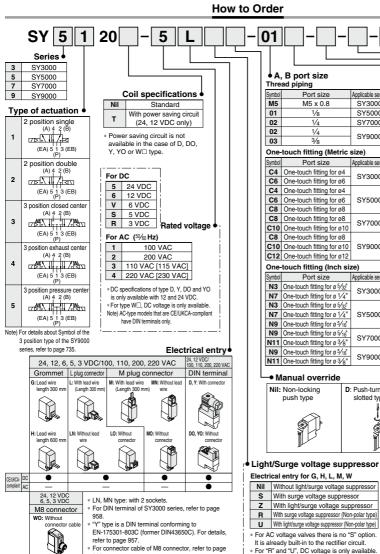
5 Port Solenoid Valve **Body Ported/Single Unit**

Note) AC-type models that are CE/UKCAcompliant have DIN terminals only.

SY3000/5000/7000/9000 Series



.			
			● Bracket
	, B port size		Nil: Without bracket F1: With foot bracket
$\overline{}$	ad piping		/2 position \
Symbol	Port size	Applicable series	single only
M5	M5 x 0.8	SY3000	
01	1/8	SY5000	
02	1/4	SY7000	
02	1/4	SY9000	
03	3/8	313000	
One-	touch fitting (Metric	size)	F2: With side bracket
Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4	SY3000	
C6	One-touch fitting for ø6	313000	
C4	One-touch fitting for ø4		
C6	One-touch fitting for ø6	SY5000	
C8	One-touch fitting for ø8		
C8	One-touch fitting for ø8	SY7000	* SY9000 has no bracket.
C10	One-touch fitting for ø10	317000	Thread type
C8	One-touch fitting for ø8		Nil Rc
C10	One-touch fitting for ø10	SY9000	F G
C12	One-touch fitting for ø12		N NPT
One-	touch fitting (Inch si	ze)	T NPTF
Symbol	Port size	Applicable series	* Except for M5
N3	One-touch fitting for ø 5/32"	SY3000	Made to Order ●
N7	One-touch fitting for ø 1/4"	313000	Nil —
N3	One-touch fitting for ø 5/32"		X20 Body ported external pilot (Refer to page 942.)
N7	One-touch fitting for ø 1/4"	SY5000	X90 Main valve fluoro rubber (Refer to page 942.)
N9	One-touch fitting for ø 5/16"		X701 4-position dual 3-port valve (Refer to page 942-1.)
N9	One-touch fitting for ø 5/16"	SY7000	CE/UKCA-compliant ●
N11	One-touch fitting for ø 3/8"	31/000	_
N9	One-touch fitting for ø 5/16"	SY9000	Nil —
N11	One-touch fitting for ø 3/8"	519000	Q CE/UKCA-compliant
-• M	lanual override		Note) AC-type models that are CE/UKCA-complian have DIN terminals only.

D: Push-turn locking

slotted type

Electrical entry for G, H, L, M, W			Electri	ical entry for D, Y
Nil	Without light/surge voltage suppressor		Nil	Without light/surge voltage :
s	With surge voltage suppressor			With surge voltage suppre
Z	With light/surge voltage suppressor		3	(Non-polar type)
R	With surge voltage suppressor (Non-polar type)			With light/surge voltage si
J	With light/surge voltage suppressor (Non-polar type)			(Non-polar type)
* For A	C voltage valves there is no "S" option.		* DOZ a	and YOZ are not ava

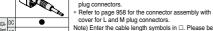
- It is already built-in to the rectifier circuit.
- * Power saving circuit is only available in the "Z" type.
- t/surge voltage suppressor voltage suppressor urge voltage suppressor type) are not available

E: Push-turn locking

lever type

- * For AC voltage valves there is no
- "S" option. It is already built-in to the rectifier circuit.

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary. (For details, refer to page 795.)



* M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.

* Refer to page 957 for the lead wire length of L and M

sure to fill in the blank referring to page 961.

960.



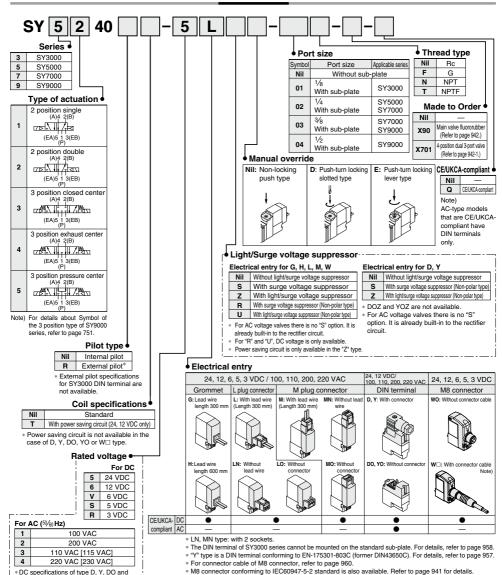
5 Port Solenoid Valve



Base Mounted/Single Unit Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

SY3000/5000/7000/9000 Series

How to Order



* Refer to page 957 for the lead wire length of L and M plug connectors.

* Refer to page 958 for the connector assembly with cover for L and M plug connectors.

Note) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 961.

Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.

YO is only available with 12 and 24 VDC.

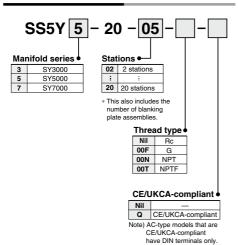
∗ For type W□, DC voltage is only available.

Note) AC-type models that are CE/UKCA-compliant

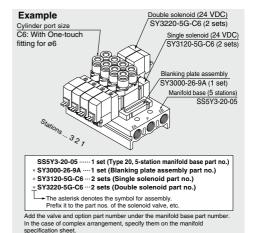
have DIN terminals only

5 Port Solenoid Valve Body Ported Manifold Bar Stock Type/Individual Wiring SY3000/5000/7000 Series

How to Order Manifold



How to Order Manifold Assembly (Example)



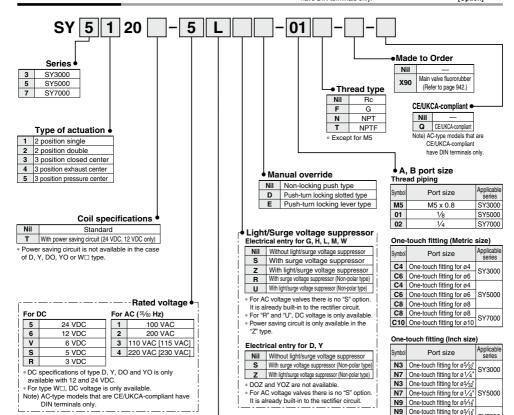
Body Ported **SY3000/5000/7000** Series 1/1920



How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.





					El	ectrical entry •
		24, 12, 6, 5, 3 VDC/ 100, 110, 200, 220 VAC		24, 12 VDC/ 100, 110, 200, 220 VAC	24, 12, 6, 5, 3 VDC	
		Grommet	L plug connector	M plug connector	DIN terminal	M8 connector
		G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	(SY5000/7000 only) D: With connector DO: Without connector Y: With connector YO: Without connector	WO: Without connector cable W□: With connector cable Note 2)
Manifold	SY3000	•	•	•	Note 1)	•
mounting	SY5000	•	•	•	•	•
mounting	SY7000	•	•	•	•	•
CE/UKCA-	DC	•	•	•	•	•

Note 1) The DIN terminal of the SY3000 series cannot be mounted on a standard manifold. For details, refer to page 958.

Note 2) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 961.

* LN, MN type: with 2 sockets.

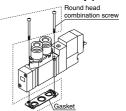
compliant

- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
- For details, refer to page 957.
- * For connector cable of M8 connector, refer to page 960
- * M8 thread conforming to IEC60947-5-2 standard is also available. Refer to page 941 for
- * Refer to page 957 for the lead wire length of L and M plug connectors. Refer to page 958 for the connector assembly with cover for L and M plug connectors.

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary.

N11 One-touch fitting for ø3/8

■Gasket assembly part no.

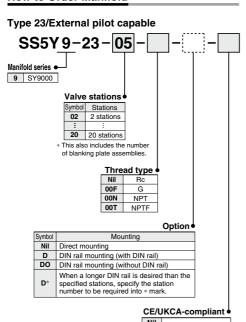


Series	Gasket assembly part no.	
SY3000	SY3000-GS-1	
SY5000	SY5000-GS-1	
SY7000	SY7000-GS-1	

Note) The gasket assembly includes 10 sets of mounting screws and a gasket

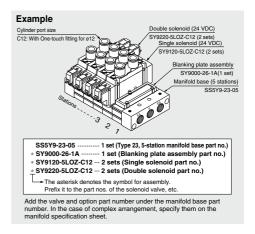
5 Port Solenoid Valve Body Ported Manifold Stacking Type/Individual Wiring SY9000 Series [December 1]

How to Order Manifold



Q CE/UKCA-compliant
Note) AC-type models that are
CE/UKCA-compliant
have DIN terminals

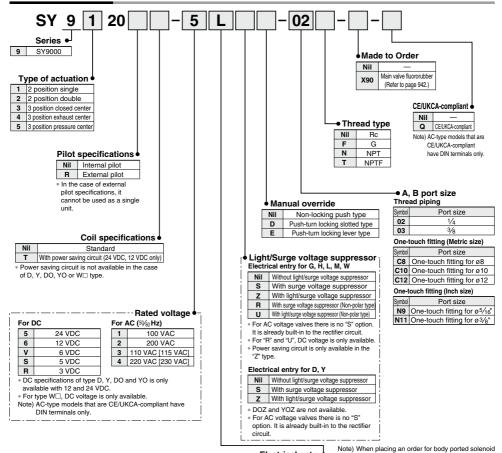
How to Order Manifold Assembly (Example)



How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.





					Ele	ectrical entry •
		24, 12, 6, 5, 3 VDC/ 100, 110, 200, 220 VAC		24, 12 VDC/ 100, 110, 200, 220 VAC	24, 12, 6, 5, 3 VDC	
Grommet L plug connector M plug connector		DIN terminal	M8 connector			
		G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	D: With connector DO: Without connector Y: With connector YO: Without connector	WO: Without connector cable W□: With connector cable Note)
CE/UKCA-	DC	•	•	•	•	•
compliant	AC	_	_	_	•	_

- * LN, MN type: with 2 sockets
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 957.
- * For connector cable of M8 connector, refer to page 960.
- * M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for
- * Refer to page 957 for the lead wire length of L and M plug connectors.
- * Refer to page 958 for the connector assembly with cover for L and M plug connectors. Note) Enter the cable length symbols in . Please be sure to fill in the blank referring to page 961.

them separately, if necessary. ■Gasket assembly part no.

valve as a single unit, mounting screw for manifold and gasket are not attached. Order

Round head combination screw

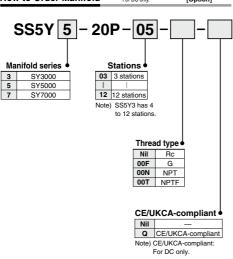
Series	Gasket assembly part no.
SY9000	SY9000-GS-1

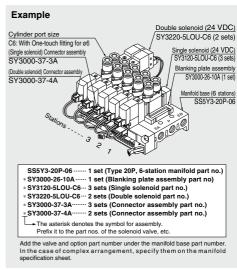
Note) The gasket assembly includes 10 sets of mounting screws and a gasket.

5 Port Solenoid Valve Body Ported Manifold Bar Stock Type/Flat Ribbon Cable SY3000/5000/7000 Series



How to Order Manifold Assembly (Example)





Note) Please indicate the connector assembly part no. below that connects the valve and the manifold.

Connector Assembly

For 12, 24 VDC

	. 02, 2 20				
Specifications	For SY3000	For SY5000/7000			
For single solenoid	SY3000-37-3A	SY5000-37-3A			
Double solenoid, 3 position type	SY3000-37-4A	SY5000-37-4A			
Single with spacer assembly	SY5000-37-3A	SY5000-37-5A			
Double, 3 position with spacer assembly	SY3000-37-6A	SY5000-37-6A			

Note) Spacer assembly indicates Individual SUP/EXH.

