: Dim	ension	S												r	n: Stations
_L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	134.9	153.9	172.9	191.9	210.9	229.9	248.9	267.9	286.9	305.9	324.9	343.9	362.9	381.9	400.9
L2	94	113	132	151	170	189	208	227	246	265	284	303	322	341	360
L3	160.5	185.5	198	223	235.5	260.5	273	298	310.5	335.5	348	373	398	410.5	435.5
L4	150	175	187.5	212.5	225	250	262.5	287.5	300	325	337.5	362.5	387.5	400	425
L5	13	16	12.5	15.5	12.5	15.5	12	15	12	15	11.5	14.5	17.5	14.5	17.5
n	17	18	19	20	21	22	23	24							
 L1	419.9	438.9	457.9	476.9	495.9	514.9	533.9	552.9							
L2	379	398	417	436	455	474	493	512		, Ec	r dimonoi	one of T			od type
L3	448	473	485.5	510.5	523	548	560.5	585.5	For dimensions of Type 11/Bottom ported type and Type 12/Top ported type, refer to the WEB						ne WEB
L4	437.5	462.5	475	500	512.5	537.5	550	575		ca	talogue	or the S	Y series	catalogu	e (CAT.
L5	14	17	14	17	13.5	16.5	13.5	16.5		EL	JS11-103)				

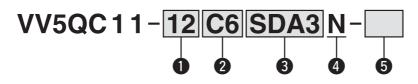
26

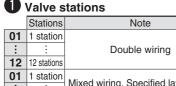
Gateway Decentralised System 2

5 Port Solenoid Valve Series VQC1000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC1000/2000 series catalogue (CAT. EUS11-101).

How to Order Manifold





Mixed wiring, Specified layout Note) (Available up to 24 solenoids) 24 24 stations

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

2 A, B port size

Metric size

C3	Straight piping: Ø 3.2 One-touch fitting
C4	Straight piping: Ø 4 One-touch fitting
C6	Straight piping: Ø 6 One-touch fitting
M5	Straight piping: M5 thread
CM Note 1)	Straight piping: Mixed sizes and with port plug
L3	Top ported elbow: Ø 3.2 One-touch fitting
L4	Top ported elbow: Ø 4 One-touch fitting
L6	Top ported elbow: Ø 6 One-touch fitting
L5	Top ported elbow: M5 thread
B3	Bottom ported elbow: Ø 3.2 One-touch fitting
B4	Bottom ported elbow: Ø 4 One-touch fitting
B6	Bottom ported elbow: Ø 6 One-touch fitting
B5	Bottom ported elbow: M5 thread
LM Note 1)	Elbow piping: Mixed sizes and with port plug
MM Note 2)	Mixed size for different types of piping, option installed

Inch size

N1	Straight piping: Ø 1/8" One-touch fitting
N3	Straight piping: Ø 5/32" One-touch fitting
N7	Straight piping: Ø 1/4" One-touch fitting
NM Note1)	Straight piping: Mixed sizes and with port plug
LN1	Top ported elbow: Ø 1/8" One-touch fitting
LN3	Top ported elbow: Ø 5/32" One-touch fitting
LN7	Top ported elbow: Ø 1/4" One-touch fitting
BN1	Bottom ported elbow: Ø 1/8" One-touch fitting
BN3	Bottom ported elbow: Ø 5/32" One-touch fitting
BN7	Bottom ported elbow: Ø 1/4" One-touch fitting
LNM Note1)	Elbow piping: Mixed sizes and with port plug
BNM Note 2)	Mixed size for different types of piping, option installed

- Note 1) Indicate the sizes on the manifold specification sheet.
- Note 2) When a combination of straight and elbow piping is or when option such as dual flow fitting assembly is mounted, please mention the mounting conditions in the Manifold Specification.

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

SD0 Without SI Unit

32 outputs Note 1, 3), 1 to 12 stations (24 stations Note 2)) SDA3

Note 1) Due to the internal wiring of the valve, the maximum number of outputs is 24 points. 16 outputs can be set by switching the built-in setting switch.

Note 2) (): Maximum number of stations for mixed single and double wiring.

Note 3) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).

4 SI Unit (Output polarity)

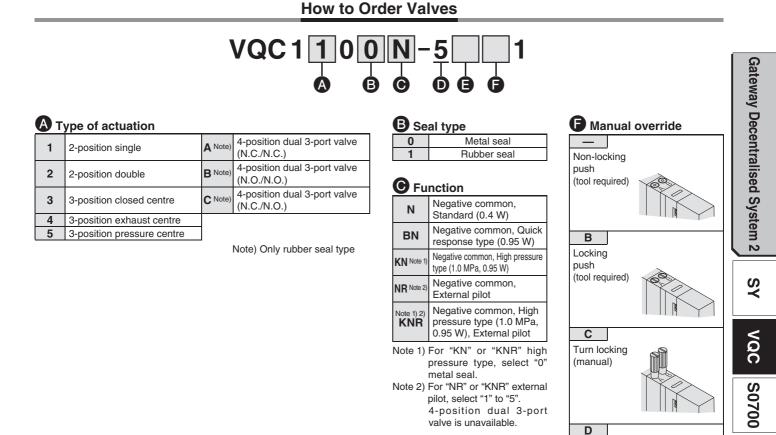
	onit (output polanty)
_	(Without SI Unit)
Ν	Negative common
F	a second alla sociale alla a secondaria e

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

5 Op	tion
	None
B Note 1)	With back pressure check valve (All stations)
D	With DIN bracket, DIN rail with standard length
D0	With DIN bracket, without DIN rail
D Note 2)	With DIN bracket, DIN rail for \Box stations
K Note 3)	Special wiring specification (Except double wiring)
N	With name plate
R Note 4)	External pilot
S Note 5)	Built-in silencer, Direct exhaust
t t t Note 2) [When a back pressure check valve is used only for specified station, specify he back pressure check valve part number, and specify the station number o which the valve is mounted, on the manifold specification sheet. : Specify a longer rail than the length of valve stations. Example) "-D08"
	n this case, the valves will be mounted on the DIN rail for 8 stations, regardless of the number of manifold stations.

- Note 3) When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet.
- Note 4) For external pilot option "-R", indicate the external pilot specification "R" for the applicable valves as well.
- Note 5) Built-in silencer type does not satisfy IP67

Gateway Decentralised System 2 5 Port Solenoid Valve Series VQC1000



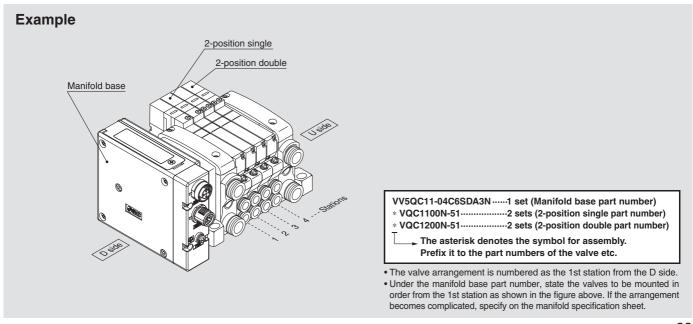
D Coil voltage

24 V DC

Light/surge voltage suppressor

With light/surge voltage suppressor

How to Order Manifold Assembly

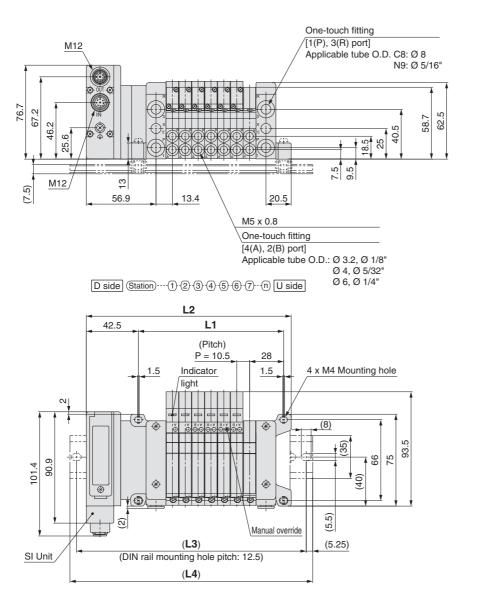


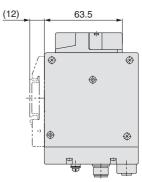
Slide locking (manual)

SS

Series VQC1000

Dimensions





L: Dim	ension	IS												r	: Stations
L n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5
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
L3	125	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5	275
L4	135.5	148	160.5	173	185.5	198	198	210.5	223	235.5	248	260.5	260.5	273	285.5
L	16	17	18	19	20	21	22	23	24						
L1	213	223.5	234	244.5	255	265.5	276	286.5	297						
L2	261.7	272.2	282.7	293.2	303.7	314.2	324.7	335.2	345.7						
L3	287.5	300	312.5	325	325	337.5	350	362.5	375						
L4	298	310.5	323	335.5	335.5	348	360.5	373	385.5						

SMC

Gateway Decentralised System 2

5 Port Solenoid Valve Series VQC2000

How to Order Manifold

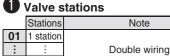
VV5QC21-12 C8 SDA3

YS

VQC

S0700

SS



12 12 stations 01 1 station Mixed wiring, Specified layout Note) (Available up to 24 solenoids) 24 24 stations

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

A, B port size Metric size

Straight piping: Ø 4 One-touch fitting						
Straight piping: Ø 6 One-touch fitting						
Straight piping: Ø 8 One-touch fitting						
Straight piping: Mixed sizes and with port plug						
Top ported elbow: Ø 4 One-touch fitting						
Top ported elbow: Ø 6 One-touch fitting						
Top ported elbow: Ø 8 One-touch fitting						
Bottom ported elbow: Ø 4 One-touch fitting						
Bottom ported elbow: Ø 6 One-touch fitting						
Bottom ported elbow: Ø 8 One-touch fitting						
Elbow piping: Mixed sizes and with port plug						
Mixed size for different types of piping, option installed						
Inch size						
Straight piping: Ø 1/8" One-touch fitting						
Straight piping: Ø 5/32" One-touch fitting						
Straight piping: Ø 1/4" One-touch fitting						
Straight piping: Mixed sizes and with port plug						
Top ported elbow: Ø 1/8" One-touch fitting						
Top ported elbow: Ø 5/32" One-touch fitting						
Top ported elbow: Ø 1/4" One-touch fitting						
Bottom ported elbow: Ø 1/8" One-touch fitting						
Bottom ported elbow: Ø 5/32" One-touch fitting						
Bottom ported elbow: Ø 1/4" One-touch fitting						
Elbow piping: Mixed sizes and with port plug						
Mixed size for different types of piping, option installed						

- Note 1) Indicate the sizes on the manifold specification sheet.
- Note 2) When a combination of straight and elbow piping is or when option such as dual flow fitting assembly is mounted, please mention the mounting conditions in the Manifold Specification.

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

SD0 Without SI Unit

32 outputs Note 1, 3), 1 to 12 stations (24 stations Note 2)) SDA3

Note 1) Due to the internal wiring of the valve, the maximum number of outputs is 24 points. 16 outputs can be set by switching the built-in setting switch.

Note 2) (): Maximum number of stations for mixed single and double wiring.

Note 3) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).

4 SI Unit (Output polarity)

_	(Without SI Unit)
М	Negative common

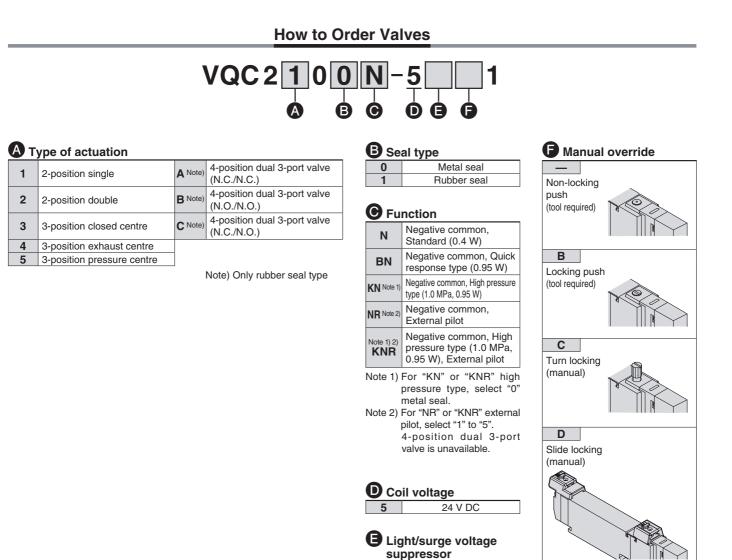
Negative common * Ensure a match with the common

specification of the valve to be used.

—	None
B Note 1)	With back pressure check valve (All stations)
D	With DIN bracket, DIN rail with standard length
D0	With DIN bracket, without DIN rail
D Note 2)	
K Note 3)	Special wiring specification (Except double wiring
Ν	With name plate
R Note 4)	External prior
S Note 5)	Built-in silencer, Direct exhaust
T Note 6)	P and R ports included on both sides of the U side
í	used only for specified station, speci the back pressure check valve pa
	When a back pressure check valve used only for specified station, speci- the back pressure check valve pa number, and specify the station number to which the valve is mounted, on the manifold specification sheet.
Note 2)	When a back pressure check valve used only for specified station, speci the back pressure check valve pa number, and specify the station numbe to which the valve is mounted, on the manifold specification sheet. : Specify a longer rail than the lengt of valve stations. Example) "-D08" In this case, the valves will be mounted on the DIN rail for 8 stations, regardles
Note 2) Note 3)	When a back pressure check valve used only for specified station, speci the back pressure check valve pa number, and specify the station numb to which the valve is mounted, on the manifold specification sheet. : Specify a longer rail than the leng of valve stations. Example) "-D08" In this case, the valves will be mounted

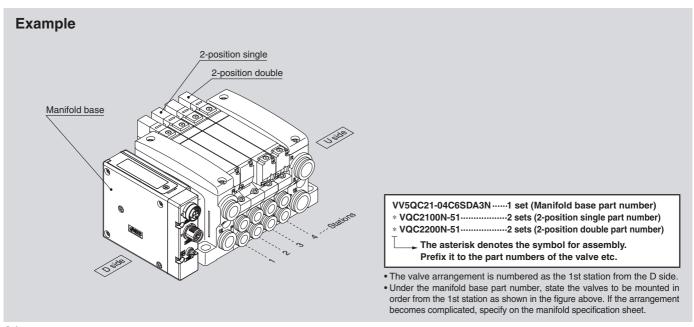
- Note 4) For external pilot option "-R", indicate the external pilot specification "R" for the applicable valves as well.
- Note 5) Built-in silencer type does not satisfy IP67.
- Note 6) P and R ports are included on both sides of U side (cylinder port and coil side) with Ø 12 One-touch fittings.

Series VQC2000



With light/surge voltage suppressor

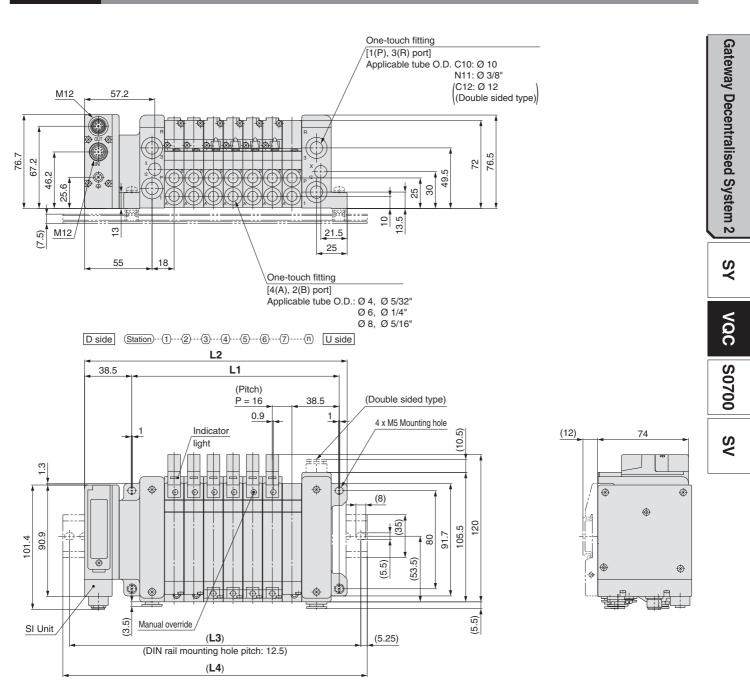
How to Order Manifold Assembly





Gateway Decentralised System 2 5 Port Solenoid Valve Series VQC2000

Dimensions



L: Dim	ensior	IS												r	n: Stations
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297
L2	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342
L3	137.5	162.5	175	187.5	212.5	225	237.5	250	275	287.5	300	325	337.5	350	362.5
L4	148	173	185.5	198	223	235.5	248	260.5	285.5	298	310.5	335.5	348	360.5	373
<u> </u>	16	17	18	19	20	21	22	23	24						
	313	329	345	361	377	393	409	425	441	-					
LI	313	329	345	301	3//	393	409	420	441	-					
L2	358	374	390	406	422	438	454	470	486						
L3	387.5	400	412.5	437.5	450	462.5	475	500	512.5	_					
L4	398	410.5	423	448	460.5	473	485.5	510.5	523						

SMC

32

Gateway Decentralised System 2

5 Port Solenoid Valve Series VQC4000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

How to Order Manifold

VV5QC41-12

Valve stations

	Stations	Note	
01	1 station		
	:	Double wiring	
12	12 stations		
01	1 station	Mixed winner Creatified levent Note	
:	:	Mixed wiring, Specified layout ^{Note} (Available up to 24 solenoids)	
16	16 stations	(Available up to 24 soleholds)	

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

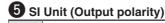
	4	SI Unit (Number	of outputs,	Max.	number	of valve	stations)
--	---	-----------	--------	-------------	------	--------	----------	-----------

SDA3

SD0	Without SI Unit
SDA3	32 outputs Note 1, 3) 1 to 12 stations (16 stations Note 2)

Note 1) Due to the internal wiring of the valve, the maximum number of outputs is 24 points.

Note 2) (): Maximum number of stations for mixed single and double wiring. Note 3) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).



