




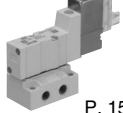

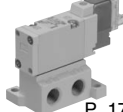
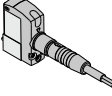
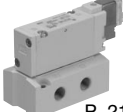


# Rubber Seal 4/5 Port Solenoid Valve

## SYJ3000/5000/7000 Series

### Variations

	Series	Sonic conductance: C [dm <sup>3</sup> /(s·bar)]	Type of actuation	Voltage	Electrical entry	Option	Manual override		
						With light/surge voltage suppressor			
Body ported	<b>SYJ3000</b>  P. 150	Effective area 0.9 mm <sup>2</sup> { 4/2 → 5/3 { (A/B → EA/EB) }		<b>For DC</b> ■ 24 VDC 12 VDC 6 VDC 5 VDC 3 VDC	Grommet 	<b>For DC</b> ■ With surge voltage suppressor			
	<b>SYJ5000</b>  P. 178	0.47 { 4/2 → 5/3 { (A/B → EA/EB) }						L plug connector 	■ With light/surge voltage suppressor
	<b>SYJ7000</b>  P. 210	2.4 { 4/2 → 5/3 { (A/B → EA/EB) }							
Base mounted	<b>SYJ3000</b>  P. 150	0.46 { 4/2 → 5/3 { (A/B → EA/EB) }	3 Position ● Closed center ● Exhaust center ● Pressure center	■ 100 VAC <sup>50/60</sup> Hz 110 VAC <sup>50/60</sup> Hz 200 VAC <sup>50/60</sup> Hz 220 VAC <sup>50/60</sup> Hz	DIN terminal   (SYJ5000, 7000 only)	<b>For AC</b> <sup>Note)</sup> ■ With light/surge voltage suppressor	■ Non-locking push type  ■ Push-turn locking slotted type  ■ Push-turn locking lever type		
	<b>SYJ5000</b>  P. 178	0.83 { 4/2 → 5/3 { (A/B → EA/EB) }						M8 connector 	
	<b>SYJ7000</b>  P. 210	2.9 { 4/2 → 5/3 { (A/B → EA/EB) }							

Note) All AC voltage models have built-in surge voltage suppressor.

<b>SV</b>
<b>SYJ</b>
<b>SZ</b>
<b>VF</b>
<b>VP4</b>
<b>VQ</b> 1/2
<b>VQ</b> 4/5
<b>VQC</b> 1/2
<b>VQC</b> 4/5
<b>VQZ</b>
<b>SQ</b>
<b>VFS</b>
<b>VFR</b>
<b>VQ7</b>

# Rubber Seal 4/5 Port Solenoid Valve

# SYJ3000 Series



## Specifications

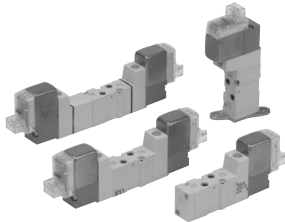
<b>Fluid</b>		Air
<b>Operating pressure range (MPa)</b>	2 position single	0.15 to 0.7
	2 position double	0.1 to 0.7
	3 position	0.2 to 0.7
<b>Ambient and fluid temperature (°C)</b>		-10 to 50 (No freezing)
<b>Response time (ms)</b> <sup>Note 1)</sup> (at 0.5 MPa)	2 position single, double	15 or less
	3 position	30 or less
<b>Max. operating frequency (Hz)</b>	2 position single, double	10
	3 position	3
<b>Manual override (Manual operation)</b>		Non-locking push type, Push-turn locking slotted type, Push-turn locking lever type
<b>Pilot exhaust method</b>		Individual exhaust for the pilot valve, Common exhaust for the pilot and main valve
<b>Lubrication</b>		Not required
<b>Mounting orientation</b>		Unrestricted
<b>Impact/Vibration resistance (m/s<sup>2</sup>)</b> <sup>Note 2)</sup>		150/30
<b>Enclosure</b>		Dust proof (* M8 connector conforms to IP65.)

\* Based on IEC60529

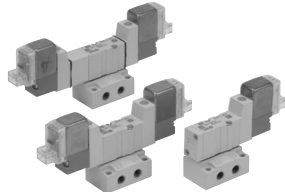
Note 1) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage, without surge voltage suppressor)

Note 2) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Value in the initial state)



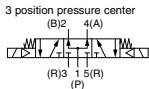
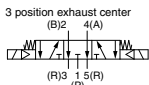
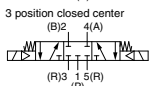
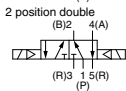
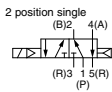
Body ported



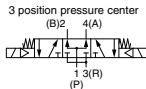
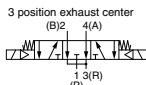
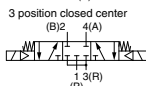
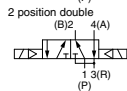
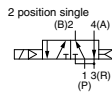
Base mounted

## Symbol

### 5 port



### 4 port (manifold)



## Solenoid Specifications

<b>Electrical entry</b>		Grommet (G), (H), L plug connector (L), M plug connector (M), M8 connector (W)	
<b>Coil rated voltage (V)</b>	DC	24, 12, 6, 5, 3	
	AC <sup>50/60</sup> Hz	100, 110, 200, 220	
<b>Allowable voltage fluctuation</b>		±10% of rated voltage *	
<b>Power consumption (W)</b>	DC	0.35 (With light: 0.4)	
	With power saving circuit	0.1 (With light only) * [Starting 0.4, Holding 0.1]	
<b>Apparent power (VA) *</b>	AC	100 V	0.78 (With light: 0.81)
		110 V	0.86 (With light: 0.89)
		[115 V]	[0.94 (With light: 0.97)]
		200 V	1.18 (With light: 1.22)
		220 V [230 V]	1.30 (With light: 1.34) [1.42 (With light: 1.46)]
<b>Surge voltage suppressor</b>		Diode (Non-polarity type: Varistor)	
<b>Indicator light</b>		LED	

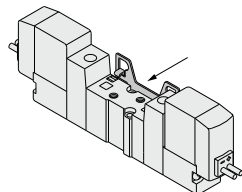
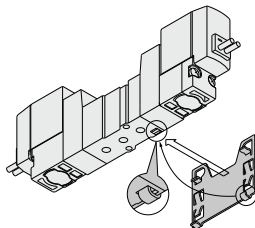
\* In common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

\* For 115 VAC and 230 VAC, the allowable voltage is -15% to +5% of rated voltage.

\* For details refer to page 242.

## Bracket Mounting

- ① Insert the lower hook of the mounting bracket into the groove on the bottom of the valve as shown.
- ② Press the valve and mounting bracket together until the upper hook of the bracket snaps into place in the groove on top of the valve.



**Made to Order**  
(For details, refer to page 239.)

## Flow Rate Characteristics/Weight

Valve model	Type of actuation	Port size		Weight (g) <sup>Note 3, 4)</sup>			Effective area (mm <sup>2</sup> )	Flow rate characteristics <sup>Note 2)</sup>																	
		1, 5, 3 (P, EA, EB)	4, 2 (A, B)	Grommet	L/M plug connector	M8 connector		1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)														
		C	b	Cv	C	b		Cv																	
5 port Base mounted (with sub-plate)	2 position	SYJ314□	Single	M5 x 0.8	M5 x 0.8	62 (36)	63 (37)	67 (41)	—	0.46	0.36	0.12	0.46	0.35	0.12										
		SYJ324□	Double																						
	3 position	SYJ334□	Closed center													82 (56)	84 (58)	92 (66)	—	0.47	0.33	0.12	0.47	0.31	0.12
		SYJ344□	Exhaust center																						
		SYJ354□	Pressure center																						
5 port Body ported	2 position	SYJ312□	Single	M3 x 0.5	M3 x 0.5	56	58	66	0.9	0.36	0.39	0.10	0.59 [0.40]	0.43 [0.33]	0.16 [0.11]										
		SYJ322□	Double																						
	3 position	SYJ332□	Closed center													36	37	41	—	0.58 [0.32]	0.42 [0.33]	0.16 [0.080]	0.46	0.32	0.11
		SYJ342□	Exhaust center																						
		SYJ352□	Pressure center																						
4 Port Base mounted (For manifold base only)	2 position	SYJ313□	Single	1/8	M5 x 0.8	36	37	41	—	—	—	—	—	—	—										
		SYJ323□	Double																						
	3 position	SYJ333□	Closed center													56	58	66	—	—	—	—	—	—	—
		SYJ343□	Exhaust center																						
		SYJ353□	Pressure center																						

Note 1) Dedicated for manifold base. For details, refer to page 160.

Note 2) [ ] denotes the normal position. Exhaust center: 4/2 → 5/3, Pressure center: 1 → 4/2

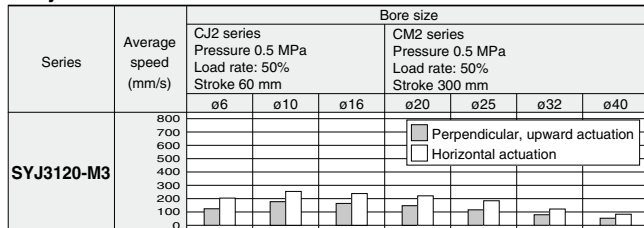
Note 3) ( ): Without sub-plate.

Note 4) For DC voltages. For AC voltages add 3 g to the weight of the single solenoid and 6 g to the weight of the double solenoid and 3 position types.

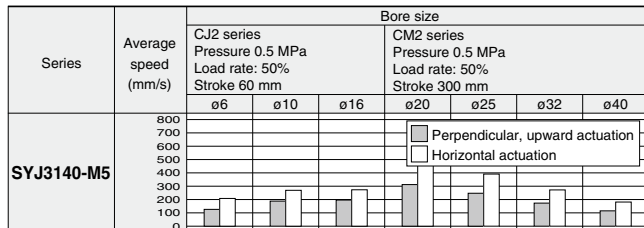
## Cylinder Speed Chart

Use as a guide for selection.  
Please confirm the actual conditions with SMC Sizing Program.

