

3 Port Pilot Operated Solenoid Valve Rubber Seal Series SYJ300

Flow Characteristics/Weight

Valve model		Type of actuation	Port size	Flow characteristics						Effective area (mm ²)	Weight (g) ^{Note)}		
				1 → 2 (P → A)			2 → 3 (A → R)				Grommet	L/M plug connector	M8 connector
				C [dm³/(s bar)]	b	Cv	C [dm³/(s bar)]	b	Cv				
Body ported	SYJ312	N.C.	M3 x 0.5	—	—	—	—	—	—	0.9	32	33	37
	SYJ322	N.O.		—	—	—	—	—	—				
Base mounted (with sub-plate)	SYJ314	N.C.	M5 x 0.8	0.41	0.18	0.086	0.35	0.33	0.086	—	53 (32)	54 (33)	58 (37)
	SYJ324	N.O.		0.36	0.31	0.089	0.36	0.31	0.089				



Note) Value for DC. Add 1 g for AC. (): Without sub-plate.

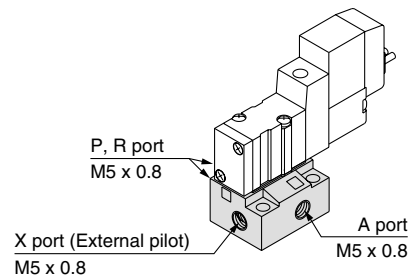
External Pilot

SYJ300R

Pilot valve pressure is supplied separately from the main valve pressure through the use of a separate supply port. It can be used in the vacuum (up to -100 kPa) or low pressure line with 0.15 MPa or less.

Specifications

Applicable model	Base mounted (SYJ314R, SYJ324R)	
Operating pressure range MPa	Main pressure	-100 kPa to 0.7
	External pilot pressure	0.15 to 0.7



Note 1) For manifold base, refer to page 4-4-10.

Note 2) External pilot type body ported valves (SYJ3□2R) can only be used on the manifold.

V100

SY

SYJ

VK

VZ

VT

VP

VG

VP

S070

VQ

VKF

VQZ

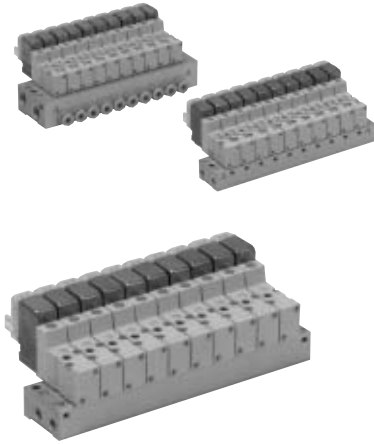
VZ

VS

VFN

Series SYJ300

Manifold Specifications



Manifold Specifications

Model	For internal pilot	Type 20	Type 41, S41	Type 42, S42
	For external pilot	Type 20R	—	Type 42R, S42R
Manifold type		Single base/B mount		
P (SUP), R (EXH)		Common SUP/Common EXH		
Valve stations		2 to 20 stations		
A port Porting specifications	Location	Valve	Base	
	Direction	Top	Side	
Port size	P, R port	M5 x 0.8 1/8	M5 x 0.8	1/8
		A port	M3 x 0.5	M5 x 0.8 C4 (One-touch fitting ø4)
	X port ^{Note)}	M5 x 0.8	—	M5 x 0.8



Note) Only for external pilot

Flow Characteristics

Manifold			Port size		Flow characteristics						Effective area (mm ²)
					1 → 2 (P → A)			2 → 3 (A → R)			
			1(P), 3(R) Port	2(A) Port	C [dm ³ /(s bar)]	b	Cv	C [dm ³ /(s bar)]	b	Cv	
Body ported for internal pilot	Type SS3YJ3-20	SYJ3□2	M5 x 0.8	M3 x 0.5	—	—	—	—	—	—	0.9
Base mounted for internal pilot	Type SS3YJ3-41 S41	SYJ3□4	M5 x 0.8	M3 x 0.5	—	—	—	—	—	—	1.5
	Type SS3YJ3-42-M5	SYJ3□4	1/8	M5 x 0.8	0.31	0.17	0.075	0.32	0.11	0.072	—
	Type SS3YJ3-42-C4			C4	0.33	0.36	0.086	0.33	0.2	0.082	—
	Type SS3YJ3-S42-M5	SYJ3□4	1/8	M5 x 0.8	0.32	0.3	0.079	0.33	0.35	0.086	—
	Type SS3YJ3-S42-C4			C4	0.35	0.17	0.082	0.35	0.26	0.086	—
Body ported for external pilot	Type SS3YJ3-20R	SYJ3□2R	1/8	M3 x 0.5	—	—	—	—	—	—	0.9
Base mounted for external pilot	Type SS3YJ3-42R-M5	SYJ3□4R	1/8	M5 x 0.8	0.31	0.17	0.075	0.32	0.11	0.072	—
	Type SS3YJ3-42R-C4			C4	0.33	0.36	0.086	0.33	0.20	0.082	—
	Type SS3YJ3-S42R-M5	SYJ3□4R	1/8	M5 x 0.8	0.32	0.30	0.079	0.33	0.35	0.086	—
	Type SS3YJ3-S42R-C4			C4	0.35	0.17	0.082	0.35	0.26	0.086	—



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

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:

- SS3YJ3-20-03 1 set (Manifold base)
- SS3YJ3-42R-03-C4 1 set (Manifold base)
- * SYJ312-5LZ-M3 2 sets (Valve)
- * SYJ314R-5G 2 sets (Valve)
- * SYJ300-10-1A 1 set (Blanking plate assembly)
- * SYJ300-10-2A 1 set (Blanking plate assembly)

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