—	(Without SI Unit)
Ν	Negative common

6 Option

K^{Note)} Special wiring specification (Except double wiring)

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

Cylinder port size
 With Ø 6 One-touch fitting
 With Ø 8 One-touch fitting
 With Ø 10 One-touch fitting

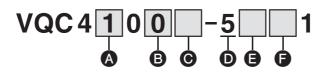
0.0	That S is one to do in hang
C12	With Ø 12 One-touch fitting
N7	Ø 1/4" One-touch fitting
N9	Ø 5/16" One-touch fitting
N11	Ø 3/8" One-touch fitting
02	1/4 Note)
03	3/8 Note)
В	Bottom ported 1/4 Note)
СМ	Mixed sizes

Note) Compatible with Rc, G, NPT/NPTF. Part number displayed is as shown below.

B T	3 Thread type					
—	Rc					
F	G					
N	NPT					
Т	NPTF					

Gateway Decentralised System 2 5 Port Solenoid Valve Series VQC4000

How to Order Valves



A Type of actuation

	1	2-position single	4	3-position exhaust centre
ſ	2	2-position double	5	3-position pressure centre
	3	3-position closed centre	6 Note)	3-position double check

Note) For double check type, refer to the WEB catalogue or the VQ4000/5000 series catalogue (CAT. EUS11-104).

B Seal type					
0	Metal seal				
1	Rubber seal				

. .

G Func	tion
Note 1)	Standard (0.95 W)
Y	Low wattage type (0.4 W)
R Note 2)	External pilot
fied, indic Note 1) Wh gis "Sp tior I o VQ log Note 2) For pilo cat VQ log ado	altiple symbols are speci- trate them alphabetically. Then the power is ener- ed continuously, refer to becific Product Precau- ns 1" in the WEB cata- gue or the (C4000/5000 series cata- ue (CAT. EUS11-108). The details about the external to type, refer to the WEB trategue or the 4000/5000 series cata- ue (CAT. EUS11-104). In dition, an external pilot type anot be combined with the

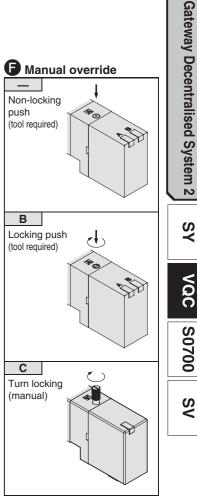
D Coil voltage

5 24 V DC

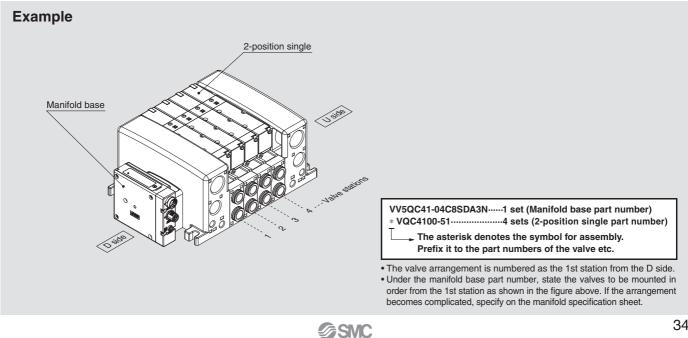
double check spacer.

E Light/surge voltage suppressor

—	With			
Е	Without light, with surge			
E	voltage suppressor			

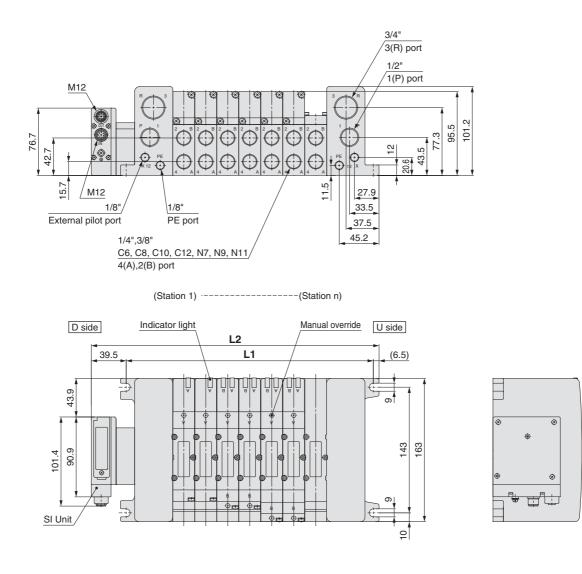


How to Order Manifold Assembly



Series VQC4000

Dimensions



	Formula: L1 = 25n + 106, L2 = 25n + 152 n: Stations (Maximum 16														3 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

5 Port Solenoid Valve Series VQC5000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

How to Order Manifold

03

VV5QC51-12

	Valve stations										
		Stations	Note								
	01	1 station									
	:	÷	Double wiring								
	12	12 stations									
01 1 statio		1 station	Nixed withing Creatified layout Note)								
	:	:	Mixed wiring, Specified layout Note) (Available up to 24 solenoids)								
	16	16 stations	(Available up to 24 soleholds)								

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

4	SI Unit (Number of outputs, Max. number of valve stations
	000	

SDA3

500	Without SI Unit
SDA3	32 outputs Note 1, 3), 1 to 12 stations (16 stations Note 2))

Note 1) Due to the internal wiring of the valve, the maximum number of outputs is 24 points.

Note 2) (): Maximum number of stations for mixed single and double wiring. Note 3) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).

2 Cylinder port size

03	3/8 Note)						
04	1/2 Note)						
В	Bottom ported 1/4 Note)						
СМ	CM Mixed sizes						

Note) Compatible with Rc, G, NPT/NPTF. Part number displayed is as shown below.

3 Thread type

_	Rc
F	G
Ν	NPT
Т	NPTF

5 SI Unit (Output polarity)

	(W	ithout	SI Unit)	
Ν	Neg	gative	common	

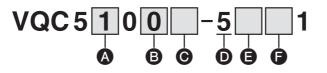
6	Op	otion
	_	None

	None
K Note)	Special wiring specification (Except double wiring)
Note) W	/hen single wiring and double wiring are

mixed, specify wiring type of each station on the manifold specification sheet.

Series VQC5000

How to Order Valves



A Type of actuation

1	2-position single		3-position exhaust centre
2	2-position double	5	3-position pressure centre
3	3-position closed centre	6 Note)	3-position double check

Note) For double check type, refer to the WEB catalogue or the VQ4000/5000 series catalogue (CAT. EUS11-104).

B Seal type							
0	Metal seal						
1	Rubber seal						

D Coil voltage

E Light/surge voltage suppressor

5

Е

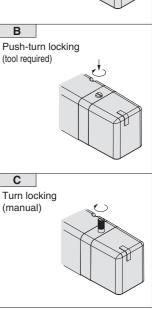
G Func	tion	
Note 1)	Standard (0.95 W)	
Y	Low wattage type (0.4 W)	1
R Note 2)	External pilot	F
fied, indic Note 1) Wh gise "Sp tion I og VQ log Note 2) For pilo cat VQ logu adc can	Itiple symbols are speci- ate them alphabetically. en the power is ener- ed continuously, refer to vecific Product Precau- is 1" in the WEB cata- gue or the C4000/5000 series cata- ue (CAT. EUS11-108). details about the external t type, refer to the WEB alogue or the 4000/5000 series cata- ue (CAT. EUS11-104). In lition, an external pilot type not be combined with the uble check spacer.	(

24 V DC

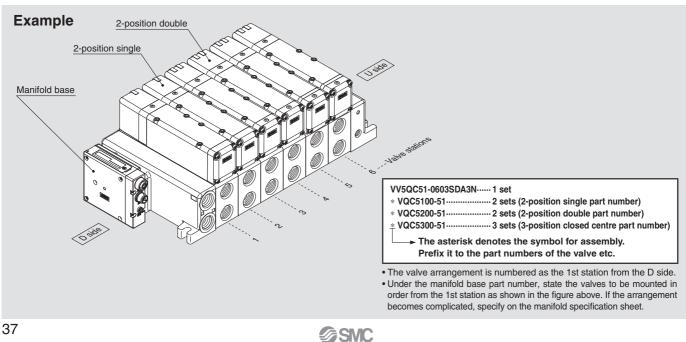
With Without light, with surge

voltage suppressor

Manual override Non-locking push (tool required)

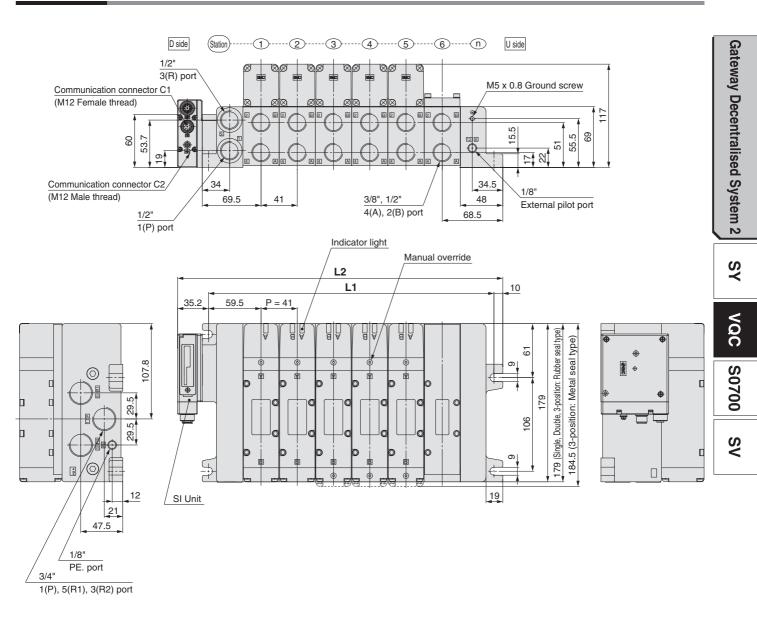


How to Order Manifold Assembly



Gateway Decentralised System 2 5 Port Solenoid Valve Series VQC5000

Dimensions



Formula: L1 = 41n + 77, L2 = 41n + 122 n: Stations (Maximum 12 stations)

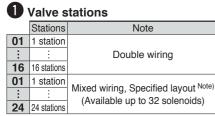
Ĺ	<u> </u>	1	2	3	4	5	6	7	8	9	10	11	12
_	L1	118	159	200	241	282	323	364	405	446	487	528	569
	L2	163.2	204.2	245.2	286.2	327.2	368.2	409.2	450.2	491.2	532.2	573.2	614.2

5 Port Solenoid Valve Series S0700

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the S0700 series catalogue (CAT. EUS11-88).

How to Order Manifold

SS0750-08 C4 C8 SDA3 N-B



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

2 A, B port size

Metric size

mound	0.20				
C2	Ø 2 One-touch fitting				
C3	Ø 3.2 One-touch fitting				
C4	Ø 4 One-touch fitting				
CM Note)	Mixed sizes and with port plug				
Inch size					
N1	Ø 1/8" One-touch fitting				
N3	Ø 5/32" One-touch fitting				
NM Note)	Mixed sizes and with port plug				

Note) Indicate the sizes on the manifold specification sheet.

B P, R port size Metric size

—	Ø 8 One-touch fitting Note)			
C6	C6 Ø 6 One-touch fitting			
C8	Ø 8 One-touch fitting			
Inch size				
N7	Ø 1/4" One-touch fitting			
N9	Ø 5/16" One-touch fitting			

Note) When A and B ports are inch size, the One-touch fitting will be changed to Ø 5/16".

4 SI Unit (Number of outputs, Max. number of valve stations
--

SD0	Without SI Unit
SDA3	32 outputs Note 1, 3), 1 to 16 stations (24 stations Note 2)

Note 1) 16 outputs can be set by switching the built-in setting switch.

Note 2) (): Maximum number of stations for mixed single and double wiring. Note 3) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System 2 (128 points).

5 SI Unit (Output polarity)

—	(Without SI Unit)
Ν	Negative common

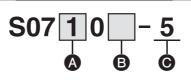
6 Option

—	None	
B Note 1)	With back pressure check valve (All stations)	
D	D With DIN bracket, DIN rail with standard lengt	
D0	With DIN bracket, without DIN rail	
D Note 2)	With DIN bracket, DIN rail for \Box stations	
K Note 3)	Special wiring specification (Except double wiring)	
Ν	With name plate	
R Note 4)	External pilot	
S	Built-in silencer	
Note 1) V t r Note 2) 0 E	Iphabetically. Example) "-BKN" When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the manifold specification sheet. □: Specify a longer rail than the length of valve stations. Example) "-D08" In this case, the valves will be mounted on the DIN rail for 8 stations, regardless of the number of manifold stations.	
Note 3) \	When single wiring and double wiring	

- Note 3) When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet.
- Note 4) For external pilot option "-R", indicate the external pilot specification "R" for the applicable valves as well.

Gateway Decentralised System 2 5 Port Solenoid Valve Series S0700

How to Order Valves



G Rated voltage



A Type of actuation

1	2-position single			
2	2-position double			
A Note)	4-position dual 3-port (N.C. + N.C.) [Exhaust centre]			
B Note)	4-position dual 3-port (N.O. + N.O.) [Pressure centre]			
	4-position dual 3-port (N.C. + N.O.)			

B Function

—	Internal pilot						
R Note)	External pilot						
Note) F	or external pilot, select "1" 2-position						

Note) For external pilot, select "1" 2-positi single or "2" 2-position double.

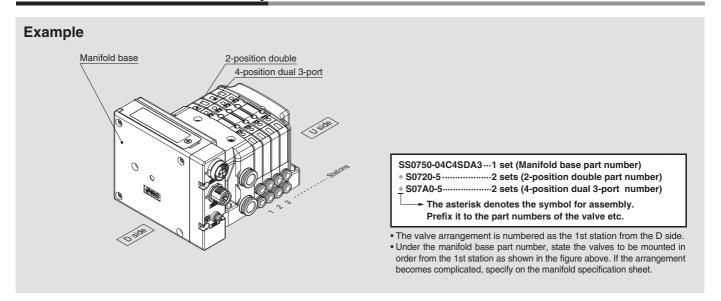
S0700 SV

Gateway Decentralised System 2

YS

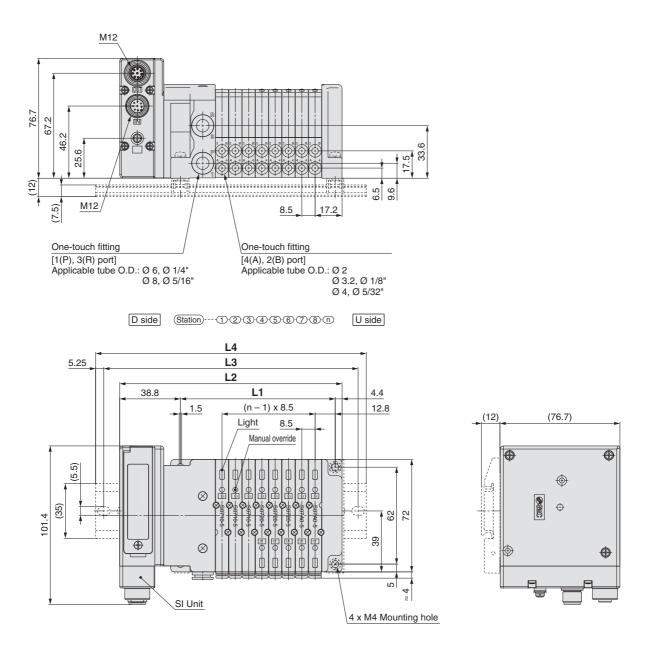
VQC

How to Order Manifold Assembly



Series S0700

Dimensions



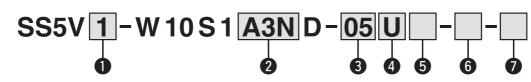
Dimen	Dimensions Formula: L1 = 8.5n + 31, L2 = 8.5n + 74 n: Stations (Maximum 24 stations)															
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	39.5	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	82.5	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210
L3	112.5	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5
L4	123	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248
L	17	18	19	20	21	22	23	24								
L1	175.5	184	192.5	201	209.5	218	226.5	235								
L2	218.5	227	235.5	244	252.5	261	269.5	278								
L3	250	250	262.5	275	275	287.5	300	300								
L4	260.5	260.5	273	285.5	285.5	298	310.5	310.5								

SMC

5 Port Solenoid Valve Series SV1000/2000/3000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the SV series catalogue (CAT. EUS11-81).

How to Order Manifold



Series

0

A3N

Conco					
1	SV1000				
2	SV2000				
3	SV3000				

2 SI Unit (Number of outputs, Output polarity,

Note 1) 16 outputs can be set by switching the

mixed single and double wiring. Note 3) When using the SI Unit with 32 outputs, use the GW Unit compatible with the EX500 Gateway Decentralised System

Without SI Unit

32 outputs Note 1, 3), Negative common,

1 to 16 stations (20 stations Note 2))

Max. number of valve stations)

built-in setting switch. Note 2) (): Maximum number of stations for

P, E port entry					
U	U side (2 to 10 stations)				
D	D side (2 to 10 stations)				
В	Both sides (2 to 20 stations)				

5 SUP/EXH block assembly

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

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

7 Mounting

_	Direct mounting						
D	With DIN bracket, DIN rail with standard length						
D0 With DIN bracket, without DIN rail							
D3 Note)	With DIN bracket, DIN rail for 3 stations						
:							
D20 Note)	With DIN bracket. DIN rail for 20 stations						

Note) Specify a longer rail than the length of

valve stations. * If the DIN rail must be mounted without an SI Unit, select "D0" and order the DIN rail separately. Refer to L3 of the dimensions for the DIN rail length. For the DIN rail part number, refer to the **WEB catalogue** or the SV series catalogue (CAT. EUS11-81).