### Body Ported



### Base Mounted



\* Cylinder is in extending. Speed controller is meter-out, which is directly connected with cylinder and its needle is fully opened.

\* Average speed of cylinder is obtained by dividing the full stroke time by the stroke.

\* Load factor: (Load weight x 9.8) / Theoretical force) x 100%

## Conditions

	Body ported	CJ2 series	CM2 series
SYJ3120-M3	Tubing bore x Length	ø4 x 1 m	
	Speed controller	AS1002F-04	
	Silencer	AN120-M5	

	Base mounted	CJ2 series	CM2 series
SYJ3140-M5	Tubing bore x Length	ø6 x 1 m	
	Speed controller	AS2002F-06   AS2002F-06	
	Silencer	AN120-M5	



### Type of actuation

1	2 position single solenoid
2	2 position double solenoid
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

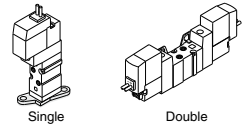
### Light/Surge voltage suppressor

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

### Bracket

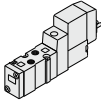
Nil: Without bracket  
F: With bracket



\* Brackets cannot be retrofitted.

- Note) • The double solenoid mounting bracket is supplied unattached.  
• To order the double solenoid bracket for use with a single solenoid valve, order the single solenoid valve without a bracket and order the bracket (VJ3000-13-1) separately.  
(Example) SYJ3120-5M-M3 VJ3000-13-1

5 port



(Type 20 Manifold)

### Rated voltage

DC	CE-compliant	AC (50/60 Hz)	CE-compliant
5	24 VDC ●	1	100 VAC —
6	12 VDC ●	2	200 VAC —
V	6 VDC ●	3	110 VAC [115 VAC] —
S	5 VDC ●	4	220 VAC [230 VAC] —
R	3 VDC ●		

- \* For type W□, DC voltage is only available.
- Note) CE-compliant: For DC only.

### Body ported

SYJ3 1 2 0 □ - 5 M □ □ - M3 - □ - □

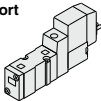
### Base mounted (4 port)

SYJ3 2 3 0 □ - 5 M □ □ - □ (Manifold use only)

### Base mounted (5 port)

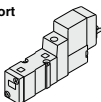
SYJ3 2 4 0 □ - 5 M □ □ - □ - □

4 port



(For manifold type 31, S31, 32, S32)

5 port



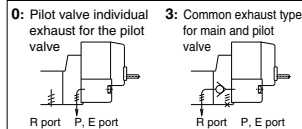
(For sub-plate, manifold type 41, S41, 46, S46)

### Coil specifications

Nil	Standard
T	With power saving circuit (24, 12VDC only)

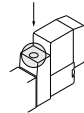
- \* Power saving circuit is not available in the case of W□ type.

### Body option

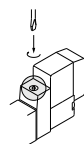


### Manual override

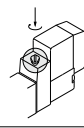
Nil: Non-locking push type



D: Push-turn locking slotted type

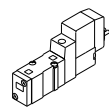


E: Push-turn locking lever type



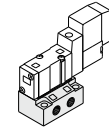
### Port size

Nil: Without sub-plate



(With gasket and screws)

M5: With M5 port sub-plate



### Electrical entry

24, 12, 6, 5, 3 VDC 100, 110, 200, 220 VAC		24, 12, 6, 5, 3 VDC	
Grommet	L plug connector	M plug connector	M8 connector
G: Lead wire length 300 mm	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	WO: Without connector cable
H: Lead wire length 600 mm	LN: Without lead wire	LO: Without connector	MO: Without connector
			W□: With connector cable (Note 1)

- \* LN, MN type: with 2 sockets.
- \* Refer to page 241 for the lead wire length of L and M plug connectors.
- \* Refer to page 244 for the connector assembly with cover for L and M plug connectors.
- \* For connector cable of M8 connector, refer to page 244.
- \* M8 thread conforming to IEC60947-5-2 standard is also available. Refer to page 239 for details.
- Note 1) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 244.

### CE-compliant

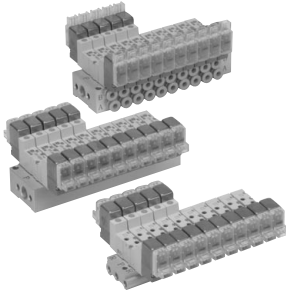
Nil	—
Q	CE-compliant

Note) CE-compliant: For DC only.

Note) When placing an order for body ported solenoid valve as a single unit, mounting screws for manifold and gasket are not attached. Order them separately, if necessary. (For details, refer to page 168.)

## Manifold Standard

## Manifold Specifications



Model		Type 20	Type 31, S31	Type 32, S32	Type 41, S41	Type 46, S46
<b>Manifold type</b>		Single base/B mount				
<b>P (SUP), R (EXH)</b>		Common SUP/Common EXH				Common SUP Individual EXH
<b>Valve stations</b>		2 to 20 stations				
<b>A, B port Porting specifications</b>	<b>Location</b>	Valve	Base			
	<b>Direction</b>	Top	Side			
<b>Port size</b>	<b>P, R port</b>	M5 x 0.8		1/8		P: 1/8 R: M5 x 0.8
	<b>A, B port</b>	M3 x 0.5		M5 x 0.8, C4 (One-touch fitting for ø4)		

## Flow Rate Characteristics

Manifold			Port size		Flow rate characteristics						Effective area (mm <sup>2</sup> )	
					1→4/2 (P→A/B)			4/2→5/3 (A/B→R)				
					1(P), 5/3(R) Port	2(B), 4(A) Port	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]		b
Body ported for internal pilot	Type SSSYJ3-20	SYJ3□□2□	M5 x 0.8	M3 x 0.5	—	—	—	—	—	—	0.9	
	Type SSSYJ3-31 S31	SYJ3□□3□	M5 x 0.8	M3 x 0.5	—	—	—	—	—	—	0.9	
Base mounted for internal pilot	Type SSSYJ3-32-M5	SYJ3□□3□	M5 x 0.8	1/8	M5 x 0.8	0.25	0.19	0.060	0.32	0.25	0.077	—
	Type SSSYJ3-32-C4				C4	0.25	0.18	0.059	0.30	0.27	0.075	—
	Type SSSYJ3-32-M5				M5 x 0.8	0.25	0.26	0.060	0.29	0.15	0.062	—
	Type SSSYJ3-32-C4				C4	0.24	0.21	0.057	0.27	0.18	0.062	—
	Type SSSYJ3-41-M5	SYJ3□□4□	M5 x 0.8	1/8	M5 x 0.8	0.32	0.25	0.081	0.33	0.19	0.079	—
	Type SSSYJ3-41-C4				C4	0.32	0.28	0.079	0.35	0.24	0.084	—
	Type SSSYJ3-41-M5				M5 x 0.8	0.33	0.29	0.082	0.34	0.17	0.081	—
	Type SSSYJ3-41-C4				C4	0.32	0.27	0.079	0.34	0.24	0.084	—
	Type SSSYJ3-46-M5	SYJ3□□4□	M5 x 0.8	1/8	M5 x 0.8	0.20	0.25	0.048	0.10	0.12	0.024	—
	Type SSSYJ3-46-C4				C4	0.21	0.27	0.050	0.21	0.13	0.047	—
	Type SSSYJ3-46-M5				M5 x 0.8	0.20	0.25	0.048	0.19	0.16	0.024	—
	Type SSSYJ3-46-C4				C4	0.22	0.34	0.057	0.10	0.090	0.024	—

Note) Value at manifold base mounted, 2 position single operating

## How to Order Manifold (Example)

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

Example:

- SS5YJ3-20-03 ..... 1 set (Manifold base)
- SS5YJ3-S41-03-C4 ... 1 set (Manifold base)
- \* SYJ3120-5G-M3 ... 2 sets (Valve)
- \* SYJ3140-5LZ ..... 2 sets (Valve)
- \* SYJ3000-21-12A ... 1 set (Blanking plate assembly)
- \* SYJ3000-21-12A ... 1 set (Blanking plate assembly)

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

\* Use manifold specification sheet.

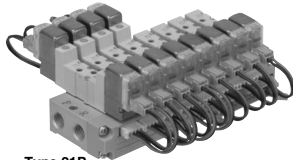


Note) CE-compliant:  
For DC only. [Option]

## Flat Ribbon Cable Manifold

- Multiple valve wiring is simplified through the use of the flat cable connector.
- Clean appearance

In the case of a flat ribbon cable type, each valve is wired on the print board of manifold base to allow the external wiring to be piped all together with 26 pins MIL connector.



Type 21P

## Flat Ribbon Cable Manifold Specifications

Model		Type 21P	Type 32P
Manifold type		Single base/B mount	
P (SUP), R (EXH)		Common SUP, Common EXH	
Valve stations		4 to 12 stations	
A, B port Porting specifications	Location	Valve	Base
	Direction	Top	Side
Port size	P, R port	1/8	
	A, B port	M3 x 0.5	M5 x 0.8, C4 (One-touch fitting for Ø4)
Applicable flat ribbon cable connector		Socket: 26 pins MIL type with strain relief (MIL-C-83503)	
Internal wiring		In common between +COM and -COM (Z type: +COM only)	
Rated voltage <small>Note 2)</small>		24, 12 VDC/100, 110 VAC	

Note 1) The withstand voltage specification for the wiring unit section conforms to JIS C 0704, Grade 1 or its equivalent.  
Note 2) CE-compliant: For DC only.

