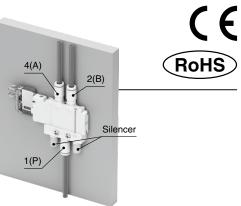
Non Plug-in

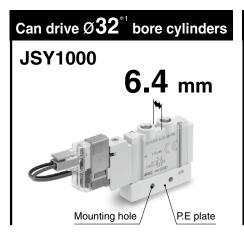
Body Ported

Single Unit (For Mounting P.E Plate)

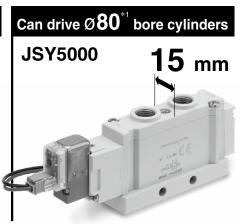
Compact 5-Port Solenoid Valve

A body ported type (single unit) has been added.

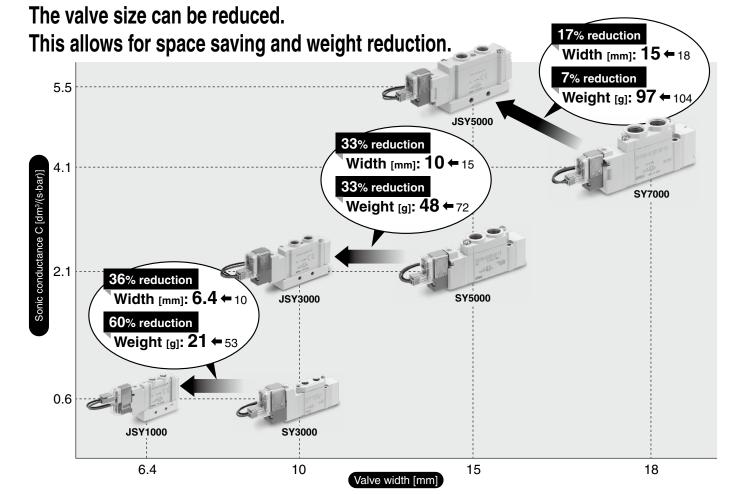








*1 The cylinder speed is 300 mm/s.



JSY1000/3000/5000 Series



JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

	Va	lve type		Rubber seal		
Fluid				Air		
Internal pilot operating pressure range [MPa] 2-position single 2-position double		position single	0.15 to 0.7			
		position double	0.1 to 0.7			
Ambient and fluid te	mpera	tures [°C]		-10 to 50 (No freezing)		
Max. operating JSY1000 frequency JSY3000		· · · · · · · · · · · · · · · · · · ·	position single/double	5		
[Hz]	JSY	5000 2-	position single/double	5		
				Non-locking push type		
Manual override				Push-turn locking slotted type		
				Push-turn locking lever type		
Pilot exhaust type	Inter	nal pilot		Individual exhaust		
Lubrication				Not required		
Mounting orientation)*1			Unrestricted		
Impact/Vibration res	istanc	e*1 [m/s ²]		150/30		
Enclosure				IP40		
Electrical entry				L plug connector (L), M plug connector (M)		
Coil rated voltage [V	/]			24 VDC		
Allowable voltage flu	iotiioti	on	JSY1000	-7% to +10% of the rated voltage (24 VDC)		
Allowable voltage iit	iciuali	OII	JSY3000/5000	±10% of rated voltage		
		Standard	JSY3000/5000	0.4		
Power consumption	DC	With powe	r- JSY1000	0.2*2 [Inrush: 0.5, Holding: 0.2]		
[W]	ЪС	saving	JSY3000/5000 (Made to Order)	0.1 [Inrush: 0.4, Holding: 0.1]		
Surge voltage suppr	essor			Diode		
Indicator light				LED		

^{*1} Impact resistance: No malfunction occurred when tested in the axial direction and at a right angle to the main valve and armature in both an energized and a de-energized state, once in each condition. (Value in the initial state)

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

*2 JSY1000 series available as power-saving type only. Standard type (without power-saving circuit) cannot be selected.

