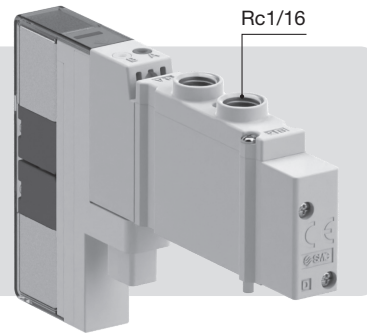


**Plug-in Top Ported**

# Compact 5-Port Solenoid Valve

A top-ported type has been added to the JSY3000 series.



**Installed image** 4(A) and 2(B) port output pressure detection is possible.

Compact 5-port solenoid valve  
JSY3□□00-5□□

Catalogue on <https://www.smc.eu>

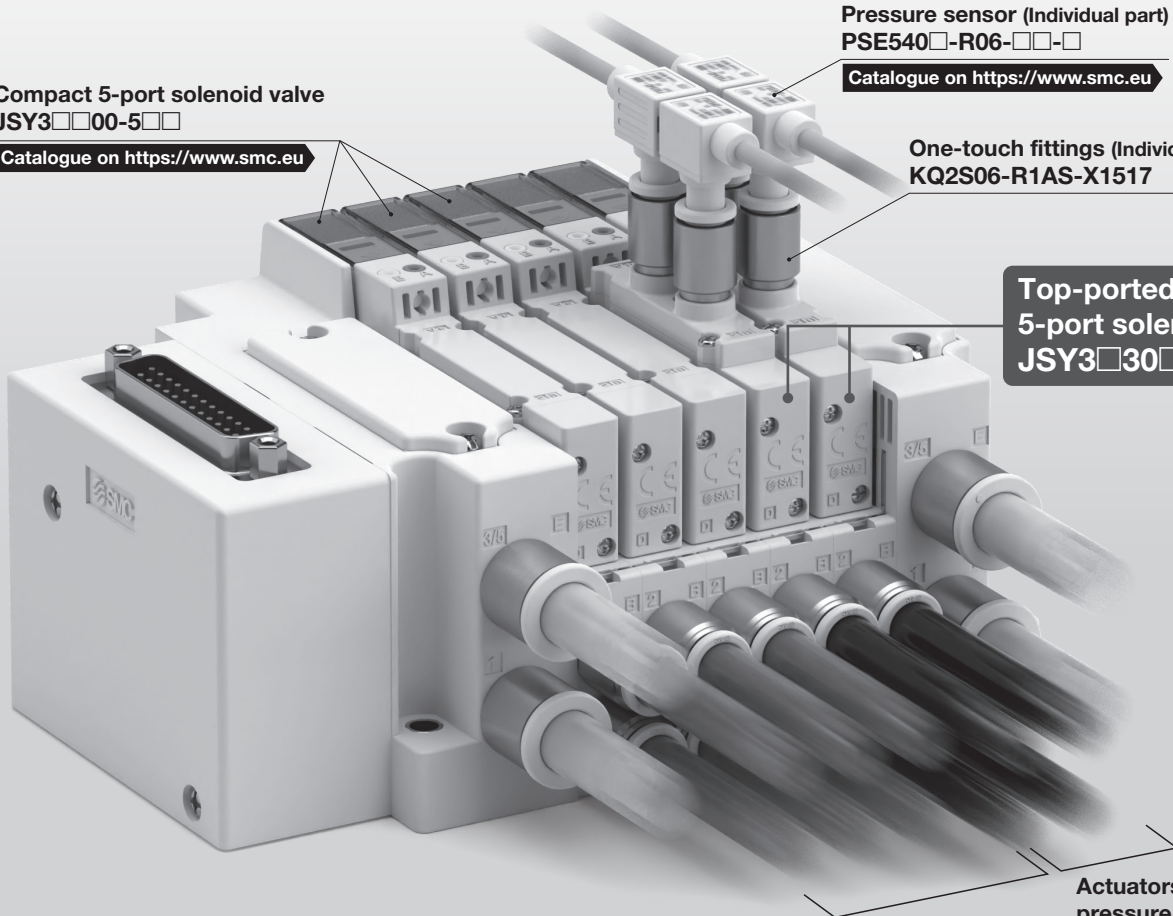
Pressure sensor (Individual part)  
PSE540□-R06-□□-□

Catalogue on <https://www.smc.eu>

One-touch fittings (Individual part)  
KQ2S06-R1AS-X1517

Top-ported compact  
5-port solenoid valve  
JSY3□30□-5□□-R1

p. 1



Actuators for general driving

Actuators that allow for pressure visualisation

**Caution**  
The mounting bases are side ported.

**JSY3000 Series**

# Plug-in Top Ported JSY3000 Series

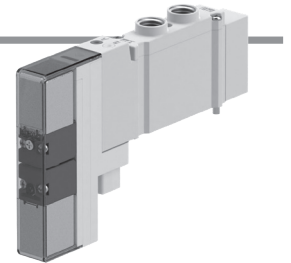


## How to Order Valves

Top Ported JSY 3 1 30    - 5 Z    - R1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

Top ported •



### ① Series

3	JSY3000
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### ② Type of actuation

1	2-position single
2	2-position double
3	3-position closed centre
4	3-position exhaust centre
5	3-position pressure centre
A	Dual 3-port (N.C./N.C.)
B	Dual 3-port (N.O./N.O.)
C	Dual 3-port (N.C./N.O.)