For 100 VAC

Specifications	For SY3000	For SY5000/7000
For single solenoid	SY3000-37-32A	SY5000-37-15A
Double solenoid, 3 position type	SY3000-37-33A	SY5000-37-16A
Single with spacer assembly	SY5000-37-15A	SY5000-37-17A
Double, 3 position with spacer assembly	SY3000-37-34A	SY5000-37-18A

For 100 VAC (115 VAC)

For SY3000	For SY5000/7000		
SY3000-37-35A	SY5000-37-19A		
SY3000-37-36A	SY5000-37-20A		
SY5000-37-19A	SY5000-37-21A		
SY3000-37-37A	SY5000-37-22A		
	SY3000-37-35A SY3000-37-36A SY5000-37-19A		

∆Caution

• For non-polar (U) valves, the electrical DC connections can be used with either positive and negative COM. For type (Z), only use with positive COM as the valve does not operate correctly when used with negative COM.

Body Ported **SY3000/5000/7000** Series



How to Order Valve

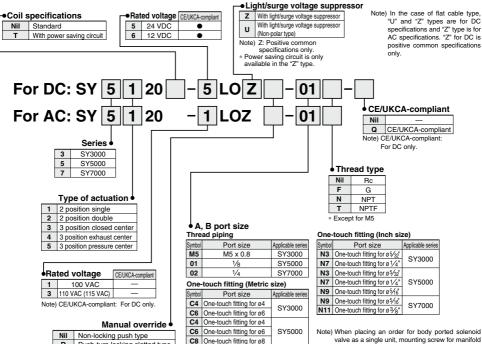
D

Push-turn locking slotted type

Push-turn locking lever type

Note) CE/UKCA-compliant: For DC only





C8 One-touch fitting for ø8

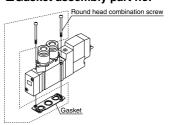
C10 One-touch fitting for ø10

SY7000

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary.

Note) Since the electrical entry is "LO", select a connector assembly part no. from those stated on page 776.

■Gasket assembly part no.



Series	Gasket assembly part no.
SY3000	SY3000-GS-1
SY5000	SY5000-GS-1
SY7000	SY7000-GS-1

Note) The gasket assembly includes 10 sets of mounting screws and a gasket.

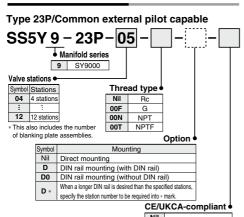
5 Port Solenoid Valve Body Ported Manifold Stacking Type/Flat Ribbon Cable

SY9000 Series

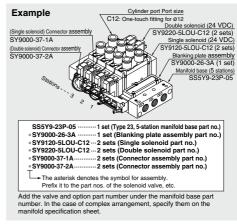


Note) CE/UKCA-compliant: For DC only.





How to Order Manifold Assembly (Example)

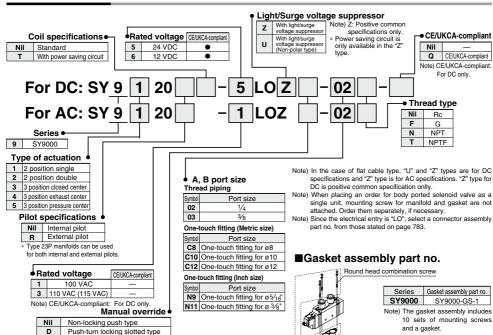


Note) Please indicate the connector assembly part no. (page 783) that connects the valve and the manifold.

How to Order Valve

Е

Push-turn locking lever type



Q CE/UKCA-compliant
Note) CE/UKCA-compliant:

For DC only.

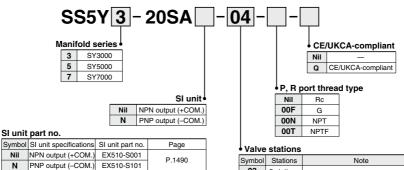
Tyne 20SA

EX510 Gateway-type Serial Transmission System Body Ported Manifold/Integrated Base

SY3000/5000/7000 Series

The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

How to Order Manifold

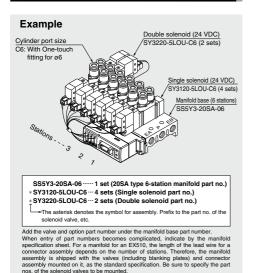


Symbol	Stations	Note
03	3 stations	
:		Double wiring Note 1)
08	8 stations	
03	3 stations	On a siting at Laurant Note 2)
:		Specified layout Note 2) (Compatible with 16 solenoid valves)
16	16 stations	(Companie with 10 solenoid valves)

- SS5Y3 can be set from 4 stations.
- . The number of the blanking plate assembly is also included.
- Note 1) Double wiring: 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 wiring specifications on the manifold specification sheet. (Note that double and 3 position valves cannot be used where single solenoid wiring has been specified.)

How to Order Manifold Assembly (Example)

Refer to pages 1478 to 1504 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, https://www.smcworld.com

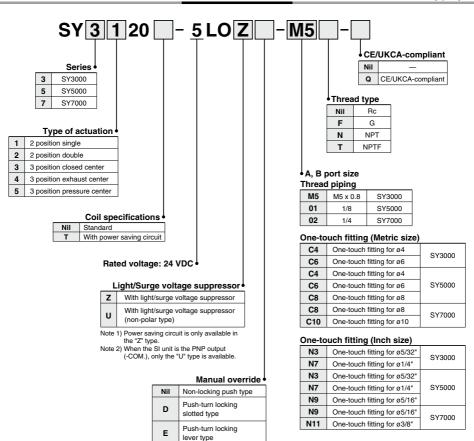


Body Ported Manifold SY3000/5000/7000 Series WR20SA



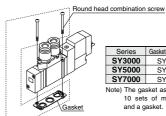
How to Order Valves





Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary,

■Gasket assembly part no.



Series	Gasket assembly part no.
SY3000	SY3000-GS-1
SY5000	SY5000-GS-1
SY7000	SY7000-GS-1

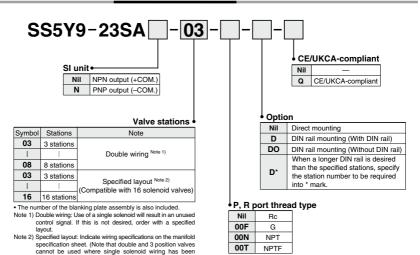
Note) The gasket assembly includes 10 sets of mounting screws and a gasket.

EX510 Gateway-type Serial Transmission System Body Ported Manifold/Stacking Type

SY9000 Series (EUK

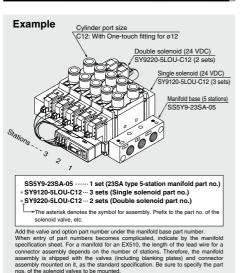
The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

How to Order Manifold



How to Order Manifold Assembly (Example)

specified.)



SI unit part po

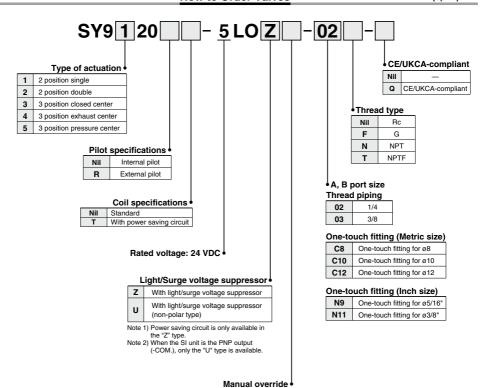
	P 411 4 11 4 1		
Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+COM.)	EX510-S001	P.1490
N	PNP output (-COM.)	EX510-S101	P.1490

Refer to pages 1478 to 1504 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, https://www.smcworld.com



How to Order Valves





Non-locking push type Push-turn locking

slotted type Push-turn locking

lever type

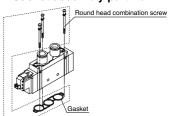
Nil

n

Е

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary.

■Gasket assembly part no.



Series	Gasket assembly part no.
SY9000	SY9000-GS-1

Note) The gasket assembly includes 10 sets of mounting screws and a gasket.

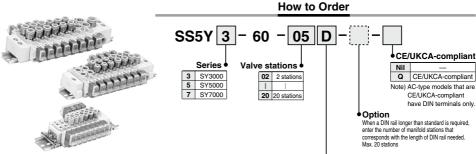
5 Port Solenoid Valve **Body Ported Manifold Cassette Type**







SY3000/5000/7000 Series

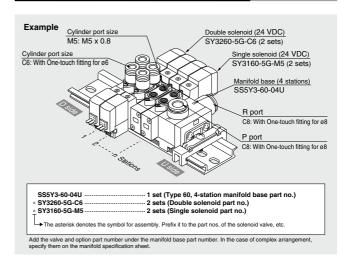


SUP/EXH block assembly mounting position

ymbol	Mounting position	Applicable stations	
U	U side	2 to 10 stations	
D	D side	2 to 10 stations	
В	Both sides	2 to 20 stations	
M°	Special location		

^{*} For special specifications, indicate separately by the manifold specification sheet

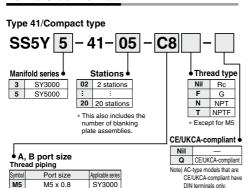
How to Order Manifold Assembly (Example)



5 Port Solenoid Valve **Base Mounted Manifold**

Bar Stock Type/Individual Wiring Ellication of the Part of the Par SY3000/5000/7000 Series

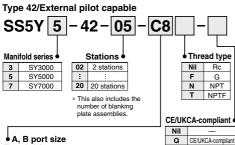
How to Order Manifold



SY5000 One-touch fitting (Metric size)

Symbol	Port size	Applicable series		Syn
C4	One-touch fitting for ø4	SY3000		N
C6	One-touch fitting for ø6	513000		N
C6	One-touch fitting for ø6	SY5000		N
C8	One-touch fitting for ø8		ا ا	N

	One-touch fitting (Inch size)						
S	Symbol	Port size	Applicable series				
1	N3	One-touch fitting for ø 5/32"	SY3000				
	N7 One-touch fitting for ø 1/4"		513000				
1	N7	One-touch fitting for ø 1/4"	SY5000				
	N9	One-touch fitting for ø5/16"	313000				



micaa piping					
Symbol	Port size	Applicable series			
01	1/8	SY3000			
02	1/4	SY5000			
02	1/4	SY7000			

One-touch fitting (Metric size)

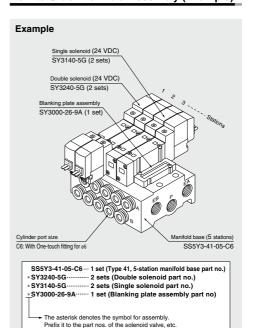
One-touch fitting (Inch size)

Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4	SY3000	
C6	One-touch fitting for ø6		
C6	One-touch fitting for ø6	SY5000	
C8	One-touch fitting for ø8		
C10	One-touch fitting for ø10	SY7000	

	Onc	todon nitting (mon siz	,	
3	Symbol	Applicable series		
N3 One-touch fitting f		One-touch fitting for ø5/32"	SY3000	
N7 One-tou		One-touch fitting for ø1/4"	513000	
1	N7	One-touch fitting for ø1/4"	SY5000	
	N9	One-touch fitting for ø5/16"	515000	
	N11	One-touch fitting for ø3/8"	SY7000	

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only

How to Order Manifold Assembly (Example)



Add the valve and option part number under the manifold base part

number. In the case of complex arrangement, specify them on the manifold

specification sheet.

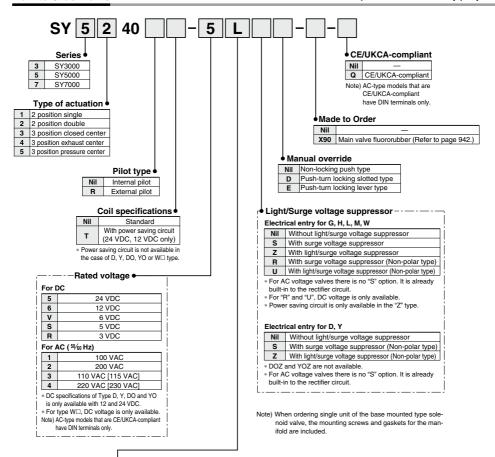
Base Mounted SY3000/5000/7000 Series 1994



How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.





