



**For High-Pressure Water**

# Pilot Operated 2-Port Solenoid Valve

## Can be used at up to **10 MPa**

*For high-pressure washing*

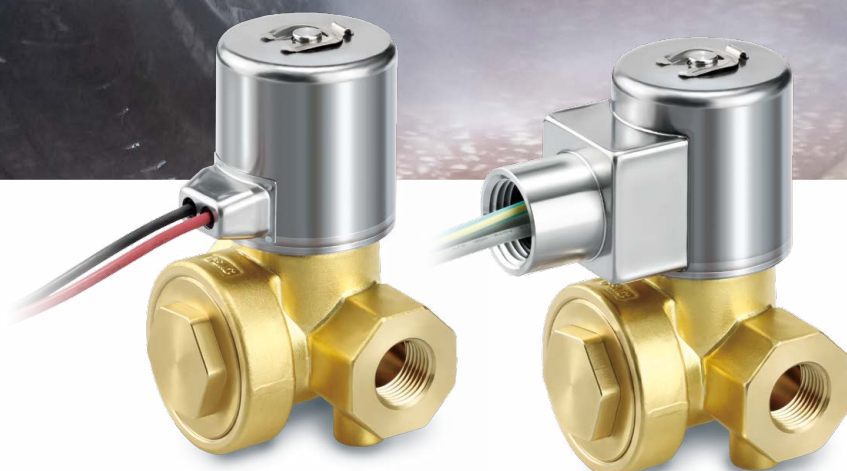
*For water spraying*

*For misting*

An **IP67<sup>\*1</sup>** structure with improved environmental resistance

\*1 The DIN terminal is IP65.

# JSXH-X2



P-E22-38

**Orifice diameter [mmØ]**

**12**

**Flow Rate Characteristics [Kv]**

**1.7** (Port size 3/8)

**1.9** (Port size 1/2)

**Power consumption**

**8 W**

**Weight**

**960 g** (Port size: 3/8)

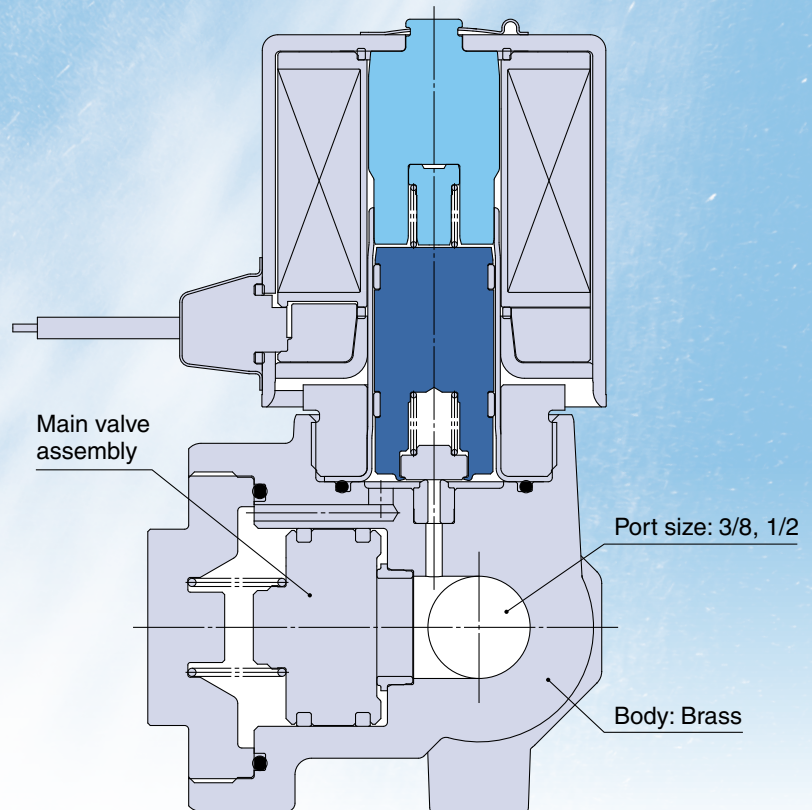
**920 g** (Port size: 1/2)

**Easy maintenance**

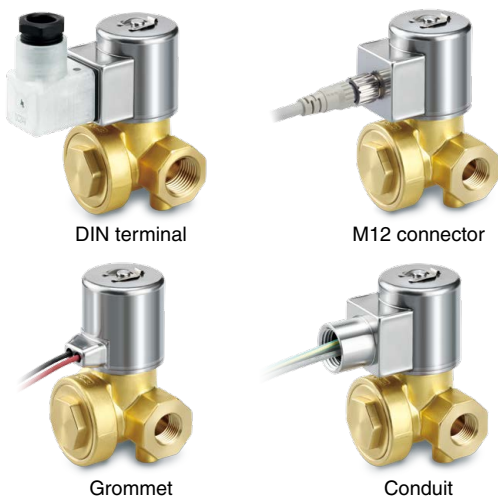
The coil can be replaced by simply removing the clip.



The main valve can be cleaned and replaced by simply removing the cover.