CE

6 A, B port size Metric size

	A, B port	P, E port	Applicable series
C3	Ø 3.2 One-touch fitting	Ø 8	
C4	Ø 4 One-touch fitting	One-touch	SV1000
C6	Ø 6 One-touch fitting	fitting	
C4	Ø 4 One-touch fitting	Ø 10	
C6	Ø 6 One-touch fitting	One-touch	SV2000
C8	Ø 8 One-touch fitting	fitting	
C6	Ø 6 One-touch fitting	Ø 12	
C8	Ø 8 One-touch fitting	One-touch	SV3000
C10	Ø 10 One-touch fitting	fitting	
M Note)	A, B port mixed		
Inch s	ize		
	A, B port	P, E port	Applicable series
N1	Ø 1/8" One-touch fitting	Ø 5/16"	
N3	Ø 5/32" One-touch fitting	One-touch	SV1000
N7	Ø 1/4" One-touch fitting	fitting	
N3	Ø 5/32" One-touch fitting	Ø 3/8"	
NZ	Ø 1/4" One tough fitting	One touch	SV2000

One-touch N7 Ø 1/4" One-touch fitting SV2000 fitting N9 Ø 5/16" One-touch fitting Ø 1/4" One-touch fitting N7 Ø 3/8" N9 Ø 5/16" One-touch fitting One-touch SV3000 N11 Ø 3/8" One-touch fitting fitting A, B port mixed M Note)

Note) Indicate the sizes on the manifold specification sheet.

* The X and PE port size of external pilot type [R, RS] are Ø 4 (mm) or Ø 5/32" (inch) for the SV1000/2000 series, and Ø 6 (mm) or Ø 1/4" (inch) for the SV3000 series.



3 Valve stations

	Stations	Note					
02	2 stations						
	:	Double wiring Note 1)					
16	16 stations	-					
02	2 stations	Mixed wining Creatified Invent Note 2					
	:	Mixed wiring, Specified layout Note 2 (Available up to 32 solenoids)					
20	20 stations	(Available up to 32 soleholds)					

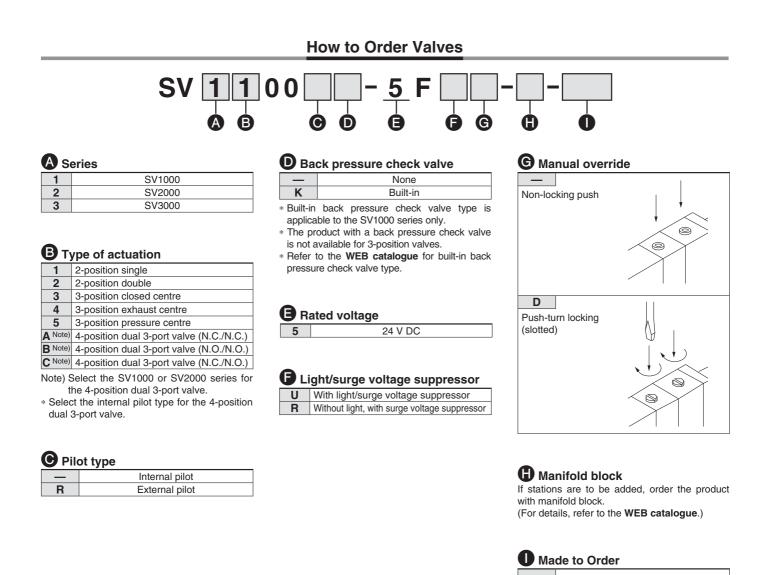
Note 1) Double wiring: single, double, 3-position and 4-position valves can be used on all manifold stations. Use of a single solenoid will result in an

unused control signal. If this is not desired, order with a specified layout. Note 2) Specified layout: Indicate the wiring

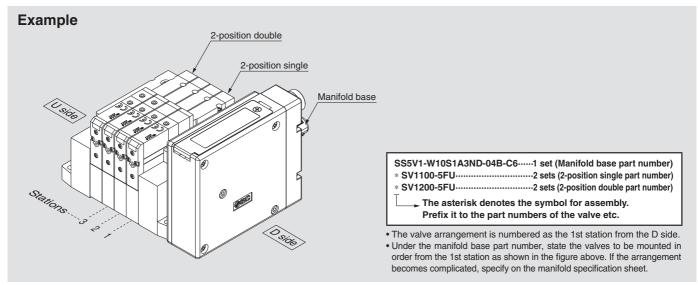
specifications on the manifold specification sheet. (Note that double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

SMC SMC

Series SV1000/2000/3000



How to Order Manifold Assembly



SMC

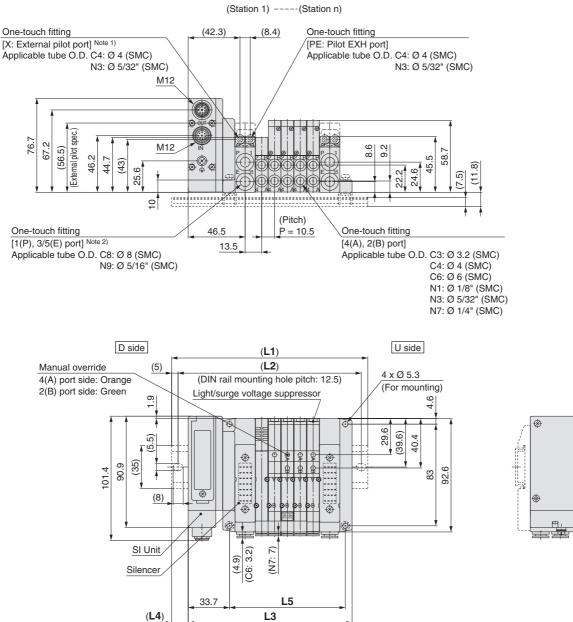
Main valve fluororubber specification (For

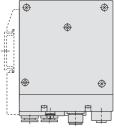
details, refer to the WEB catalogue.)

X90

Gateway Decentralised System 2 5 Port Solenoid Valve Series SV1000

Tie-rod Base Series SV1000





Note 1) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions. Note 2) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

L: DIN	: DIN Rail Overall Length n: Stations																		
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

SMC

Dimensions

44

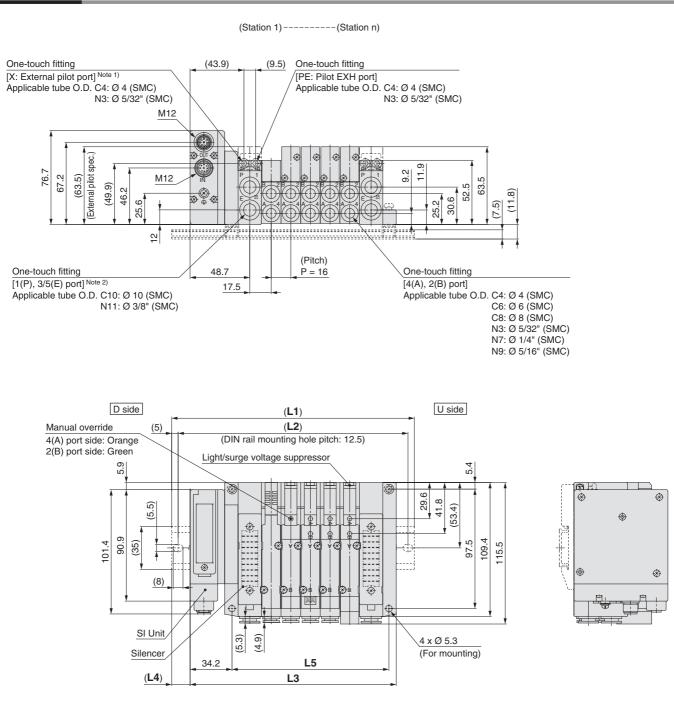
S0700

۷S

Series SV2000

Dimensions

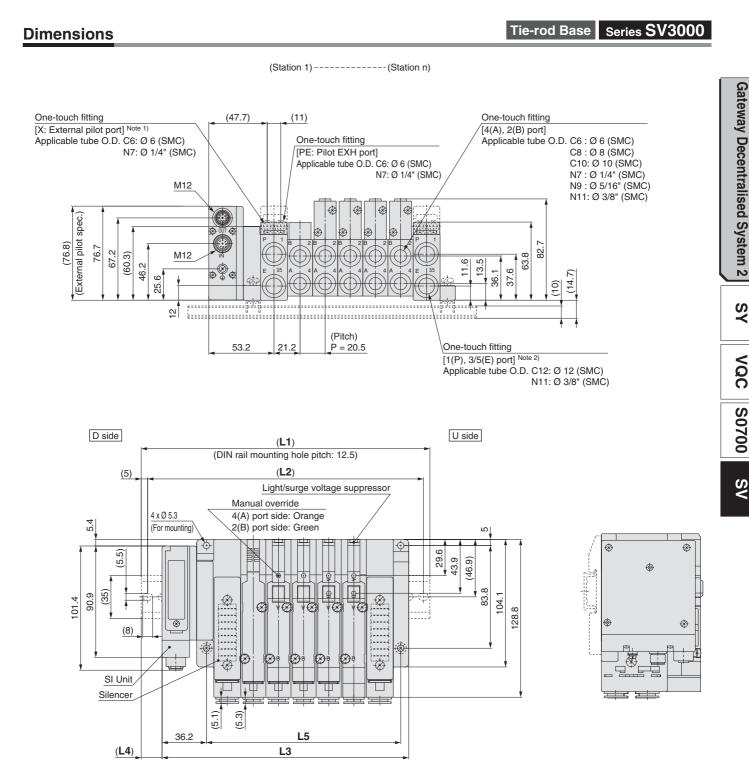
Tie-rod Base Series SV2000



Note 1) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions. Note 2) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

L: DIN	: DIN Rail Overall Length n: Stations																		
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	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	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368

SMC



Note 1) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions. Note 2) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

L: DIN	: DIN Rail Overall Length n: Stations																		
Ln	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

\wedge

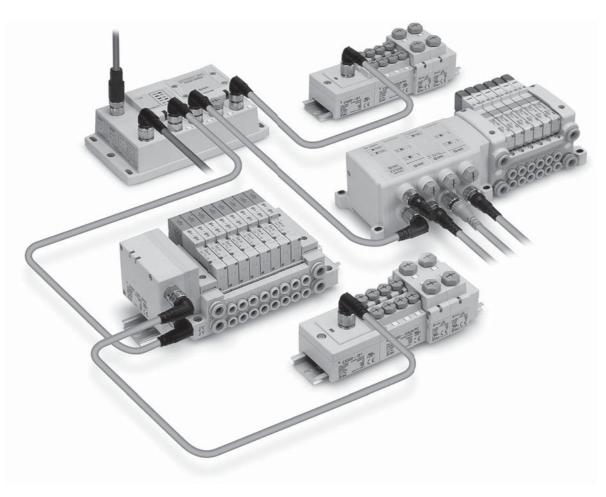
Series EX500 Precautions on Mixed Usage of Gateway Decentralised System 2 (128 Points) and Gateway Decentralised System (64 Points)

		GW	Unit
		Gateway Decentralised System 2 (128 points) • EX500-GEN2 • EX500-GPN2	Gateway Decentralised System (64 points) • EX500-GDN1 • EX500-GPR1A
	Gateway Decentralised System 2 (128 points) • EX500-S103 • EX500-DX□□	Usable	Usable Same functions of Gateway Decentralised System (64 points)
SI Unit Input Unit	Gateway Decentralised System (64 points) • EX500-S001 • EX500-Q001/002 • EX500-Q101/102 • EEX500-IB1-□ (EX500-IB1)	Usable Same functions of Gateway Decentralised System (64 points)	Usable

Series EX500

Gateway Decentralised System (64 Points)

- \star Valve manifold and Input Unit can be connected around the GW (Gateway) Unit.
- \star Compatible with other protocols by replacing the GW Unit.
- ★ Number of inputs/outputs = 64 points/64 points. The number of outputs (solenoids) per branch is 16 points.
- Number of valve manifold connections = Max. 4 Units, Number of Input Unit connections = Max. 4 Units, Cable length = Max. 10 m
- \star No need to set the address for the valve manifold and Input Unit.



SY3000/5000/7000	Page 59
VQC1000/2000/4000/5000	Page 67
S0700	Page 79
SV1000/2000/3000/4000	Page 82

Gateway Decentralised System SY VQC S0700 SV

Series EX500 Gateway Decentralised System (64 Points) **GW Unit**

How to Order

RoHS

EX500-GDN1

C	Communication protocol
DN1	DeviceNet™

2	(Input/Output = 64 points/64 points)
PR1A	PROFIBUS DP (Input/Output = 64 points/64 points)

Specifications

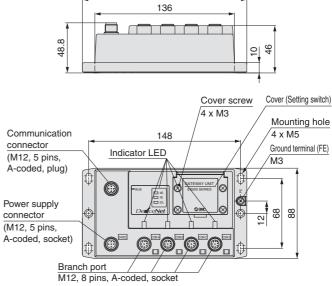
1000

Ν	/lodel	EX500-GDN1	EX500-GPR1A						
	Protocol	DeviceNet™	PROFIBUS DP						
	Version Note 1)	Release 2.0	DP-V0						
	Communication speed	125 k/250 k/500 kbps	9.6 k/19.2 k/45.45 k/ 93.75 k/187.5 k/500 k/ 1.5 M/3 M/6 M/12 Mbps						
Communication	Configuration file Note 2)	EDS file	GSD file						
	Number of inputs/outputs (I/O occupation area)	64 inputs/64 outputs (8 bytes/8 bytes)							
	Terminating resistor	Not provided	Built into the Unit						
Power supply	For control	11 to 25 V DC (Supplied by DeviceNet™ circuit, 50 mA or less)	24 V DC ±10 %						
voltage	For input device	24 V DC ±10 %							
	For valve	24 V DC +	10 %, -5 %						
Current consumption	For input and control	3.0 A or less (Max. 0.7 A per branch x 4 branches + GW Unit internal current consumption: 0.2 A or less)							
	For valve	3.0 A or less (Max. 0.75 A per branch x 4 branches)							
	Number of branch ports	4 ports							
Branch port	Number of inputs and outputs	16 inputs/16 outputs per branch							
	Branch cable length		n connected devices s per branch)						
	Enclosure	IP	65						
Environment	Operating temperature range	Operating: 5 to 45 °C (No freezing and							
	Operating humidity range	Operating, Store (No cond							
Standards	S	CE marking, UL (CSA), RoHS compliant							
Weight		47	0 g						
Enclosed	parts	Seal cap (for M12 connector) 4 pcs.	Seal cap (for M12 connector) 5 pcs.						
	a that the version	n is subject to change.							

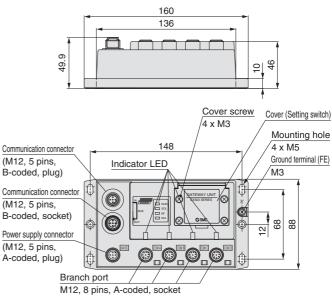
Note 1) Note that the version is subject to change. Note 2) Each file can be downloaded from SMC website, http://www.smc.eu

Dimensions/Parts Description

EX500-GDN1 (DeviceNet[™]) 160



EX500-GPR1A (PROFIBUS DP)



Series EX500 Gateway Decentralised System (64 Points) SI Unit

Output Unit for valve manifold connection

How to Order

RoHS

Applicable valve: Series SV

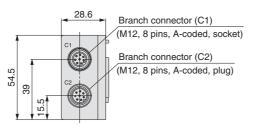


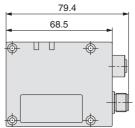
Specifications

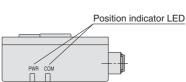
	Model	EX500-S001					
	Number of outputs	16 outputs					
Output	Output type	Sink/NPN (Positive common)					
	Supply current	Max. 0.65 A					
	Rated voltage	24 V					
Internal current consumption		100 mA or less					
	Enclosure	IP67					
Environment	Operating temperature range	Operating: 5 to 45 °C, Stored: -25 to 70 °C (No freezing and condensation)					
	Operating humidity range	Operating, Stored: 35 to 85 %RH (No condensation)					
Standards		CE marking, UL (CSA), RoHS compliant					
Weight		115 g					
Enclosed parts		Seal cap (for M12 connector socket) 1 pc.					

Dimensions/Parts Description

EX500-S001



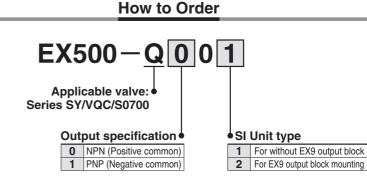






For SY3000/5000/7000, VQC1000/2000/4000/5000, S0700



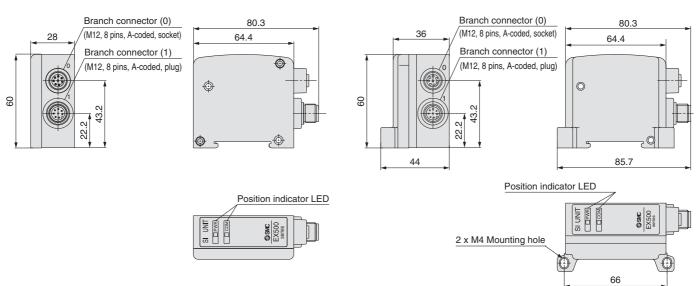


Specifications

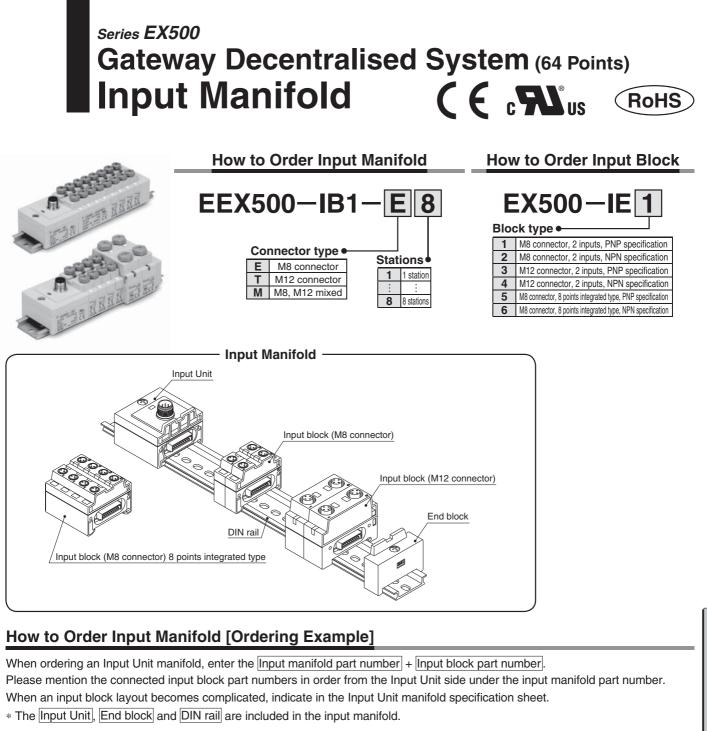
	Model	EX500-Q001	EX500-Q001 EX500-Q101 EX500-Q002 EX500-Q							
	Number of outputs	16 outputs								
Quitaut	Output type	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)					
Output	Rated voltage	24 V DC								
	Supply current	Max. 0.75 A								
Internal curren	t consumption	100 mA or less								
	Enclosure	IP67								
Environment	Operating temperature range	Operating: 5 to 45 °C, Stored: -25 to 70 °C (No freezing and condensation)								
	Operating humidity range		Operating, Stored: 35 to 85 % RH (No condensation)							
Standards		CE marking, RoHS compliant								
Weight		105 g								
Enclosed parts	3	Seal cap (for M12 connector socket) 1 pc.								