Electrical entry

		• Electrical entry				
24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC				24, 12 VDC/ 100, 110, 200, 220 VAC	24, 12, 6, 5, 3 VDC	
		Grommet	L plug connector	M plug connector	DIN terminal	M8 connector
		G: Lead wire length 300 mm lead H: Lead wire length 600 mm	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	(SY5000/7000 only) D: With connector DO: Without connector Y: With connector YO: Without connector	WO: Without connector cable W□: With connector cable Note 2)
Manifold	SY3000	•	•	•	- Note 1)	•
Manifold mounting	SY5000	•	•	•	•	•
mounting	SY7000	•	•	•	•	•
CE/UKCA-	DC	•	•	•	•	•
compliant	AC	_	_	_	•	_

Note 1) The DIN terminal of the SY3000 series cannot be mounted on a standard manifold. For details, refer to page 958.

- Note 2) Enter the cable length symbols in . Please be sure to fill in the blank referring to page 961.
- * LN, MN type: with 2 sockets.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 957.
- * M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.

* For connector cable of M8 connector, refer to page 960.

* Refer to page 957 for the lead wire length of L and M plug connectors.

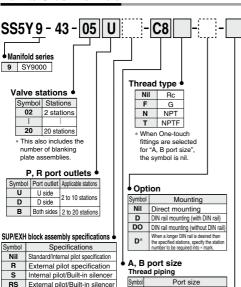
* Refer to page 958 for the connector assembly with cover for L and M plug connectors.

5 Port Solenoid Valve Base Mounted Manifold Stacking Type/Individual Wiring

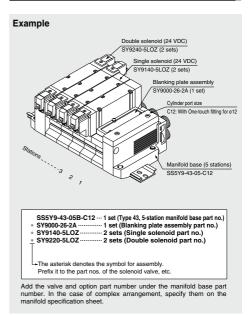
SY9000 Series CELE

[Option]
Note) AC-type models that are
CE/UKCA-compliant
have DIN terminals only.

How to Order Manifold



How to Order Manifold Assembly (Example)



03

C8 One-touch fitting for ø8
C10 One-touch fitting for ø10
C12 One-touch fitting for ø12
M Mixed

3/8

One-touch fitting (Inch size)

Symbol Port size

N9 One-touch fitting for ø5∕16′

N11 One-touch fitting for ø3⁄8″

Mixed

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

CE/UKCA-compliant

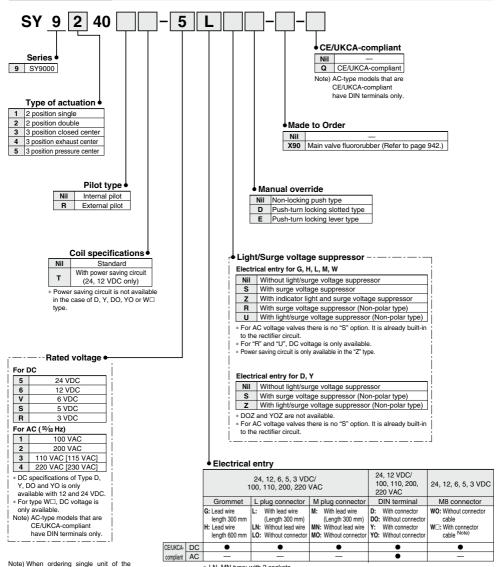
Nil	_
Q	CE/UKCA-compliant

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.





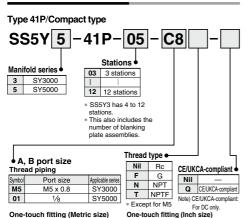
- base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.
- * LN, MN type: with 2 sockets.
- DIN terminal type "Y" which conforms to EN-175301-803C (former DIN43650C) is also available.
 For details, refer to page 957.
- * For connector cable of M8 connector, refer to page 960.
- M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.
- Befer to page 957 for the lead wire length of L and M plug connectors.
- * Refer to page 958 for the connector assembly with cover for L and M plug connectors.

Note) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 961.



5 Port Solenoid Valve Base Mounted Manifold Note) CE/UKCA-compliant: **Bar Stock Type/Flat Ribbon Cable** SY3000/5000/7000 Series

How to Order Manifold



Port size

SY3000

SY5000

For-DC only

One-touch fitting (Inch size) Port size

N3 One-touch fitting for ø5/32

N7 One-touch fitting for ø1/4'

N7 One-touch fitting for ø 1/4"

N9 One-touch fitting for ø5/16

Type 42P/Common external pilot capable

SY3000

SY5000

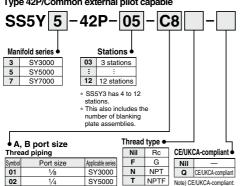
Port size

C4 One-touch fitting for ø4

C6 One-touch fitting for ø6

C6 One-touch fitting for ø6

C8 One-touch fitting for ø8

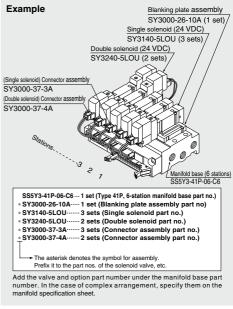


1/4 One-touch fitting (Metric size)

Symbol	Port size	Applicable series		Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	or ø6 SY3000		N3	One-touch fitting for ø5/32"	SY3000
C6	One-touch fitting for ø6			N7	One-touch fitting for ø1/4"	513000
C6	One-touch fitting for ø6			N7	One-touch fitting for ø1/4"	SY5000
C8	One-touch fitting for ø8	515000	SY5000		One-touch fitting for ø5/16"	515000
C10	One-touch fitting for ø10	SY7000		N11	One-touch fitting for ø3/8"	SY7000

SY7000

How to Order Manifold Assembly (Example)



Note) Please indicate the connector assembly part no. (page 835) that connects the valve and the manifold.

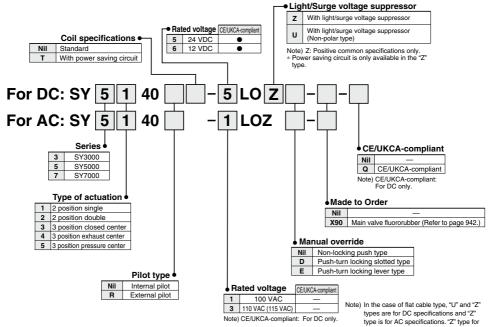
Base Mounted **SY3000/5000/7000** Series 1984 P.



How to Order Valve

Note) CE/UKCA-compliant: For DC only.





Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.

DC is positive common specification only. For the other combination, please contact SMC.

Note) Since the electrical entry is "LO", select an appropriate connector assembly part

Connector Assembly

For 12, 24 VDC

Specifications	For SY3000	For SY5000/7000				
For single solenoid	SY3000-37-3A	SY5000-37-3A				
Double solenoid, 3 position type	SY3000-37-4A	SY5000-37-4A				
Single with spacer assembly	SY5000-37-3A	SY5000-37-5A				
Double, 3 position with spacer assembly	SY3000-37-6A	SY5000-37-6A				
Natal Casassanalis indicates Individual CUID/E						

For 100 VAC

Specifications	For SY3000	For SY5000/7000
For single solenoid	SY3000-37-32A	SY5000-37-15A
Double solenoid, 3 position type	SY3000-37-33A	SY5000-37-16A
Single with spacer assembly	SY5000-37-15A	SY5000-37-17A
Double, 3 position with spacer assembly	SY3000-37-34A	SY5000-37-18A

For 100 VAC (115 VAC)

Specifications	For SY3000	For SY5000/7000
For single solenoid	SY3000-37-35A	SY5000-37-19A
Double solenoid, 3 position type	SY3000-37-36A	SY5000-37-20A
Single with spacer assembly	SY5000-37-19A	SY5000-37-21A
Double, 3 position with spacer assembly	SY3000-37-37A	SY5000-37-22A

Note) Spacer assembly indicates Individual SUP/EXH spacer.

5 Port Solenoid Valve **Base Mounted Manifold Stacking Type/Flat Ribbon Cable**

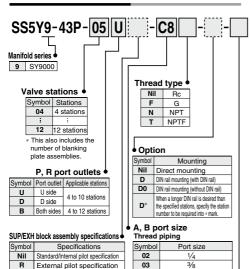
SY9000 Series (

[Option] Note) CE/UKCA-compliant: For DC only.

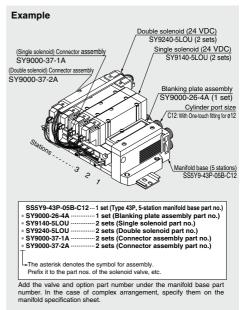
How to Order Manifold

Internal pilot/Built-in silencer

External pilot/Built-in silencer



How to Order Manifold Assembly (Example)



Note) Please indicate the connector assembly part no. (page 843) that connects the valve and the manifold.

C12 One-touch fitting for ø12 One-touch fitting (Inch size)

One-touch fitting (Metric size)

C8 One-touch fitting for ø8

C10 One-touch fitting for ø10

Symbol

Port size

Mixed

Symbol	Port size
N9	One-touch fitting for ø5/16"
N11	One-touch fitting for ø3/8"
M	Mixed

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

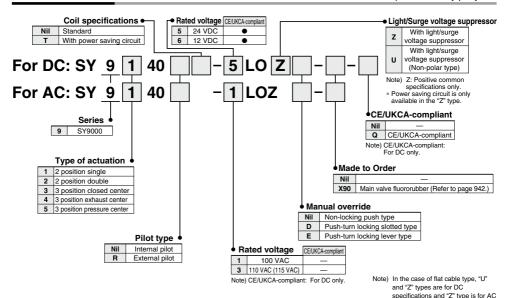
CE/UKCA-compliant

NII	_	
Ø	CE/UKCA-complian	
Note) CE/UKCA-compliant:		
For DC only.		

How to Order Valve

Note) CE/UKCA-compliant: For DC only.





Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included

specifications and "2" type is for AC specifications. "Z" type for DC is positive common specification only.

Note) Since the electrical entry is "LO", select an appropriate connector assembly part no.

Connector Assembly

For 12, 24 VDC

Specifications	For SY9000
For single solenoid	SY9000-37-1A
Double solenoid, 3 position type	SY9000-37-2A
Single with spacer assembly	SY9000-37-3A
Double, 3 position with spacer assembly	SY9000-37-4A

Note) Spacer indicates Individual SUP/EXH spacer.

For 100 VAC

Specifications	For SY9000
For single solenoid	SY9000-37-1B
Double solenoid, 3 position type	SY9000-37-2B
Single with spacer assembly	SY9000-37-3B
Double, 3 position with spacer assembly	SY9000-37-4B

For 110 VAC (115 VAC)

Specifications	For SY9000
For single solenoid	SY9000-37-1C
Double solenoid, 3 position type	SY9000-37-2C
Single with spacer assembly	SY9000-37-3C
Double, 3 position with spacer assembly	SY9000-37-4C

EX510 Gateway-type Serial Transmission System Base Mounted Manifold/Integrated Type SY3000/5000/7000 Series

The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

SY3000

SY5000

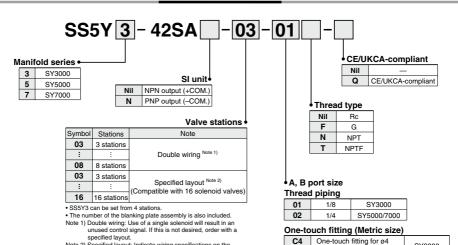
SY7000

SY3000

SY5000

SY7000

How to Order Manifold



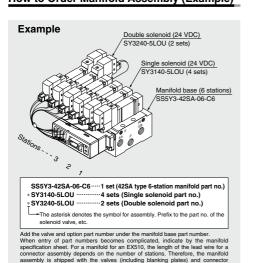
How to Order Manifold Assembly (Example)

Note 2) Specified layout: Indicate wiring specifications on the

wiring has been specified.)

manifold specification sheet. (Note that double and 3

position valves cannot be used where single solenoid



assembly mounted on it, as the standard specification. Be sure to specify the part

nos. of the solenoid valves to be mounted.