Response Time/Valve Weight

Body Ported

				Response time [ms] (at 0.5 MPa)*1 Standard	
Series	Seal type	Model	Type of actuation	With light/surge voltage suppressor	Valve weight [g]
				Z type	
JSY1000	Rubber seal	JSY1120T	2-position single	15	21
3311000		JSY1220T	2-position double	5	28
JSY3000		JSY3120	2-position single	27	48
J513000		JSY3220	2-position double	10	63
JSY5000		JSY5120	2-position single	42	97
		JSY5220	2-position double	13	113

^{*1} Based on the JIS B 8419: 2010 dynamic performance test (Coil temperature 20°C, at rated voltage)





JSY1000/3000/5000 Series Type 20 Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

Single Unit Specifications



Model			Non plug-in, For mounting P.E plate
		JSY1000	M5 x 0.8
	1(P), 3/5(E) port	JSY3000	1/16
Port size		JSY5000	1/8
Port Size		JSY1000	M3 x 0.5, M5 x 0.8
	4(A), 2(B) port	JSY3000	1/16
		JSY5000	1/8

Flow Rate Characteristics

	Port siz	ze	Valve flow rate characteristics				
Model	1, 5, 3	1, 5, 3 4, 2		$1 \rightarrow 4/2 \; (P \rightarrow A/B)$		$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{E)}$	
(P, EA, EE		(A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b	
JSY1000	M5	M5	0.6	0.48	0.6	0.39	
JSY3000	1/16	1/16	2.0	0.41	2.1	0.35	
JSY5000	1/8	1/8	5.5	0.38	5.4	0.36	

 $[\]ast$ Calculation of effective area S and sonic conductance C: S = 5.0 x C

Non Plug-in Body Ported

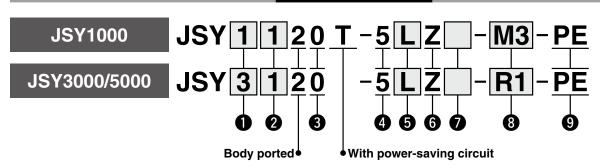
Single Unit (For Mounting P.E Plate)

Type 20 Top Ported

JSY1000/3000/5000 Series



How to Order Valves



1 Series					
1	JSY1000				
3	JSY3000				
5	JSY5000				

2 Type of actuation 2-position single

1	2-position single
2	2-position double

3 Body option 0 Pilot valve exhaust method

4 Rated voltage
5 24 VDC

6	Electrical	entrv
•	Licotifoai	Citt y

	L plug connector		M plug c	onnector
	L	LO	M	MO
JSY1000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector
JSY3000 JSY5000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector

 Refer to the Web Catalog for the lead wire lengths of "L" and "M" plug connectors.

6 Light/surge voltage suppressor and common specifications

With light/surge voltage suppressor

Manual override

JSY1000	Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type	
JSY3000 JSY5000	Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type	

8 4(A)/2(B) port size thread piping

Symbol	Thread piping	JSY1000	JSY3000	JSY5000
М3	M3 x 0.5	•	_	_
M5	M5 x 0.8	•	_	_
R1	Rc1/16	_	•	_
01	Rc1/8	_	_	•

With P.E plate

Symbol	Port size	JSY1000	JSY3000	JSY5000
	M5	•	_	_
PE	Rc1/16	_	•	_
	Rc1/8	_	_	•

If the JSY3000/5000 series is to be continuously energized, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on the back cover. Additionally, if it is to be used at an energizing

rate of over 50%, please select the product with a power-saving circuit. For the JSY1000 series, only the power-saving circuit specification is available.



Made to Order (Refer to the back cover for details.)

Specification

With power-saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

⚠ Caution

Refer to the following to order the fitting/silencer for the 1/16 thread piping of the JSY3000 separately.