## Flow Rate Characteristics

Manifold		Port size	Flow rate characteristics						Effective area (mm <sup>2</sup> )		
			1→4/2 (P→A/B)			4/2→5/3 (A/B→R)					
			1(P), 5/3(R) Port	2(B), 4(A) Port	C (dm <sup>3</sup> /(s·bar))	b	Cv	C (dm <sup>3</sup> /(s·bar))		b	Cv
Body ported for internal pilot	Type SSSYJ3-21P	SYJ3□23	1/8	M3 x 0.5	—	—	—	—	—	—	0.9
Base mounted for internal pilot	Type SSSYJ3-32P-M5	SYJ3□33	1/8	M5 x 0.8	0.25	0.19	0.060	0.32	0.25	0.077	—
	Type SSSYJ3-32P-C4				C4	0.25	0.18	0.059	0.3	0.27	0.075

Note) Value at manifold base mounted, 2 position single operating

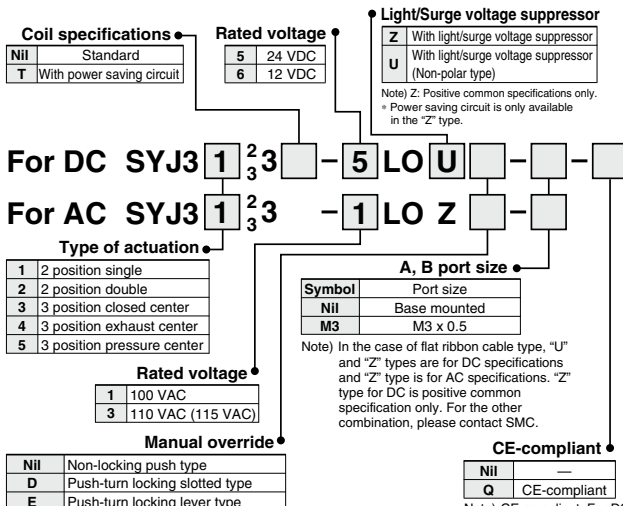
## How to Order Manifold

- SS5YJ3-32P-07-C4 (-Q) ..... 1 pc. (Manifold base) \* SYJ3000-21-13A (-Q) ..... 1 pc. (Blanking plate assembly)
- SYJ3133-5LOU (-Q) ..... 3 pcs. (Valve) \* SY3000-37-28A ..... 3 pcs. (Connector assembly)
- SYJ3233-5LOU (-Q) ..... 3 pcs. (Valve) \* SY3000-37-29A ..... 3 pcs. (Connector assembly)

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

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

## How to Order Valve



## Connector Assembly

### For 12, 24 VDC

Single solenoid	SY3000-37-28A
Double solenoid, 3 position type	SY3000-37-29A

### For 100 VAC

Single solenoid	SY3000-37-46A
Double solenoid, 3 position type	SY3000-37-47A

### For 110 VAC (115 VAC)

Single solenoid	SY3000-37-54A
Double solenoid, 3 position type	SY3000-37-55A

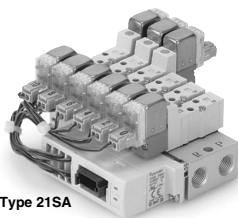
SV  
SYJ  
SZ  
VF  
VP4  
VQ 1/2  
VQ 4/5  
VQC 1/2  
VQC 4/5  
VQZ  
SQ  
VFS  
VFR  
VQ7

# SYJ3000 Series

## EX510 Gateway-type Serial Transmission System

### Manifold for EX510 Serial Wiring Specifications

Model		Type 21SA	Type 32SA
Manifold type		Single base/B mount	
P (SUP), R (EXH)		Common SUP, Common EXH	
Valve stations		4 to 16 stations	
A, B port	Location	Valve	Base
Porting specifications	Direction	Top	Side
Port size	P, R port	1/8	
	A, B port	M3 x 0.5	M5 x 0.8, C4 (One-touch fitting for Ø4)
Rated voltage		24 VDC	



Type 21SA

### Flow Rate Characteristics

Manifold			Port size		Flow rate characteristics						Effective area (mm <sup>2</sup> )
					1→4/2 (P→A/B)			4/2→5/3 (A/B→R)			
Body ported for internal pilot	Type	SYJ3□□□	1(P), 5/3(R) Port	2(B), 4(A) Port	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv	
—	Type SSSYJ3-21SA	SYJ3□□23	1/8	M3 x 0.5	—	—	—	—	—	—	0.9
Base mounted for internal pilot	Type SSSYJ3-32SA-M5	SYJ3□□33	1/8	M5 x 0.8	0.25	0.19	0.060	0.32	0.25	0.077	—
	Type SSSYJ3-32SA-C4			C4	0.25	0.18	0.059	0.3	0.27	0.075	—

Note) Value at manifold base mounted, 2 position single operating

### How to Order Manifold

SS5YJ3-21SA-06..... 1 set (Type 21SA 6 stations manifold part no.)

\* SYJ3123-5LOU-M3..... 4 sets (Single solenoid part no.)

\* SYJ3223-5LOU-M3..... 2 sets (Double solenoid part no.)

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

Add the valve and option part numbers under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations. Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Please specify the mounting solenoid valve when ordering.

# EX510 Gateway-type Serial Transmission System Base Mounted Manifold

# SYJ3000 Series



## How to Order Manifold

SS5YJ3 - 32SA [ ] - 04 - M5 [ ] - [ ]

**SI unit**

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

**Valve stations**

Symbol	Station	Note
04	4 stations	Double wiring <i>Note 1)</i>
:	:	
08	8 stations	Specified layout <i>Note 2)</i> (Up to 16 solenoids)
04	4 stations	
:	:	
16	16 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.)

**CE-compliant**

Nil	—
Q	CE-compliant

**P, R port thread type**

Nil	Rc
F	G
N	NPT
T	NPTF

**A, B port size**

M5	M5 x 0.8
C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

### SI unit part no.

Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+ COM.)	EX510-S001	Best Pneumatics No. 1-1 P.897
N	PNP output (- COM.)	EX510-S101	

Refer to Best Pneumatics No. 1-1 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, <http://www.smcworld.com>

## How to Order Valve

SYJ3 1 33 [ ] - 5LO Z [ ] - [ ]

### Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

### Coil specifications

Nil	Standard
T	With power saving circuit

### Rated voltage: 24 VDC

### Light/Surge voltage suppressor

Z	With light/surge voltage suppressor
U	With light/surge voltage suppressor (non-polar type)

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

### Manual override

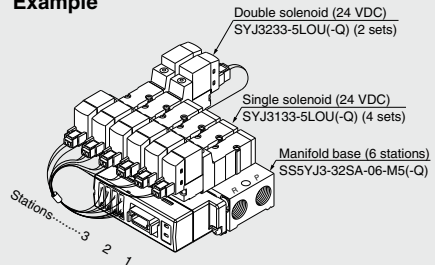
Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

### CE-compliant

Nil	—
Q	CE-compliant

## How to Order Manifold Assembly (Example)

### Example



SS5YJ3-32SA-06-M5 (-Q).....1 set (Type 32SA 6-station manifold part no.)  
 \* SYJ3133-5LOU (-Q).....4 sets (Single solenoid part no.)  
 \* SYJ3233-5LOU (-Q).....2 sets (Double solenoid part no.)

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

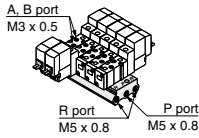
Add the valve and option part numbers under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations. Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Please specify the mounting solenoid valve when ordering.



## Common SUP/Common EXH

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port. Except 41 type

### Type 20 (5 port/Body ported)



#### How to Order

SS5YJ3-20-05-

Number of stations

02	2 stations
:	:
20	20 stations

CE-compliant

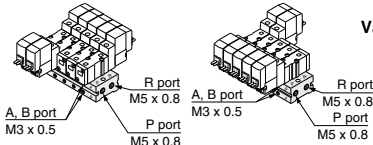
Nil	—
Q	CE-compliant

Applicable solenoid valve  
SYJ3□20-□□□□-M3(-Q)  
SYJ3□23-□□□□-M3(-Q)

Applicable blanking plate assembly  
Refer to page 169.

### Type 31 (4 port/Base mounted)

Type 31 Type S31 (Single solenoid pilot valve is on same side as the A,B port)



#### How to Order

SS5YJ3-31-05-M3-

Valve mounting direction

Nil	Single solenoid pilot valve is on opposite side as the A,B port.
S	Single solenoid pilot valve is on same side as the A,B port.

Stations

02	2 stations
:	:
20	20 stations

CE-compliant

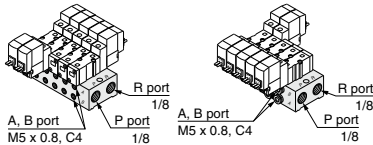
Nil	—
Q	CE-compliant

Applicable solenoid valve  
SYJ3□30-□□□□(-Q)  
SYJ3□33-□□□□(-Q)

Applicable blanking plate assembly  
Refer to page 169.

### Type 32 (4 port/Base mounted)

Type 32 Type S32 (Single solenoid pilot valve is on same side as the A,B port.)



#### How to Order

SS5YJ3-32-05-M5-

Valve mounting direction

Nil	Single solenoid pilot valve is on opposite side as the A,B port.
S	Single solenoid pilot valve is on same side as the A,B port.

Stations

02	2 stations
:	:
20	20 stations

A, B port size

M5	M5 x 0.8
C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

CE-compliant

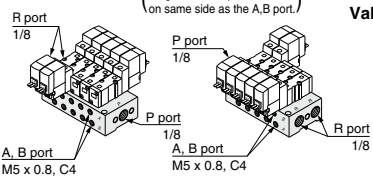
Nil	—
Q	CE-compliant

P, R port thread type

Nil	Rc
F	G
N	NPT
T	NPTF

### Type 41 (5 port/Base mounted)

Type 41 Type S41 (Single solenoid pilot valve is on same side as the A,B port.)



#### How to Order

SS5YJ3-41-05-C4-

Valve mounting direction

Nil	Single solenoid pilot valve is on opposite side as the A,B port.
S	Single solenoid pilot valve is on same side as the A,B port.

Stations

02	2 stations
:	:
20	20 stations

A, B port size

M5	M5 x 0.8
C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

CE-compliant

Nil	—
Q	CE-compliant

P, R port thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Applicable solenoid valve  
SYJ3□40-□□□□(-Q)  
SYJ3□43-□□□□(-Q)

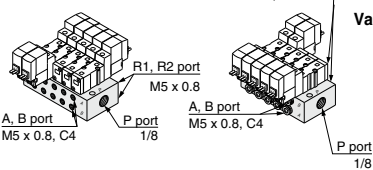
Applicable blanking plate assembly  
Refer to page 169.