SI unit nart no

C6

C6

C8

C10

N7

N7

N9

	P		
Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+COM.)	EX510-S001	P.1490
N	PNP output (-COM.)	EX510-S101	P.1490

One-touch fitting for ø6

One-touch fitting for ø6

One-touch fitting for Ø8

One-touch fitting for ø10

One-touch fitting for ø1/4"

One-touch fitting for ø1/4"

One-touch fitting for ø5/16" One-touch fitting for ø3/8"

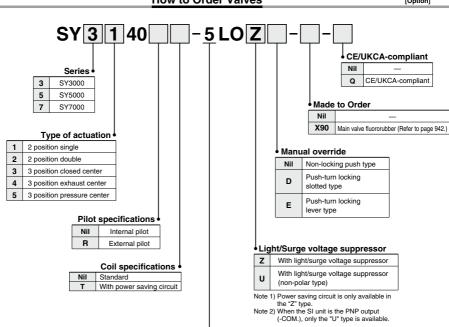
One-touch fitting (Inch size) One-touch fitting for ø5/32'

Refer to pages 1478 to 1504 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, https://www.smcworld.com

Base Mounted Manifold SY3000/5000/7000 Series 1/125A



How to Order Valves



Rated voltage: 24 VDC

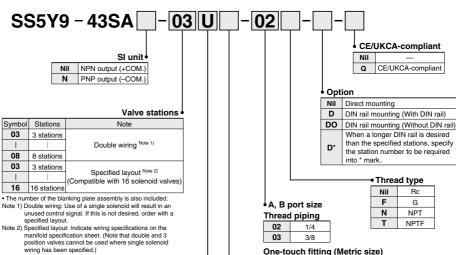
Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.

EX510 Gateway-type **Serial Transmission System Base Mounted Manifold/Stacking Type**

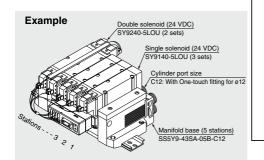
SY9000 Series (ELK

The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

How to Order Manifold



How to Order Manifold Assembly (Order Example)



SS5Y9-43SA-05B-C12 ··	· 1 set (43SA type 5-station manifold part no.)
SY9140-5LOU	· 3 sets (Single solenoid part no.)
01/00/00 51 011	0 1 - (D - 1-1 1 1 1 1)

The asterisk denotes the symbol for assembly. Prefix to the part no. of the solenoid valve, etc

Add the valve and option part number under the manifold base part number.

When entry of part numbers becomes complicated, indicate by the manifold specification sheet. For a manifold for an EX510, the length of the lead wire for a connector assembly depends on the number of stations. Therefore, the manifold assembly is shipped with the valves (including blanking plates) and connector assembly mounted on it, as the standard specification. Be sure to specify the part nos. of the solenoid valves to be mounted

C8	One-touch fitting for ø8
C10	One-touch fitting for ø10
C12	One-touch fitting for ø12
М	Mixed

One-touch fitting (Inch size)

N9	One-touch fitting for ø5/16"
N11	One-touch fitting for ø3/8"
M	Mixed

[.] For the mixed specification, indicate separately on a manifold specification sheet.

SUP/EXH block assembly specifications

CC: /=/(: Diccit december) epoci	
Nil	Standard/Internal pilot
R	External pilot
S	Internal pilot, Built-in silencer
RS	External pilot, Built-in silencer

P. R port outlets

U	U side	3 to 10 stations
D	D side	3 to 10 stations
В	Both sides	3 to 16 stations

SI unit part no.

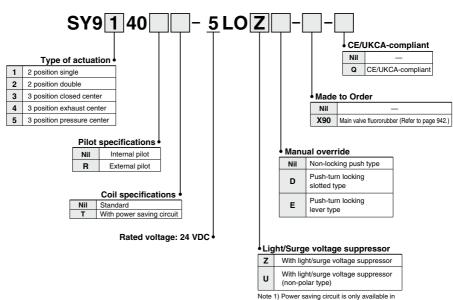
Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+COM.)	EX510-S001	P.1490
N	PNP output (-COM.)	EX510-S101	F.1490

Refer to pages 1478 to 1504 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, https://www.smcworld.com









Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.

the "Z" type.

Note 2) When the SI unit is the PNP output (-COM.), only the "U" type is available.

5 Port Solenoid Valve Base Mounted Manifold

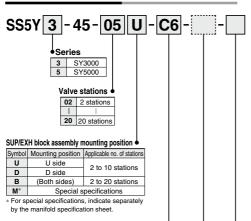
Note) AC-type models that are CE/UKCA-compliant



Stacking Type/DIN Rail Mounted/Individual Wiring

SY3000/5000 Series

How to Order Manifold



Option When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

CE/UKCA-compliant Nil Q CE/UKCA-compliant Note) AC-type models that are

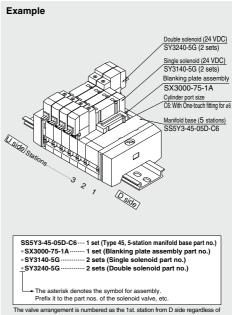
CE/UKCA-compliant have DIN terminals only

A. B port size

One-touch fitting (Metric size)			e)	One	-touch fitting (Inch	size)	
Symbol	Port size	Applicable series		Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4			N3	One-touch fitting for ø 5/32"		
C6	One-touch fitting for ø6	SY3000		N7	One-touch fitting for ø 1/4"	SY3000	
M	Mixed]		М	Mixed		
C4	One-touch fitting for ø4			N3	One-touch fitting for ø 5/32"		
C6	One-touch fitting for ø6		N7	One-touch fitting for ø 1/4"	SY5000		
C8	One-touch fitting for ø8		N9	One-touch fitting for ø 5/16"	515000		
M	Mixed			M	Mixed		

- * In the case of mixed specifications (M), indicate separately on the manifold specification sheet.
- * Refer to pages 934 to 938 for external pilot specifications and huilt-in silencer

How to Order Manifold Assembly (Example)



the mounting position of SUP/EXH block assembly. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the manifold specification sheet to instruct us.

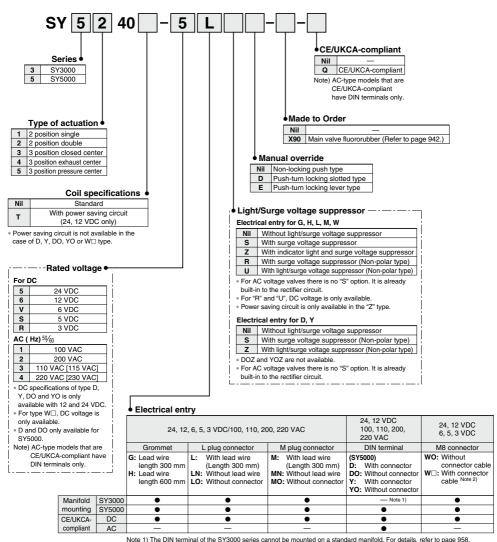
Base Mounted SY3000/5000 Series We 45



How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.





Note 2) Enter the cable length symbols in \square . Please be sure to fill in the blank referring to page 961.

- * LN, MN type: with 2 sockets.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
- Refer to page 957 for details. * Refer to page 960 for connector cable of M8 connector.
- * M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.
- * Refer to page 957 for the lead wire length of L and M plug connectors. * Refer to page 958 for the connector assembly with cover for L and M plug connectors.
- * When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the integrated manifold are supplied with the solenoid valve, but the stacking type gaskets are not included. When the stacking type gaskets are required, order them separately.

5 Port Solenoid Valve **Base Mounted Manifold**

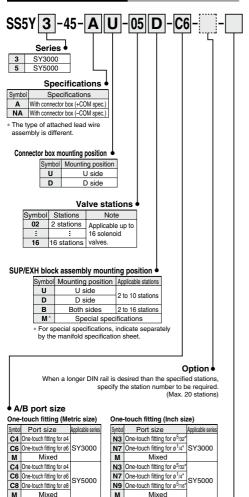
Stacking Type/DIN Rail Mounted/Connector Box





SY3000/5000 Series

How to Order Manifold



* Refer to pages 934 to 938 for external pilot specifications and huilt-in silencer

Q

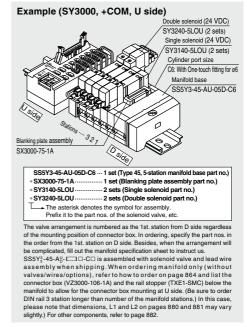
CE/UKCA-compliant

CE/UKCA-compliant

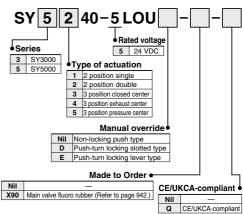
* In the case of mixed specifications, indicate separately on the

manifold specification sheet.

How to Order Manifold Assembly (Example)



How to Order Valve



* When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the integrated manifold are supplied with the solenoid valve, but the stacking type gaskets are not included. When the stacking type gaskets are required, order them separately.

EX510 Gateway-type Serial Transmission System Base Mounted Manifold/Stacking Type

SY3000/5000 Series

The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

SS5Y3-45S6AD-05D-C6... 1 set (45S6A type 5-station manifold part no.)

The asterisk denotes the symbol for assembly. Prefix to the part no. of the

Add the valve and option part number under the manifold base part number. When entry of part numbers becomes complicated, indicate by the manifold specification sheet. For a manifold for an EX510, the length of the lead wire for a connector assembly depends on the number of stations. Therefore, the manifold

assembly is shipped with the valves (including blanking plates) and connector

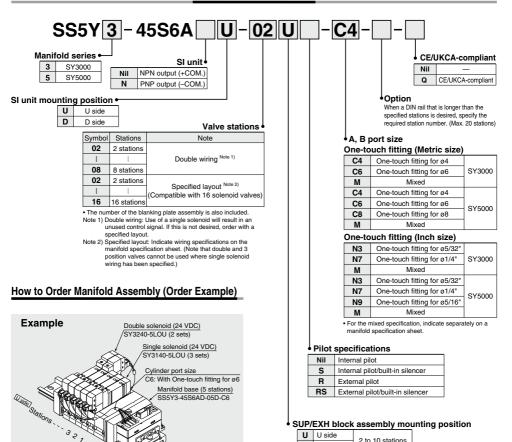
assembly mounted on it, as the standard specification. Be sure to specify the part

* SY3140-5LOU 3 sets (Single solenoid part no.) * SY3240-5LOU 2 sets (Double solenoid part no.)

solenoid valve, etc.

nos. of the solenoid valves to be mounted.

How to Order Manifold



SI unit part no.

D D side

М

Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+COM.)	EX510-S001	P.1490
N	PNP output (-COM.)	EX510-S101	P.1490

2 to 16 stations

Special specifications* *For the special specifications, indicate

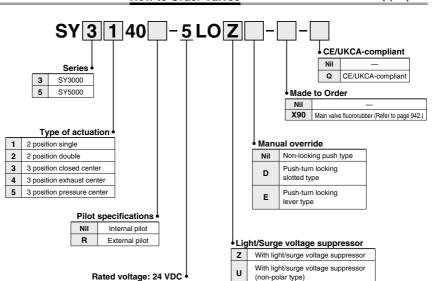
separately on a manifold specification sheet

Refer to pages 1478 to 1504 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, https://www.smcworld.com

Base Mounted Manifold SY3000/5000 Series 1/12 45S6A



How to Order Valves



* When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the integrated manifold are supplied with the solenoid valve, but the stacking type gaskets are not included. When the stacking type gaskets are required, order them separately.

5 Port Solenoid Valve **Base Mounted Manifold**

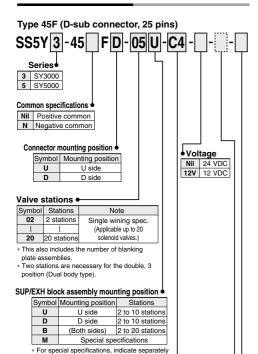
Stacking Type/DIN Rail Mounted/Plug-in





SY3000/5000 Series

How to Order Manifold



A, B port size •

by the manifold specification sheet.

One-touch fitting (Metric size)				One-touch fitting (Inch size)			
Symbol	Port size	Applicable series		Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4			N3	One-touch fitting for ø 5/32"		
C6	One-touch fitting for ø6	SY3000	N7	One-touch fitting for ø 1/4"	SY3000		
M	Mixed			M	Mixed		
C4	One-touch fitting for ø4	SV5000			N3	One-touch fitting for ø 5/32"	
C6	One-touch fitting for ø6			N7	One-touch fitting for ø 1/4"	SY5000	
C8	One-touch fitting for ø8		515000	N9	One-touch fitting for ø 5/16"	315000	
M	Mixed			M	Mixed		
* In t	* In the case of mixed specifications (M), indicate separately on the						

manifold specification sheet.