Description	Part number	Port size Piping/Type
One-touch fittings (Applicable tubing O.D.: ø6)	KQ2S06-R1AS-X1517*1	
One-touch fittings (Applicable tubing O.D.: Ø8)	KQSY-S08R1S*1	Rc1/16
Silencer	INA-25-98	

- *1 The part number is for 1 piece. (Sales unit: 10 pcs.)
- *1 Tightening torque: 2 to 3 N·m (One-touch fitting)

Non Plug-in Body Ported JSY1000/3000/5000 Series Single Unit (For Mounting P.E Plate)

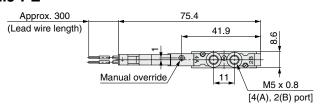
Dimensions: JSY1000 Series

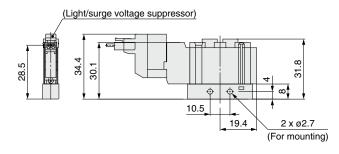


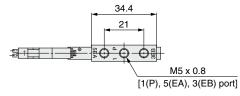
Port Size: M3, M5

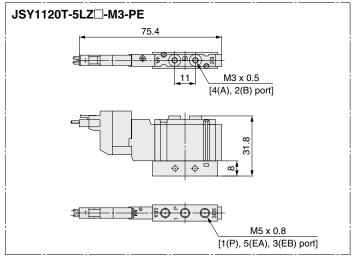


2-position single/L plug connector (L) JŚY1120T-5LZŬ-M5-PE

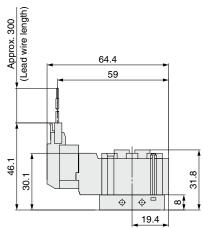








M plug connector (M) JSY1120T-5MZ□-M5-PE



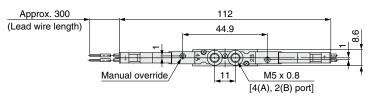


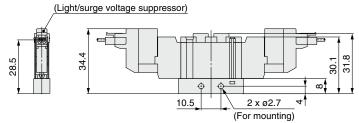
Dimensions: JSY1000 Series

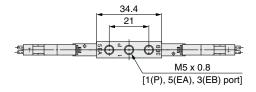
Body Ported Type 20/Top Ported Single Unit Port Size: M3, M5

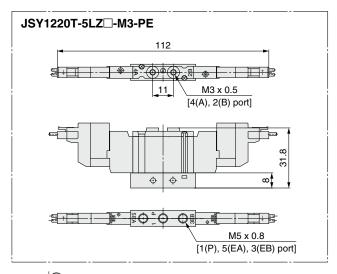


2-position double/L plug connector (L) JSY1220T-5LZ□-M5-PE

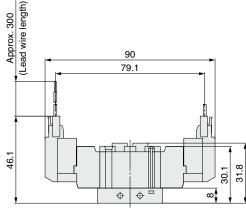








M plug connector (M) JSY1220T-5MZ□-M5-PE



Non Plug-in Body Ported JSY1000/3000/5000 Series Single Unit (For Mounting P.E Plate)

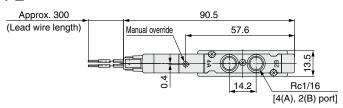


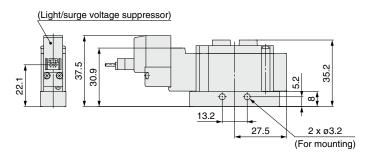


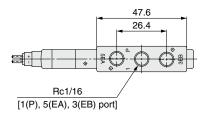




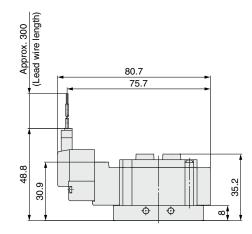
2-position single/L plug connector (L) JSY3120-5LZ□-R1-PE







M plug connector (M) JSY3120-5MZ□-R1-PE



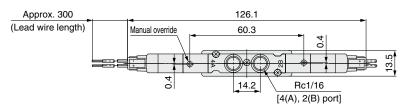


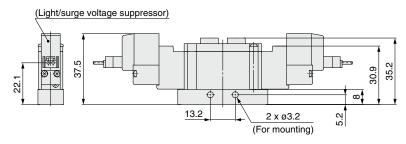
Dimensions: **JSY3000** Series

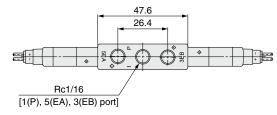
Body Ported Type 20/Top Ported Single Unit Port Size: Rc1/16



