

How to Order

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

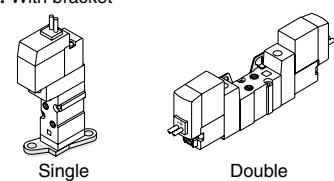
Light/surge voltage suppressor

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



Single
Double

* Brackets cannot be retrofitted.

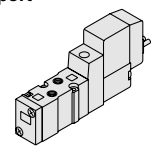
Note) • The double solenoid mounting bracket is supplied unattached.
 • To order the double solenoid bracket for use with a single solenoid valve, order the single solenoid valve without a bracket and order the bracket (VJ3000-13-1) separately.
 (Example) SYJ3120-5M-M3 VJ3000-13-1

Rated voltage

DC		AC (50/60 Hz)	
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.

5 port



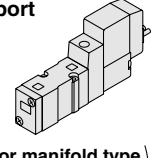
(Type 20 Manifold)

Body ported SYJ3 1 2 0 □ — 5 M □ □ — M3 □

Base mounted (4 port) SYJ3 2 3 0 □ — 5 M □ □ (Manifold use only)

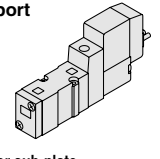
Base mounted (5 port) SYJ3 2 4 0 □ — 5 M □ □ □

4 port



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

5 port



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

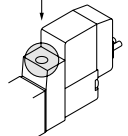
Coil specifications

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

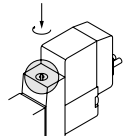
* Power saving circuit is not available in the case of W□ type.

Manual override

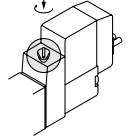
Nil: Non-locking push type



D: Push-turn locking slotted type

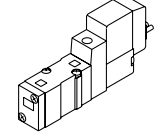


E: Push-turn locking lever type



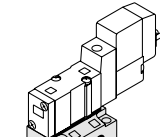
Port size

Nil: Without sub-plate



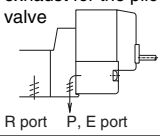
(With gasket and screws)

M5: With M5 port sub-plate



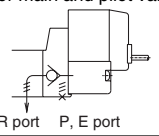
Body option

0: Pilot valve individual exhaust for the pilot valve



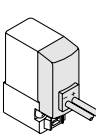
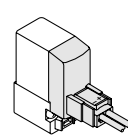
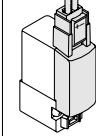
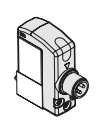
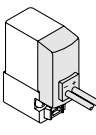
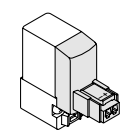
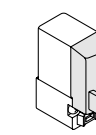
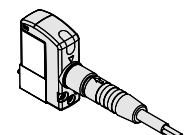
R port P, E port

3: Common exhaust type for main and pilot valve



R port P, E port

Electrical entry

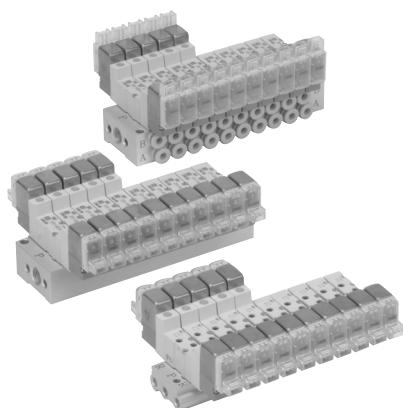
24, 12, 6, 5, 3 VDC 100, 110, 200, 220 VAC		24, 12, 6, 5, 3 VDC	
Grommet	L plug connector	M plug connector	M8 connector
G: Lead wire length 300 mm	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	MN: Without lead wire
H: Lead wire length 600 mm	LN: Without lead wire	LO: Without connector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

Note) When placing an order for body ported solenoid valve as a single unit, mounting bolt for manifold and gasket are not attached. Order them separately, if necessary. (For details, refer to page 15.)

Series SYJ3000

Manifold Specifications

Manifold Standard



Manifold Specifications

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

Flow Characteristics

Manifold			Port size		Flow characteristics						Effective area (mm ²)	
					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 ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv		
				Type SS5YJ3-20	SYJ3□2□	M5 x 0.8	M3 x 0.5	–	–	–	–	–
Base mounted for internal pilot	Type SS5YJ3- ³¹ _{S31}	SYJ3□3□	M5 x 0.8	M3 x 0.5	–	–	–	–	–	–	0.9	
	Type SS5YJ3-32-M5	SYJ3□3□	1/8	M5 x 0.8	0.25	0.19	0.060	0.32	0.25	0.077	–	
	Type SS5YJ3-32-C4			C4	0.25	0.18	0.059	0.30	0.27	0.075	–	
	Type SS5YJ3-S32-M5	SYJ3□3□	1/8	M5 x 0.8	0.25	0.26	0.060	0.29	0.15	0.062	–	
	Type SS5YJ3-S32-C4			C4	0.24	0.21	0.057	0.27	0.18	0.062	–	
	Type SS5YJ3-41-M5	SYJ3□4□	1/8	M5 x 0.8	0.32	0.25	0.081	0.33	0.19	0.079	–	
	Type SS5YJ3-41-C4			C4	0.32	0.28	0.079	0.35	0.24	0.084	–	
	Type SS5YJ3-S41-M5			M5 x 0.8	0.33	0.29	0.082	0.34	0.17	0.081	–	
	Type SS5YJ3-S41-C4	SYJ3□4□	1/8	C4	0.32	0.27	0.079	0.34	0.24	0.084	–	
	Type SS5YJ3-46-M5			M5 x 0.8	M5 x 0.8	0.20	0.25	0.048	0.10	0.12	0.024	–
	Type SS5YJ3-46-C4				C4	0.21	0.27	0.050	0.21	0.13	0.047	–
	Type SS5YJ3-S46-M5			M5 x 0.8	M5 x 0.8	0.20	0.25	0.048	0.19	0.16	0.024	–
Type SS5YJ3-S46-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)
- * **SYJ3000-21-1A** 1 set (Blanking plate assembly)
- * **SYJ3000-21-2A** 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.