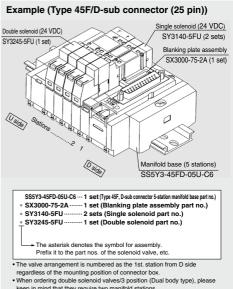
When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

CE/UKCA-compliant

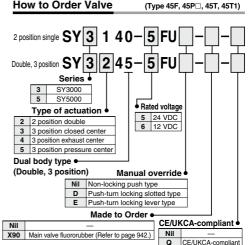
CE/UKCA-compliant

*	Refer to pages 934 to 938 for external pilot specifications
	and huilt-in silancer

How to Order Manifold Assembly (Example)

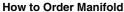


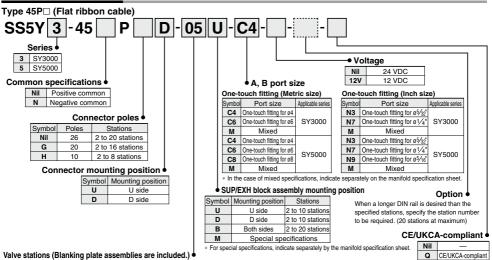
keep in mind that they require two manifold stations.



- * When ordering plug-in type solenoid valve as a single unit. gaskets are not included. Order them separately, if necessary.
- (Refer to page 908 for details.) * With light/surge voltage suppressor (Non-polar type)

Base Mounted SY3000/5000 Series IVE





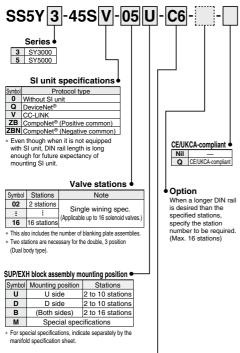
26 pins (P)	connector	20 pins (I	PG) connector	10 pins (PH) connector		
Symbol Stations	Note	Symbol Statio	ns Note	Symbol Stations	Note	
02 2 stations	Single wiring spec.	02 2 statio	Single wiring spec.	02 2 stations	Single wiring spec.	
: :	(Applicable up to 20	: :	(Applicable up to 16	: :	(Applicable up to 8	
20 20 stations	solenoid valves.)	16 16 statio	ns solenoid valves.)	O8 8 stations	solenoid valves)	

[•] Two stations are necessary for the double, 3 position (Dual body type).

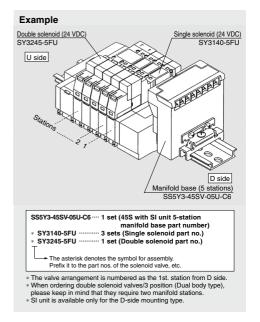


SY3000/5000 Base Mounted Manifold Stacking Type/DIN Rail Mounted EX122 Integrated-type (For Output) Serial Transmission System

How to Order Manifold



How to Order Manifold Assembly (Example)



A, B port size •

One-touch fitting (Metric size)				One	-touch fitting (Inch s	ize)	
Symbol	Port size	Applicable series		Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4			N3	One-touch fitting for ø5/32"		
C6	One-touch fitting for ø6	SY3000		N7	One-touch fitting for ø1/4"	SY3000	
M	Mixed		П	M	Mixed		
C4	One-touch fitting for ø4			N3	One-touch fitting for ø5/32"		
C6	One-touch fitting for ø6				One-touch fitting for ø 1/4"		
C8	One-touch fitting for ø8		515000		N9	One-touch fitting for ø5/16"	313000
M	Mixed			M	Mixed		
* In	. In the case of mixed enecifications, indicate concretely on the						

manifold specification sheet.

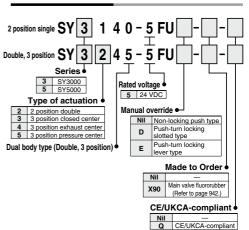
SI Unit Part No.

Symbol	Protocol type	SI unit No.
Q	DeviceNet®	EX122-SDN1
V	CC-LINK	EX122-SMJ1
ZB	CompoNet® (Positive common)	EX122-SCM1
ZBN	CompoNet® (Negative common)	EX122-SCM3

Refer to pages 1287 to 1294 and the Operation Manual for the details of EX122 Integrated-type (For Output) Serial Transmission System

Please download the Operation Manual via our website, https://www.smcworld.com

How to Order Valve



- When ordering plug-in type solenoid valve as a single unit, gaskets are not included. Order them separately, if necessary. (Refer to page 908 for details.)
- * With light/surge voltage suppressor (Non-polar type)



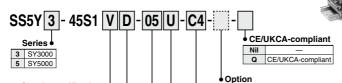
SY3000/5000 Base Mounted Manifold Stacking Type/DIN Rail Mounted

C E UK [Option]

EX 121 Separate Type (For Output) Serial Transmission System

(Max. 16 stations)

How to Order Manifold



SI unit specifications

Symbol	Protocol type			
0	Without SI unit			
Q	Q DeviceNet®			
٧	CC-LINK			
ZB	3 CompoNet® (Positive common)			
ZBN CompoNet® (Negative common)				
Even though when it is not equipped with SI				

 Even though when it is not equipped with SI unit, DIN rail length is long enough for future expectancy of mounting SI unit. When a shorter rail is required (same as type 45□), suffix "0" in the optional blank at the end of part number.

SI unit mounting position

۰		nang pooraon -
	Symbol	Mounting position
	U	U side
	п	D side

A, B port size

When a longer DIN rail is desired than the specified stations, specify the station number to be required.

One-touch fitting (Metric size)		One-touch fitting (Inch size)			
Symbol	Port size	Applicable series	Symbol	Port size	Applicable series
C4	One-touch fitting for ø4		N3	One-touch fitting for ø 5/32"	
C6	One-touch fitting for ø6	SY3000	N7	One-touch fitting for ø 1/4"	SY3000
M	Mixed		M	Mixed	
C4	One-touch fitting for ø4		N3	One-touch fitting for ø 5/32"	
C6	One-touch fitting for ø6	SY5000	N7	One-touch fitting for ø 1/4"	SY5000
C8	One-touch fitting for ø8	313000	N9	One-touch fitting for ø 5/16"	313000
M	Mixed		M	Mixed	

^{*} In the case of mixed specifications, indicate separately on the manifold specification sheet.

SUP/EXH block assembly mounting position

Symbol	Mounting position Stations		
U	U side	2 to 10 stations	
D	D side	2 to 10 stations	
В	Both sides 2 to 16 stations		
M	Special specifications		

For special specifications, indicate separately by the manifold specification sheet.

Valve stations

Symbol	Stations	Note		
02	2 stations	Single wiring spec.		
:	:	(Applicable up to 16		
16	16 stations	solenoid valves.)		

This also includes the number of blanking plate assemblies.

SI Unit Part No.

Symbol	Protocol type	SI unit No.
Q	DeviceNet®	EX121-SDN1
٧	CC-LINK	EX121-SMJ1
ZB	CompoNet® (Positive common)	EX121-SCM1
ZBN	CompoNet [®] (Negative common)	EX121-SCM3

[•] For external pilot specifications and built-in silencer, refer to pages 934 to 938.

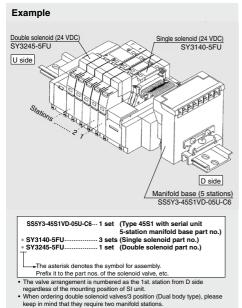
Refer to pages 1287 to 1294 and the Operation Manual for the details of EX121 Separate Type (For Output) Serial Transmission System.

Please download the Operation Manual via our website, https://www.smcworld.com

Two stations are necessary for the double, 3 position (Dual body type).

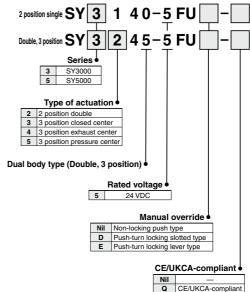


How to Order Valve Manifold Assembly (Example)



How to Order Valve





- * When ordering plug-in type solenoid valve as a single unit, gaskets are not included. Order them separately, if necessary. (Refer to page 908 for details.)
- * With light/surge voltage suppressor (Non-polar type)

EX510 Gateway-type Serial Transmission System Base Mounted Manifold/Stacking Type/Plug-in Type



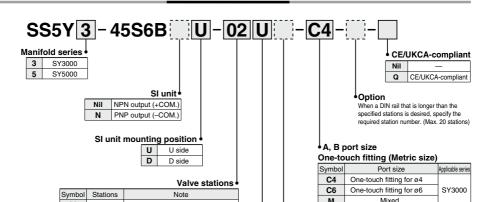




SY3000/5000 Series

The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

How to Order Manifold

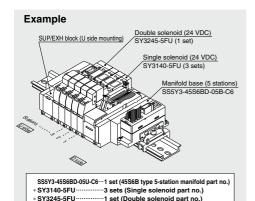


2 stations :

SI unit part no.

Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+COM.)	EX510-S002A	P.1490
N	PNP output (-COM.)	EX510-S102A	P.1490

How to Order Manifold Assembly (Example)



The asterisk denotes the symbol for assembly. Prefix to the part no. of the They will be assembled in the order listed starting at the first station at the D side

solenoid valve, etc.

vhether the connector box is located at either en · When ordering double solenoid valves/3 position (dual body type), please keep in mind that they require two manifold stations.

One-touch fitting (Inch size)

One-touch fitting for ø4

One-touch fitting for ø6

One-touch fitting for ø8

SY5000

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SY3000
M	Mixed	
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SY5000
N9	One-touch fitting for ø5/16"	313000
M	Mixed	

[·] For the mixed specification, indicate separately on a manifold specification sheet.

Pilot specifications

М

C4

C6

C8

Nil	Internal pilot		
S	Internal pilot/built-in silencer		
R	External pilot		
RS	External pilot/built-in silencer		

SUP/EXH block assembly mounting position

U	U side	2 to 10 stations		
D	D side	2 to 10 stations		
В	Both sides	2 to 16 stations		
М	Special specifications*			

^{*}For the special specifications, indicate separately on a manifold specification sheet

Refer to pages 1478 to 1504 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, https://www.smcworld.com

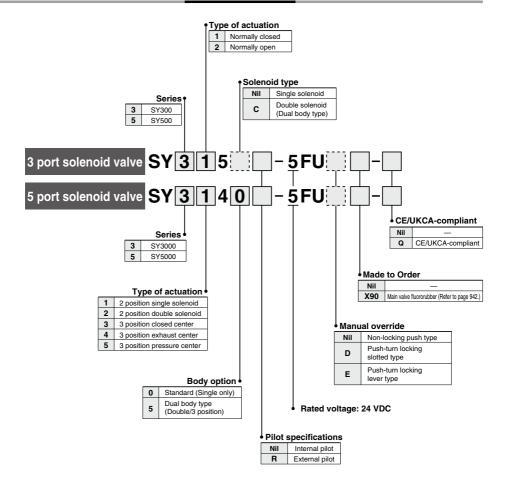
Compatible with 16 solenoid valves 16 stations *The number of the blanking plate assembly is also included.

Base Mounted Manifold SY3000/5000 Series Ima 4556B



How to Order Valves





- * When ordering plug-in type solenoid valve as a single unit, gaskets are not included. Order them separately, if necessary. (Refer to page 908 for details.)
- * With light/surge voltage suppressor (Non-polar type)

3 Port Valve Mixed Mounting Type on 5 Port Valve Manifold **SY300/500 Series**

3 port valve can be mounted on manifold for 5 port valve.

C E UK

Single Unit

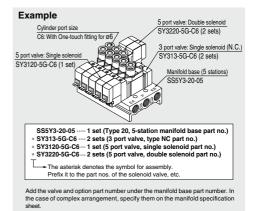
Brackets and sub-plates are the same as the SY3000/5000 series.

Applications

Possible to be mounted on all kinds of manifolds for the SY3000/5000 series.

Refer to "How to Order Manifold" for the details.

How to Order Manifold Assembly (Example)



Specifications

Dimensions, specifications, solenoid specifications, response time and effective area are the same as 5 port valve.