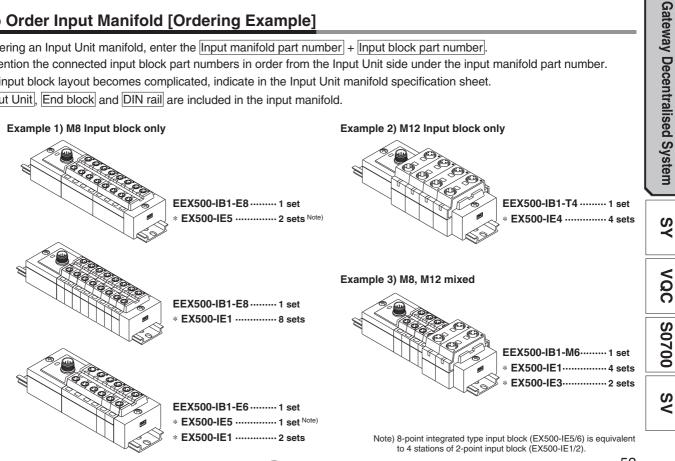
Dimensions/Parts Description

EX500-Q□01



EX500-Q 02





SMC

Series EX500

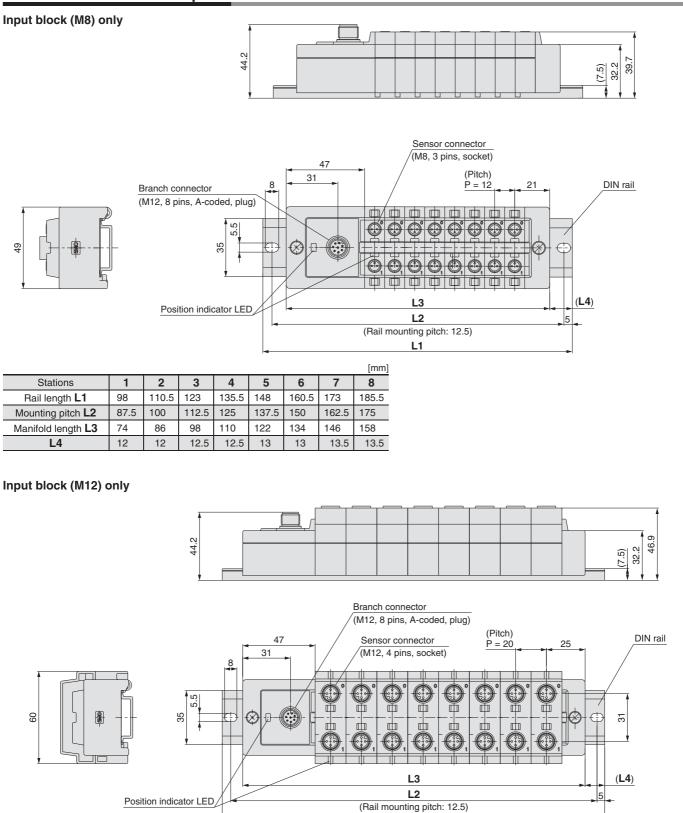
Specifications (Input Unit)

	Model	EX500-IB1					
	Number of inputs	16 inputs					
Input	Connection block	EX500-IE□ (Mixed combination is possible.)					
input	Connection block stations	2-input, input block: Max. 8 stations 8-input, input block: Max. 2 stations					
Internal current co	nsumption	100 mA or less					
	Enclosure	IP65					
Environment	Operating temperature range	Operating: 5 to 45 °C, Stored: -25 to 70 °C (No freezing and condensation)					
	Operating humidity range	Operating, Stored: 35 to 85 %RH (No condensation)					
Standards		CE marking, UL (CSA), RoHS					
Weight		100 g (Input Unit + End block)					

Specifications (Input Block)

	Model	EX500-IE1	EX500-IE2	EX500-IE3	EX500-IE4	EX500-IE5	EX500-IE6			
	Connector type	M8 (3	pins)	M12 (4	4 pins)	M8 (3	pins)			
	Input type	PNP	NPN	PNP	NPN	PNP	NPN			
Innut	Number of inputs		2 in	8 in	puts					
Input	Input device supply voltage	24 V DC								
	Input device supply current	Max. 480 mA/Input Unit manifold								
	Rated input current	Approx. 5 mA								
	Enclosure	IP65								
Environment	Operating temperature range	Operating: 5 to 45 °C, Stored: -25 to 70 °C (No freezing and condensation)								
	Operating humidity range	Operating, Stored: 35 to 85 %RH (No condensation)								
Standards		CE marking, UL (CSA), RoHS compliant								
Weight		20) g	40) g	55	5 g			
Enclosed part	S	Seal cap (for M8	connector) 2 pcs.	Seal cap (for M12	connector) 2 pcs.	Seal cap (for M8	connector) 8 pcs.			

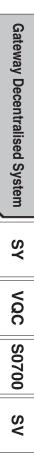
Dimensions/Parts Description



L1

SMC

								[mm]
Stations	1	2	3	4	5	6	7	8
Rail length L1	110.5	123	148	173	185.5	210.5	223	248
Mounting pitch L2	100	112.5	137.5	162.5	175	200	212.5	237.5
Manifold length L3	82	102	122	142	162	182	202	222
L4	12	12	12.5	12.5	13	13	13.5	13.5



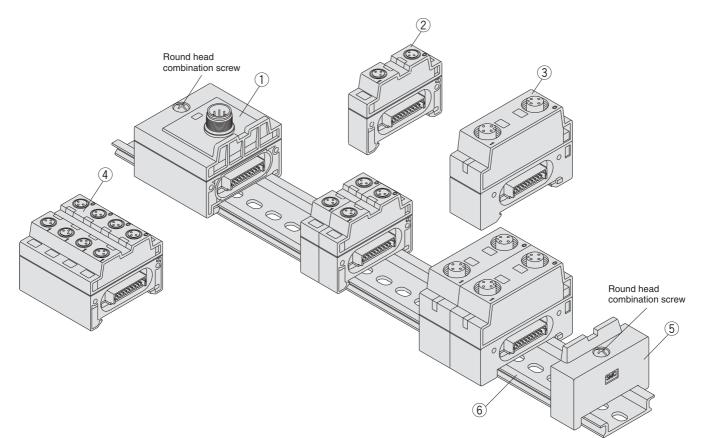
Series EX500

How to Add Input Block Stations

How to add input block stations

- 1. Loosen the round head combination screws (2 places) that hold the end block.
- 2. Separate the blocks at the locations where stations are to be added.
- 3. Attach the additional blocks to the DIN rail, and connect the blocks so that they fit together securely.

4. While holding the blocks together so that there are no gaps between them, secure them to the DIN rail by tightening the round head combination screws. Note: Be sure to tighten the round head combination screw with the prescribed tightening torque. (0.6 N·m)



Parts List

No.	Description	Part number	Note
INO.	Description	For standard	Note
1	Input Unit	EX500-IB1	
2	Input block (M8 connector)	EX500-IE□	PNP Specification…□: 1, NPN Specification…□: 2
3	Input block (M12 connector)	EX500-IE	PNP Specification…□: 3, NPN Specification…□: 4
4	Input block (M8 connector) 8 points integrated type	EX500-IE	PNP Specification…□: 5, NPN Specification…□: 6
(5)	End block	EX500-EB1	
6	DIN rail	VZ1000-11-1-□	: Number based on L dimension (Refer to the table below.)

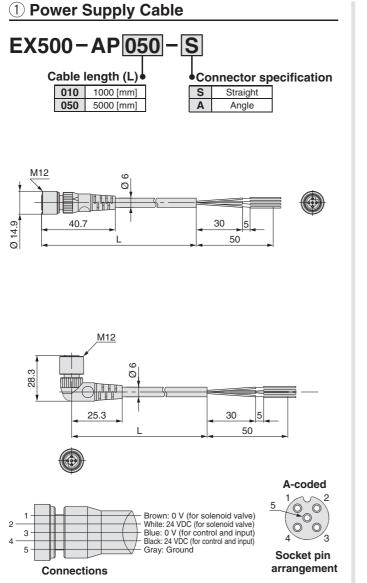
DIN Rail L Dimensions [mm]

Chat					M8 in	put bloc	ck (m)	Connector type	No.	L	Nia	L			
Stations		0	1	2	3	4	5	6	7	8	For E (m = 1 to 8)	INO.	dimension	No.	dimension
	0	\geq	0	1	2	3	4	5	6	7		0	98	7	185.5
	1	1	2	3	4	5	6	7	8			1	110.5	8	198
k (n)	2	2	3	4	5	6	7	8				2	123	9	210.5
block	3	4	5	6	7	8	9				L dimensions	3	135.5	10	223
ut b	4	6	7	8	9	10	0					4	148	11	235.5
input	5	7	8	9	10			Inector t	type n = 2 to	8)		5	160.5	12	248
M12	6	9	10	11			1.01	WI (III I	11 - 2 10	0)		6	173		
2	7	10	11												
	8	12													

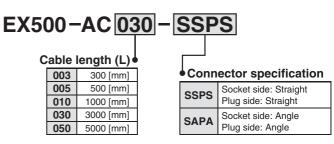
Connector type For T (n = 1 to 8)

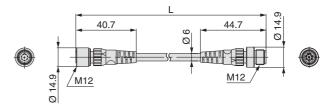


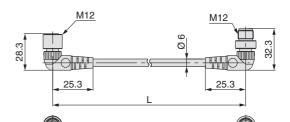
Series EX500 Gateway Decentralised System (64 Points) Accessories



2 Branch Cable









5 Socket pin arrangement Gateway Decentralised System SY VQC

A-coded

5

Plug pin

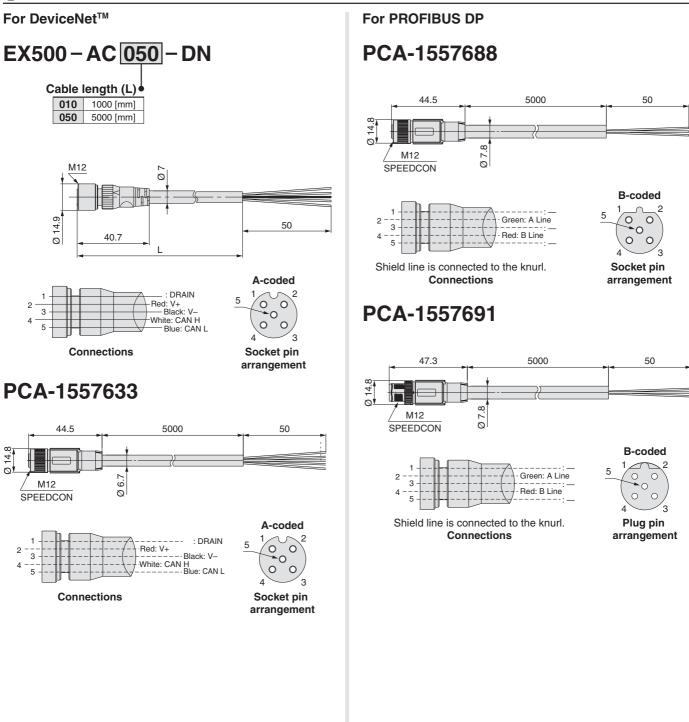
arrangement

7

8 2

Series EX500

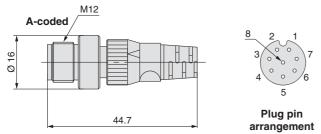
③ Communication Cable



④ Terminal Plug

Use this where an input unit manifold is not being used. (If a terminal plug is not used, the GW unit's COM LED will not light up.)

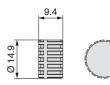
EX500-AC000-S



(5) Seal Cap (1 pc.)

Use with new connector (plug). By using these waterproof caps, the connector maintains IP65/67 enclosure.

EX500-AWTP



6 Seal Cap (10 pcs.)

Use with new connector. By using these waterproof caps, the new connector maintains IP65/67 enclosure.

EX9-AWES EX9-AWTS
For M8 connector socket
For M12 connector socket





• Refer to page 16 for details about output block and power block.

5 Port Solenoid Valve Series SY3000/5000/7000

(E RoHS

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

How to Order Manifold

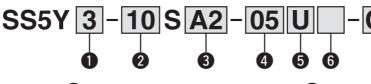
SI Unit (Number of outputs, Output polarity,

Max. number of valve stations)

single wiring.

A2

A2N



16 outputs, Positive common Note 1),

1 to 8 stations (16 stations) Note 2) 16 outputs, Negative common Note 1),

1 to 8 stations (16 stations) Note 2)

Note 1) Ensure a match with the common spec-

ification of the valve to be used. Note 2) (): Maximum number of stations for

Series

Type 10 Side Ported

Type 11 Bottom Ported

3	SY3000
5	SY5000
7	SY7000

 For mixed mounting, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

2 Туре

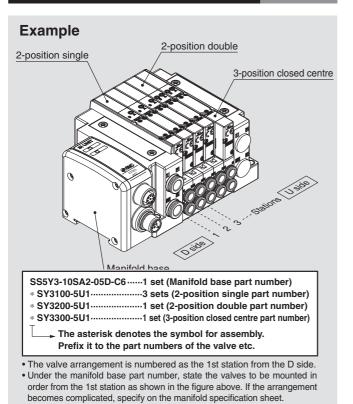
10	Side ported
11	Bottom ported Note)

Note) The SY5000 manifold base is used for the bottom ported of the SY3000. When ordering, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

* When mixing top ported configurations, select from page 63.

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.

How to Order Manifold Assembly



4 Valve stations

	Stations	Note
02	2 stations	
:	:	Double wiring Note 1)
08	8 stations	
02	2 stations	Mixed withing Creatified levent Note 2)
:	:	Mixed wiring, Specified layout Note 2)
16	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) For the product 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.

* This also includes the number of blanking plate assembly.

5 P, E port entry

<u> </u>	
U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

6 SUP/EXH block assembly

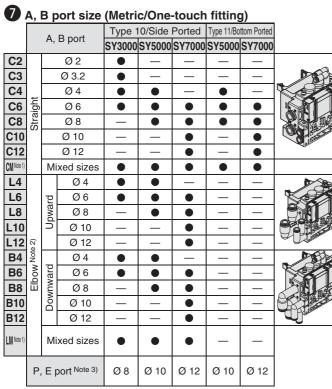
—	Internal pilot								
S	Internal pilot, Built-in silencer Note 1) 2)								
R	External pilot								

Note 1) 3/5(E) port is plugged for the built-in silencer type.

Note 2) When built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.



Gateway Decentralised System 5 Port Solenoid Valve Series SY3000/5000/7000



A , E	A, B port size (Inch/One-touch fitting)												
		^	Dimont	Type 1	0/Side	Ported	Type 11/Bo	ttom Ported					
		A, B port		SY3000	SY5000	SY7000	SY5000	SY7000					
N1			Ø 1/8"	٠	_	_	_	_					
N3		!	Ø 5/32"	•	•	_	•	_					
N7	ight		Ø 1/4"	•	•	•	•	•					
N9	Straight	Ø 5/16"		_	•	•	•	•					
N11	100		Ø 3/8"	_		•	_	•	el ^{Bass}				
CM Note 1)		Mi	xed sizes	٠	•	٠	٠	٠					
LN3			Ø 5/32"	•	_	_	_	_					
LN7		/arc	Ø 1/4"	•	•	_	_	_					
LN9		Jpward	Ø 5/16"	_	•	_	_	_					
LN11	92)		Ø 3/8"	—	_	•	_	_	elsasse				
BN3	Elbow ^{Note}	p	Ø 5/32"	•	_	_	_	_					
BN7	NO	wai	Ø 1/4"	•	•	_	_	_					
BN9		ownward	Ø 5/16"	_	٠	_	_	_					
BN11		ŏ	Ø 3/8"	—	_		—	—	- Jalan				
LM Note 1)		Mixed sizes		•	•	•							
	P, E port Note 3)			Ø 5/16"	Ø 3/8"	Ø 1/2"	Ø 3/8"	Ø 1/2"					

rt size (Inch/One-touch fitting)

Note 1) Indicate the sizes on the manifold specification sheet.

Note 2) To avoid interference with the body or piping, select downward elbow port when mounting the optional spacer assembly. For details, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

Note 3) 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.

8 Mounting and Option

	Mounting	Option	
	Mounting	Name plate	Station number
	Direct mounting	_	—
AA		•	•
BA		•	—
D Note 1)	DIN rail mounting	—	—
A Note 1)		•	
B Note 1)			—

Note 1) Refer to "DIN Rail Option" below.

* Select the direct mounting type for Type 11 (Bottom ported).

DIN Rail Option

	•
_	With DIN bracket, DIN rail with standard length
0	With DIN bracket, without DIN rail
3 Note)	With DIN bracket, DIN rail for 3 stations
:	÷

16 Note) With DIN bracket, DIN rail for 16 stations

Note) Specify a longer rail than the length of valve stations.

* If the DIN rail must be mounted without an SI Unit, select "D0" and order the DIN rail separately. Refer to L3 of the dimensions for the DIN rail length. For the DIN rail part number, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

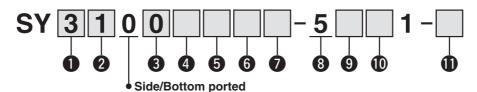
* For the fixation of DIN rail mounting type manifold, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

SV

Protective class class Ⅲ (Mark: ())

Series SY3000/5000/7000

How to Order Valves (With mounting screw)



1 Sei	ries
3	SY3000
5	SY5000
7	SY7000

2 Type of actuation

1	2-position	Single	
2	2-0051001	Double	
3		Closed centre	
4	3-position	Exhaust centre	
5		Pressure centre	
A Note)	A second to second	N.C./N.C.	
B Note)	4-position dual 3-port valve	N.O./N.O.	
C Note)	5-poir valve	N.C./N.O.	