## Common SUP/Individual EXH

Note) For more than 10 stations, supply air to both sides of P port.

### Type 46 (5 port/Base mounted)

Type 46 Type S46 (Single solenoid pilot valve is on same side as the A,B port.)



#### How to Order

SS5YJ3-46-05-M5-

Valve mounting direction

Nil	Single solenoid pilot valve is on opposite side as the A,B port.
S	Single solenoid pilot valve is on same side as the A,B port.

Stations

02	2 stations
:	:
20	20 stations

A, B port size

M5	M5 x 0.8
C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

CE-compliant

Nil	—
Q	CE-compliant

P port thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Applicable solenoid valve  
SYJ3□40-□□□□(-Q)  
SYJ3□43-□□□□(-Q)

Applicable blanking plate assembly  
Refer to page 169.



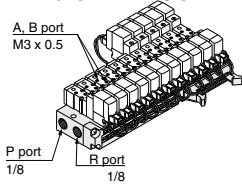
## Flat Ribbon Cable Manifold

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

### Common SUP/Common EXH

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port.

#### Type 21P (5 port/Body ported)



**How to Order**  
**SS5YJ3-21P-07** - [ ] - [ ] - [ ]

**Stations**

04	4 stations
:	:
12	12 stations

**P, R port thread type**

Nil	Rc
00F	G
00N	NPT
00T	NPTF

**CE-compliant**

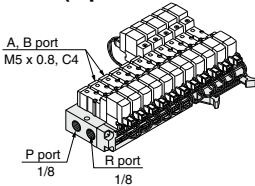
Nil	—
Q	CE-compliant

**Applicable solenoid valve**  
Refer to page 161.

**Applicable connector assembly**  
Refer to page 161.

**Applicable blanking plate assembly**  
Refer to page 169.

#### Type 32P (4 port/Base mounted)



**How to Order**  
**SS5YJ3-32P-07-C4** - [ ] - [ ] - [ ]

**Stations**

04	4 stations
:	:
12	12 stations

**A, B port size**

M5	M5 x 0.8
C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

**P, R port thread type**

Nil	Rc
F	G
N	NPT
T	NPTF

**CE-compliant**

Nil	—
Q	CE-compliant

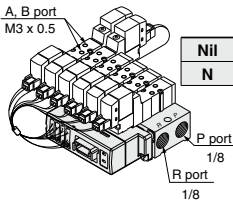
**Applicable solenoid valve**  
Refer to page 161.

**Applicable connector assembly**  
Refer to page 161.

**Applicable blanking plate assembly**  
Refer to page 169.

### EX510 Gateway-type Serial Transmission System

#### Type 21SA (5 port/Body ported)



**How to Order**  
**SS5YJ3-21SA-04** - [ ] - [ ] - [ ]

**SI unit**

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

**Valve stations**

Symbol	Station	Note
04	4 stations	Double wiring <sup>Note 1)</sup>
:	:	
08	8 stations	
04	4 stations	Specified layout <sup>Note 2)</sup> (Up to 16 solenoids)
:	:	
16	16 stations	

**P, R port thread type**

Nil	Rc
00F	G
00N	NPT
00T	NPTF

**CE-compliant**

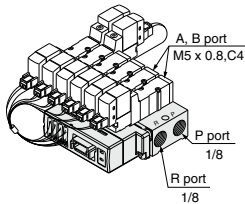
Nil	—
Q	CE-compliant

**Applicable solenoid valve**  
Refer to page 164.

**Applicable blanking plate assembly**  
Refer to page 169.

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.)

#### Type 32SA (4 port/Base mounted)



**How to Order**  
**SS5YJ3-32SA-04-M5** - [ ] - [ ] - [ ]

**SI unit**

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

**Valve stations**

Symbol	Station	Note
04	4 stations	Double wiring <sup>Note 1)</sup>
:	:	
08	8 stations	
04	4 stations	Specified layout <sup>Note 2)</sup> (Up to 16 solenoids)
:	:	
16	16 stations	

**P, R port thread type**

Nil	Rc
F	G
N	NPT
T	NPTF

**CE-compliant**

Nil	—
Q	CE-compliant

**A, B port size**

M5	M5 x 0.8
C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

**Applicable solenoid valve**  
Refer to page 165.

**Applicable blanking plate assembly**  
Refer to page 169.

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.)

# Rubber Seal 5 Port Solenoid Valve

# SYJ5000 Series



## Specifications

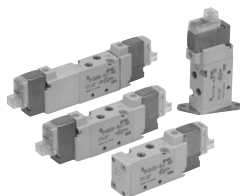
<b>Fluid</b>	Air	
<b>Operating pressure range (MPa)</b>	2 position single	0.15 to 0.7
	2 position double	0.1 to 0.7
	3 position	0.15 to 0.7
<b>Ambient and fluid temperature (°C)</b>	-10 to 50 (No freezing.)	
<b>Response time (ms) <sup>Note 1)</sup></b> (at 0.5 MPa)	2 position single, double	25 or less
	3 position	40 or less
<b>Max. operating frequency (Hz)</b>	2 position single, double	5
	3 position	3
<b>Manual override (Manual operation)</b>	Non-locking push type, Push-turn locking slotted type, Push-turn locking lever type	
<b>Pilot exhaust method</b>	Individual exhaust for the pilot valve, Common exhaust for the pilot and main valve	
<b>Lubrication</b>	Not required	
<b>Mounting orientation</b>	Unrestricted	
<b>Impact/Vibration resistance (m/s<sup>2</sup>) <sup>Note 2)</sup></b>	150/30	
<b>Enclosure</b>	Dust proof (* DIN terminal, M8 connector conforms to IP65.)	

\* Based on IEC60529

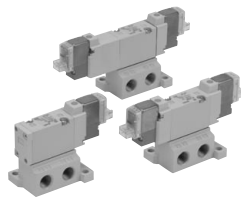
Note 1) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage, without surge voltage suppressor)

Note 2) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Value in the initial state)



Body ported

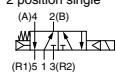


Base mounted

### Symbol

#### Body ported

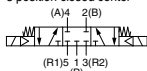
2 position single



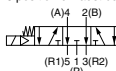
2 position double



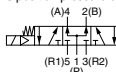
3 position closed center



3 position exhaust center

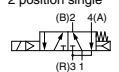


3 position pressure center

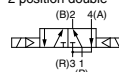


Base mounted (with sub-plate)

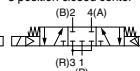
2 position single



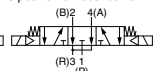
2 position double



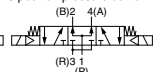
3 position closed center



3 position exhaust center



3 position pressure center



## Solenoid Specifications

<b>Electrical entry</b>	Grommet (G), (H), L plug connector (L)		
	M plug connector: (M), DIN terminal (D, Y) M8 connector (W)		
<b>Coil rated voltage (V)</b>	DC	G, H, L, M, W      D, Y	
	AC 50/60 Hz	24, 12, 6, 5, 3      24, 12	
<b>Allowable voltage fluctuation</b>	±10% of rated voltage *		
<b>Power consumption (W)</b>	DC	Standard	0.35 (With light: 0.4 (DIN terminal with light: 0.45))
		With power saving circuit	0.1 (With light only) * [Starting 0.4, Holding 0.1]
<b>Apparent power (VA) *</b>	AC	100 V	0.78 (With light: 0.81)      0.78 (With light: 0.87)
		110 V	0.86 (With light: 0.89)      0.86 (With light: 0.97)
		[115 V]	[0.94 (With light: 0.97)]      [0.94 (With light: 1.07)]
		200 V	1.18 (With light: 1.22)      1.15 (With light: 1.30)
		[230 V]	[1.30 (With light: 1.34)]      [1.27 (With light: 1.46)] [1.42 (With light: 1.46)]      [1.39 (With light: 1.60)]
<b>Surge voltage suppressor</b>		Diode (DIN terminal, Varistor when non-polar types)	
<b>Indicator light</b>		LED (Neon light when AC with DIN terminal)	

\* In common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.

\* For 115 VAC and 230 VAC, the allowable voltage is -15% to +5% of rated voltage.

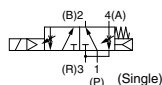
\* For details refer to page 242.

## Built-in Speed Controller

### SYJ5□5□

- Built-in exhaust flow controls enable simple cylinder speed adjustments.
- When mounted on the manifold, the common exhaust discharges the pilot and main valve exhaust through a common EXH port to enable simple exhausting.

### Symbol

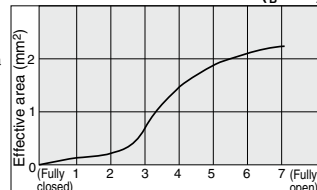


### How to order valve with built-in speed controller

### SYJ5□5□-□-□-□-□-□

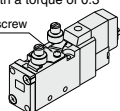
- Type of actuation
- Body Option
- Rated voltage
- Lead wire
- CE-compliant
- Port size
- Manual override
- Light/surge voltage suppressor

## Throttle Valve Characteristics (A → R)



- When using SYJ5□53 model the speed controller must be opened more than 1 complete rotation from fully closed in order to function properly.
- Adjust the speed controller with a torque of 0.3 N·m or less.

Note) Do not loosen plate fixing screw.



Made to Order

(For details, refer to pages 238 and 239.)