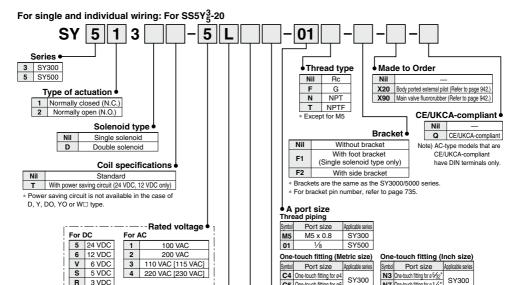
3 Port Valve SY300/500 Series

Body Ported/How to Order Valve

Note) AC-type models that are CE/UKCAcompliant have DIN terminals only.







Electrical entry

		24, 12, 6, 5, 3 V 100, 110, 200, 220			24, 12 VDC 100, 110, 200, 220 VAC	24, 12 VDC 6, 5, 3 VDC
Gror		Grommet	L plug connector	M plug connector	DIN terminal	M8 connector
		G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	(SY500 only) D: With connector DO: Without connector Y: With connector YO: Without connector	connect or cable W: With connect or cable
KCA-	DC	•	•	•	•	•
oliant	AC	_	_	_	•	_

* DC specifications of Type D, Y, DO and YO is

* For type W , DC voltage is only available.

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

only available with 12 and 24 VDC

* LN, MN type: with 2 sockets.

CE/UH

comp

- * Refer to page 958 for DIN terminal type of the SY3000 series.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former
- DIN43650C). For details, refer to page 957.
- * For connector cable of M8 connector, refer to page 960.
- * M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.
- Refer to page 957 for the lead wire length of L and M plug connectors.
- * Refer to page 958 for the connector assembly with cover for L and M plug connectors.

Note) Enter the cable length symbols in \square . Please be sure to fill in the blank referring to page 961.

Manual override

C6 One-touch fitting for ø6 SY500

C6 One-touch fitting for ø6

C4 One-touch fitting for ø4

C8 One-touch fitting for ø8

Nil	Non-locking push type
D	Push-turn locking slotted type
Е	Push-turn locking lever type

Electrical entry for G, H, L, M, W			Electrical entry for D, Y	
Nil	Without light/surge voltage suppressor		(SY500	only)
S	With surge voltage suppressor		Nil	Without light/surge voltage suppressor
Z	With light/surge voltage suppressor		S	With surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)		z	With light/surge voltage suppressor
U	With light/surge voltage suppressor (Non-polar type)		* DOZ	and YOZ are not
* For AC voltage valves there is no "S" option.			availa	ble.
It is already built-in to the rectifier circuit.			* For AC voltage valves there is	
* For "B" and "LI" DC voltage is only			no "S'	option. It is already

N7 One-touch fitting for ø 1/4"

N3 One-touch fitting for ø 5/32"

N7 One-touch fitting for a 1/4"

N9 One-touch fitting for ø 5/16"

SY500

* Power saving circuit is only available in the "Z" type.

available

Note) When placing an order for body ported solenoid valve as a single unit. mounting screw for manifold and gasket are not attached. Order them separately, if necessary.

■Gasket assembly part no.



Series	Gasket assembly part no.
SY300	SY3000-GS-1
SY500	SY5000-GS-1

built-in to the rectifier circuit.

Note) The gasket assembly includes 10 sets of mounting screws and a gasket.

SY300/500 Series

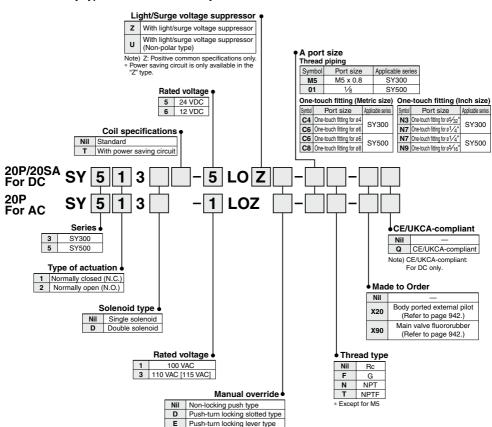
The EX510 series is to be discontinued. When designing new equipment and facilities, consider using another series (EX260/EX600) instead.

Note) CE/UKCA-compliant: For DC only.



Body Ported/How to Order Valve

Flat ribbon cable :SS5Y $_5^3$ -20P/20SA EX510 Gateway-type serial transmission system:

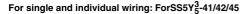


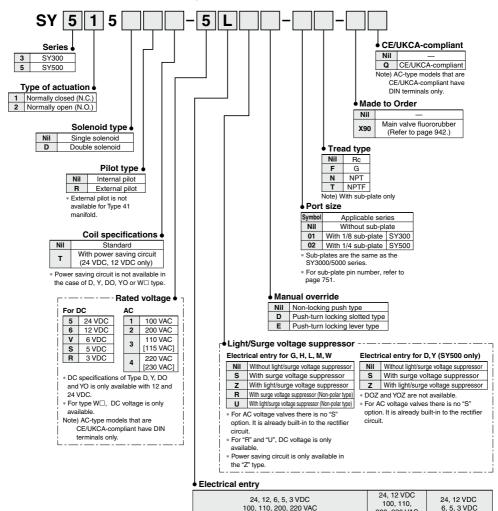
3 Port Valve SY300/500 Series

Base Mounted/How to Order Valve

Note) AC-type models that are CE/UKCA compliant have DIN terminals only.







* LN, MN type: with 2 sockets.

CE/UKCA- DC

* Refer to page 958 for DIN terminal type of the SY300 series.

L plug connector M plug connector

With lead wire

MN: Without lead wire

•

(Length 300 mm)

With lead wire

LN: Without lead wire

(Length 300 mm)

length 600 mm LO: Without connector MO: Without connector

"Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 957.

Grommet

length 300 mm

G: Lead wire

H: Lead wire

- * Refer to page 960 for connector cable of M8 connector.
- M8 conector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.
- Refer to page 957 for the lead wire length of L and M plug connectors.

M8 connector

W□: With connector cable Note)

connector cable

WO: Without

200, 220 VAC

DIN terminal

(SY500 only)

D: With connector

Y: With connector YO: Without connector

DO: Without connector

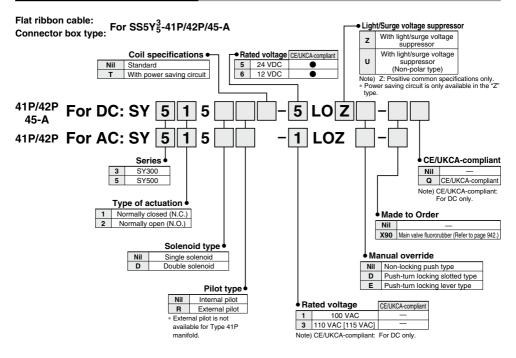
- * Refer to page 958 for the connector assembly with cover for L and M plug connectors.
- Note) Enter the cable length symbols in □.

 Please be sure to fill in the blank referring to page 961.

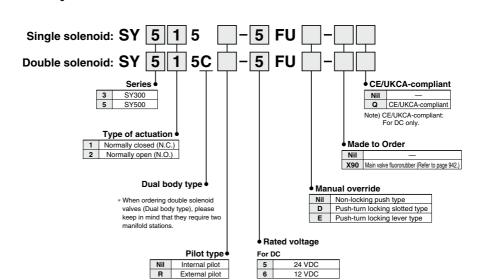
SY300/500 Series

Base Mounted/How to Order Valve

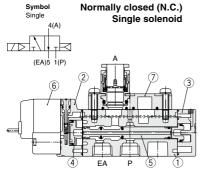


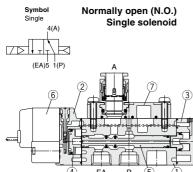


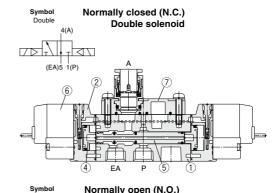
Plug-in: For SS5Y₅-45□

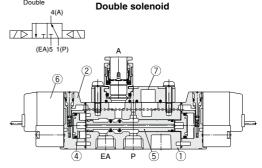


Construction: Body Ported









Component Parts

		P		
ı	No. Description		Material	Note
	1	Body	Aluminum die-casted (SY3000: Zinc die-casted)	White
	2	Adapter plate	Resin	White
	3	End plate	Resin	White
	4	Piston	Resin	-
	5	Spool valve assembly	Aluminum, H-NBR	-

Replacement Parts

Double

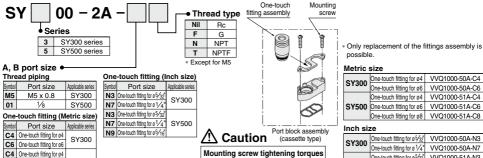
No.	Description	No.
6	Pilot valve assembly	Refer to "How to Order Pilot Valve Assembly" on page 948.
7	M5 port block assembly	Refer to "How to Order Port Block Assembly" below.

How to Order M5 Port Block Assembly

SY500

C6 One-touch fitting for ø6

C8 One-touch fitting for ø8



SY300 (M2): 0.12 N·m

SY500 (M3): 0.6 N·m

wetric size			
SY300	One-touch fitting for ø4	VVQ1000-50A-C4	
51300	One-touch fitting for ø6	VVQ1000-50A-C6	
	One-touch fitting for ø4	VVQ1000-51A-C4	
SY500	One-touch fitting for ø6	VVQ1000-51A-C6	
	One-touch fitting for ø8	VVQ1000-51A-C8	

Inch size

	SY300	One-touch fitting for ø5/32"	VVQ1000-50A-N3
		One-touch fitting for ø 1/4"	VVQ1000-50A-N7
	SY500	One-touch fitting for ø 5/32"	
		One-touch fitting for ø 1/4"	VVQ1000-51A-N7
		One-touch fitting for ø5/16"	VVQ1000-51A-N9

SY3000/5000 Made to Order **External Pilot/Built-in Silencer**



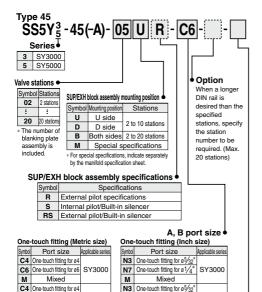


Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

External pilot manifold bases for low-pressure/vacuum use are added to split type/ DIN rail manifolds. The built-in silencer has materialized a clear-cut appearance.

Individual Wiring/Connector Box Type

How to Order Manifold



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

SY5000

N7 One-touch fitting for ø 1/4

N9 One-touch fitting for ø5/16"

Mixed

C6 One-touch fitting for ø6

C8 One-touch fitting for ø8

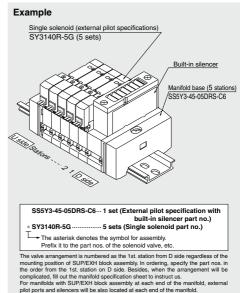
CE/UKCA-compliant

SY5000

Nil	_	
Q	CE/UKCA-compliant	

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

How to Order Manifold Assembly (Example)



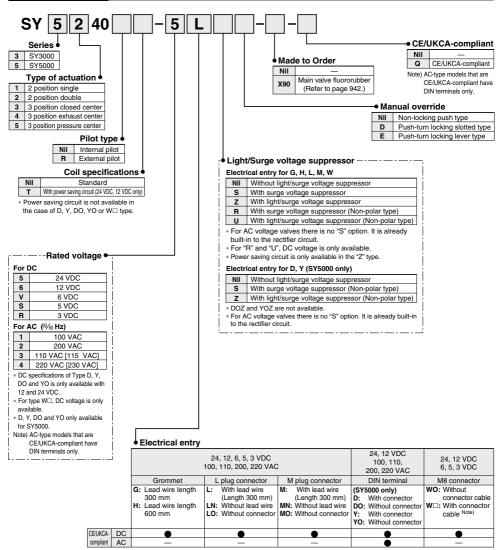
The SUP/EXH block assembly (SX3/5000-51-1A), for special specifications as shown on page 874, can also be mounted. Please specify the mounting position, by correctly filling in the blank space on the manifold specification sheet.