Note) Select the rubber seal type for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pile	ot type		
—		Internal pilot	
R		External pilot	

5 Back pressure check valve

	None
H Note)	Built-in

Note) Select the rubber seal type when the back pressure check valve is built-in. Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. For ordering example, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103). 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.

* Select "---" for 3-position type and the SY7000.

6 Pilot valve option

—	Standard (0.7 MPa)	
B Quick response type (0.7 MPa)		
K Note) High pressure type (1.0 MPa)		
Note) Select the metal seal type for high pressure		

type.

Coil type

_	Standard	
т	With power saving circuit (Continuous duty type) Note 1) 2)	

Note 1) Be sure to select the power saving circuit type when the valve is continuously energised for long periods of time.

Note 2) Be careful of the energising time when the power saving circuit is selected. For details, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

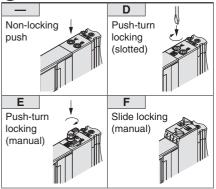


9 Light/surge voltage suppressor and common specification

	With light	Surge voltage suppressor	Common specification
R	—		Non-polar
U			ΝοΠ-ροιαί
S	—		Positive
Z		•	common
NS	—		Negative
NZ			common

* Only "Z" and "NZ" types are available for with the power saving circuit. Select a valve from "R, U, S or Z" when the SI Unit specification is "A2" (positive common). Select a valve from "R,U, NS or NZ" when the SI Unit specification is "A2N" (negative common).

Manual override



Type of mounting screw

Round head combination screw	
Hexagon socket head cap screw	
Round head combination screw (Falling-out-prevention type) Note)	
Hexagon socket head cap screw (Falling-out-prevention type) Note)	

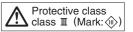
Note) For "K" and "H", the valve body cover has a drop prevention construction to stop the mounting screws from falling out when the valve is removed for maintenance etc.

* 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.

For details, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

* Select "—" or "K" for the optional individual SUP/EXH spacer assembly, interface regulator or double check spacer assembly with residual pressure release valve.

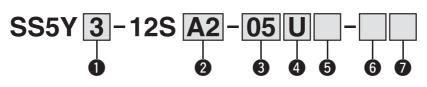


5 Port Solenoid Valve Series SY3000/5000/7000

C E RoHS

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

How to Order Manifold



Series

Type 12 Top Ported

3	SY3000
5	SY5000
7	SY7000

* For mixed mounting, refer to the **WEB** catalogue or the SY series catalogue (CAT. EUS11-103).

SI Unit (Number of outputs, Output polarity, Max. number of valve stations)

maxi number er varre statiener					
A2	1 to 8 stations (16 stations) Note 2)				
A2N	16 outputs, Negative common Note 1), 1 to 8 stations (16 stations) Note 2)				

Note 1) Ensure a match with the common specification of the valve to be used.

Note 2) (): Maximum number of stations for single wiring.

Stations Note 02 2 stations i i 08 8 stations 02 2 stations 03 8 stations 04 9 stations 05 9 stations 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) For the product 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.

* This also includes the number of blanking plate assembly.

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 16 stations)

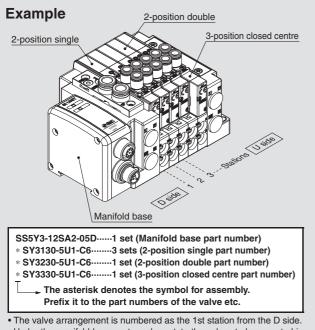
Note) For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P, E port entry.

5 SUP/EXH block assembly

—	Internal pilot			
S Note 1)	Internal pilot, Built-in silencer Note 2)			
R	External pilot			

- Note 1) For type "S", supply/exhaust block assembly with built-in silencer, choose "U" or "D" for P, E port entry. 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.)
- Note 2) When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

How to Order Manifold Assembly



The valve arrangement is numbered as the 1st station from the D side.
Under the manifold base 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 the manifold specification sheet.

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

• ,			57			
	SY3000	SY5000	SY7000			
—	Ø 8	Ø 10	Ø 12			
Note)	Ø 5/16"	Ø 3/8"	Ø 1/2"			
Noto) For "NI" cizco oro in inches						

Note) For "N", sizes are in inches.

Mounting

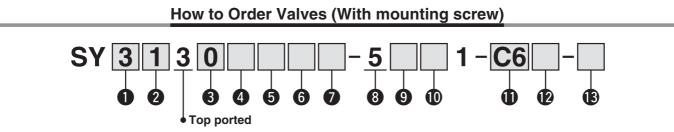
—	Direct mounting			
D	Vith DIN bracket, DIN rail with standard length			
D0	With DIN bracket, without DIN rail			
D3 Note)	With DIN bracket, DIN rail for 3 stations			
:				
D d O Mater				

D16 Note) With DIN bracket, DIN rail for 16 stations

- Note) Specify a longer rail than the length of valve stations. * If the DIN rail must be mounted without an SI Unit, select "D0". Then, refer to L3 of the dimensions for the DIN rail
- "D0". Then, refer to L3 of the dimensions for the DIN rail length and order separately. For the DIN rail part number, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).
- For the fixation of DIN rail mounting type manifold, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).



Series SY3000/5000/7000



1 Sei	ries
3	SY3000
5	SY5000
7	SY7000

2 Type of actuation

1	2-position	Single	
2	2-position	Double	
3		Closed centre	
4	3-position	osition Exhaust centre	
5		Pressure centre	
A Note)	4-position dual 3-port valve	N.C./N.C.	
B Note)		N.O./N.O.	
C Note)		N.C./N.O.	

Note) Select the rubber seal type for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pile	ot type	
—	Intern	al pilot
R	Exterr	nal pilot

5 Bac	k pressure check valve (Built-in valve type)
_	None

- H Note) Built-in
 Note) Select the rubber seal type when the back pressure check valve is built-in. Manifold installed type is available if the back pressure check valve is required for a valve with metal seal. For ordering example, refer to the SY series catalogue (CAT. EUS11-103). 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.
- * Select "---" for 3-position type and the SY7000.

6 Pilot valve option

— Standard (0.7 MPa)		
В	Quick response type (0.7 MPa)	
K Note)	High pressure type (1.0 MPa)	
Note) Select the motal seal type for high pressure		

Note) Select the metal seal type for high pressure type.

7	Co	il	ty	ре	

—	Standard
т	With power saving circuit (Continuous duty type) Note 1) 2)

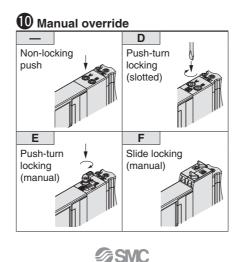
- Note 1) Be sure to select the power saving circuit type when the valve is continuously energised for long periods of time.
- Note 2) Be careful of the energising time when the power saving circuit is selected. For details, refer to the SY series catalogue (CAT. EUS11-103).

8 Rated voltage 5 24 V DC

Light/surge voltage suppressor and common specification

	With light	Surge voltage suppressor	Common specification
R	—		Non-polar
U			Νοπ-ροιαί
S	—		Positive
Z		•	common
NS	—		Negative
NZ	•		common
			-

* Only "Z" and "NZ" types are available for with the power saving circuit. Select a valve from "R, U, S or Z" when the SI Unit specification is "A2" (positive common). Select a valve from "R,U, NS or NZ" when the SI Unit specification is "A2N" (negative common).



A, B port size

Thre	Thread piping								
	Port size	SY3000	SY5000	SY7000					
M5	M5 x 0.8		—	—					
01	1/8	—		—					
02	1/4		_						

One-touch fitting (Metric)

	A, B port	SY3000	SY5000	SY7000
C2	Ø 2		_	—
C3 C4	Ø 3.2		_	—
	Ø 4			—
C6	Ø 6			
C 8	Ø 8	_		
C10	Ø 10		_	
C12	Ø 12		_	

One-touch fitting (Inch)

	A, B port	SY3000	SY5000	SY7000
N1	Ø 1/8"		_	—
N3	Ø 5/32"			—
N7	Ø 1/4"			
N9	Ø 5/16"	—		
N11	Ø 3/8"	_	_	

A, B port thread type

-	
—	Rc
F	G
N	NPT
Т	NPTF

* Select "-" for M5.

1 Type of mounting screw

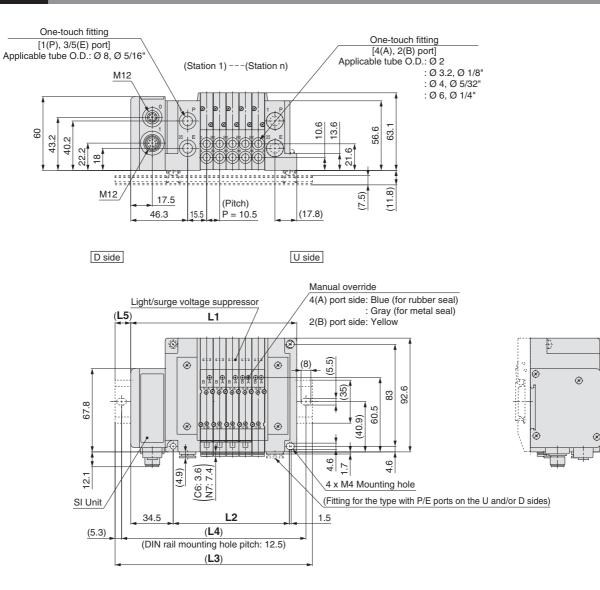
· · / ·	se et meaning cerem
_	Round head combination screw
В	Hexagon socket head cap screw
К	Round head combination screw (Falling-out-prevention type) Note)
н	Hexagon socket head cap screw (Falling-out-prevention type) Note)

- Note) 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. For details, refer to the SY series
- catalogue (CAT. EUS11-103). * Select "—" or "K" for the optional individual SUP/EXH spacer assembly or interface regulator.



Dimensions

Type 10/Side Ported Series SY3000



Note) These figures show the "SS5Y3-10SA2-05D-C6".

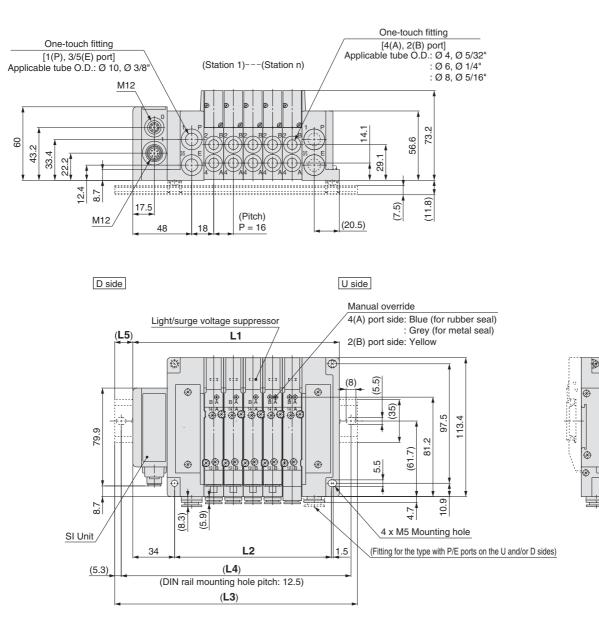
n: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	103.5	114	124.5	135	145.5	156	166.5	177	187.5	198	208.5	219	229.5	240	250.5
L2	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210
L3	135.5	148	148	160.5	173	185.5	198	210.5	223	223	235.5	248	260.5	273	285.5
L4	125	137.5	137.5	150	162.5	175	187.5	200	212.5	212.5	225	237.5	250	262.5	275
L5	16	17	12	13	14	15	16	17	18	12.5	13.5	14.5	15.5	16.5	17.5

For dimensions of Type 11/Bottom ported type and Type 12/Top ported type, refer to the **WEB** catalogue or the SY series catalogue (CAT. EUS11-103). ۷S

Series SY5000

Dimensions

Type 10/Side Ported Series SY5000



Note) These figures show the "SS5Y5-10SA2-05D-C8".

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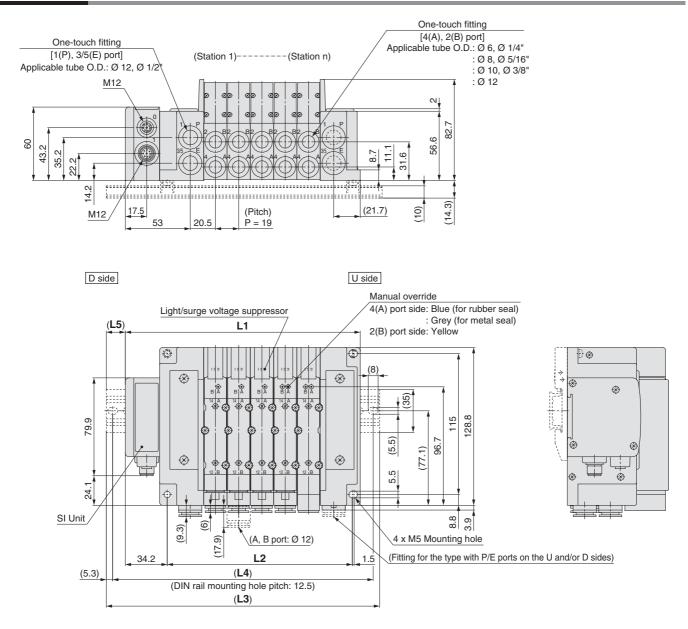
n: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	120.5	136.5	152.5	168.5	184.5	200.5	216.5	232.5	248.5	264.5	280.5	296.5	312.5	328.5	344.5
L2	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304
L3	148	160.5	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373
L4	137.5	150	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5
L5	14	12	16.5	15	13	17.5	16	14	12.5	17	15	13.5	18	16	14.5

For dimensions of Type 11/Bottom ported type and Type 12/Top ported type, refer to the **WEB catalogue** or the SY series catalogue (CAT. EUS11-103).

SMC



Type 10/Side Ported Series SY7000



Note) These figures show the "SS5Y7-10SA2-05D-C10".

n: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	134.7	153.7	172.7	191.7	210.7	229.7	248.7	267.7	286.7	305.7	324.7	343.7	362.7	381.7	400.7
L2	94	113	132	151	170	189	208	227	246	265	284	303	322	341	360
L3	160.5	185.5	198	223	235.5	260.5	273	298	310.5	335.5	348	373	398	410.5	435.5
L4	150	175	187.5	212.5	225	250	262.5	287.5	300	325	337.5	362.5	387.5	400	425
L5	13	16	12.5	15.5	12.5	15.5	12	15	12	15	11.5	14.5	17.5	14.5	17.5

For dimensions of Type 11/Bottom ported type and Type 12/Top ported type, refer to the **WEB** catalogue or the SY series catalogue (CAT. EUS11-103). VQC

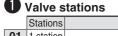
SMC

5 Port Solenoid Valve Series VQC1000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC1000/2000 series catalogue (CAT. EUS11-101).

How to Order Manifold

VV5QC11-08 C6 SDA2 N



	Stations	Note
01	1 station	
:	:	Double wiring
08	8 stations	
01	1 station	Mixed wining Creatified loweut Note)
:	:	Mixed wiring, Specified layout Note) (Available up to 16 solenoids)
16	16 stations	(Available up to 16 soleholds)

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

2 A, B port size

Metric size

C3	Straight piping: Ø 3.2 One-touch fitting
C4	Straight piping: Ø 4 One-touch fitting
C6	Straight piping: Ø 6 One-touch fitting
M5	Straight piping: M5 thread
CM Note 1)	Straight piping: Mixed sizes and with port plug
L3	Top ported elbow: Ø 3.2 One-touch fitting
L4	Top ported elbow: Ø 4 One-touch fitting
L6	Top ported elbow: Ø 6 One-touch fitting
L5	Top ported elbow: M5 thread
B3	Bottom ported elbow: Ø 3.2 One-touch fitting
B4	Bottom ported elbow: Ø 4 One-touch fitting
B6	Bottom ported elbow: Ø 6 One-touch fitting
B5	Bottom ported elbow: M5 thread
LM Note 1)	Elbow piping: Mixed sizes and with port plug
MM Note 2)	Mixed size for different types of piping, option installed

Inch size

N1	Straight piping: Ø 1/8" One-touch fitting
N3	Straight piping: Ø 5/32" One-touch fitting
N7	Straight piping: Ø 1/4" One-touch fitting
NM Note1)	Straight piping: Mixed sizes and with port plug
LN1	Top ported elbow: Ø 1/8" One-touch fitting
LN3	Top ported elbow: Ø 5/32" One-touch fitting
LN7	Top ported elbow: Ø 1/4" One-touch fitting
BN1	Bottom ported elbow: Ø 1/8" One-touch fitting
BN3	Bottom ported elbow: Ø 5/32" One-touch fitting
BN7	Bottom ported elbow: Ø 1/4" One-touch fitting
LNM Note1)	Elbow piping: Mixed sizes and with port plug
BNM Note 2)	Mixed size for different types of piping, option installed

- Note 1) Indicate the sizes on the manifold specification sheet.
- Note 2) When a combination of straight and elbow piping is or when option such as dual flow fitting assembly is mounted, please mention the mounting conditions in the Manifold Specification.

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

SD0 Without SI Unit

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

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

4 SI Unit (Output polarity)

-	
—	Positive common
Ν	Negative common

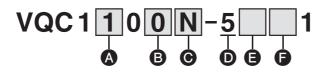
- * Ensure a match with the common specification of the valve to be used.
- * Select "-" for without SI Unit.