## Flow Rate Characteristics/Weight

Valve model	Type of actuation	Port size		Flow rate characteristics <small>(Note 1)</small>						Weight (g) <small>(Note 2, 3)</small>					
		1, 5, 3 (P, EA, EB)	4, 2 (A, B)	1R4/2 (PRA/B)			4/2R5/3 (A/BREA/EB)			Grommet	L/M plug connector	DIN terminal	M8 connector		
		C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv								
Body ported	SYJ5□20-□-M5	2 position	Single	M5 x 0.8	M5 x 0.8	0.47	0.41	0.13	0.47	0.41	0.13	46	47	68	51
			Double			0.49	0.44	0.13	0.44	0.40	0.12	64	66	108	74
		3 position	Closed center			0.46	0.37	0.12	0.47 [0.39]	0.43 [0.35]	0.13 [0.10]	75	77	119	85
			Exhaust center Pressure center			0.49 [0.39]	0.51 [0.38]	0.14 [0.10]	0.45	0.42	0.12				
	SYJ5□20-□-C4	2 position	Single	M5 x 0.8	C4 (One-touch fitting for ø4)	0.69	0.39	0.18	0.44	0.39	0.12	53	54	75	58
			Double			0.69	0.40	0.19	0.43	0.40	0.12	71	73	115	81
		3 position	Closed center			0.56	0.40	0.15	0.41 [0.41]	0.37 [0.37]	0.10 [0.11]	82	84	126	72
			Exhaust center Pressure center			0.57 [0.41]	0.4 [0.37]	0.15 [0.10]	0.41	0.37	0.10				
	SYJ5□20-□-C6	2 position	Single	M5 x 0.8	C6 (One-touch fitting for ø6)	0.70	0.36	0.19	0.47	0.40	0.12	53	54	75	58
			Double			0.72	0.37	0.19	0.44	0.34	0.12	71	73	115	81
		3 position	Closed center			0.67	0.54	0.19	0.41 [0.41]	0.38 [0.38]	0.11 [0.11]	82	84	126	92
			Exhaust center Pressure center			0.82 [0.44]	0.41 [0.39]	0.23 [0.12]	0.41	0.36	0.11				
Base mounted	SYJ5□40-□-01	2 position	Single	1/8	1/8	0.79	0.21	0.19	0.83	0.32	0.21	80 (49)	81 (47)	102 (68)	51
			Double			0.80	0.28	0.18	0.86	0.34	0.20	98 (64)	100 (66)	142 (108)	74
		3 position	Closed center			0.71	0.26	0.18	1.1 [0.60]	0.24 [0.44]	0.26 [0.18]	109 (75)	111 (77)	153 (119)	85
			Exhaust center Pressure center			0.99 [0.47]	0.29 [0.38]	0.24 [0.12]	0.72	0.38	0.18				

Note 1 [ ]: denotes the normal position. Exhaust center: 4/2 → 5/3, Pressure center: 1 → 4/2

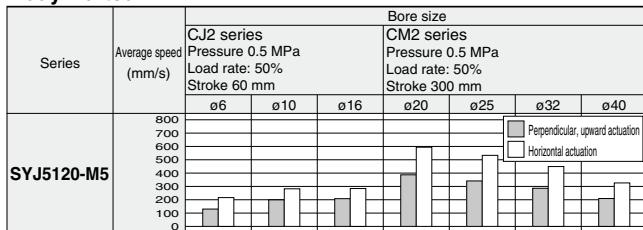
Note 2 ( ): Without sub-plate.

Note 3 For DC voltages. For AC voltages add 3 g to the weight of the single solenoid and 6 g to the weight of the double solenoid and 3 position types.

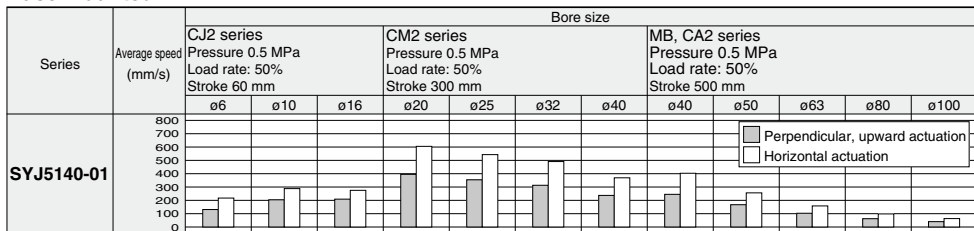
## Cylinder Speed Chart

Use as a guide for selection.  
Please confirm the actual conditions with SMC  
Sizing Program.

### Body Ported



### Base Mounted



\* Cylinder is in extending. Speed controller is meter-out, which is directly connected with cylinder and its needle is fully opened.

\* Average speed of cylinder is obtained by dividing the full stroke time by the stroke.

\* Load factor: ( Load weight x 9.8 / Theoretical force ) x 100%

## Conditions

	Body ported	CJ2 series	CM2 series	MB, CA2 series
SYJ5120-M5	Tubing bore x Length	ø4 x 1 m	ø6 x 1 m	ø8 x 1 m
	Speed controller	AS1301F-04	AS3301F-06	AS3301F-08
	Silencer	AN120-M5	AN110-01	

	Base mounted	CJ2 series	CM2 series	MB, CA2 series
SYJ5140-01	Tubing bore x Length	ø4 x 1 m	ø6 x 1 m	
	Speed controller	AS2301F-04	AS3001F-06	
	Silencer	AN101-01	AN101-01	

## How to Order

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

[Option]

### Type of actuation

1	2 position single solenoid
2	2 position double solenoid
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

### Light/Surge voltage suppressor

#### Electrical entry for G, H, L, M, W

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)
U	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 type "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
S	With surge voltage suppressor (Non-polar type)
Z	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.

### Rated voltage

DC	AC (50/60 Hz)
5	1 100 VAC
6	2 200 VAC
V	3 110 VAC [115 VAC]
S	4 220 VAC [230 VAC]
R	3 VDC

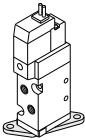
\* DC specifications of type D, Y, DO and YO are only available with 12 and 24 VDC.  
\* For type W□, DC voltage is only available.  
Note) AC-type models that are CE-compliant have DIN terminals only.

### A, B port size

M5	M5 x 0.8
C4	One-touch fitting for ø4
C6	One-touch fitting for ø6
N3	One-touch fitting for ø5/32"
N7	One-touch fitting for ø1/4"

### Bracket

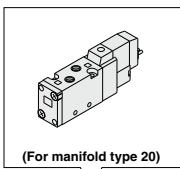
Nil: Without bracket  
F: With bracket



Note) The mounting bracket is supplied unattached.  
\* 2 position single type only.

### Made to Order

Nil	—
X20	Body Ported External Pilot (Refer to page 238.)

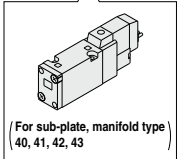


**Body ported**

SYJ5 1 2 0 [ ] - 5 L [ ] [ ] [ ] - M5 [ ] [ ] [ ] [ ]

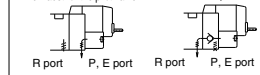
**Base mounted**

SYJ5 2 4 0 [ ] - 5 L [ ] [ ] [ ] - [ ] [ ] [ ] [ ]



### Body option

0: Pilot valve individual exhaust for the pilot valve  
3: Common exhaust type for main and pilot valve



### Coil specifications

Nil	Standard
T	With power saving circuit <24, 12 VDC only>

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

### Manual override

Nil: Non-locking push type



### Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

### CE-compliant

Nil	—
Q	CE-compliant

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

### 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		M plug connector		DIN terminal		M8 connector	
<b>G:</b> Lead wire length 300 mm	<b>L:</b> With lead wire (Length 300 mm)	<b>M:</b> With lead wire (Length 300 mm)	<b>MN:</b> Without lead wire	<b>D, Y:</b> With connector	<b>WO:</b> Without connector cable		
<b>H:</b> Lead wire length 600 mm	<b>LN:</b> Without lead wire	<b>LO:</b> Without connector	<b>MO:</b> Without connector	<b>DO, YO:</b> Without connector	<b>W□:</b> With connector cable (Note 1)		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

D: Push-turn locking slotted type



E: Push-turn locking lever type



### Port size

Nil: Without sub-plate



(With gasket and screws)

01: 1/8 With sub-plate



Note) When placing an order for body ported solenoid valve as a single unit, mounting screws for manifold and gasket are not attached. Order them separately, if necessary. (For details, refer to page 196.)

\* LN, MN type: with 2 sockets.  
\* Refer to page 241 for the lead wire length of L and M plug connectors.  
\* Refer to page 244 for the connector assembly with cover for L and M plug connectors.  
\* DIN terminal type "Y" which conforms to EN-175301-803C (former DIN4365C) is also available. For details, refer to page 243.  
\* For connector cable of M8 connector, refer to page 244.  
\* M8 thread conforming to IEC60947-5-2 standard is also available. Refer to page 239 for details.

Note 1) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 244.

# EX510 Gateway-type Serial Transmission System Body Ported Manifold

# SYJ5000 Series



## How to Order Manifold

SS5YJ5 - 20SA [ ] - 03 - [ ] - [ ]

SI unit

<b>NII</b>	NPN output (+ COM.)
<b>N</b>	PNP output (- COM.)

Valve stations

Symbol	Station	Note
<b>03</b>	3 stations	Double wiring <sup>Note 1)</sup>
⋮	⋮	
<b>08</b>	8 stations	
<b>03</b>	3 stations	Specified layout <sup>Note 2)</sup> (Up to 16 solenoids)
⋮	⋮	
<b>16</b>	16 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.)

CE-compliant

<b>NII</b>	—
<b>Q</b>	CE-compliant

P, R port thread type

<b>NII</b>	Rc
<b>00F</b>	G
<b>00N</b>	NPT
<b>00T</b>	NPTF

SI unit part no.

