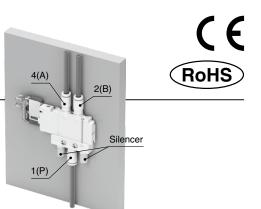
INFORMATION

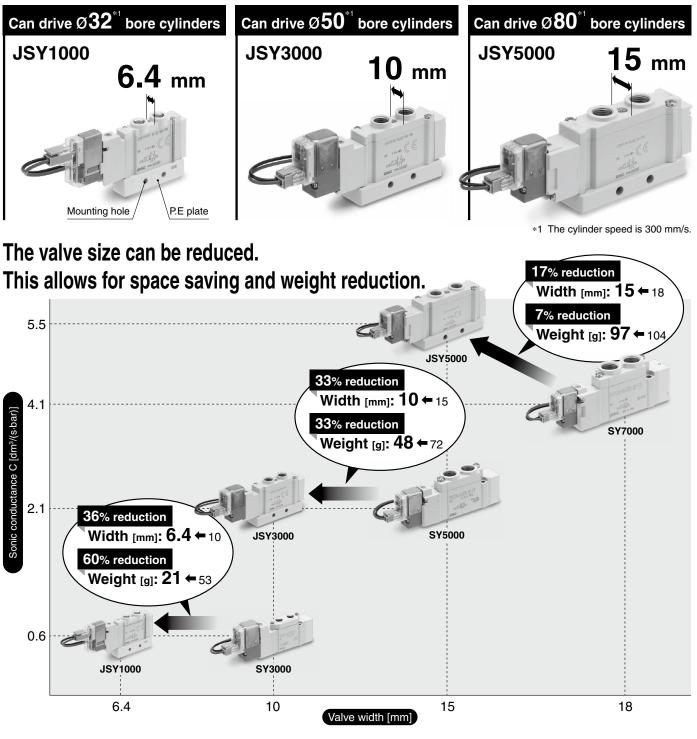


Single Unit (For Mounting P.E Plate)

Compact 5-Port Solenoid Valve

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







JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

Valve type				Rubber seal		
Fluid				Air		
Internal pilot 2-position single		osition single	0.15 to 0.7			
operating pressure r	ange	[MPa] 2-p	osition double	0.1 to 0.7		
Ambient and fluid temperatures [°C]				-10 to 50 (No freezing)		
Max. operating frequency	JSY1 JSY3	2-n	sition single/double	5		
[Hz]	JSY	5000 2-pc	sition single/double	5		
				Non-locking push type		
Manual override				Push-turn locking slotted type		
				Push-turn locking lever type		
Pilot exhaust type	Inter	rnal pilot		Individual exhaust		
Lubrication				Not required		
Mounting orientation	^{*1}			Unrestricted		
Impact/Vibration resistance ^{*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	uaturati	on	JSY1000	-7% to +10% of the rated voltage (24 VDC)		
Allowable voltage it	iciuali		JSY3000/5000	$\pm 10\%$ of rated voltage		
		Standard	JSY3000/5000	0.4		
Power consumption [W]		DC With power- saving circuit	JSY1000	0.2*2 [Inrush: 0.5, Holding: 0.2]		
			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 deenergized 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
JS13000		JSY3220	2-position double	10	63
JSY5000		JSY5120	2-position single	42	97
001000		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 size		Valve flow rate characteristics				
Model	1, 5, 3	4, 2	$1 \rightarrow 4/2 (P \rightarrow A/B)$ $4/2$		$4/2 \rightarrow 5/3$ (A/B	$2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{E)}$	
	(P, EA, EB)	(A, B)	C [dm³/(s·bar)]	b	C [dm³/(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	

* 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) **JSY1000/3000/5000** Series Type 20 op Ported RoHS How to Order Valves **M3** JSY 1 **JSY1000** 2 0 -PE 5 JSY **JSY3000/5000** 3 2 5

With power-saving circuit

0 Pilot valve exhaust method

Manual override

push type

push type

Nil: Non-locking

Ĩ

Nil: Non-locking

3 Body option

JSY1000

JSY3000

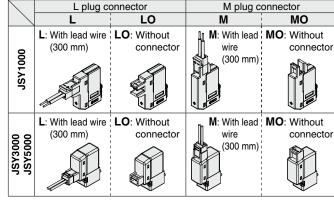
3

Body ported

2-position single

2-position double

2 Type of actuation



1

2

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

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

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

9 With P.E plate

Series

1

3

5

JSY1000

JSY3000

JSY5000

5 Electrical entry

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

▲ Caution

If the JSY3000/5000 series is to be continuously energized, please be sure to select the powersaving 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.