🖢 Op	tion
_	None
B Note 1)	With back pressure check valve (All stations)
D	With DIN bracket, DIN rail with standard length
D0	With DIN bracket, without DIN rail
D Note 2)	
K Note 3)	Special wiring specification (Except double wiring)
Ν	With name plate
R Note 4)	External pilot
S Note 5)	Built-in silencer, Direct exhaust
them a Note 1) \ t t Note 2) [c l	multiple symbols are specified, indicate lphabetically. Example) -BRS When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the manifold specification sheet. □: Specify a longer rail than the length of valve stations. Example) "-D08" In this case, the valves will be mounted on the DIN rail for 8 stations, regardless

- of the number of manifold stations. Note 3) When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet.
- Note 4) For external pilot option "-R", indicate the external pilot specification "R" for the applicable valves as well.
- Note 5) Built-in silencer type does not satisfy IP67

Gateway Decentralised System 5 Port Solenoid Valve Series VQC1000

How to Order Valves



A Type of actuation

1	1		4-position dual 3-port valve (N.C./N.C.)
2		_	4-position dual 3-port valve (N.O./N.O.)
3	3-position closed centre	C Note)	4-position dual 3-port valve (N.C./N.O.)
4	3-position exhaust centre		
5	3-position pressure centre]	

Note) Only rubber seal type

|--|

0	Metal seal
1	Rubber seal

G Function

5

U IU	
_	Standard (0.4 W)
В	Quick response type (0.95 W)
K Note 2)	High pressure type (1.0 MPa, 0.95 W)
Note 3)	Negative common
R Note 4)	External pilot
	specified, indicate them al- phabetically. However, combination of "B" and "K" is not possible.
Note 3)	Metal seal type only When the negative common is specified for the SI Unit, select and mount the valve of negative common.
,	Dual 3-port is not applica- ble.
	il voltage

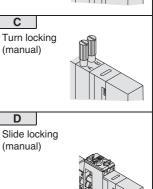
24 V DC

With light/surge voltage suppressor

E Light/surge voltage suppressor

D Slide locking (manual)

В

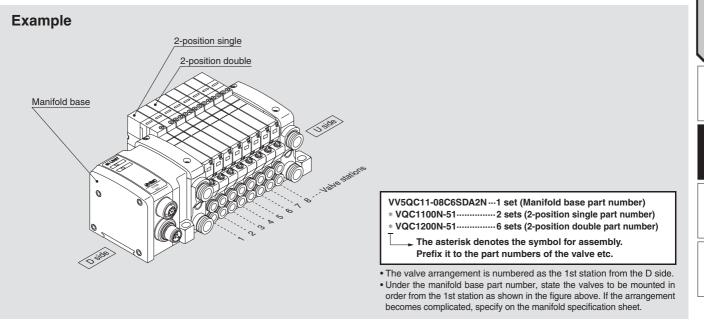


Manual override

Non-locking push (tool required)

Push-turn locking (tool required)

How to Order Manifold Assembly



SMC

YS

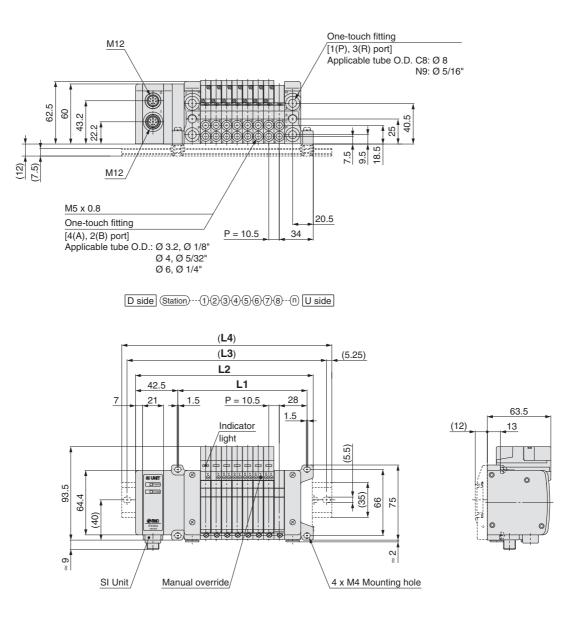
VQC

S0700

SV S

Series VQC1000

Dimensions



Formula: L1 = 10.5n + 45, L2 = 10.5n + 93.5 n: Stations (Maximum 16 stations)

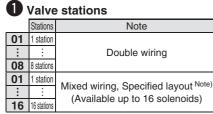
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213
L2	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5	230	240.5	251	261.5
L3	125	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5	275	287.5
L4	135.5	148	160.5	173	185.5	198	198	210.5	223	235.5	248	260.5	260.5	273	285.5	298

5 Port Solenoid Valve Series VQC2000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC1000/2000 series catalogue (CAT. EUS11-101).

How to Order Manifold

VV5QC21-08 C8 SDA2 N



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

2 A, B port size Metric size

C4	Straight piping: Ø 4 One-touch fitting
C6	Straight piping: Ø 6 One-touch fitting
C8	Straight piping: Ø 8 One-touch fitting
CM Note 1)	Straight piping: Mixed sizes and with port plug
L4	Top ported elbow: Ø 4 One-touch fitting
L6	Top ported elbow: Ø 6 One-touch fitting
L8	Top ported elbow: Ø 8 One-touch fitting
B4	Bottom ported elbow: Ø 4 One-touch fitting
B6	Bottom ported elbow: Ø 6 One-touch fitting
B 8	Bottom ported elbow: Ø 8 One-touch fitting
LM Note 1)	Elbow piping: Mixed sizes and with port plug
MM Note 2)	Mixed size for different types of piping, option installed

Inch size

N1	Straight piping: Ø 1/8" One-touch fitting
N3	Straight piping: Ø 5/32" One-touch fitting
N7	Straight piping: Ø 1/4" One-touch fitting
NM Note 1)	Straight piping: Mixed sizes and with port plug
LN1	Top ported elbow: Ø 1/8" One-touch fitting
LN3	Top ported elbow: Ø 5/32" One-touch fitting
LN7	Top ported elbow: Ø 1/4" One-touch fitting
BN1	Bottom ported elbow: Ø 1/8" One-touch fitting
BN3	Bottom ported elbow: Ø 5/32" One-touch fitting
BN7	Bottom ported elbow: Ø 1/4" One-touch fitting
LNM Note 1)	Elbow piping: Mixed sizes and with port plug
BNM Note 2)	Mixed size for different types of piping, option installed

- Note 1) Indicate the sizes on the manifold specification sheet.
- Note 2) When a combination of straight and elbow piping is or when option such as dual flow fitting assembly is mounted, please mention the mounting conditions in the Manifold Specification.

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

SD0 Without SI Unit 16 outputs, 1 to 8 stations (16 stations Note)) SDA2

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

4 SI Unit (Output polarity)

	Positive common
Ν	Negative common

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

多SMC

* Select "-" for without SI Unit.

5 Option

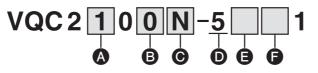
	None	
B Note 1)	With back pressure check valve (All stations)	
D	With DIN bracket, DIN rail with standard length	
D0	With DIN bracket, without DIN rail	
D Note 2)	With DIN bracket, DIN rail for stations	
K Note 3)	Special wiring specification (Except double wiring)	
Ν	With name plate	
R Note 4)	External pilot	
S Note 5)	Built-in silencer, Direct exhaust	
T Note 6)		
Note 1) t t Note 2) [Iphabetically. Example) -BRS When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the manifold specification sheet. □: Specify a longer rail than the length of valve stations. Example) "-D08"	
Note 3)	In this case, the valves will be mounted on the DIN rail for 8 stations, regardless of the number of manifold stations. When single wiring and double wiring	
s Note 4) I t	are mixed, specify wiring type of each station on the manifold specification sheet. For external pilot option "-R", indicate the external pilot specification "R" for	
Note 5) I	the applicable valves as well. Built-in silencer type does not satisfy IP67.	
Note 6) I	P and R ports are included on both	

sides of U side (cylinder port and coil side) with Ø 12 One-touch fittings.

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Series VQC2000

How to Order Valves

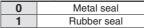


A Type of actuation

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

Note) Only rubber seal type

B Seal type



G Function

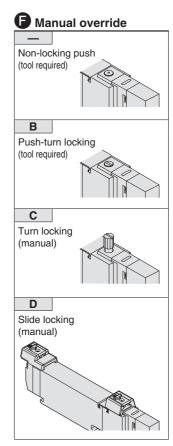
—	Standard (0.4 W)		
В	Quick response type (0.95 W)		
K Note 2)	High pressure type (1.0 MPa, 0.95 W)		
Note 3)	Negative common		
R Note 4)	External pilot		
Note 1) When multiple symbols are specified, indicate them al- phabetically. However, combination of "B" and "K" is not possible. Note 2) Metal seal type only Note 3) When the negative com- mon is specified for the SI Unit, select and mount the valve of negative common. Note 4) Dual 3-port is not applica- ble.			

D Coil voltage

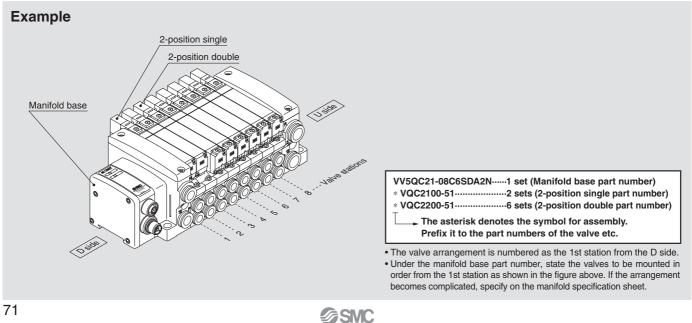
24 V DC 5

E Light/surge voltage suppressor

With light/surge voltage suppressor

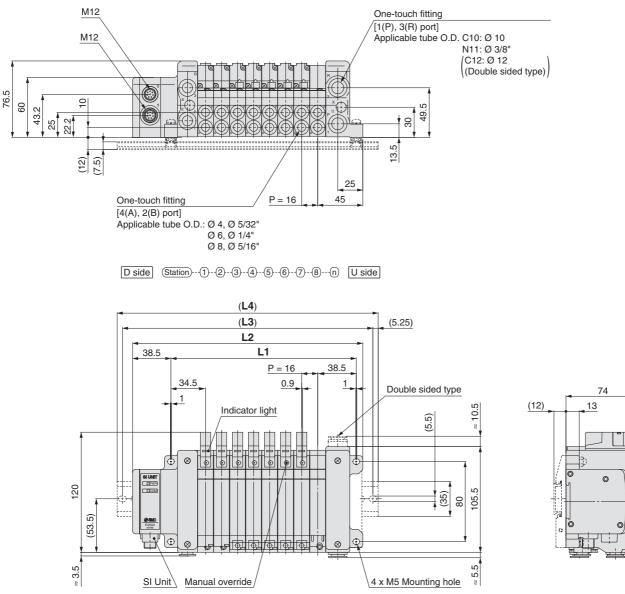


How to Order Manifold Assembly



Gateway Decentralised System 5 Port Solenoid Valve Series VQC2000

Dimensions



VQC					
S0700	stations)	kimum 16	ions (Max	2 n: Stat	10
	16	15	14	13	
۷S	313	297	281	265 2	
<	050	040	000	040	

Formula: L1 = 16n + 57, L2 = 16n + 102	n: Stations (Maximum 16 station
--	---------------------------------

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313
L2	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342	358
L3	137.5	162.5	175	187.5	212.5	225	237.5	250	275	287.5	300	325	337.5	350	362.5	387.5
L4	148	173	185.5	198	223	235.5	248	260.5	285.5	298	310.5	335.5	348	360.5	373	398

Gateway Decentralised System

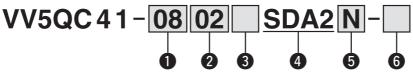
YS

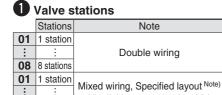
Gateway Decentralised System

5 Port Solenoid Valve Series VQC4000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

How to Order Manifold





Available up to 16 solenoids)
 (Available up to 16 solenoids)
 Note) Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position and 4-position valves cannot be used where single wiring has been specified.) In addition, select the option

4	SI Unit	(Number of outputs, Max. number of valve stations))
	SD0	Without SI Unit	

SDA2 16 outputs, 1 to 8 stations (16 stations ^{Note)})

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

Cylinder port size

"K"

C8	With Ø 8 One-touch fitting					
C10	With Ø 10 One-touch fitting					
C12	C12 With Ø 12 One-touch fitting					
N7	Ø 1/4" One-touch fitting					
N9	N9 Ø 5/16" One-touch fitting					
N11	Ø 3/8" One-touch fitting					
02	1/4 Note)					
03	3/8 Note)					
В	B Bottom ported 1/4 Note)					
СМ	Mixed sizes					

Note) Compatible with Rc, G, NPT/NPTF. Part number displayed is as shown below.

B T	3 Thread type					
—	Rc					
F	G					
N	NPT					
Т	NPTF					

5 SI Unit (Output polarity)

* Select "-" for without SI Unit.

Ν

 (Output polarity)	
Positive common	

Negative common

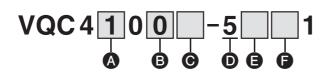


K^{Note} Special wiring specification (Except double wiring)

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

Gateway Decentralised System 5 Port Solenoid Valve Series VQC4000

How to Order Valves



A Type of actuation

	1	2-position single	4	3-position exhaust centre
ſ	2	2-position double	5	3-position pressure centre
	3	3-position closed centre	6 Note)	3-position double check

Note) For double check type, refer to the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

B Se	al type	
0	Metal seal	
1	Rubber seal	

G Function

Note 1)	Standard (0.95 W)
Y	Low wattage type (0.4 W)
R Note 2)	External pilot

* When multiple symbols are specified, indicate them alphabetically.

Note 1) When the power is energised continuously, refer to "Specific Product Precau-tions 1" in the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

Note 2) For details about the external pilot type, refer to the WEB catalogue or the VQ4000/5000 series catalogue (CAT. EUS11-104). In addition, an external pilot type cannot be combined with the double check spacer.

24 V DC

With Without light, with surge

voltage suppressor

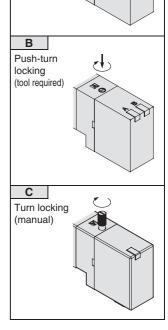
D Coil voltage

E Light/surge voltage suppressor

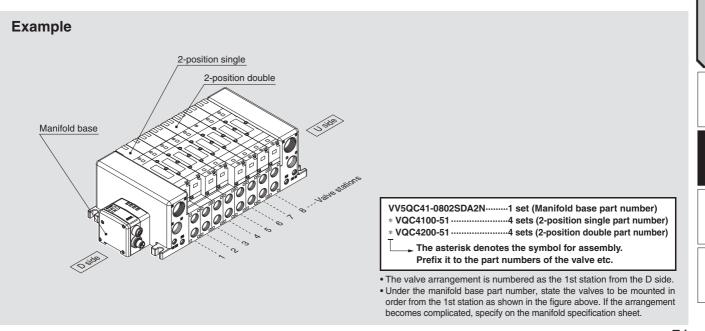
5

Е

Manual override Non-locking push ▶_ (tool required)



How to Order Manifold Assembly



SMC

YS

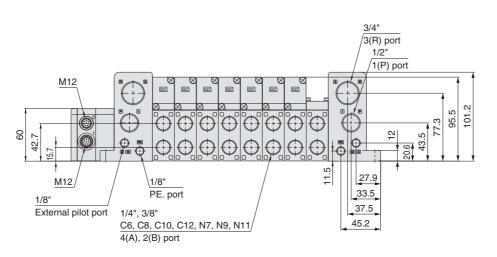
VQC

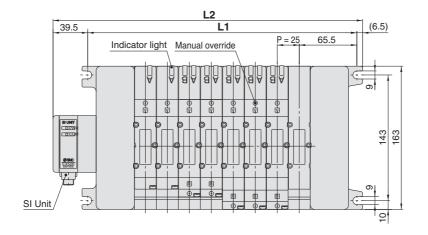
S0700

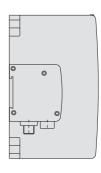
SV

Series VQC4000

Dimensions







Formula: L1 = 25n + 106, L2 = 25n + 152 n: Stations (Maximum 16 stations)

L n	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

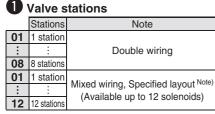
Gateway Decentralised System

5 Port Solenoid Valve Series VQC5000

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

How to Order Manifold

VV5QC51-0803 SDA2N-



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

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

SD0 Without SI Unit

SDA2 16 outputs, 1 to 8 stations (12 stations ^{Note}))

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

2 Cylinder port size

03	3/8 Note)					
04	1/2 Note)					
В	Bottom ported 1/4 Note)					
CM	Mixed sizes					

Note) Compatible with Rc, G, NPT/NPTF. Part number displayed is as shown below.

3 Thread type

—	Rc
F	G
Ν	NPT
Т	NPTF

5 SI Unit (Output polarity)

5	Offit (Output polarity)
_	Positive common
Ν	Negative common

* Select "—" for without SI Unit.

6 Option

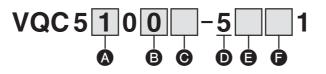
Note) Note) Special wiring specification (Except double wiring)
 Note) When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet.

Gateway Decentralised System

S<

Series VQC5000

How to Order Valves



A Type of actuation

1	1 2-position single		3-position exhaust centre
2	2-position double	5	3-position pressure centre
3	3-position closed centre	6 Note)	3-position double check

Note) For double check type, refer to the **WEB catalogue** or the VQC4000/5000 series catalogue (CAT. EUS11-108).

1	B Seal type					
0		Metal seal				
	1	Rubber seal				

• Function

Note 1)	Standard (0.95 W)
Y Note 1)	Low wattage type (0.4 W)
R Note 2)	External pilot

* When multiple symbols are specified, indicate them alphabetically.

Note 1) When the power is energised continuously, refer to "Specific Product Precautions 1" in the WEB catalogue or the VQC4000/5000 series catalogue (CAT. EUS11-108).

Note 2) For details about the external pilot type, refer to the WEB catalogue or the VQ4000/5000 series catalogue (CAT. EUS11-104). In addition, an external pilot type cannot be combined with the double check spacer.