**Electrical entry variations**



**Improved environmental resistance**

- Dustproof/waterproof IP67 structure
- With a stainless steel coil cover

**Passed 1000 hours Accelerated weathering test**  
ISO 4892-3 (JIS K 7350-3) compliant

**Passed 1000 hours Ozone-proof exposure test**  
ISO 1431 (JIS K 6259) compliant

**Passed 960 hours Combined cycle test**  
ISO 14993 (JIS H 8502: 1999) compliant

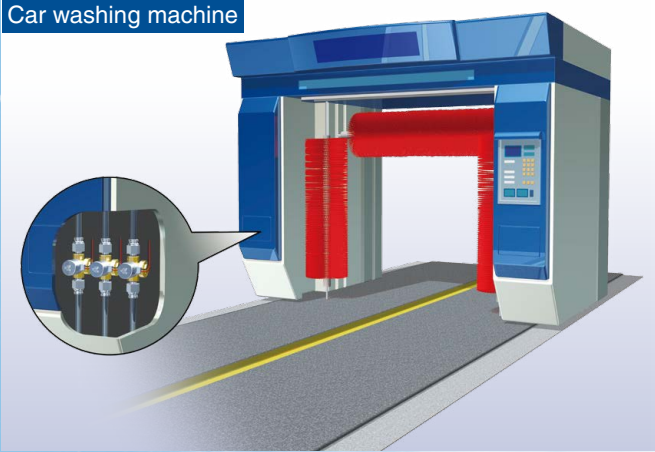
\* Please contact your local sales representative for more details.



## Application Examples

### For high-pressure washing

Car washing machine



High-pressure cleaning equipment



### For water spraying

Irrigation



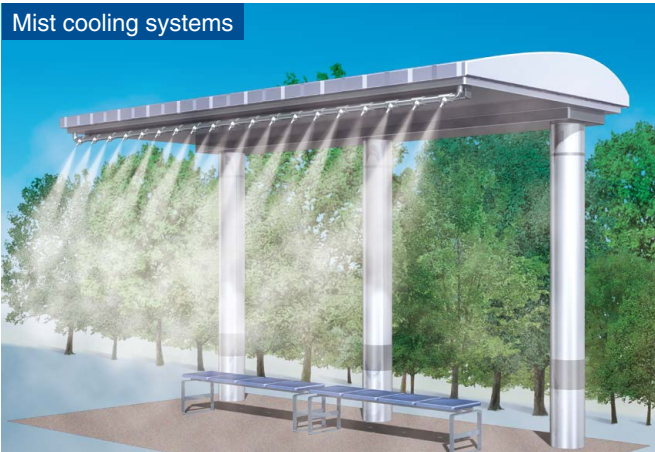
### For misting

Dry fog

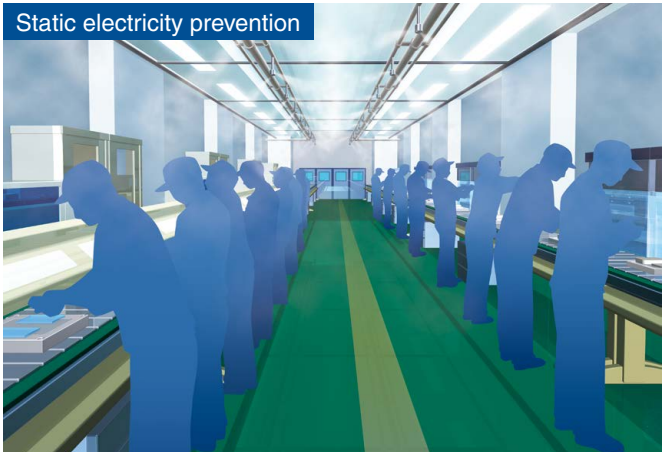


### For misting

Mist cooling systems



Static electricity prevention



# For High-Pressure Water Pilot Operated 2-Port Solenoid Valve **JSXH-X2**



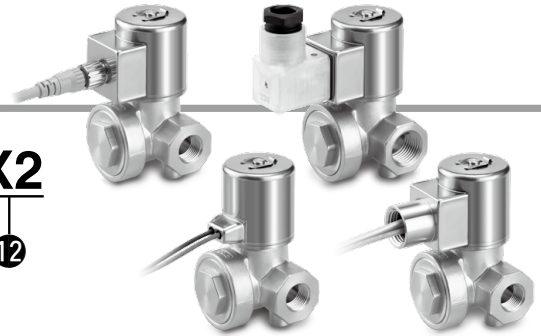
Differs depending on the voltage and electrical entry. For details, refer to table 10 below.



## How to Order

**JSXH31P-CP04R-5G-A-X2**

1
2
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10
11
12



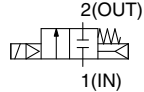
### 1 Series

Symbol	Series
<b>H</b>	High-pressure/ Pilot operated

### 2 Size

Symbol	Size
<b>3</b>	30

### 3 Valve type

Symbol	Valve type
<b>1</b>	N.C. 

### 4 Main valve construction

Symbol	Main valve construction
<b>P</b>	Piston

### 5 Body material

Symbol	Body material
<b>C</b>	Brass*1

\*1 The orifice material is stainless steel.

### 6 Seal material

Symbol	Seal material	
	Main valve	Pilot valve
<b>P</b>	PPS	PPS

### 7 Port size and orifice diameter

Symbol	Port size	Orifice diameter [mmø]
<b>03</b>	3/8	12
<b>04</b>	1/2	

### 8 Thread type

Symbol	Thread type
<b>R</b>	Rc
<b>N</b>	NPT
<b>F</b>	G

### 9 Rated voltage

AC				DC	
Symbol	Rated voltage	Symbol	Rated voltage	Symbol	Rated voltage
<b>1</b>	100 VAC	<b>4</b>	220 VAC	<b>5</b>	24 VDC
<b>2</b>	200 VAC	<b>7</b>	240 VAC	<b>6</b>	12 VDC
<b>3</b>	120 (110) VAC	<b>8</b>	48 VAC		
		<b>B</b>	24 VAC		