Symbol	SI unit specifications	SI unit part no.	Page
<b>NII</b>	NPN output (+ COM.)	EX510-S001	Best Pneumatics No. 1-1 P.897
<b>N</b>	PNP output (- COM.)	EX510-S101	

Refer to Best Pneumatics No. 1-1 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, <http://www.smcworld.com>

## How to Order Valve

SYJ5 [ ] 1 23 [ ] - 5LO [ ] - M5 - [ ]

Type of actuation

<b>1</b>	2 position single
<b>2</b>	2 position double
<b>3</b>	3 position closed center
<b>4</b>	3 position exhaust center
<b>5</b>	3 position pressure center

Coil specifications

<b>NII</b>	Standard
<b>T</b>	With power saving circuit

Rated voltage: 24 VDC

Light/Surge voltage suppressor

<b>Z</b>	With light/surge voltage suppressor
<b>U</b>	With light/surge voltage suppressor (non-polar type)

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

Manual override

<b>NII</b>	Non-locking push type
<b>D</b>	Push-turn locking slotted type
<b>E</b>	Push-turn locking lever type

A, B port size

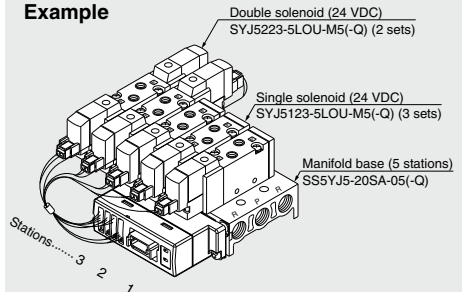
<b>M5</b>	M5 x 0.8
<b>C4</b>	One-touch fitting for ø4
<b>C6</b>	One-touch fitting for ø6
<b>N3</b>	One-touch fitting for ø5/32"
<b>N7</b>	One-touch fitting for ø1/4"

CE-compliant

<b>NII</b>	—
<b>Q</b>	CE-compliant

## How to Order Manifold Assembly (Example)

Example



SS5YJ5-20SA-05 (-Q) ..... 1 set (Type 20SA 5-station manifold part no.)  
 \* SYJ5123-5LOU-M5 (-Q) ..... 3 sets (Single solenoid part no.)  
 \* SYJ5223-5LOU-M5 (-Q) ..... 2 sets (Double solenoid part no.)

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

Add the valve and option part numbers under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations. Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Please specify the mounting solenoid valve when ordering.

# EX510 Gateway-type Serial Transmission System Base Mounted Manifold

# SYJ5000 Series



## How to Order Manifold

**SS5YJ5-41SA** - **03** - **M5** - **[ ]** - **[ ]**  
**SS5YJ5-42SA** - **03** - **01** - **[ ]** - **[ ]**  
**SS5YJ5-43SA** - **03** - **C4** - **[ ]** - **[ ]**

**• A, B port size**  

M5	M5 x 0.8
----	----------

**• A, B port size**  

01	1/8
----	-----

**• CE-compliant**  

Nil	—
Q	CE-compliant

**• P, R, A, B port thread type**  

Nil	Rc
F	G
N	NPT
T	NPTF

**• SI unit**  

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

**Valve stations**  

Symbol	Station	Note
03	3 stations	Double wiring <sup>Note 1)</sup>
⋮	⋮	
08	8 stations	Specified layout <sup>Note 2)</sup> (Up to 16 solenoids)
03	3 stations	
⋮	⋮	
16	16 stations	

**• A, B port size**  

C4	One-touch fitting for ø4
N3	One-touch fitting for ø5/32"

**SI unit part no.**  

Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+ COM.)	EX510-S001	Best Pneumatics No. 1-1 P.897
N	PNP output (- COM.)	EX510-S101	

Refer to Best Pneumatics No. 1-1 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, <http://www.smcworld.com>

SV
SYJ
SZ
VF
VP4
VQ 1/2
VQ 4/5
VQC 1/2
VQC 4/5
VQZ
SQ
VFS
VFR
VQ7

## How to Order Valve

**SYJ5** **1** **43** - **5LO** **Z** - **[ ]** - **[ ]**

**• Type of actuation**  

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

**Coil specifications**  

Nil	Standard
T	With power saving circuit

**Rated voltage: 24 VDC**  
**Light/Surge voltage suppressor**  

Z	With light/surge voltage suppressor
U	With light/surge voltage suppressor (non-polar type)

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

**Manual override**  

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

**CE-compliant**  

Nil	—
Q	CE-compliant

## How to Order Manifold Assembly (Example)

**Example**

**SS5YJ5-41SA-05-M5 (-Q) ... 1 set (Type 41SA 5-station manifold part no.)**  
**\* SYJ5143-5LOU (-Q) ... 3 sets (Single solenoid part no.)**  
**\* SYJ5243-5LOU (-Q) ... 2 sets (Double solenoid part no.)**

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

Add the valve and option part numbers under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations. Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Please specify the mounting solenoid valve when ordering.

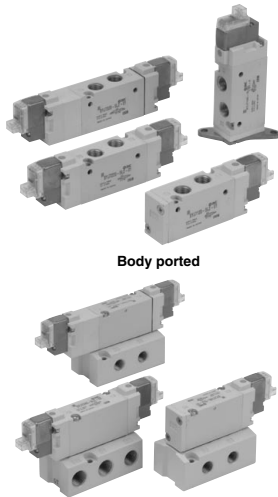
# Rubber Seal 5 Port Solenoid Valve

# SYJ7000 Series



## Specifications

<b>Fluid</b>		Air
<b>Operating pressure range (MPa)</b>	2 position single	0.15 to 0.7
	2 position double	0.1 to 0.7
	3 position	0.15 to 0.7
<b>Ambient and fluid temperature (°C)</b>		-10 to 50 (No freezing)
<b>Response time (ms)</b> <sup>Note 1)</sup> (at 0.5 MPa)	2 position single, double	30 or less
	3 position	60 or less
<b>Max. operating frequency (Hz)</b>	2 position single, double	5
	3 position	3
<b>Manual override (Manual operation)</b>		Non-locking push type, Push-turn locking slotted type, Push-turn locking lever type
<b>Pilot exhaust method</b>		Individual exhaust for the pilot valve, Common exhaust for the pilot and main valve
<b>Lubrication</b>		Not required
<b>Mounting orientation</b>		Unrestricted
<b>Impact/Vibration resistance (m/s<sup>2</sup>)</b> <sup>Note 2)</sup>		150/30
<b>Enclosure</b>		Dust proof (* M8 connector conforms to IP65.)



Body ported

Base mounted

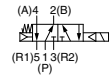
\* Based on IEC60529  
 Note 1) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage, without surge suppressor)  
 Note 2) Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Value in the initial state)  
 Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Value in the initial state)

## Solenoid Specifications

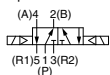
### Symbol

#### Body ported

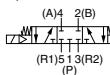
2 position single



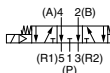
2 position double



3 position closed center



3 position exhaust center

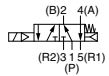


3 position pressure center

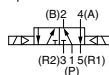


#### Base mounted

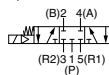
2 position single solenoid



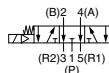
2 position double solenoid



3 position closed center



3 position exhaust center



3 position pressure center



<b>Electrical entry</b>	Grommet (G), (H) L plug connector (L) M plug connector (M) DIN terminal (D), (Y) M8 connector (W)		
	G, H, L, M, W		D, Y
<b>Coil rated voltage (V)</b>	DC	24, 12, 6, 5, 3	
	AC 50/60 Hz	100, 110, 200, 220	
<b>Allowable voltage fluctuation</b>		±10% of rated voltage *	
<b>Power consumption (W)</b>	DC	Standard	0.35 (With light: 0.4 (DIN terminal with light: 0.45))
		With power saving circuit	0.1 (With light only) * [Starting 0.4, Holding 0.1]
<b>Apparent power (VA) *</b>	AC	100 V	0.78 (With light: 0.81) 0.78 (With light: 0.87)
		110 V	0.86 (With light: 0.89) 0.86 (With light: 0.97)
		[115 V]	[0.94 (With light: 0.97)] [0.94 (With light: 1.07)]
		200 V	1.18 (With light: 1.22) 1.15 (With light: 1.30)
		220 V [230 V]	1.30 (With light: 1.34) 1.27 (With light: 1.46) [1.42 (With light: 1.46)] [1.39 (With light: 1.60)]
<b>Surge voltage suppressor</b>		Diode (DIN terminal, Varistor when non-polar types)	
<b>Indicator light</b>		LED (Neon light when AC with DIN terminal)	

\* In common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC.  
 \* For 115 VAC and 230 VAC, the allowable voltage is -15% to +5% of rated voltage.  
 \* For details refer to page 242.



**Made to Order**

(For details, refer to pages 238 and 239.)



## Flow Rate Characteristics/Weight

Valve model	Type of actuation	Port size		Flow rate characteristics <small>Note 1)</small>						Weight (g) <small>Note 2, 3)</small>							
		1, 5, 3 (P,EA,EB)	4, 2 (A,B)	1P4/2 (PPA/B)			4/2P5/3 (A/BPEA/EB)			Grommet	L/M plug connector	DIN terminal	M8 connector				
				C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv								
Body ported	SYJ7□20-□-01	2 position	Single	1/8	1/8	2.2	0.36	0.58	2.4	0.34	0.63	85	86	107	90		
			Double			1.8	0.37	0.45	2.0	0.35	0.49	98	100	142	108		
		3 position	Closed center			1.2	0.50	0.34	3.0 [1.3]	0.35[0.52]	0.73 [0.39]	108	110	152	118		
	Exhaust center		3.0 [0.83]			0.37 [0.50]	0.78 [0.25]	1.8	0.37	0.45							
	SYJ7□20-□-C6	2 position	Single			1/8	C6 (One-touch fitting for ø6)	1.6	0.33	0.4	2.2	0.32	0.53	96	97	98	101
			Double					1.4	0.27	0.35	1.9	0.33	0.49	109	111	153	119
		3 position	Closed center	1.1	0.37			0.27	2.5 [1.3]	0.32[0.54]	0.61 [0.38]	119	121	163	129		
	Exhaust center		1.8 [0.78]	0.36 [0.40]	0.45 [0.22]			1.6	0.30	0.39							
	SYJ7□20-□-C8	2 position	Single	1/8	C8 (One-touch fitting for ø6)			2.0	0.39	0.52	2.3	0.34	0.61	96	97	98	101
Double			1.7					0.35	0.42	2.0	0.29	0.49	109	111	153	119	
3 position		Closed center	1.2			0.38	0.33	2.6 [1.3]	0.35[0.49]	0.67 [0.38]	119	121	163	129			
	Exhaust center	1.9 [0.86]	0.57 [0.46]			0.59 [0.25]	1.7	0.39	0.42								
Base mounted	SYJ7□40-□-01	2 position	Single			1/8	1/8	2.3	0.45	0.57	2.8	0.37	0.71	165 (85)	166 (86)	187 (107)	170 (90)
			Double					1.9	0.36	0.48	2.1	0.46	0.57	178 (98)	180 (100)	222 (142)	188 (108)
		3 position	Closed center	1.2	0.48			0.35	3.4 [1.3]	0.36[0.57]	0.86 [0.41]	188 (108)	190 (110)	232 (152)	198 (118)		
	Exhaust center		3.3 [0.85]	0.43 [0.54]	0.78 [0.25]			2.1	0.45	0.56							
	SYJ7□40-□-02	2 position	Single	1/4	1/4			2.3	0.41	0.61	2.9	0.35	0.74	165 (85)	166 (86)	187 (107)	170 (90)
			Double					1.9	0.46	0.50	2.2	0.44	0.60	178 (98)	180 (100)	222 (142)	188 (108)
		3 position	Closed center			1.3	0.45	0.35	3.7 [1.4]	0.27[0.56]	0.87 [0.43]	188 (108)	190 (110)	232 (152)	198 (118)		
	Exhaust center		3.6 [0.83]			0.23 [0.55]	0.84 [0.25]	2.1	0.47	0.58							