How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only





- * LN, MN type: with 2 sockets.
- * D, Y, DO and YO only available for SY5000.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). Refer to page 957 for details.
- * Setting "-5LOU" is available only for connector box type.
- Refer to page 960 for connector cable of M8 connector.
- * M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details.
- Refer to page 957 for the lead wire length of L and M plug connectors.
- Refer to page 958 for the connector assembly with cover for L and M plug connectors. Note) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 961.

^{*} When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the integrated manifold are supplied with the solenoid valve, but the stacking type gaskets are not included. When the stacking type gaskets are required, order them separately.

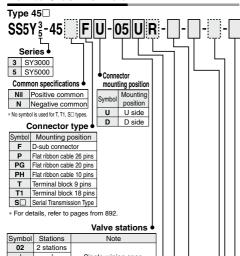
The SS5Y3/5-45T/T1□ type plug-in terminal block manifold is to be discontinued as of December 2019 Therefore, we recommend considering the SY3000/5000/7000 plug-in connector connecting base terminal block box type manifold as a substitute. (Click here for details.)

However, keep in mind that there is no specification or mounting compatibility between the two products.



Plug-in

How to Order Manifold



- Single wining spec. 20 20 stations * This also includes the number of blanking plate assemblies.
- * Depending on the connector, the number of stations is limited. Refer to page 894.
- * Two stations are necessary for the double, 3 position (Dual

SUP/EXH block assembly mounting position

Symbol	Mounting position	Stations
U	U side	0.4- 40 -4-4
D	D side	2 to 10 stations
В	Both sides	2 to 20 stations
М	Special specifications	

* For special specifications, indicate separately by the manifold specification sheet.

SUP/EXH block assembly specifications

Symbol	Specifications		
R	External pilot specifications		
S	Internal pilot/Built-in silencer		
RS	External pilot/Built-in silencer		

A, B port size •

One-touch fitting (Metric size)			One-touch fitting (Inch size)		
Symbol	Port size	Applicable series	Symbol	Port size	Applicable
CA	One tough fitting for all		NIO	One touch fitting for a5/col	

Symbol	Port size	Applicable series		Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4			N3	One-touch fitting for ø5/32"		
C6	One-touch fitting for ø6	SY3000		N7	One-touch fitting for ø1/4"	SY3000	
M	Mixed				М	Mixed	
C4	One-touch fitting for ø4			N3	One-touch fitting for ø5/32"		
C6	One-touch fitting for ø6				One-touch fitting for ø1/4"	SY5000	
C8	One-touch fitting for ø8			N9	One-touch fitting for ø5/16"	515000	
M	Mixed			М	Mixed		

* In the case of mixed specifications, indicate separately on the manifold specification sheet

Voltage ● Nil 12V

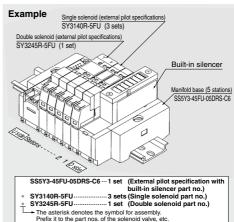
12 VDC

Option • When a longer DIN rail is desired than the specified stations, specify the station number * No symbol is used for T, T1, S□ types. to be required. (20 stations at maximum)

CE/UKCA compliant

CE/UKCA-compilar	
Nil	_
Q	CE/UKCA-compliant

How to Order Manifold Assembly (Example)



The valve arrangement is numbered as the 1st. station from D side regardless of the mounting position of SUP/EXH block assembly. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the manifold specification sheet to instruct us

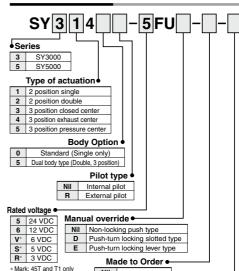
ill out the final flood specification's refer to instruct us.

For manifolds with SUP/EXH block at each end of the manifold, external pilot ports and silencers will be also located at each end of the manifold.

The SUP/EXH block assembly (SX/5000.51-11), for special specifications, can also be mounted. Please specify the mounting position, by correctly filling in the blank space on the manifold specification sheet.

Two stations of the manifold base are necessary for the double, 3 position (Dual body type). Use caution when specifying the number of stations required for the manifold base.

How to Order Valve



Nil S□ type is available Main valve fluororubbe for 24 VDC only. (Refer to page 942.)

CE/UKCA-compliant Nil Q CE/UKCA-compliant



SY3000/5000 **Made to Order** Mixed Mounting Type



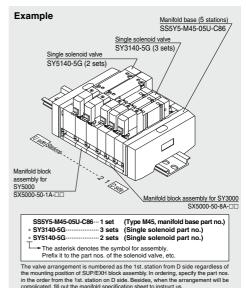


Note) CE/UKCA-compliant: For DC only

This manifold makes it possible to mount SY3000 onto base of SY5000.

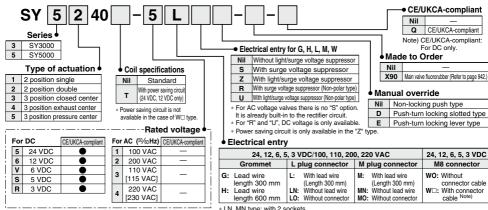
How to Order Manifold Type M45 (Mixed mounting type) SS5Y5-M45-05||U Mixed mounting type ◆ Valve stations SUP/EXH block assembly mounting position ◆ CE/UKCA-compliant Symbol Stations Symbol Mounting position Nil 2 station U side 2 to 10 stations Q CE/UKCA-complian D side 20 20 station В Both sides 2 to 20 stations Special specifications * The number of Option blanking plate * For special specifications, indicate separately When a longer DIN assembly is by the manifold specification heet. rail is desired than included, too. the specified SUP/EXH block assembly specifications stations, specify the Specifications Symbol station number to be Nil Standard/Internal pilot specifications required. Built-in silencer (Max 20 stations) * External pilot specification is unavailable for mixed mounting type A, B port size One-touch fitting (Metric size) One-touch fitting (Inch size) Port size Port size SY5000: One-touch fitting for ø4 SY5000: One-touch fitting for ø5/33 SY3000: One-touch fitting for ø4 SY3000: One-touch fitting for ø5/3 SY5000: One-touch fitting for ø4 SY5000: One-touch fitting for ø5/3 SY3000: One-touch fitting for ø1/4 SY3000: One-touch fitting for ø6 SY5000: One-touch fitting for ø6 SY5000: One-touch fitting for ø1/s SY3000: One-touch fitting for ø4 SY3000: One-touch fitting for ø5/33 SY5000: One-touch fitting for ø6 SY5000: One-touch fitting for ø1/ SY3000: One-touch fitting for ø6 SY3000: One-touch fitting for ø1/4 SY5000: One-touch fitting for ø5/16 SY5000: One-touch fitting for Ø8 SY3000: One-touch fitting for ø4 SY3000: One-touch fitting for ø5/33 SY5000: One-touch fitting for ø5/16 SY5000: One-touch fitting for Ø8 SY3000: One-touch fitting for Ø6 SY3000: One-touch fitting for ø1/4 Mixed Mixed

How to Order Manifold Assembly (Example)



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

How to Order Valve



- * For type W□, DC voltage is only available Note) CE/UKCA-compliant: For DC only.
- * When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the integrated manifold are supplied with the solenoid valve, but the stacking type gaskets are not included. When the stacking type gaskets are required, order them separately
- * LN, MN type: with 2 sockets.
- * Refer to page 960 for connector cable of M8 connector.
- * M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 941 for details. * Refer to page 957 for the lead wire length of L and M plug connectors.
- * Refer to page 958 for the connector assembly with cover for L and M plug connectors.
- Note) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 961.

[SY3000/5000/7000/9000/SY300/500 Series] Made to Order

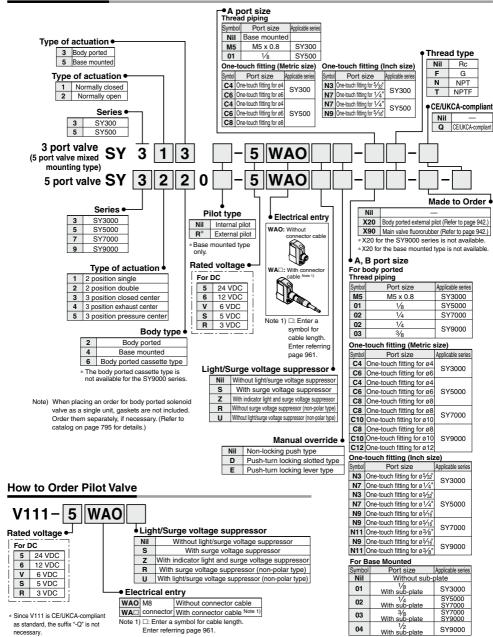
M8 Connector Conforming to IEC60947-5-2





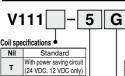
How to Order Valve

* For details on specifications, refer to page 956.



SY3000/5000/7000/9000 Series Pilot Valve Assembly Port Block Assembly

How to Order Pilot Valve Assembly



 Power saving circuit is not available in the case of D, DO or W□ type.

Rated voltage

5	24 VDC
6	12 VDC
٧	6 VDC
S	5 VDC
R	3 VDC
1	100 VAC 51/66 Hz
2	200 VAC 50/60Hz
3	110 VAC 50/60Hz
3	[115 VAC 50/60Hz]
4	220 VAC 50/60Hz
4	[230 VAC 51/60Hz]

- * For type W□, DC voltage is only available.
- * CE/UKCA-compliant: For DC only.

Light/Surge voltage suppressor

Nil	Without light/surge voltage suppressor
s	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
	With light/surge voltage suppressor (Non-polar type)

- * For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.
- * For "R" and "U", DC voltage is only available.
- Power saving circuit is only available in the "Z" type.

Electrical entry

G	Grommet, 300 mm lead wire		
Н	Grommet, 600 mm lead wir		
L	Labor	With lead wire	
LN		Without lead wire	
LO		Without connector	
M	М	With lead wire	
MN	M plug connector	Without lead wire	
МО	COTTRECTO	Without connector	
wo	M8	Without connector cable	
W	connector	With connector cable Note 1)	

- For connector cable of M8 connector, refer to page 960.
- Note 1) Enter the cable length symbols in □. Please be sure to fill in the
 - □. Please be sure to fill in the blank referring to page 961.

■ DIN terminal type V115 - 5 D

Rated voltage

	5	24 VDC
	6	12 VDC
	1	100 VAC 50/60 Hz
	2	200 VAC 51/60 Hz
I		110 VAC 50/60 Hz
	3	[115 VAC 50/60 Hz]
1	4	220 VAC 50/60 Hz
	4	[230 VAC 50/60 Hz]

* DC specifications of type D and DO is only available with 12 and 24

Light/Surge voltage suppressor

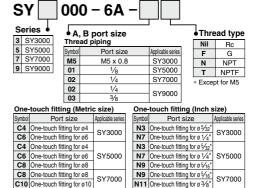
	Nil	Without light/surge voltage suppressor
		With surge voltage suppressor (Non-polar type)
		With light/surge voltage suppressor (Non-polar type)

- DOZ and YOZ are not available.
 For AC voltage valves there is no
 "S" option. It is already built-in to the
 rectifier circuit.
- Electrical entry

- Licoti loai cha y		
D	DIN	With connector
DO	terminal (Type D)	Without connector
Υ	DIN	With connector
YO	terminal (Type Y)	Without connector

Note) Do not replace V111 (G, H, L, M) to V115 (DIN terminal) and vice versa when replacing pilot valve assembly only.

How to Order Port Block Assembly



How to Change Port Block Assembly

Connecting port size of A and B can be changed by replacing port block assembly mounted on body. When changing block assembly, correct screw torque must be achieved to avoid trouble; e.g. air leakage.

N9 One-touch fitting for ø 5/16"
N11 One-touch fitting for ø 3/8"

SY9000

With the one-touch fitting port block assembly, it is only necessary to change the fitting and not the whole block. Refer to following part numbers.