### 11 Option

Symbol	Option
<b>Nil</b>	None
<b>A</b>	Port facing the opposite direction

### 12 Pressure type

Symbol	Specifications
<b>X2</b>	Operating pressure: 0.1 to 10 MPa Fluid: Water

### 10 Electrical entry

Symbol	Electrical entry	CE/UKCA-compliant
<b>G</b>	Grommet*2 	24 VDC
		12 VDC
<b>GS</b>	Grommet with PCB (With surge voltage suppressor) 	100 VAC
		24 VDC
		12 VDC
		48 VAC
<b>CS</b>	Conduit (With surge voltage suppressor) 	All voltages
		All voltages
<b>DS</b>	DIN terminal (With surge voltage suppressor) 	All voltages
		All voltages
<b>DZ</b>	DIN terminal with light (With surge voltage suppressor) 	All voltages
		All voltages
<b>DN</b>	Without DIN connector (With surge voltage suppressor) 	All voltages
		All voltages
<b>WN</b>	M12 connector/Without connector cable (With surge voltage suppressor)*3 	All voltages
		All voltages

\*2 DC voltage only

\*3 A cable for the M12 connector is not included with the product.

## Specifications

Size		30		
Valve specifications	Valve construction	Internal pilot type piston		
	Valve type	Normally closed (N.C.)		
	Fluid	Water		
	Fluid temperature	1 to 60°C (No freezing)		
	Ambient temperature	-20 to 60°C		
	Max. operating pressure	10.0 MPa		
	Operating pressure differential	0.1 to 10.0 MPa		
	Withstand pressure	15.0 MPa		
	Port size	3/8	1/2	
	Orifice diameter	12 mmø		
	Flow rate characteristics	Kv	1.7	1.9
		Conversion Cv	2.0	2.2
	Leakage*1	Valve leakage	30 cm <sup>3</sup> /min or less	
		External leakage	0.1 cm <sup>3</sup> /min or less	
	Mounting orientation	Unrestricted		
Enclosure*2	IP67 (IP65 for the DIN terminal)			
Body material	Brass, Stainless steel			
Seal material	PPS, NBR			
Weight*3	3/8, Grommet	960 g		
	1/2, Grommet	920 g		
Coil specifications	Rated voltage	AC	24 V, 48 V, 100 V, 110 V, 120 V, 200 V, 220 V, 230 V, 240 V	
		DC*4	12 V, 24 V	
	Allowable voltage fluctuation	±10% of the rated voltage		
	Allowable leakage voltage	AC	5% or less of the rated voltage	
		DC	2% or less of the rated voltage	
	Apparent power*5,6	AC	9.5 VA	
	Power consumption*5	DC	8 W	
Temperature rise*7	AC	70°C		
	DC	65°C		

\*1 The value for water at a differential pressure of 0.1 MPa or higher and an ambient temperature of 20°C

\*2 This product has an IP67 enclosure, but if water enters the product, it may result in malfunction or breakage.

Therefore, take appropriate measures to prevent water from entering the product when using in an environment where it is constantly exposed to water.

\*3 Add 20 g for the grommet type with PCB, 70 g for the conduit type, 50 g for the DIN terminal type, and 15 g for the type without a DIN connector and the M12 connector type.

\*4 Only DC is available for the grommet type.

\*5 Power consumption/Apparent power: The value at an ambient temperature of 20°C and when the rated voltage is applied (Variation: ±10%)

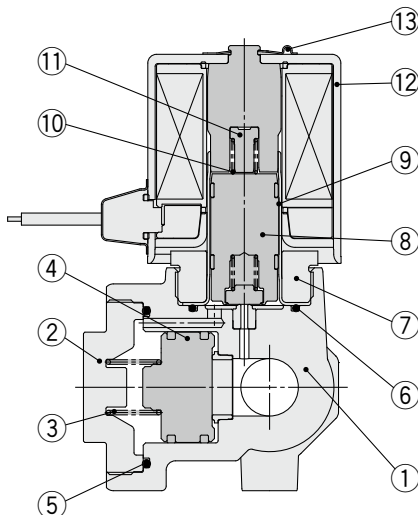
\*6 There is no difference in the frequency and the inrush and energized apparent power, since a rectifying circuit is used in the AC.

\*7 Temperature rise: The value at an ambient temperature of 20°C and when the rated voltage is applied.

Use this value as a reference as the actual value varies depending on the ambient environment.

Be sure to read the "Specific Product Precautions" before handling the product.