Note 1) [ ]: denotes the normal position. Exhaust center: 4/2 → 5/3, Pressure center: 1 → 4/2

Note 2) ( ): Without sub-plate.

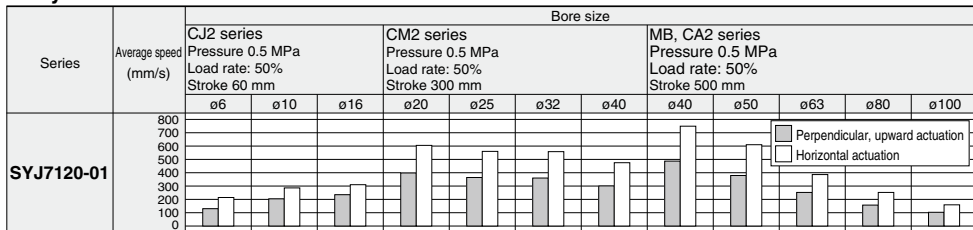
Note 3) For DC voltages. For AC voltages add 3 g to the weight of the single solenoid and 6 g to the weight of the double solenoid and 3 position types.

## Cylinder Speed Chart

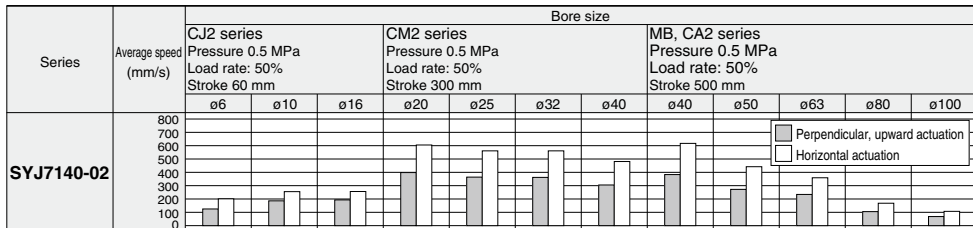
Use as a guide for selection.

Please confirm the actual conditions with SMC Sizing Program.

### Body Ported



### Base Mounted



\* Cylinder is in extending. Speed controller is meter-out, which is directly connected with cylinder and its needle is fully opened.

\* Average speed of cylinder is obtained by dividing the full stroke time by the stroke.

\* Load factor: ( (Load weight x 9.8) / Theoretical force ) x 100%

## Conditions

	Body ported	CJ2 series	CM2 series	MB, CA2 series
SYJ7120-01	Tubing bore x Length	ø6 x 1 m		ø12 x 1 m
	Speed controller	AS2302F-06	AS3302F-06	AS4002F-12
	Silencer	AN110-01	AN20-02	

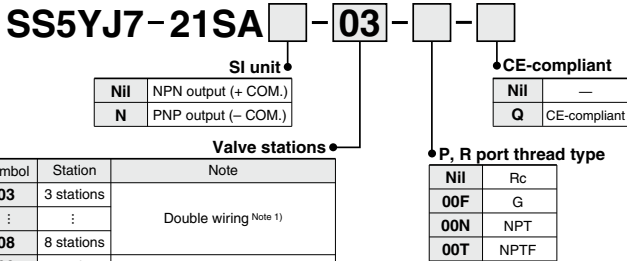
	Base mounted	CJ2 series	CM2 series	MB, CA2 series
SYJ7140-02	Tubing bore x Length	ø6 x 1 m		
	Speed controller	AS1302F-06	AS3002F-06	
	Silencer	AN110-01	AN20-02	AN3301F-06

# EX510 Gateway-type Serial Transmission System Body Ported Manifold

# SYJ7000 Series



## How to Order Manifold



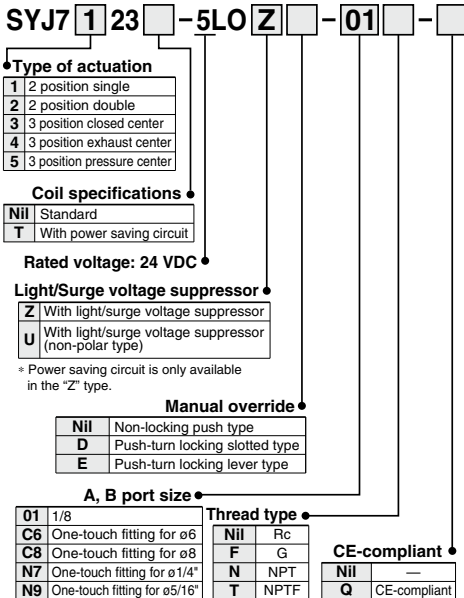
The number of the blanking plate assembly is also included.  
 Note 1) Double wiring: Use of a single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.  
 Note 2) Specified layout: Indicate wiring specifications on the manifold specification sheet. (Note that double and 3 position valves cannot be used where single solenoid wiring has been specified.)

### SI unit part no.

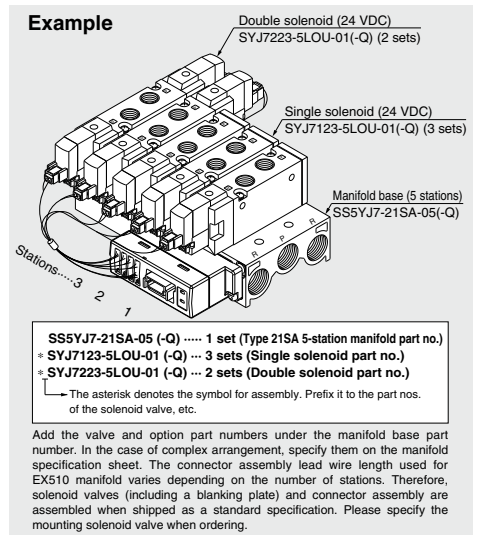
Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+ COM.)	EX510-S001	Best Pneumatics No. 1-1 P.897
N	PNP output (- COM.)	EX510-S101	

Refer to Best Pneumatics No. 1-1 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, <http://www.smcworld.com>

## How to Order Valve



## How to Order Manifold Assembly (Example)



# EX510 Gateway-type Serial Transmission System Base Mounted Manifold

# SYJ7000 Series



## How to Order Manifold

SS5YJ7-41SA [ ] - 03 - 01 [ ] - [ ]

### SI unit

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

### CE-compliant

Nil	—
Q	CE-compliant

### P, R, A, B port thread type

Nil	Rc
F	G
N	NPT
T	NPTF

### A, B port size

01	1/8
----	-----

### Valve stations

Symbol	Station	Note
03	3 stations	Double wiring (Note 1)
:	:	
08	8 stations	Specified layout (Note 2) (Up to 16 solenoids)
03	3 stations	
:	:	
16	16 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.)

### SI unit part no.

Symbol	SI unit specifications	SI unit part no.	Page
Nil	NPN output (+ COM.)	EX510-S001	Best Pneumatics No. 1-1 P.897
N	PNP output (- COM.)	EX510-S101	

Refer to Best Pneumatics No. 1-1 and the Operation Manual for the details of EX510 Gateway-type Serial Transmission System. Please download the Operation Manual via our website, <http://www.smcworld.com>

## How to Order Valve

SYJ7 [ ] 1 43 [ ] - 5LO [ ] Z [ ] - [ ]

### Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

### Coil specifications

Nil	Standard
T	With power saving circuit

### Rated voltage: 24 VDC

### Light/Surge voltage suppressor

Z	With light/surge voltage suppressor
U	With light/surge voltage suppressor (non-polar type)

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

### Manual override

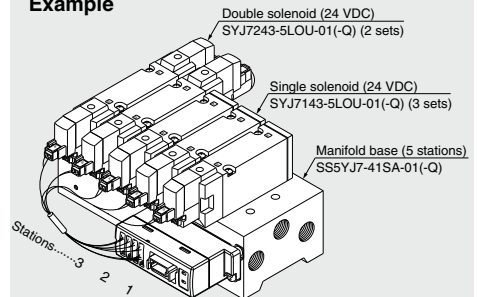
Nil	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

### CE-compliant

Nil	—
Q	CE-compliant

## How to Order Manifold Assembly (Example)

### Example



SS5YJ7-41SA-05 (-Q) ..... 1 set (Type 41SA 5-station manifold part no.)  
 \* SYJ7143-5LOU-01 (-Q) ... 3 sets (5-station manifold part no.)  
 \* SYJ7243-5LOU-01 (-Q) ... 2 sets (Double solenoid part no.)  
 The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Add the valve and option part numbers under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet. The connector assembly lead wire length used for EX510 manifold varies depending on the number of stations. Therefore, solenoid valves (including a blanking plate) and connector assembly are assembled when shipped as a standard specification. Please specify the mounting solenoid valve when ordering.