24 V DC

With Without light, with surge

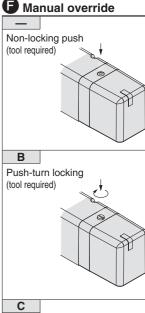
voltage suppressor

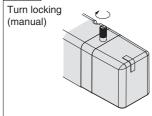
D Coil voltage

E Light/surge voltage suppressor

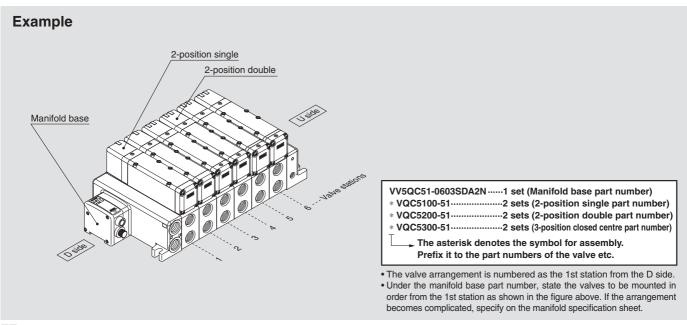
5

Е



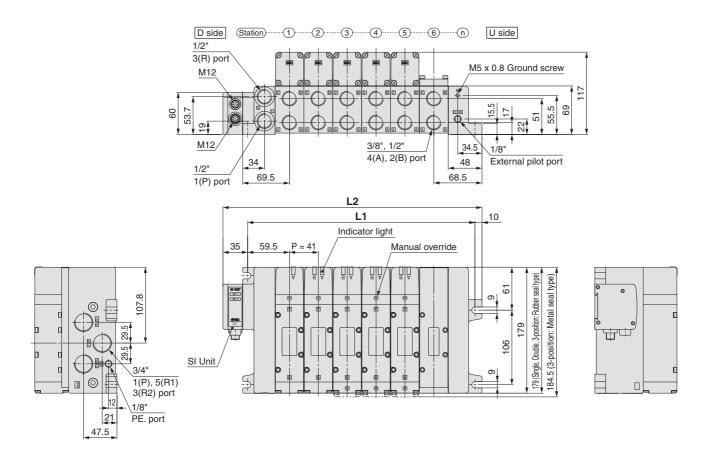


How to Order Manifold Assembly





Dimensions



Formula: L1 = 41n + 77, L2 = 41n + 122	n: Stations (Maximum 12 stations)
10111010101010101010101010101010101010	

L n	1	2	3	4	5	6	7	8	9	10	11	12
L1	118	159	200	241	282	323	364	405	446	487	528	569
L2	163	204	245	286	327	368	409	450	491	532	573	614

SMC

Gateway Decentralised System

5 Port Solenoid Valve Series S0700

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the S0700 series catalogue (CAT. EUS11-88).

How to Order Manifold

SS0750-08 C4 C8 SDA2 N-B



-		
	Stations	Note
01	1 station	
:	1	Double wiring
08	8 stations	
01	1 station	Mixed winner Creatified Levent Note)
:	:	Mixed wiring, Specified layout Note) (Available up to 16 solenoids)
16	16 stations	(Available up to 16 soleriolds)

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

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

SD0 Without SI Unit

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

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

2 A, B port size

wicthic	3120
C2	Ø 2 One-touch fitting
C3	Ø 3.2 One-touch fitting
C4	Ø 4 One-touch fitting
CM Note)	Mixed sizes and with port plug
Inch si	ze
N1	Ø 1/8" One-touch fitting
N3	Ø 5/32" One-touch fitting
NM Note)	Mixed sizes and with port plug

Note) Indicate the sizes on the manifold specification sheet.

3 P, R port size Metric size

	Ø 8 One-touch fitting Note)		
C6	Ø 6 One-touch fitting		
C8	Ø 8 One-touch fitting		
Inch size			
N7	Ø 1/4" One-touch fitting		
N9	Ø 5/16" One-touch fitting		

Note) When A and B ports are inch size, the One-touch fitting will be changed to Ø 5/16".

5 SI Unit (Output polarity)

—	F	Positive	common	
Ν	N	legative	e common	

- * Ensure a match with the common specification of the valve to be used.
- * Select "-" for without SI Unit.

6 Option

—	None			
B Note 1)	With back pressure check valve (All stations)			
D	With DIN bracket, DIN rail with standard length			
D0	With DIN bracket, without DIN rail			
D Note 2)	With DIN bracket, DIN rail for \Box stations			
K Note 3)	Special wiring specification (Except double wiring)			
Ν	With name plate			
R Note 4)	External pilot			
S	Built-in silencer			
	* When multiple symbols are specified, indicate			

them alphabetically. Example) "-BKN" Note 1) When a back pressure check valve is used only for specified station, specify the back pressure check valve part number, and specify the station number to which the valve is mounted, on the

manifold specification sheet. Note 2) : Specify a longer rail than the length of valve stations.

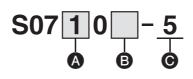
Example) "-D08"

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

- Note 3) When single wiring and double wiring are mixed, specify wiring type of each station on the manifold specification sheet.
- Note 4) For external pilot option "-R", indicate the external pilot specification "R" for the applicable valves as well.

Gateway Decentralised System 5 Port Solenoid Valve Series S0700

How to Order Valves



Internal pilot

External pilot

Note) For external pilot, select "1" 2-position single or "2" 2-position double.

B Function

R Note)

C Rated voltage 5

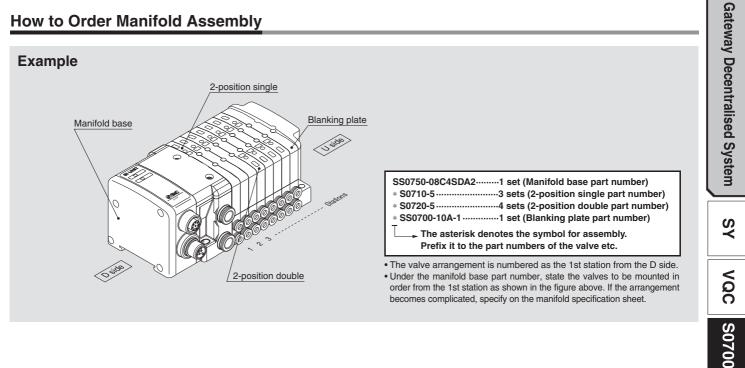
24 V DC

A Type of actuation

1	2-position single
2	2-position double
· · ·	4-position dual 3-port (N.C. + N.C.) [Exhaust centre]
B Note)	4-position dual 3-port (N.O. + N.O.) [Pressure centre]
C Note)	4-position dual 3-port (N.C. + N.O.)

Note) For 4-position dual 3-port, select "-" internal pilot.

How to Order Manifold Assembly

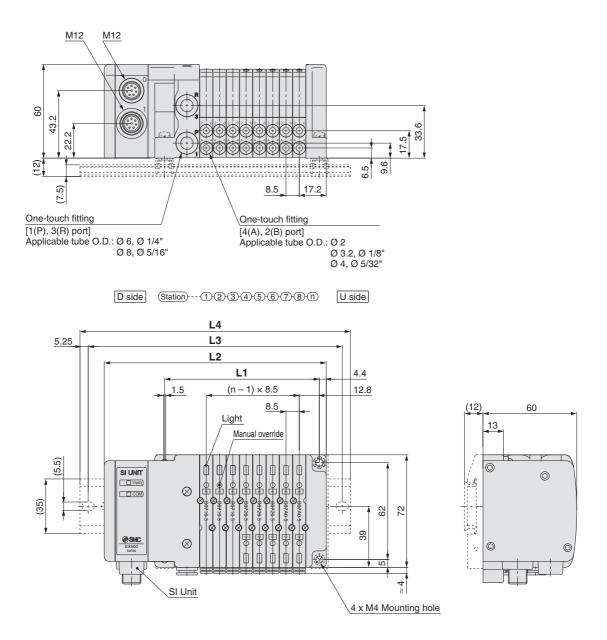


SMC

۷S

Series S0700

Dimensions



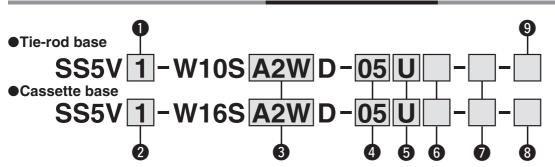
Dimen	mensions Formula: L1 = 8.5n + 31, L2 = 8.5n + 74 n: Stations (Maximum 16 stations						stations)								
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	48	56.5	65	73.5	82	90.5	99	107.5	116	124.5	133	141.5	150	158.5	167
L2	91	99.5	108	116.5	125	133.5	142	150.5	159	167.5	176	184.5	193	201.5	210
L3	112.5	125	137.5	137.5	150	162.5	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5
L4	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	248
L4	123	135.5	148	148	160.5	173	173	185.5	198	198	210.5	223	223	235.5	24



Gateway Decentralised System

For detailed specifications, Common Precautions and Specific Product Precautions, refer to the WEB catalogue or the SV series catalogue (CAT. EUS11-81).

How to Order Manifold



1 SV1000	
2 SV2000	
3 SV3000	
4 SV4000	

2 s	eries
1	SV1000
2	SV2000

3 SI Unit (Number of outputs, Output polarity,

Max. number of valve stations)	
--------------------------------	--

0 Without SI Unit							
A2W	16 outputs, Positive common, 1 to 8 stations (16 stations) Note)						

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

4 Valve stations

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

Note 1) Double wiring: single, double, 3-position and 4-position 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 double, 3-position and 4-position valves cannot be used where single wiring has been specified.)

5 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

6 SUP/EXH block assembly

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

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

8 DIN rail length specified

—	With DIN bracket, DIN rail with standard length
3 Note)	With DIN bracket, DIN rail for 3 stations
:	
16 Note)	With DIN bracket, DIN rail for 16 stations

Note) Specify a longer rail than the length of valve stations.

* If the DIN rail must be mounted without an SI Unit, select "D0" and order the DIN rail separately. Refer to L3 of the dimensions for the DIN rail length. For the DIN rail part number, refer to the WEB catalogue or the SY series catalogue (CAT. EUS11-103).

A, B port size

			r	
Symbol	A, B port	P, E port	Applicable series	
C3	Ø 3.2 One-touch fitting	<i>a</i> .		
C4	Ø 4 One-touch fitting	Ø 8 One-touch fitting	SV1000	
C6	Ø 6 One-touch fitting	One-touch hung		
C4	Ø 4 One-touch fitting	<i>Q</i> 40		
C6	Ø 6 One-touch fitting	Ø 10 One-touch fitting	SV2000	
C8	Ø 8 One-touch fitting	One-toden maing		
C6	Ø 6 One-touch fitting	Ø 10		
C8	Ø 8 One-touch fitting	Ø 12 One-touch fitting	SV3000	
C10	Ø 10 One-touch fitting	One-toden many		
C8	Ø 8 One-touch fitting	Ø 10	SV4000	
C10	Ø 10 One-touch fitting	Ø 12 One-touch fitting		
C12	Ø 12 One-touch fitting	One-touch hung		
02	Rc1/4	Rc3/8		
03	Rc3/8	nc3/0		
02F	G1/4	G3/8		
03F	G3/8	G3/6		
M Note)	A, B port mixed			

9 Mounting

—	Direct mounting
D	With DIN bracket, DIN rail with standard length
D0	With DIN bracket, without DIN rail
D3 Note)	With DIN bracket, DIN rail for 3 stations
:	
DdO Matel	MOLENNIE I FENNE 16 40 F.C.

D16 Note) With DIN bracket, DIN rail for 16 stations Note) Specify a longer rail than the length of valve stations.

* If the DIN rail must be mounted without an SI Unit, select "D0" and order the DIN rail separately. Refer to L3 of the dimensions for the DIN rail length. For the DIN rail part number, refer to the WEB catalogue or the SV series catalogue (CAT. EUS11-81).

Symbol	A, B port	P, E port	Applicable series		
Ń1	Ø 1/8" One-touch fitting	0.5/40			
N3	Ø 5/32" One-touch fitting	Ø 5/16" One-touch fitting	SV1000		
N7	Ø 1/4" One-touch fitting	One-touch litting			
N3	Ø 5/32" One-touch fitting	0.0/0			
N7	Ø 1/4" One-touch fitting	Ø 3/8" One-touch fitting	SV2000		
N9	Ø 5/16" One-touch fitting	Une-touch litting			
N7	Ø 1/4" One-touch fitting	0 0/0			
N9	Ø 5/16" One-touch fitting	Ø 3/8" One-touch fitting	SV3000		
N11	Ø 3/8" One-touch fitting	Une-todon numy			
N9	Ø 5/16" One-touch fitting	Ø 3/8"			
N11	Ø 3/8" One-touch fitting	One-touch fitting			
02N	NPT1/4	NPT3/8	SV4000		
03N	NPT3/8	NF 13/0	374000		
02T	NPTF1/4	NPTF3/8			
03T	NPTF3/8	NETES/0			
M Note)	A, B port mixed				

Note) Indicate the sizes on the manifold specification sheet.

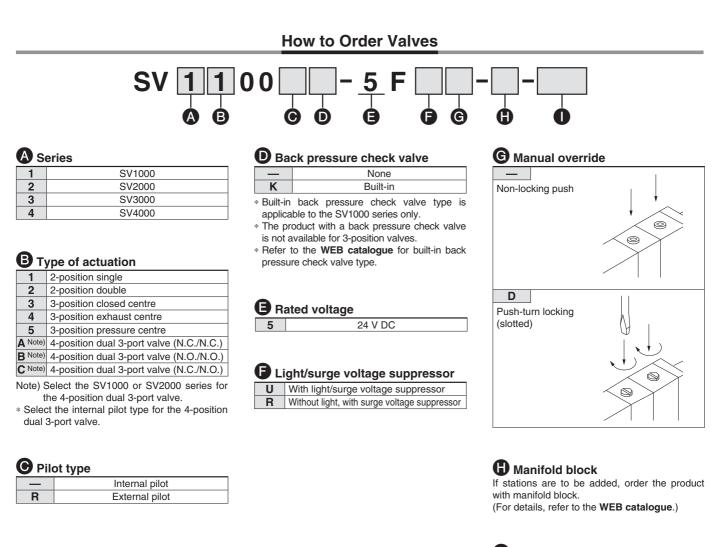
* The X and PE port size of external pilot type [R, RS] are Ø 4 (mm) or Ø 5/32" (inch) for the SV1000/2000 series, and Ø 6 (mm) or Ø 1/4" (inch) for the SV3000/4000 series.

YS

∠QC



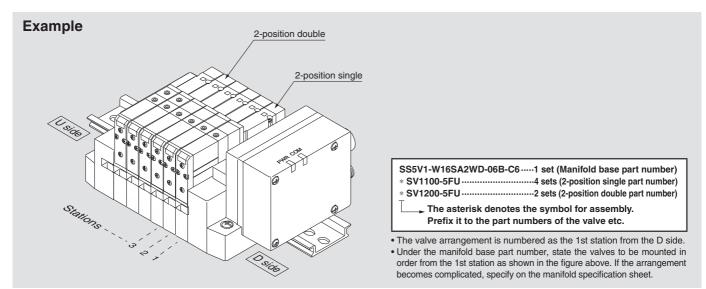
Series SV1000/2000/3000/4000



Made to Order

X90 Main valve fluororubber specification (For details, refer to the WEB catalogue.)

How to Order Manifold Assembly

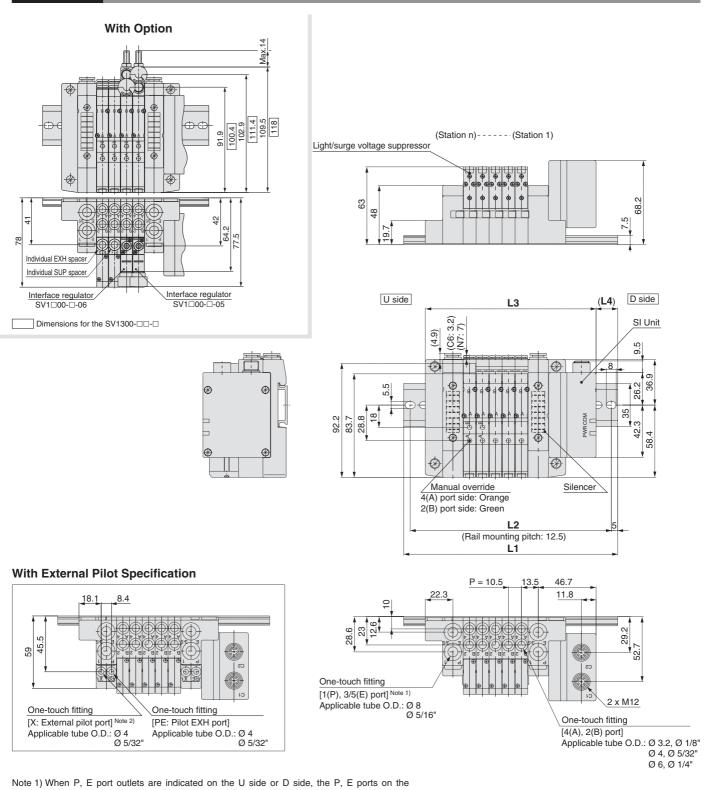




Gateway Decentralised System 5 Port Solenoid Valve Series SV1000

Dimensions

Cassette Base Series SV1000



Note 1) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

Note 2) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

L: Dimensions

																stations
Ĺ	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	L1	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	235.5	248	260.5	273	285.5
	L2	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	225	237.5	250	262.5	275
	L3	106.5	117	127.5	138	148.5	159	169.5	180	190.5	201	211.5	222	232.5	243	253.5
	L4	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

VQC

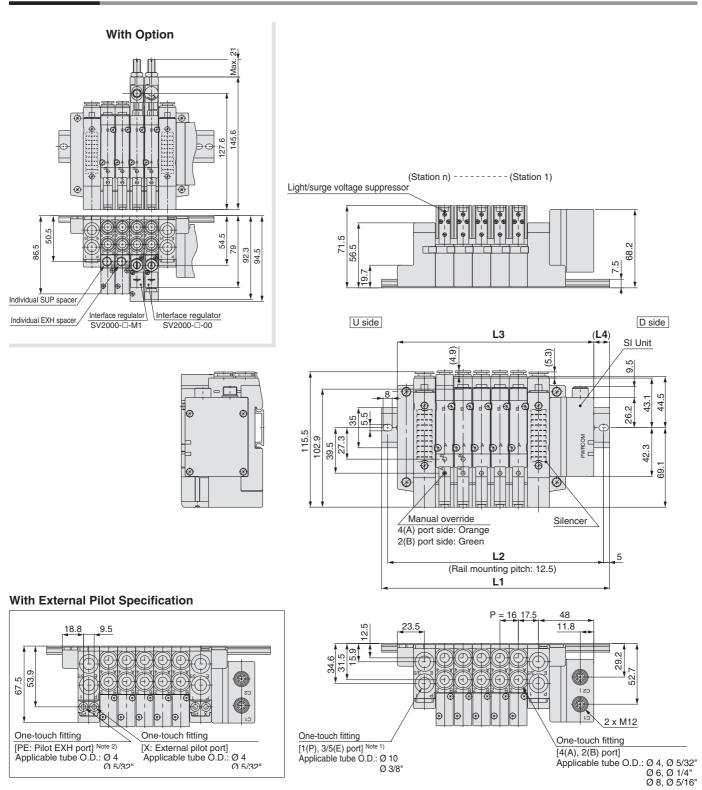
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Series SV2000