## Construction



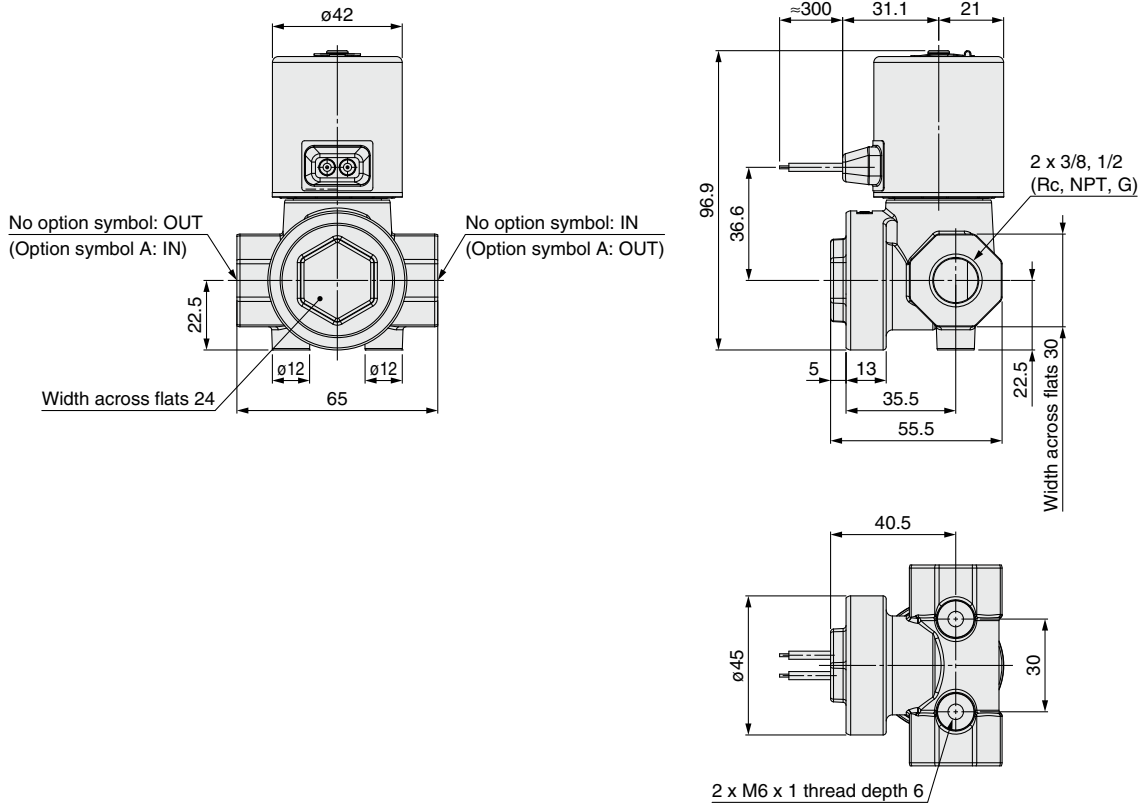
### Component Parts

No.	Description	Material	Qty.	Note
1	Body	Brass, Stainless steel	1	
2	Bonnet	Brass	1	
3	Spring	Stainless steel 304	1	
4	Main valve assembly	PPS, POM, Stainless steel	1	
5	O-ring	NBR	1	
6	O-ring	NBR	1	
7	Set nut	Brass	1	
8	Armature assembly	Stainless steel, PPS, NBR	1	
9	Tube assembly	Stainless steel	1	High corrosion-resistant electromagnetic stainless steel + Stainless steel 305
10	Spring	Stainless steel 304	1	
11	Stopper	PPS	1	
12	Solenoid coil assembly	Stainless steel, Cu, Resin	1	High corrosion-resistant electromagnetic stainless steel
13	Clip	Stainless steel 304	1	

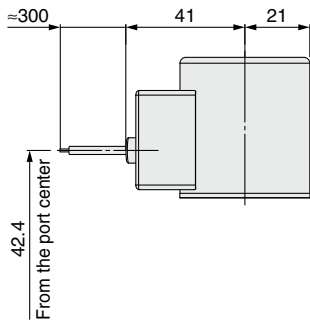
# JSXH-X2

## Dimensions

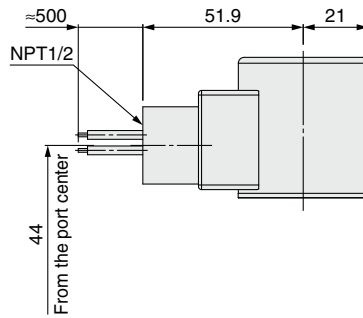
### G: Grommet



### GS: Grommet with PCB

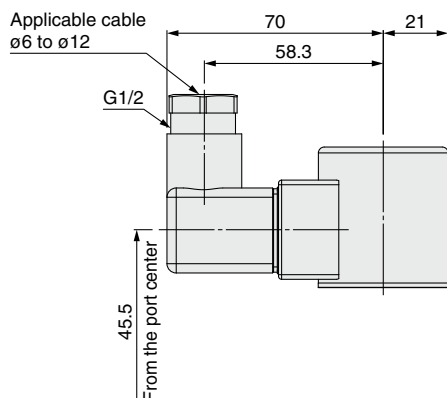


### CS: Conduit

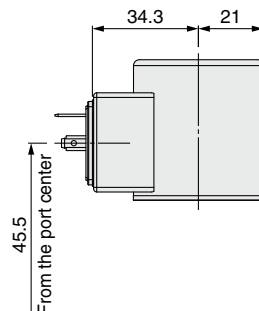


### DS: DIN terminal

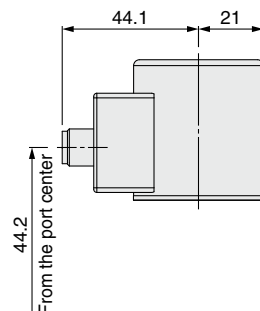
### DZ: DIN terminal with light



### DN: Without DIN connector



### WN: M12 connector





# JSXH-X2

## Specific Product Precautions

Be sure to read this before handling the products. For safety instructions and 2-port solenoid valve for fluid control precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <https://www.smcworld.com>

### Design

#### Warning

##### 1. Water hammer

When an impact, such as water hammer, etc., caused by rapid pressure fluctuation is applied, the valve may be damaged, so be sure to install a water hammer relief device such as an accumulator.

##### 2. Leakage when supplying fluid

Be aware that when the valve is closed, sudden pressure resulting from the startup of the fluid supply source may cause the valve to open momentarily and leakage to occur.

### Fluid

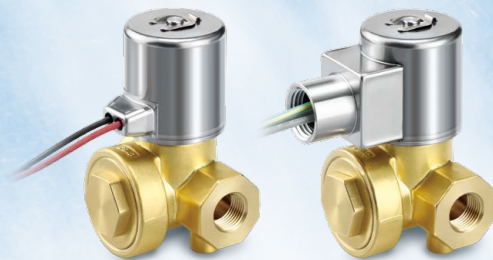
#### Warning

##### 1. Fluid selection

This product can only be used with water as the fluid. Do not use the product with the fluids shown below.