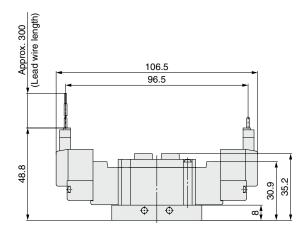
2-position double/L plug connector (L) JSY3220-5LZ□-R1-PE







M plug connector (M) JSY3220-5MZ□-R1-PE



Non Plug-in Body Ported JSY1000/3000/5000 Series Single Unit (For Mounting P.E Plate)

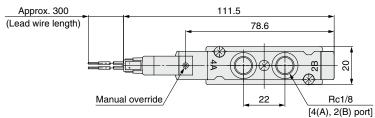
Dimensions: **JSY5000** Series

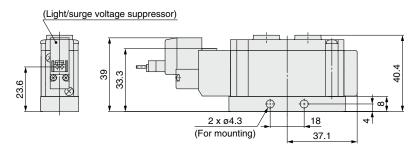


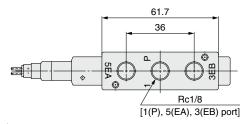
Body Ported Type 20/Top Ported Single Unit Port Size: Rc1/8



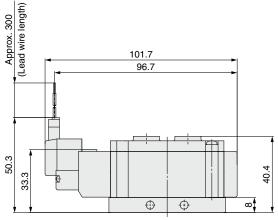
2-position single/L plug connector (L) JSY5120-5LZ□-01-PE







M plug connector (M) JSY5120-5MZ□-01-PE

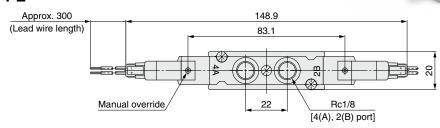


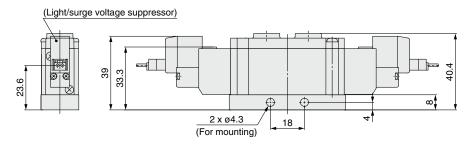


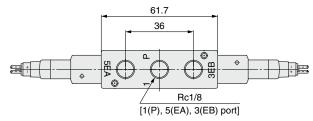
Dimensions: **JSY5000** Series

Body Ported Single Unit Type 20/Top Ported Port Size: Rc1/8

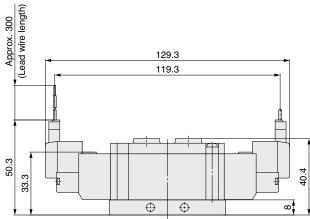
2-position double/L plug connector (L) JSY5220-5LZ□-01-PE



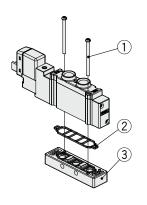




M plug connector (M) JSY5220-5MZ□-01-PE



Non Plug-in Single Unit Parts Nos.



No.	Description	Part number			Note
INO.		JSY1000	JSY3000	JSY5000	Note
1	Valve mounting screw	JSY11V-23-3A (M1.4 x 24.5)	JSY31V-23-7A (M2 x 27)		Part numbers shown on the left are for 10 valves. (20 pcs.)
2	Base gasket	JSY11M-9P-1A	JSY31M-9P-1A	JSY51M-9P-1A	Part numbers shown on the left are for 10 valves. (10 pcs.)
3	P.E plate assembly	JSY11V-7A-M5	JSY31V-7A-R1	JSY51V-7A-01	With base gasket Available in units of 1 set For details, refer to the part numbers below.

■P.E Plate



Series

1	JSY1000	
3	JSY3000	
5	JSY5000	

2 Thread piping

Symbol	Thread piping	JSY1000	JSY3000	JSY5000
M5	M5 x 0.8	•	_	_
R1	Rc1/16	_	•	_
01	Rc1/8	_	_	•



JSY1000/3000/5000 Series **Made to Order**



Please contact SMC for detailed dimensions, specifications, and delivery times.

1 Coil type: With power-saving circuit (Continuous duty type)

Be sure to select the power-saving circuit type when the JSY3000/5000 series is continuously energized for long periods of time. Be careful of the energizing time when the power-saving circuit is selected.

0.1 W: JSY3000/5000