Dimensions

Cassette Base Series SV2000



Note 1) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged. Note 2) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

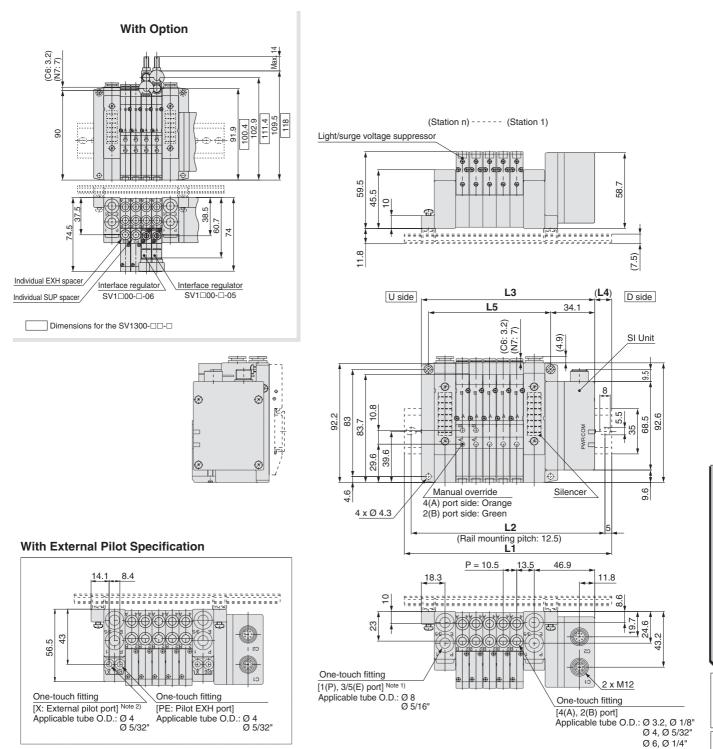
L: Din	L: Dimensions n: Statio														Stations
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373
L2	137.5	162.5	175	187.5	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5
L3	122.5	138.5	154.5	170.5	186.5	202.5	218.5	234.5	250.5	266.5	282.5	298.5	314.5	330.5	346.5
L4	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	15	13.5

SMC

Gateway Decentralised System 5 Port Solenoid Valve Series SV1000

Dimensions

Tie-rod Base Series SV1000



Note 1) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged. Note 2) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

L: Dimensions														n: S	Stations
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	135.5	148	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	273
L2	125	137.5	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	262.5
L3	102.6	113.1	123.6	134.1	144.6	155.1	165.6	176.1	186.6	197.1	207.6	218.1	228.6	239.1	249.6
L4	16.5	17.5	12	13	14	15	16	17	12	13	14	15	16	17	11.5
L5	63	73.5	84	94.5	105	115.5	126	136.5	147	157.5	168	178.5	189	199.5	210

SMC

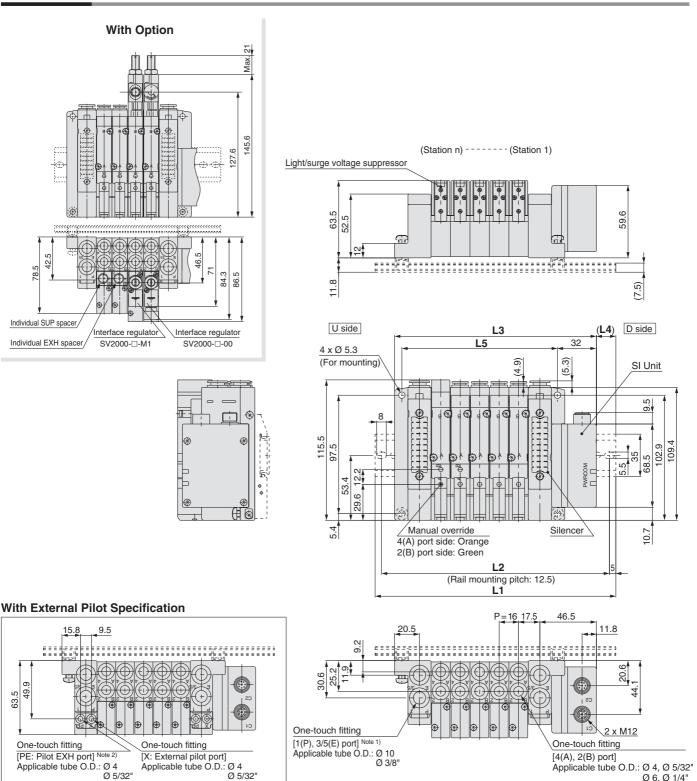
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YS

Series SV2000

Dimensions

Tie-rod Base Series SV2000



Ø 6, Ø 1/4" Ø 8, Ø 5/16"

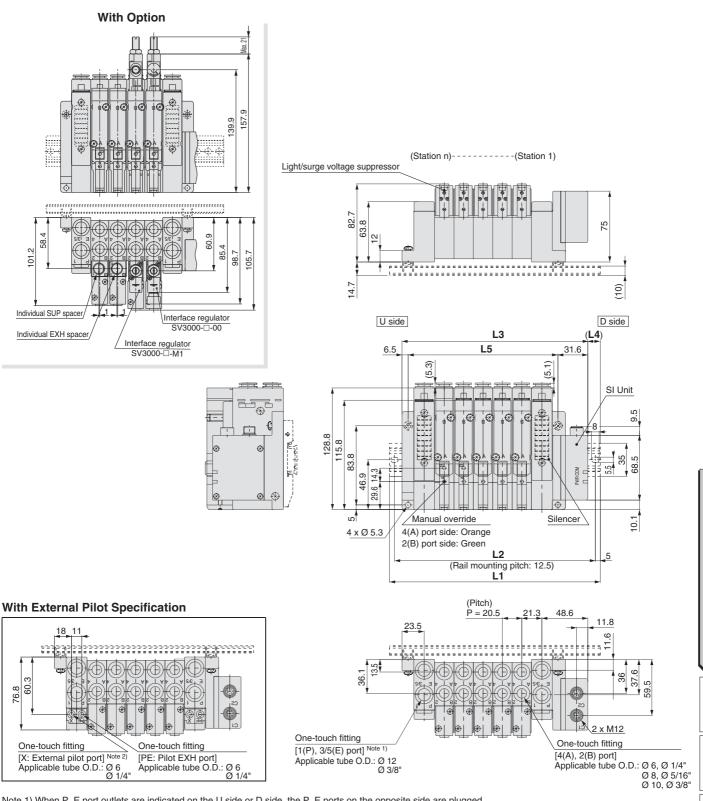
Note 1) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged. Note 2) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

L: Dimensions														n: S	Stations
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	148	160.5	185.5	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373
L2	137.5	150	175	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5
L3	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342
L4	15	13.5	18	16	14.5	12.5	17	15.5	13.5	12	16.5	14.5	13	17.5	15.5
L5	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304

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Gateway Decentralised System 5 Port Solenoid Valve Series SV3000

Tie-rod Base Series SV3000



Note 1) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged. Note 2) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

Dimensions

L: Dimensions													n: S	Stations	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	160.5	185.5	210.5	223	248	273	285.5	310.5	323	348	373	385.5	410.5	435.5	448
L2	150	175	200	212.5	237.5	262.5	275	300	312.5	337.5	362.5	375	400	425	437.5
L3	135.1	155.6	176.1	196.6	217.1	237.6	258.1	278.6	299.1	319.6	340.1	360.6	381.1	401.6	422.1
L4	12.5	15	17	13	15.5	17.5	13.5	16	12	14	16.5	12.5	14.5	17	13
L5	97	117.5	138	158.5	179	199.5	220	240.5	261	281.5	302	322.5	343	363.5	384

SMC

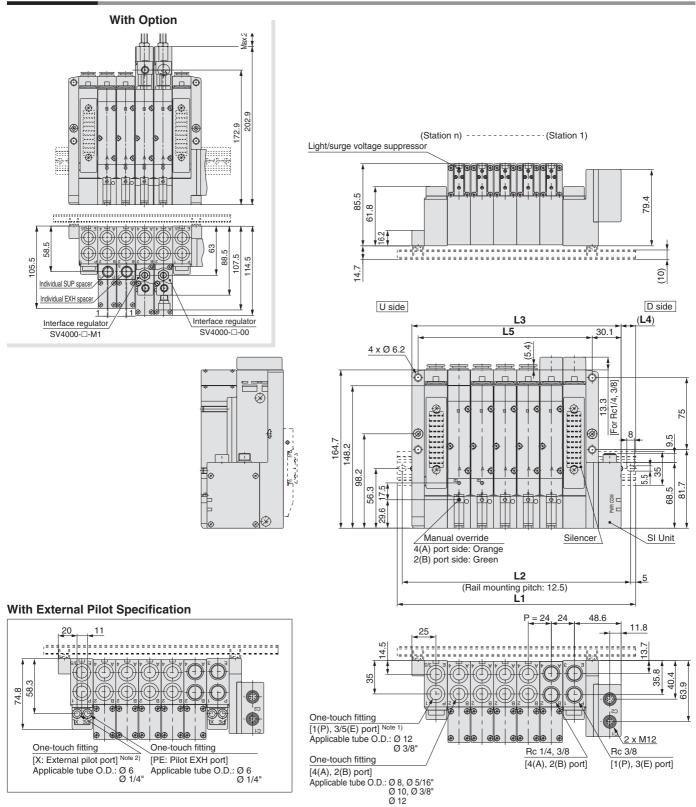
Gateway Decentralised System SY VQC S0700

VS

Series SV4000

Dimensions

Tie-rod Base Series SV4000



Note 1) When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged. Note 2) External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

L: Dimensions n: 5														Stations	
L n 2 3 4 5 6 7 8 9 10 11 .											12	13	14	15	16
L1	173	198	223	248	273	298	323	348	373	385.5	410.5	435.5	460.5	485.5	510.5
L2	162.5	187.5	212.5	237.5	262.5	287.5	312.5	337.5	362.5	375	400	425	450	475	500
L3	145.6	169.6	193.6	217.6	241.6	265.6	289.6	313.6	337.6	361.6	385.6	409.6	433.6	457.6	481.6
L4	13.5	14	14.5	15	15.5	16	16.5	17	17.5	12	12.5	13	13.5	14	14.5
L5	109	133	157	181	205	229	253	277	301	325	349	373	397	421	445

SMC



Series EX500 Specific Product Precautions 1

Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on the SMC website, http://www.smc.eu

Design / Selection

Marning

- 1. Do not use beyond the specification range. Using beyond the specification range can cause a fire, malfunction, or damage to the system. Check the specifications before operation.
- 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.

Otherwise, this may cause possible injuries due to malfunction.

- 1. When applicable to UL, use a Class 2 power supply unit conforming to UL1310 for direct current power supply.
- 2. Use within the specified voltage range. Using beyond the specified voltage range is likely to cause the product to be damaged or to malfunction.
- 3. Do not install in places where it can be used as a foothold.

Applying any excessive load such as stepping on the product 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 equipment failure or malfunction. Also, there is a risk of losing conformity with safety standards.

Mounting

ACaution

- 1. When removing from / attaching to the valve manifold,
 - Do not apply excessive force to the Unit. The connecting portions are firmly joined with seals.
 - Take care not to get fingers caught. Injury can result.
- Do not drop, bump, or apply excessive impact. Otherwise, this can cause damage, equipment failure or malfunction.
- 3. Observe the tightening torque range.

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

 $\ensuremath{\mathsf{IP65}}\xspace{\mathsf{IP67}}$ cannot be guaranteed if the screws are not tightened to the specified torque.

Mounting

▲Caution

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

The connection joint of the product may be damaged. Because the product 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 contact failure.

Wiring

ACaution

- Provide the grounding to maintain the safety of the product and to improve the noise immunity.
 Provide a specific grounding as close to the product as possible to minimise 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 product.

4. Do not wire while energising the product.

There is a danger of malfunction or damage to the product or input/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 a malfunction. Wiring of the product or input/output device and the power line or high pressure line should be separated from each other.

6. Check for the wiring insulation.

Defective insulation (contact with other circuits, improper insulation between terminals, etc.) may cause damage to the product or input/output device due to excessive voltage or current.



Series EX500 Specific Product Precautions 2

Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on the SMC website, http://www.smc.eu

Wiring

7. When the product is installed in machinery/equipment, provide adequate protection against noise by using noise filters etc.

Noise in signal lines may cause a malfunction.

- 8. When connecting wires, prevent water, solvent or oil from entering inside from the connecter section. Otherwise, this can cause damage, equipment failure or malfunction.
- 9. Avoid wiring patterns in which excessive stress is applied to the connector.

This may cause equipment failure or malfunction due to contact failure.

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.

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

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

- 1) Provide appropriate wiring between the products using electrical wiring cables, communication connectors and cables with M12 connectors.
- 2) Suitable mounting of the product and valve manifold.
- 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.

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

Failure to do so may cause a malfunction or equipment failure. The effect of countermeasures should be checked in individual equipment and machine.

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

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

Operating Environment

Caution

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

This may damage the product and cause it to malfunction.

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

Installation of the product 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 product or result in damage. Implement countermeasures against the surge from the generating source, and avoid touching the lines with each other.

6. When directly driving a load (output device) which generates surge voltage by relay, solenoid valves or lamp, use a load that has an integrated surge absorption element.

When a surge generating load is directly driven, the product may be damaged.

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

This may cause equipment failure or malfunction.

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

This may cause equipment failure or malfunction.

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

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

11. Do not use in direct sunlight.

This may cause equipment failure or malfunction.

- **12. Observe the ambient temperature range.** This may cause a malfunction.
- 13. Do not use in places where there is radiated heat around it.

Such places are likely to cause a malfunction.



Series EX500 Specific Product Precautions 3

Be sure to read this before handling. Refer to the back cover for Safety Instructions. For 3/4/5 Port Solenoid Valve Precautions, refer to "Handling Precautions for SMC Products" and the Operation Manual on the SMC website, http://www.smc.eu

Adjustment / Operation

AWarning

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

<Web server function>

2. The valve operation test is a function which forcibly changes the signal status Please check safety of the ambient environment and the device before using this function.

This may cause injuries or equipment damage.

3. If the communication line and PC are shut down during a valve operation test, the valve output status will be held (It remains in the output status before the communication line and/or PC was shut down). Please check safety of the ambient environment and the device when performing this function. This may cause injuries or equipment damage.

 Use a watchmaker's screwdriver with thin blade for the setting switch.
 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 the setting switch.

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.

Maintenance

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

Such actions are likely to cause injuries or equipment failure.

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

Unexpected malfunction of system components and injury can result.

▲ Caution

- 1. When removing from / attaching to the valve manifold,
 - Do not apply excessive force to the Unit. The connecting portions are firmly joined with seals.
 - Take care not to get fingers caught. 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 benzine and thinner for cleaning the product.

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 wring out tightly, and then finish with a dry cloth.

Other

1. Refer to the catalogue of each series for Common Precautions and Specific Product Precautions on valve manifolds.



▲ 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.

I

etc.

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

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

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

🗥 Warning

1. 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 catalogue 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.

- 3.Do not service or attempt to remove product and machinery/equipment until safety is confirmed.
 - 1. 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.
 - 2. 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.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. 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 catalogue.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 4. 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

A Caution

1. 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.

*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.

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, wichever is first.*2)
- Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. 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.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue 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

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. 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

/ACaution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

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

Austria	2 +43 (0)2262622800	www.smc.at	office@smc.at	Lithuania	🕿 +370 5 2308118	www.smclt.lt	info@smclt.lt
Belgium	2 +32 (0)33551464	www.smcpneumatics.be	info@smcpneumatics.be	Netherlands	🕿 +31 (0)205318888	www.smcpneumatics.nl	info@smcpneumatics.nl
Bulgaria	2 +359 (0)2807670	www.smc.bg	office@smc.bg	Norway	2 +47 67129020	www.smc-norge.no	post@smc-norge.no
Croatia	🕿 +385 (0)13707288	www.smc.hr	office@smc.hr	Poland	🕿 +48 222119600	www.smc.pl	office@smc.pl
Czech Republic	2 +420 541424611	www.smc.cz	office@smc.cz	Portugal	🕿 +351 226166570	www.smc.eu	postpt@smc.smces.es
Denmark	2 +45 70252900	www.smcdk.com	smc@smcdk.com	Romania	🕿 +40 213205111	www.smcromania.ro	smcromania@smcromania.ro
Estonia	2 +372 6510370	www.smcpneumatics.ee	smc@smcpneumatics.ee	Russia	🕿 +7 8127185445	www.smc-pneumatik.ru	info@smc-pneumatik.ru
Finland	🕿 +358 207513513	www.smc.fi	smcfi@smc.fi	Slovakia	🕿 +421 (0)413213212	www.smc.sk	office@smc.sk
France	🕿 +33 (0)164761000	www.smc-france.fr	info@smc-france.fr	Slovenia	2 +386 (0)73885412	www.smc.si	office@smc.si
Germany	2 +49 (0)61034020	www.smc.de	info@smc.de	Spain	2 +34 902184100	www.smc.eu	post@smc.smces.es
Greece	2 +30 210 2717265	www.smchellas.gr	sales@smchellas.gr	Sweden	2 +46 (0)86031200	www.smc.nu	post@smc.nu
Hungary	2 +36 23511390	www.smc.hu	office@smc.hu	Switzerland	2 +41 (0)523963131	www.smc.ch	info@smc.ch
Ireland	🕿 +353 (0)14039000	www.smcpneumatics.ie	sales@smcpneumatics.ie	Turkey	🕿 +90 212 489 0 440	www.smcpnomatik.com.tr	info@smcpnomatik.com.tr
Italy	2 +39 0292711	www.smcitalia.it	mailbox@smcitalia.it	UK	2 +44 (0)845 121 5122	www.smcpneumatics.co.uk	sales@smcpneumatics.co.uk
Latvia	🕿 +371 67817700	www.smclv.lv	info@smclv.lv				·