- 1) Fluids that are harmful to humans
- 2) Combustion-supporting or flammable fluids
- 3) Corrosive gases
- 4) Sea water, Saline solutions
- 5) Oils, Air

**For High-Pressure Water**  
**Pilot Operated 2-Port Solenoid Valve**  
***JSXH-X2***



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

## SMC Corporation

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<https://www.smcworld.com>  
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Specifications are subject to change without prior notice  
and any obligation on the part of the manufacturer.

D-G



# Pilot Operated 2-Port Solenoid Valve

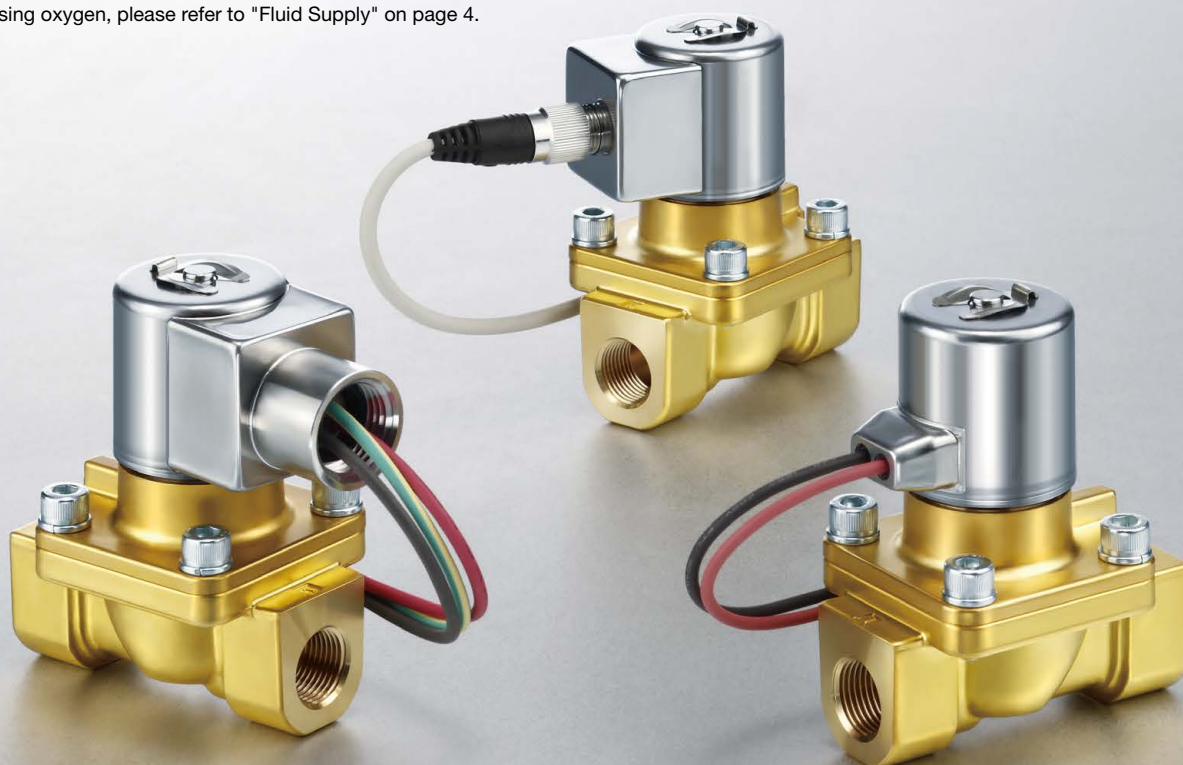


Max. operating pressure differential

**4.0 MPa**

**Fluid** Compressed air, Nitrogen, Argon, Oxygen\*1

\*1 When using oxygen, please refer to "Fluid Supply" on page 4.



**Low particle generation**

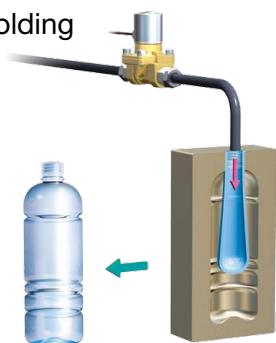
**Oil-free**

**IP67\*2**

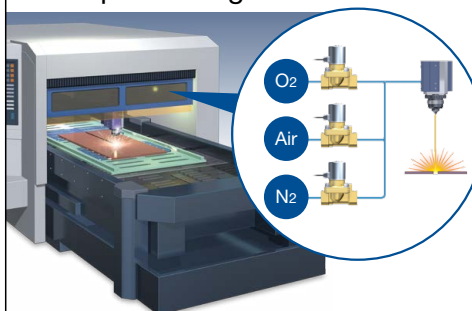
\*2 The DIN terminal is IP65.

## Application Examples

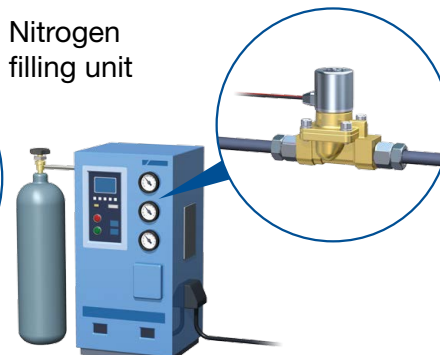
Blow molding



Laser processing machines



Nitrogen filling unit



**JSXH-X1**

**SMC**  
CAT.ES70-65A

# Pilot Operated 2-Port Solenoid Valve JSXH-X1

**Low particle generation**

- No armature assembly collision

**Improved abrasion resistance**

- Increased rubber hardness (HNBR)
- Poppet made from PUR

No collision between metals due to bumpers

**Power saving**

Power consumption: 6 W

**Stopper construction**

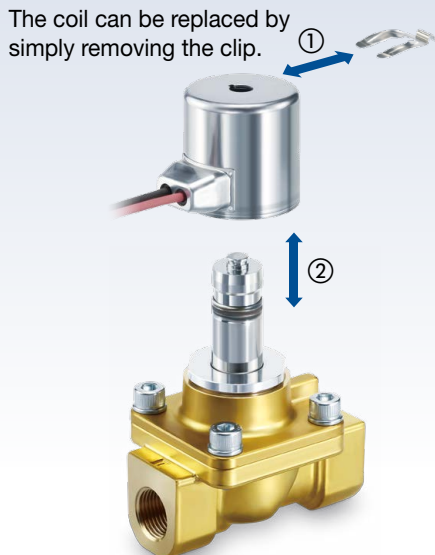
- Metal noise reduced by the resin stopper
- Longer service life