### ③ Body option

0	Pilot valve exhaust method
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### ④ Coil type

-	None
T	With power-saving circuit

### ⑤ Rated voltage

5	24 VDC
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### ⑥ Light/surge voltage suppressor and common specification

Symbol	Specifications
U	With light /surge voltage suppressor (Non-polar)
Z	With light /surge voltage suppressor (Positive common)
NZ	With light /surge voltage suppressor (Negative common)

### ⑦ Manual override

-	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

R1	Rc1/16
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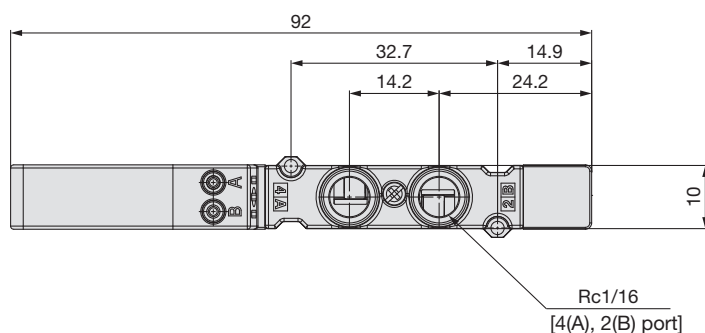
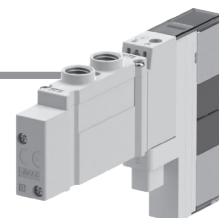
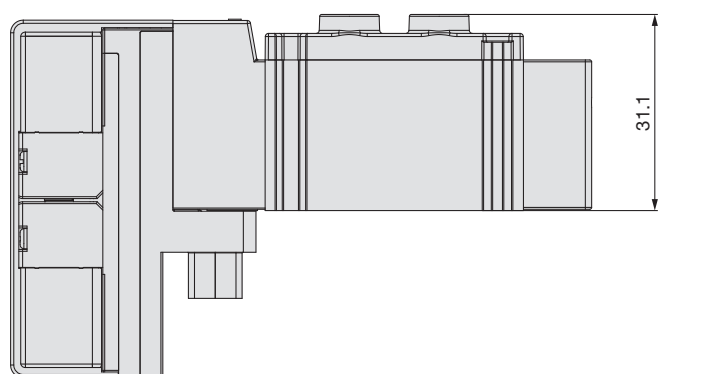
\* When ordering a valve individually, the base gasket is not included.  
The base gaskets are attached to the manifold.

## Valve Specifications

Valve type		Rubber seal
Fluid		Air
Internal pilot operating pressure range [MPa]	2-position single	0.15 to 0.7
	2-position double	0.1 to 0.7
	3-position	0.2 to 0.7
	4-position dual 3-port valve	0.15 to 0.7
External pilot (Made to Order) operating pressure range [MPa]	Operating pressure range	
	Pilot pressure range	2-position single
		2-position double
3-position	0.25 to 0.7	
Ambient and fluid temperatures [°C]		-10 to 50 (No freezing)
Max. operating frequency [Hz]	2-position single/double	5
	4-position dual 3-port valve	
	3-position	3
Manual override		Non-locking push type
		Push-turn locking slotted type
		Push-turn locking lever type
Pilot exhaust type	Internal pilot	Individual exhaust
	External pilot (Made to Order)	
Lubrication		Not required
Mounting orientation*1		Unrestricted
Impact/Vibration resistance*1 m/s <sup>2</sup>		150/30
Coil rated voltage [DC]		24 V
Allowable voltage fluctuation [V]		±10 % of the rated voltage
Power consumption [W]	Standard	0.4
	With power-saving circuit (Made to Order)	0.1 [Inrush 0.4, Holding 0.1]
Surge voltage suppressor		Diode (Varistor for non-polar type)
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 energised and a de-energised 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 in the axial direction and at a right angle to the main valve and armature in both an energised and a de-energised state, once in each condition. (Value in the initial state)

## Dimensions



## Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution,” “Warning” or “Danger.” They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)<sup>1)</sup>, and other safety regulations.

### Danger:

**Danger** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

### Warning:

**Warning** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

### Caution:

**Caution** indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

- 1) ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components.
- ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.
- IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
- ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.
- etc.

## Warning

### 1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

### 2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

### 3. Do not service or attempt to remove product and machinery/equipment until safety is confirmed.

1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

### 4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments.

**Use under such conditions or environments is not covered.**

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

## Caution

**We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.**

**Use in non-manufacturing industries is not covered.**

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

## Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

### Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.<sup>2)</sup> Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty.  
A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

### Compliance Requirements

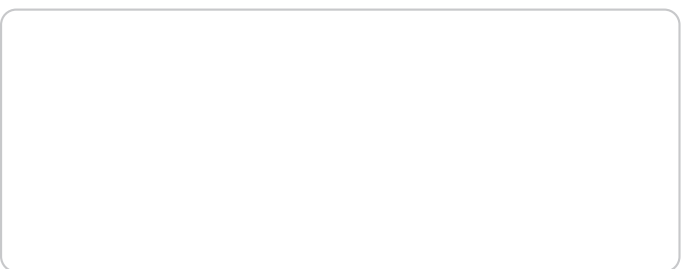
1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

## Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

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