Ĭ	type	

4 Rated voltage

5

Light/surge voltage suppressor and common specifications
 With light/surge voltage suppressor

D:

Push-turn

Push-turn

locking slotted

type

locking

slotted

type

D:

24 VDC

E:

Push-turn

Push-turn

locking

lever

tvno

locking

lever

type

E:

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

Specification

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

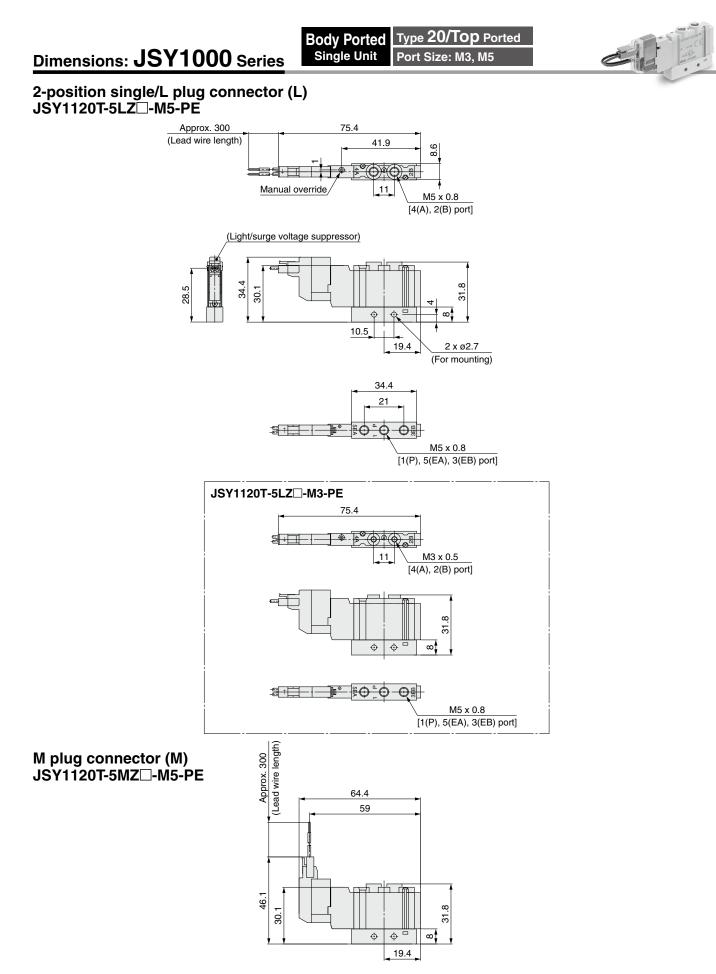
▲Caution

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

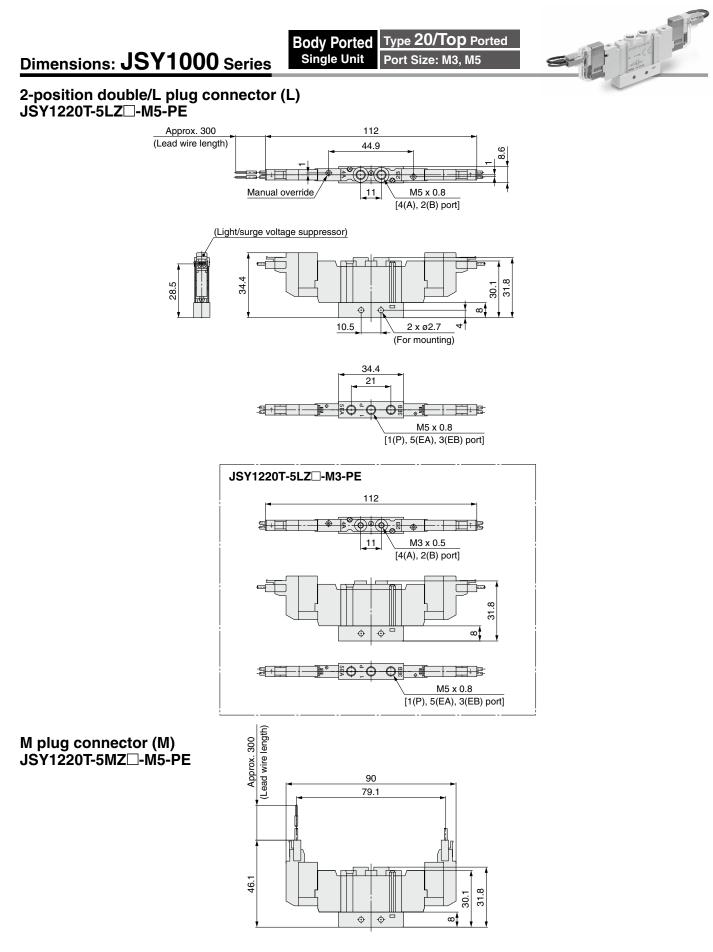
•		• •
Description	Part number	Port size Piping/Type
One-touch fittings (Applicable tubing O.D.: ø6)	KQ2S06-R1AS-X1517*1	
One-touch fittings (Applicable tubing O.D.: ø8)	KQSY-S08R1S*1	Rc1/16
Silencer	INA-25-98	
	 *1 The part number is for 1 piece. *1 Tightening torque: 2 to 3 N·m (



Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)



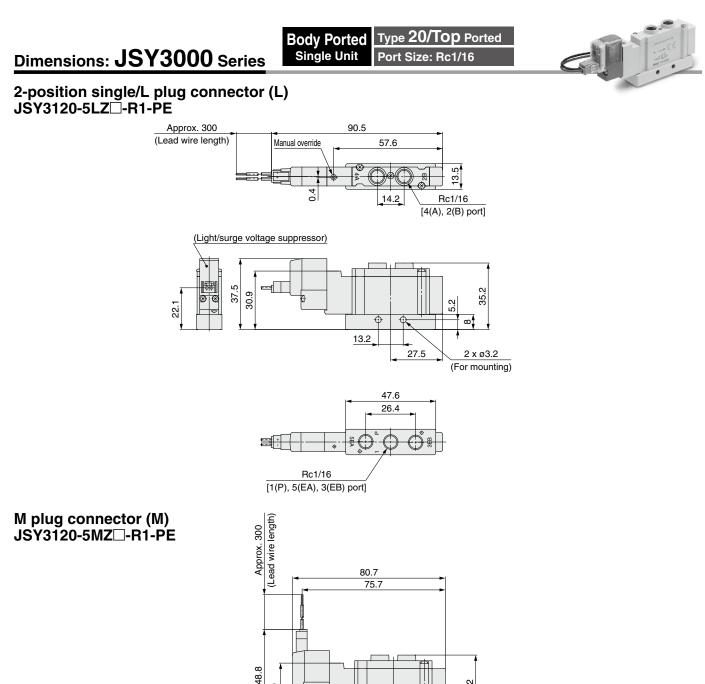




Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

30.9

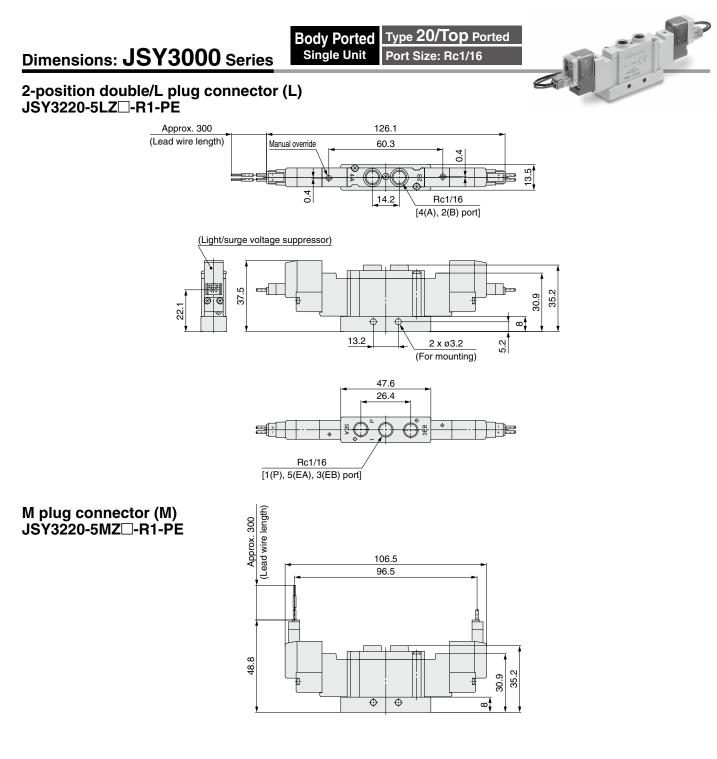
JSY1000/3000/5000 Series



0 0

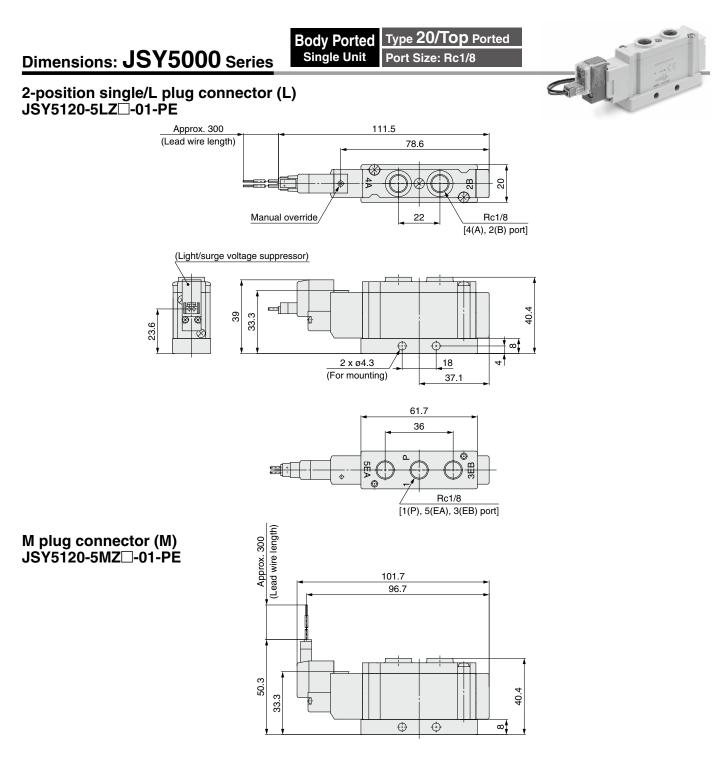
35.2

ω

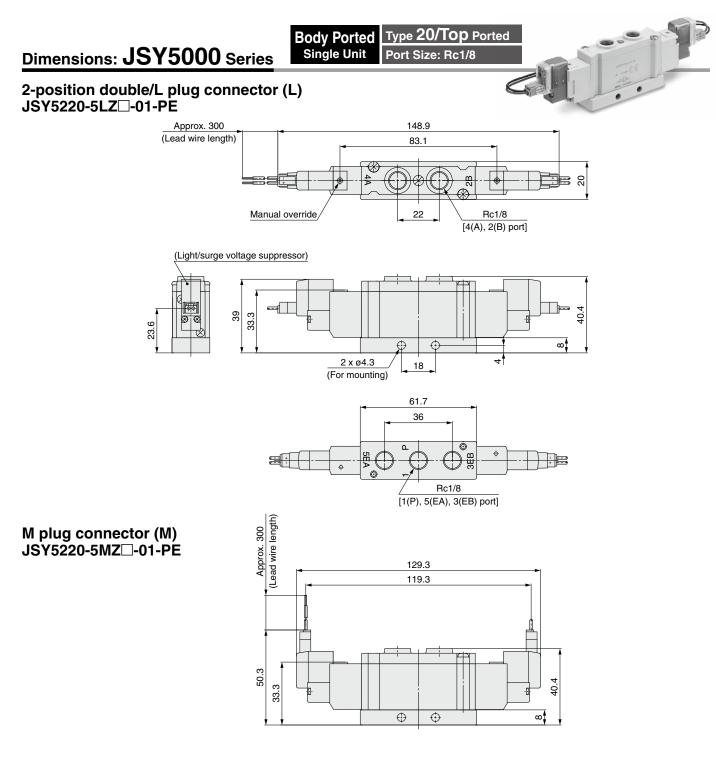


Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

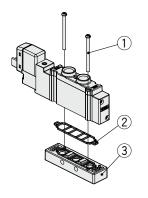
^{ted} JSY1000/3000/5000 Series



SMC

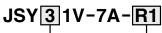


JSY1000/3000/5000 Series Non Plug-in Single Unit Parts Nos.



No.	Description		Part number		Note
INO.	Description	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	19761M-0D-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





2

1 Series **1** JSY1000

JSY3000

JSY5000

3

5

A

2 1	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**

How to Order Valves	
JSY_{5}^{3} 20 T - 5	Z
● Coil t T	ype With power-saving circuit (Continuous duty type)

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.