**Oil-free**

Oil-free diaphragm construction

High flow rate and low pressure drop due to the optimised flow path through the body.

## Easy maintenance



## Improved environmental resistance

- Dustproof/waterproof IP67 structure
- With a stainless steel coil cover

Passed 1000 hours	<b>Accelerated weathering test</b> ISO 4892-3 (JIS K 7350-3) compliant
Passed 1000 hours	<b>Ozone-proof exposure test</b> ISO 1431 (JIS K 6259) compliant
Passed 960 hours	<b>Combined cycle test</b> ISO 14993 (JIS H 8502: 1999) compliant






\* Please contact your local sales representative for more details.

## Electrical Entry Variations


















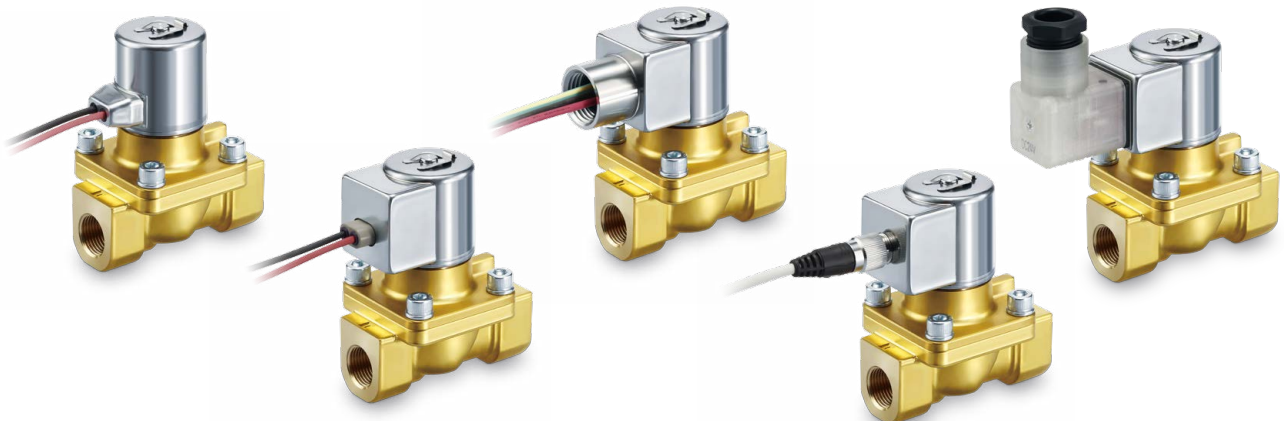
## Specifications

Model	Port size	C [dm <sup>3</sup> /(s · bar)]	Orifice diameter [mm]	Fluid	Body material	Valve type	Seal material	Electrical entry	Standards
<b>JSXH20 Series</b> 	3/8	15	16	Compressed air Nitrogen Argon Oxygen*1	Brass	N.C.	PUR (Main valve) HNBR (Pilot valve)	Grommet DIN terminal Conduit M12 connector	 
	1/2	17.7							

\*1 When using oxygen, please refer to "Fluid Supply" on page 4.

## Related Equipment

	Description	Max. operating pressure [MPa]	Series	Port size						Web Catalog	
				1/4	1/2	3/8	3/4	1	1 1/4		1 1/2
	High pressure electro-pneumatic regulator	5.0	ITVX			●					
		3.0	ITVH	●		●					
	Pilot operated 3-port solenoid valve	5.0	VCH410		●		●	●			
	Direct operated regulator (Relieving type)	Inlet pressure 6.0 Set pressure 0.5 to 5.0	VCHR30				●	●			
			VCHR40					●		●	
	Silencer	5.0 (Relief valve release pressure: 1.8 MPa)	VCHN3				●	●			
			VCHN4					●	●	●	
	Check valve	5.0	VCHC40				●	●			
	Pressure switch	5.0 (ISE76G) 10.0 (ISE77G) 16.0 (ISE78G) 50.0 (ISE79S)	ISE70□G/79S	●							



# Pilot Operated 2-Port Solenoid Valve JSXH-X1



Differs depending on the voltage and electrical entry. For details, refer to table 10 below.