One-touch fitting (Metric size)

C8 One-touch fitting for ø8

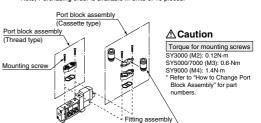
C10 One-touch fitting for ø10 SY9000
C12 One-touch fitting for ø12

One-touch fitting (Metric Size)					
Port size	Fitting assembly part no.	Applicable series			
One-touch fitting for ø4	VVQ1000-50A-C4	SY3000			
One-touch fitting for ø6	VVQ1000-50A-C6	7 513000			
One-touch fitting for ø4	VVQ1000-51A-C4				
One-touch fitting for ø6	One-touch fitting for ø6 VVQ1000-51A-C6 S				
One-touch fitting for ø8	VVQ1000-51A-C8				
One-touch fitting for ø8	VVQ2000-51A-C8	SY7000			
One-touch fitting for ø10	VVQ2000-51A-C10	517000			
One-touch fitting for ø8	VVQ4000-50B-C8				
One-touch fitting for ø10	VVQ4000-50B-C10	SY9000			
One-touch fitting for ø12	VVQ4000-50B-C12]			

One-touch fitting (Inch size)

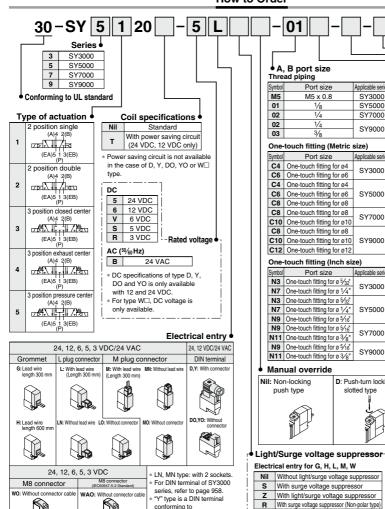
one todon many (mon oleo)					
Port size	Fitting assembly part no.	Applicable series			
One-touch fitting for ø5/32"	VVQ1000-50A-N3	SY3000			
One-touch fitting for ø1/4"	VVQ1000-50A-N7	513000			
One-touch fitting for ø5/32"	VVQ1000-51A-N3				
One-touch fitting for ø1/4"	VVQ1000-51A-N7	7 SY5000			
One-touch fitting for ø5/16"	VVQ1000-51A-N9				
One-touch fitting for ø1/4"	VVQ2000-51A-N9	SY7000			
One-touch fitting for ø3/8"	VVQ2000-51A-N11	317000			
One-touch fitting for ø5/16"	VVQ4000-50B-N9	SY9000			
One-touch fitting for ø3/8"	VVQ4000-50B-N11	319000			

Note) Purchasing order is available in units of 10 pieces.



5 Port Solenoid Valve (CA CA UK **Body Ported/Single Unit** SY3000/5000/7000/9000 Series

How to Order



	1 1 1				
Г	'		● Bracket		
A ,	B port size		Nil: Without bracket		
hre	ad piping		F1: With foot bracket		
ymbol	Port size	Applicable series	(2 position single only)		
M5	M5 x 0.8	SY3000	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
01	1/8	SY5000			
02	1/4	SY7000	11 🔊 1		
02	1/4	SY9000			
03	3/8	319000			
One-touch fitting (Metric size)			F2: With side bracket		
ymbol	Port size	Applicable series			
C4	One-touch fitting for ø4	SY3000			
C6	One-touch fitting for ø6	313000			
C4	One-touch fitting for ø4]			
C6	One-touch fitting for ø6	SY5000			
C8	One-touch fitting for ø8		* SY9000 has no bracket.		
C8	One-touch fitting for ø8	SY7000	* S Y 9000 has no bracket.		
210	One-touch fitting for ø10	317000			
C8	One-touch fitting for ø8]	Thread type		
210	One-touch fitting for ø10	SY9000	Nil Rc		

One-touch fitting (Inch size)			
Symbol	Port size	Port size Applicable series	
N3	One-touch fitting for ø 5/32"	0)/0000	
N7	One-touch fitting for ø 1/4"	SY3000	
N3	One-touch fitting for ø 5/32"		
N7	One-touch fitting for ø 1/4"	ouch fitting for ø 1/4" SY5000	
N9	One-touch fitting for ø 5/16"]	
N9	One-touch fitting for ø 5/16"	SY7000	
N11	One-touch fitting for ø 3/8"	517000	
N9	One-touch fitting for ø 5/16"	01/0000	
NI44	11 One touch fitting for a 3.6" SY9000		

Except for M5 Made to Order

	Nil	_		
	X20	Body ported external pilot (Refer to page 942.)		
	X90	Main valve fluororubber (Refer to page 942.		
CE/UVCA compliant o				

G

NPT N

NPTF

CE/UKCA-compliant • a CE/UKCA-compliant





Light/Surge voltage suppressor

	•	•			
Electi	Electrical entry for G, H, L, M, W				
Nil	Without light/surg	e volta	age supp	ressor	
S	With surge volta	ge sup	presso	r	
Z	With light/surge	voltag	e suppr	essor	
R	With surge voltage su	uppress	or (Non-po	olar type)	
U	With light/surge voltage	suppres	sor (Non-p	olar type)	
* For AC voltage valves there is no "S" option					

It is already built-in to the rectifier circuit.

* For "R" and "U", DC voltage is only available. * Power saving circuit is only available in the "Z" type

Electrical entry for D, Y Nil Without light/surge voltage suppressor With surge voltage suppressor With light/surge voltage suppressor

> DOZ and YOZ are not available. * For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them

separately, if necessary. (For details, refer to page 795.)

lead wire length of L and M plua connectors

EN-175301-803C (former

DIN43650C). For details,

* For connector cable of M8

connector, refer to page

* For the M8 connector with a

connector cable, only

American certification

refer to page 957.

ws) is available. Refer to page 957 for the

960

WA1: With connector cable (Length 0.3 m

WA2: With connector cable (Length 0.5 m)

WA3: With connector cable (Length 1 m)
WA4: With connector cable (Length 2 m)

WA5: With connector cable (Length 3 m) WA6: With connector cable (Length 4 m)

WA7: With connector cable (I enoth 5 m)

W1: With connector cable (Length 0.3 m)

W2: With connector cable (Length 0.5 m)

W3: With connector cable (Length 1 m)

W4: With connector cable (Length 2 m)

W5: With connector cable (Length 3 m)

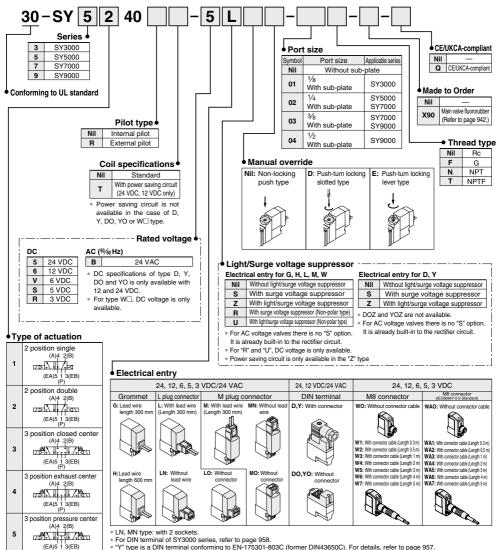
W6: With connector cable (Length 4 m)

W7: With connector cable (I enoth 5 m)

Refer to the standard product for specifications and dimensions.

5 Port Solenoid Valve (C UK C US US **Base Mounted/Single Unit** SY3000/5000/7000/9000 Series

How to Order

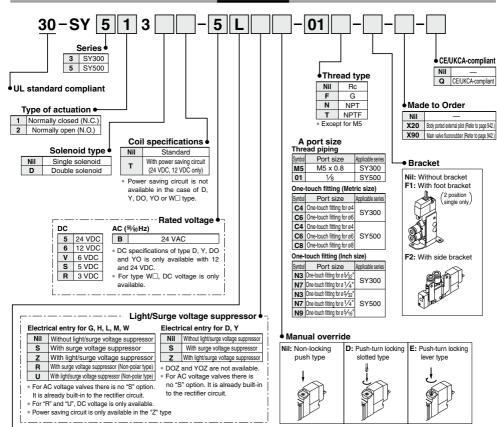


- * For connector cable of M8 connector, refer to page 960.
- * For the M8 connector with a connector cable, only American certification () is available.
- * Refer to page 957 for the lead wire length of L and M plug connectors. Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are

3 Port Solenoid Valve (CA CA UK **Body Ported/Single Unit**

SY300/500 Series

How to Order



Electrical entry

	•				
24, 12, 6, 5, 3 VDC/24 VAC 24, 1.		24, 12 VDC/24 VAC	24, 12, 6, 5, 3 VDC		
Grommet	L plug connector	M plug connector	DIN terminal	M8 connector	M8 connector (IEC60947-5-2 Standard)
G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	(Length 300 mm) MN: Without lead wire	D: With connector DO: Without connector Y: With connector YO: Without connector	W2: With connector cable (Length 500 mm) W3: With connector cable (Length 1000 mm) W4: With connector cable (Length 2000 mm) W5: With connector cable (Length 3000 mm) W6: With connector cable (Length 4000 mm)	WAO: Without connector cable WA1: With connector cable (Length 300 mm) WA2: With connector cable (Length 500 mm) WA3: With connector cable (Length 1000 mm) WA4: With connector cable (Length 2000 mm) WA5: With connector cable (Length 3000 mm) WA6: With connector cable (Length 4000 mm) WA7: With connector cable (Length 4000 mm)

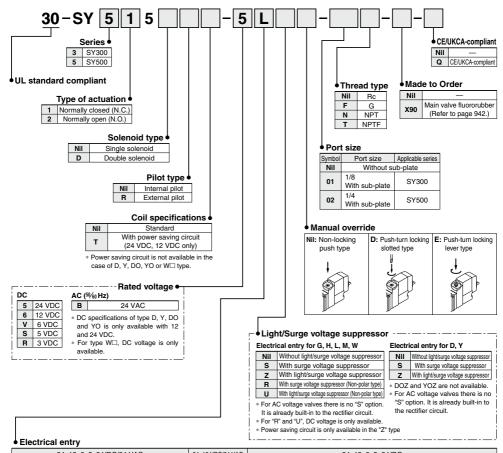
- * LN, MN type: with 2 sockets.
- * For DIN terminal of SY300 series, refer to page 958
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 957.
- * For connector cable of M8 connector, refer to page 960.
- * For the M8 connector with a connector cable, only American certification () is available.
- * Refer to page 957 for the lead wire length of L and M plug connectors

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary.

(Refer to page 795 for details.)

3 Port Solenoid Valve Solenoid Valve Base Mounted/Single Unit

How to Order



24. 12 VDC/24 VAC 24, 12, 6, 5, 3 VDC/24 VAC 24 12 6 5 3 VDC M8 connector M plug DIN terminal Grommet M8 connector connector (IEC60947-5-2 Standard) connector G: Lead wire L: With lead wire M: With lead wire D: With connector WAO: Without connector cable WO: Without connector cable length 300 mm (Length 300 mm) (Length 300 mm) DO: Without connector W1: With connector cable (Length 300 mm) WA1: With connector cable (Length 300 mm) WA2: With connector cable (Length 500 mm) LN: Without lead wire MN: Without lead wire Y: With connector W2: With connector cable (Length 500 mm) H: Lead wire length 600 mm LO: Without connector MO: Without connector YO: Without connector W3: With connector cable (Length 1000 mm) WA3: With connector cable (Length 1000 mm) W4: With connector cable (Length 2000 mm) WA4: With connector cable (Length 2000 mm) W5: With connector cable (Length 3000 mm) WA5: With connector cable (Length 3000 mm) W6: With connector cable (Length 4000 mm) WA6: With connector cable (Length 4000 mm) W7: With connector cable (Length 5000 mm) WA7: With connector cable (Length 5000 mm)

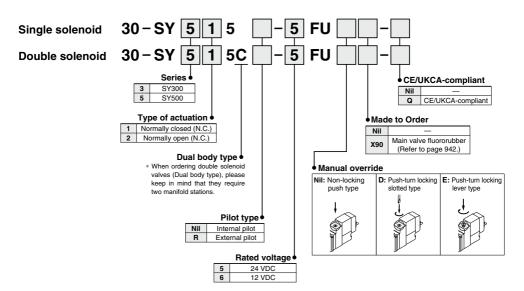
- * LN, MN type: with 2 sockets.
- * For DIN terminal of SY300 series, refer to page 958.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 957.
- * For connector cable of M8 connector, refer to page 960.

Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.

Base Mounted/How to Order Valve

CE UK CA CAL'US

Plug-in: for SS5Y₅³-45□



Plug-in: For SS5Y₅³-45F/45P□/45T/45T1