# SYJ7000 Series

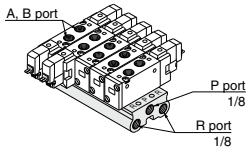
## Manifold Standard

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



### Common SUP/Common EXH

#### Type 20 (5 port/Body ported)



#### How to Order

**SS5YJ7-20-05** - [ ] - [ ] - [ ]

Stations	
02	2 stations
:	:
15	15 stations

P, R port thread type	
Nil	Rc
00F	G
00N	NPT
00T	NPTF

CE-compliant	
Nil	—
Q	CE-compliant

Applicable solenoid valve

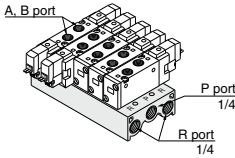
SYJ7□20-□□□□-01 C6 N7 (-Q)  
C8 N9

SYJ7□23-□□□□-01 C6 N7 (-Q)  
C8 N9

Note) For more than 6 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable blanking plate assembly  
Refer to page 229.

#### Type 21 (5 port/Body ported)



#### How to Order

**SS5YJ7-21-05** - [ ] - [ ] - [ ]

Stations	
02	2 stations
:	:
20	15 stations

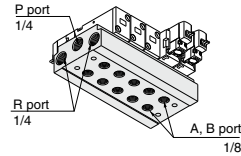
P, R port thread type	
Nil	Rc
00F	G
00N	NPT
00T	NPTF

CE-compliant	
Nil	—
Q	CE-compliant

Applicable individual EXH spacer assembly  
Refer to page 228.

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port.

#### Type 40 (5 port/Base mounted)



#### How to Order

**SS5YJ7-40-05-01** [ ] - [ ] - [ ]

Stations	
02	2 stations
:	:
20	20 stations

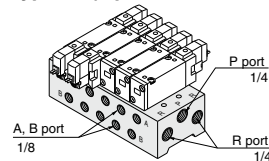
A, B port size		Thread type	
01	1/8	Nil	Rc
		F	G
		N	NPT
		T	NPTF

CE-compliant	
Nil	—
Q	CE-compliant

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable solenoid valve  
SYJ7□40-□□□□(-Q)  
SYJ7□43-□□□□(-Q)

#### Type 41 (5 port/Base mounted)



#### How to Order

**SS5YJ7-41-05-01** [ ] - [ ] - [ ]

Stations	
02	2 stations
:	:
20	20 stations

Thread type	
Nil	Rc
F	G
N	NPT
T	NPTF

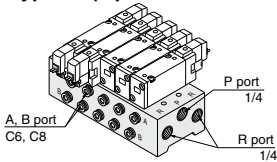
CE-compliant	
Nil	—
Q	CE-compliant

Note) For more than 8 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable blanking plate assembly  
Refer to page 229.

Applicable individual EXH spacer assembly  
Refer to page 228.

#### Type 42 (5 port/Base mounted)



#### How to Order

**SS5YJ7-42-05-C6** [ ] - [ ] - [ ]

Stations	
02	2 stations
:	:
20	20 stations

A, B port size		Thread type	
C6	One-touch fitting for ø6	Nil	Rc
C8	One-touch fitting for ø8	F	G
N7	One-touch fitting for ø1/4"	N	NPT
N9	One-touch fitting for ø5/16"	T	NPTF

CE-compliant	
Nil	—
Q	CE-compliant

Note) For more than 8 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable individual SUP spacer assembly  
Refer to page 228.

Applicable interface regulator  
Refer to page 228.

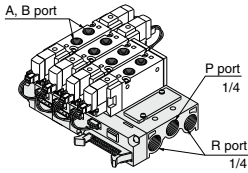


Note) CE-compliant:  
For DC only. [Option]

## Flat Ribbon Cable Manifold

### Common SUP/Common EXH

#### Type 21P (5 Port/Body ported)



#### How to Order

SS5YJ7-21P-05-□-□-□

Stations	
03	3 stations
:	:
12	12 stations

P, R port thread type	
Nil	Rc
00F	G
00N	NPT
00T	NPTF

CE compliant	
Nil	—
Q	CE compliant

**Applicable solenoid valve**  
Refer to page 221.

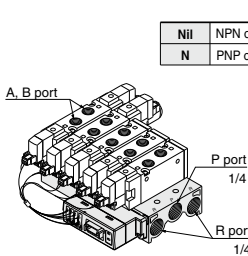
**Applicable blanking plate assembly**  
Refer to page 223.

**Applicable connector assembly**  
Refer to page 221.

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port.

## EX510 Gateway-type Serial Transmission System

#### Type 21SA (5 Port/Body ported)



#### How to Order

SS5YJ7-21SA-□-03-□-□-□

SI unit	
Nil	NPN output (+ COM.)
N	PNP output (- COM.)

Valve stations		
Nil	Station	Note
03	3 stations	Double wiring Note 1)
:	:	
08	8 stations	Specified layout Note 2) (Up to 16 solenoids)
03	3 stations	
:	:	
16	16 stations	

CE-compliant	
Nil	—
Q	CE-compliant

P, R port thread type	
Nil	Rc
00F	G
00N	NPT
00T	NPTF

**Applicable solenoid valve**  
Refer to page 224.

**Applicable blanking plate assembly**  
Refer to page 223.

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.)

#### Type 41SA (5 Port/Base mounted)

#### How to Order

SS5YJ7-41SA-□-03-01-□-□-□

SI unit	
Nil	NPN output (+ COM.)
N	PNP output (- COM.)

Valve stations		
Nil	Station	Note
03	3 stations	Double wiring Note 1)
:	:	
08	8 stations	Specified layout Note 2) (Up to 16 solenoids)
03	3 stations	
:	:	
16	16 stations	

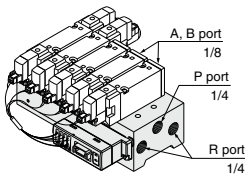
A, B port size	
01	1/8

P, R port thread type	
Nil	Rc
F	G
N	NPT
T	NPTF

**Applicable solenoid valve**  
Refer to page 225.

**Applicable blanking plate assembly**  
Refer to page 229.

CE-compliant	
Nil	—
Q	CE-compliant



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.

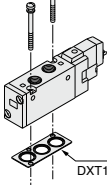
Note 2) Specified layout: Indicate wiring specifications on the manifold specification sheet. (Note that double and 3 position valves cannot be used where single solenoid wiring has been specified.)

SV
SYJ
SZ
VF
VP4
VQ 1/2
VQ 4/5
VQC 1/2
VQC 4/5
VQZ
SQ
VFS
VFR
VQ7

# SYJ7000 Series

## Combinations of Solenoid Valve, Manifold Gasket and Manifold Base

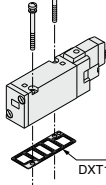
Round head combination screw  
GT code: AC00275  
(M3x31)



### Applicable manifold base

- Type SS5YJ7-20(-Q)
- Type SS5YJ7-21(-Q)
- Type SS5YJ7-21P(-Q)
- Type SS5YJ7-21SA(-Q)

Round head combination screw  
GT code: AC00275  
(M3x31)



### Applicable manifold base

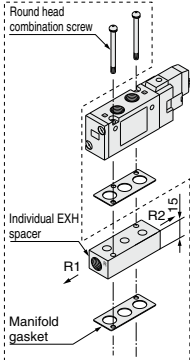
- Sub-plate
- Type SS5YJ7-40(-Q)
- Type SS5YJ7-41(-Q)
- Type SS5YJ7-42(-Q)
- Type SS5YJ7-41SA(-Q)

## Individual EXH Spacer Assembly

SYJ7000-17-1 □A(-Q)

Thread type

NH	Rc
F	G
N	NPT
T	NPTF



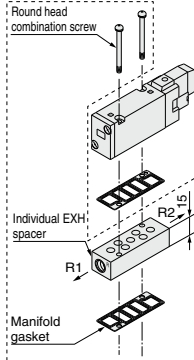
### Applicable manifold base

- Type SS5YJ7-20(-Q)
- Type SS5YJ7-21(-Q)
- Type SS5YJ7-21P(-Q)
- Type SS5YJ7-21SA(-Q)

SYJ7000-17-2 □A(-Q)

Thread type

NH	Rc
F	G
N	NPT
T	NPTF



### Applicable manifold base

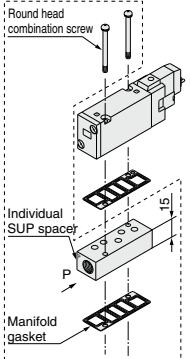
- Type SS5YJ7-40(-Q)
- Type SS5YJ7-41(-Q)
- Type SS5YJ7-42(-Q)
- Type SS5YJ7-41SA(-Q)

## Individual SUP Spacer Assembly

SYJ7000-16-2 □A(-Q)

Thread type

NH	Rc
F	G
N	NPT
T	NPTF



### Applicable manifold base

- Type SS5YJ7-40(-Q)
- Type SS5YJ7-41(-Q)
- Type SS5YJ7-42(-Q)
- Type SS5YJ7-41SA(-Q)

### Caution

Mounting screw tightening torques

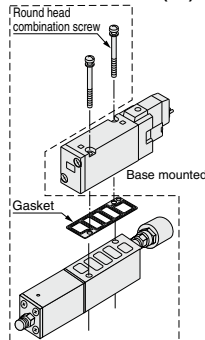
M3: 0.8 N·m

Use caution to the assembly orientation for solenoid valves, gasket, and optional parts.

## Interface Regulator (P port regulation)

Spacer type regulating valve on manifold block can regulate the pressure to the valve individually.

ARBYJ7000-00-P(-Q)



### Applicable manifold base

- Type SS5YJ7-40(-Q)
- Type SS5YJ7-41(-Q)
- Type SS5YJ7-42(-Q)

\* Refer to page 247 prior to handling.