## How to Order

**JSXH21D-CH04R-5G-D-X1**

1
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12

### 1 Series

Symbol	Series
<b>H</b>	High-pressure/ Pilot operated

### 2 Size

Symbol	Size
<b>2</b>	20

### 3 Valve type

Symbol	Valve type
<b>1</b>	N.C.  2 (OUT) 1 (IN)

### 4 Main valve construction

Symbol	Main valve construction
<b>D</b>	Diaphragm

### 5 Body material

Symbol	Body material
<b>C</b>	Brass

### 6 Seal material

Symbol	Seal material	
	Main valve	Pilot valve
<b>H</b>	PUR	HNBR

### 7 Port size and orifice diameter

Symbol	Port size	Orifice diameter [mmø]
<b>03</b>	3/8	16
<b>04</b>	1/2	

### 8 Thread type

Symbol	Thread type
<b>R</b>	Rc
<b>N</b>	NPT
<b>F</b>	G

### 9 Rated voltage

AC			
Symbol	Rated voltage	Symbol	Rated voltage
<b>1</b>	100 VAC	<b>7</b>	240 VAC
<b>2</b>	200 VAC	<b>8</b>	48 VAC
<b>3</b>	120 (110) VAC	<b>B</b>	24 VAC
<b>4</b>	220 VAC	<b>J</b>	230 VAC

DC	
Symbol	Rated voltage
<b>5</b>	24 VDC
<b>6</b>	12 VDC

### 11 Option

Symbol	Option
<b>Nil</b>	None
<b>D</b>	Oil-free

### 12 Pressure type

Symbol	Specifications
<b>X1</b>	Operating pressure: 0.15 to 4.0 MPa Fluid: Air, Nitrogen, Oxygen, Argon

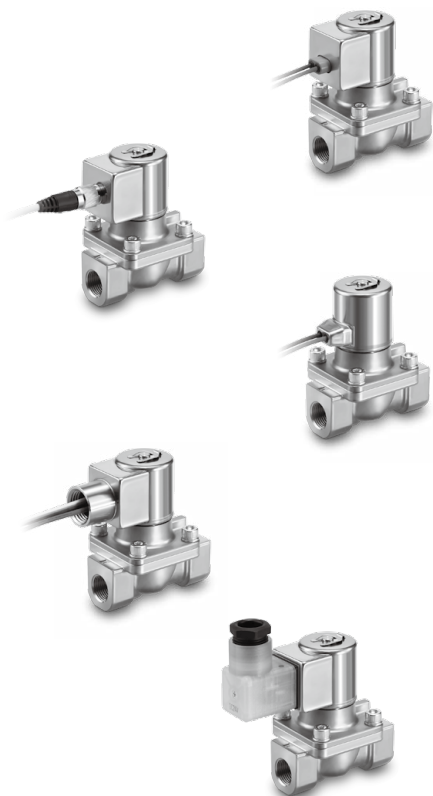
### 10 Electrical entry

Symbol	Electrical entry	CE/UKCA-compliant
<b>G</b>	Grommet*1	24 VDC
		12 VDC
<b>GS</b>	Grommet with PCB (With surge voltage suppressor)	100 VAC
		24 VDC
		12 VDC
		48 VAC
<b>CS</b>	Conduit (With surge voltage suppressor)	24 VAC
		All voltages
<b>DS</b>	DIN terminal (With surge voltage suppressor)	All voltages
		All voltages
<b>DZ</b>	DIN terminal with light (With surge voltage suppressor)	All voltages
		All voltages
<b>DN</b>	Without DIN connector (With surge voltage suppressor)	All voltages
		All voltages
<b>WN</b>	M12 connector/Without connector cable (With surge voltage suppressor)*2	All voltages
		All voltages

\*1 DC voltage only

\*2 A cable for the M12 connector is not included with the product.

## Specifications



Size		20	
<b>Valve construction</b>		Pilot operated diaphragm	
<b>Valve type</b>		Normally closed (N.C.)	
<b>Fluid</b>		Compressed air, Nitrogen, Argon, Oxygen	
<b>Orifice diameter</b>		16 mmø	
<b>Port size</b>		3/8"	1/2"
<b>Flow rate characteristics*1</b>	<b>C [dm<sup>3</sup>/(s·bar)]</b>	15	17.7
	<b>b</b>	0.36	0.22
	<b>Cv</b>	3.9	4.3
<b>Max. operating pressure differential</b>		4.0 MPa	
<b>Min. operating pressure differential</b>		0.15 MPa	
<b>Fluid temperature</b>		-10 to 50°C	
<b>Ambient temperature</b>		-10 to 50°C	
<b>Leakage*1</b>	<b>Internal leakage</b>	1 cm <sup>3</sup> /min or less	
	<b>External leakage</b>		
<b>Thread type</b>		G, Rc, NPT	
<b>Max. system pressure</b>		4.0 MPa	
<b>Proof pressure</b>		6.0 MPa	
<b>Body material</b>		Brass	
<b>Degrees of protection</b>		IP67 (IP65 for the DIN terminal)	
<b>Seal material</b>	<b>Main valve</b>	PUR	
	<b>Pilot valve</b>	HNBR	
<b>Impact/Vibration resistance*2</b>		150/30 m/s <sup>2</sup>	
<b>Mounting orientation</b>		Unrestricted	
<b>Weight*6</b>	<b>Grommet</b>	3/8"	1/2"
		713 g	671 g
<b>Rated voltage</b>	<b>AC</b>	24 V, 48 V, 100 V, 110 V, 120 V 200 V, 220 V, 230 V, 240 V	
	<b>DC</b>	12 V, 24 V	
<b>Allowable voltage fluctuation</b>		±10% of the rated voltage	
<b>Allowable leakage voltage</b>	<b>AC</b>	5% or less of the rated voltage	
	<b>DC</b>	2% or less of the rated voltage	
<b>Apparent power*3, *4</b>	<b>AC</b>	8 VA	
<b>Power consumption*3</b>	<b>DC</b>	6 W	
<b>Temperature rise*5</b>	<b>AC</b>	70°C	
	<b>DC</b>	65°C	
<b>Electrical entry</b>		Grommet type, Conduit terminal DIN terminal, M12 connector	

\*1 The value for air at a differential pressure of 0.15 MPa or higher and an ambient temperature of 20°C

\*2 Impact resistance: No malfunction occurred when tested with a drop tester 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 5 and 2000 Hz. The test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Value in the initial state)

\*3 Power consumption/Apparent power: The value at an ambient temperature of 20°C and when the rated voltage is applied (Variation: ±10%)

\*4 There is no difference in the frequency and the inrush and energized apparent power, since a rectifying circuit is used in the AC.

\*5 Temperature rise: The value at an ambient temperature of 20°C and when the rated voltage is applied. Use this value as a reference as the actual value varies depending on the ambient environment

\*6 The values are for the grommet type. Add 20 g for the grommet type with PCB, 70 g for the conduit type, 50 g for the DIN terminal type, and 15 g for the type without a DIN connector and the M12 connector type.

## Fluid Supply

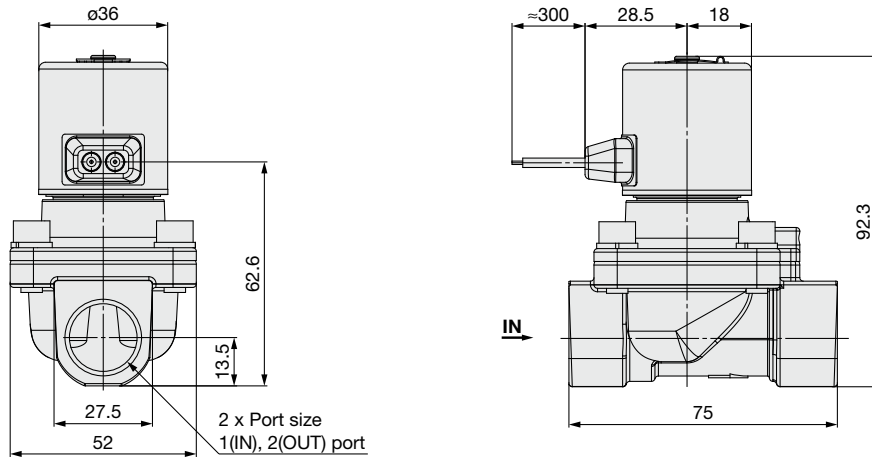
### ⚠ Warning

- Compressed air, nitrogen, argon or oxygen can be used as a fluid.
- Do not use compressed air which includes chemicals, synthetic oils containing organic solvents, salt, or corrosive gases, etc., as this can cause damage or malfunction.
- If oxygen is used as the fluid, it can lead to serious and unforeseen risks. However, it is possible to manage and control the risk of hazards and economic loss. In order to use the product safely, it should only be handled by personnel with appropriate knowledge, with support from a suitably qualified specialist.
- Oxygen gas increases the susceptibility of substances to burning; Oxygen gas can be ignited by frictional heat and static electricity. If oxygen is ignited, the metal and seal materials burn. Therefore, flush the piping thoroughly and mount a suitable filter to prevent foreign matter such as metal powder and dust from entering the product.
- Take safety measures by installing safety devices (e.g. a circuit that stops the supply of oxygen gas) to prevent fire and explosion in the event of failure, taking flameproof safety standards into consideration.

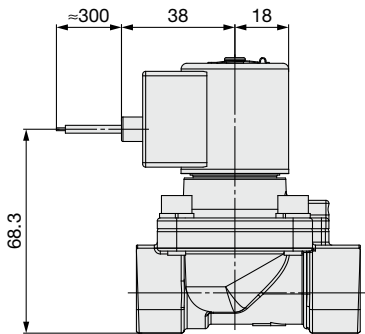
# JSXH-X1

## Dimensions

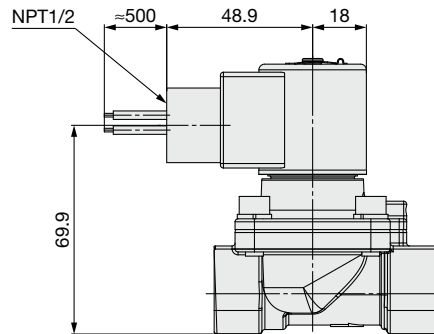
### G: Grommet



### GS: Grommet with PCB

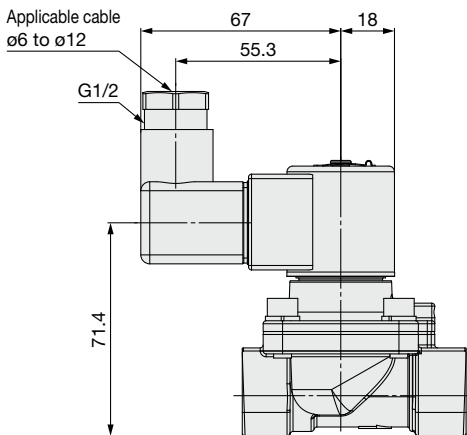


### CS: Conduit

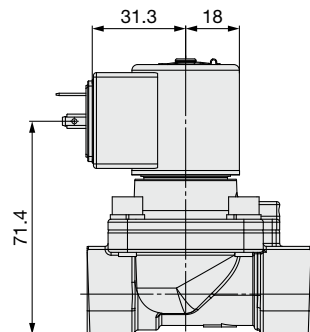


### DS: DIN terminal

### DZ: DIN terminal with light

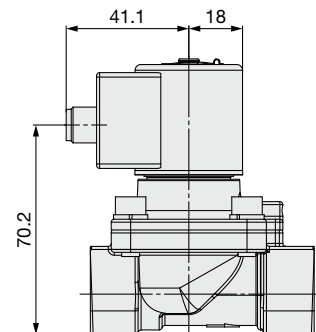


### DN: Without DIN connector




### WN: M12 connector/


### Without connector cable




## 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)\*1), 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 catalog 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 catalogs 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.\*2)  
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 catalog 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 the “Handling Precautions for SMC Products” (M-E03-3) and “Operation Manual” before use.

## SMC Corporation

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Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

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