

For High-Pressure Water RoHS Pilot Operated 2-Port Solenoid Valve

Can be used at up to 10 MPa

For high-pressure washing

For water spraying

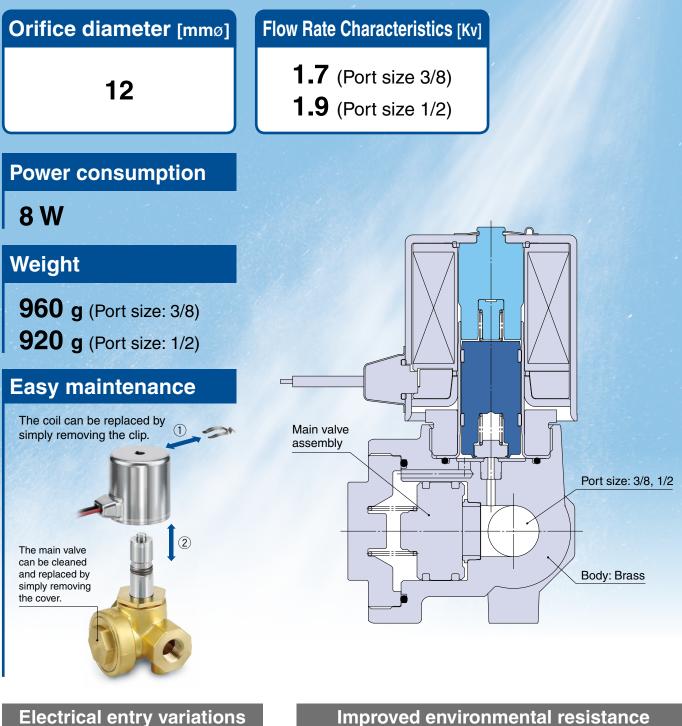
For misting

An **IP67**^{*1} structure with improved environmental resistance

*1 The DIN terminal is IP65.



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







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Conduit

Improved environmental resistance

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

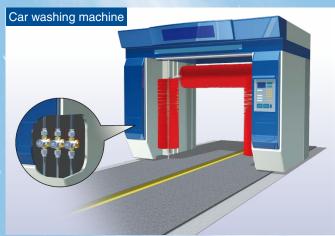


Please contact your local sales representative for more details.



Application Examples

For high-pressure washing



High-pressure cleaning equipment



For water spraying



For misting



For misting





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 **(D)** below.



How to Order

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JSXH<u>31P-CP04</u>R 0080 66

Series

-	
Symbol	Series
н	High-pressure/ Pilot operated

2 Size	
Symbol	Size

3

Symbol

Ρ

6 Seal material

Main valve

PPS

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30

Seal material

Pilot valve

PPS

S Valve type			
Symbol	Valve type		
1	N.C.	2(OUT)	

100 1

X2

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4 Main valve construction			
Symbol Main valve construction			
Р	Piston		

5 Body material

Symbol Body material		
С	C Brass*1	
*1 The orifice material is		

stainless steel.

9 Rated voltage

AC
Symb

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

D Option

-		
Symbol	Option	
Nil	None	
Α	Port facing the opposite direction	

Pressure type

Symbol	Specifications
X2	Operating pressure: 0.1 to 10 MPa Fluid: Water

0 Syn 0 0

Port size and orifice diameter		
nbol Port size Orifice diamete [mmø]		
)3	3/8	12
)4	1/2	12

8	Thread	type
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	• • • • • • • • • • • • • • • • • • • •		
Symbol	Thread type		
R	Rc		
Ν	NPT		
F	G		

D Electrical entry

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

*2 DC voltage only

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



Specifications

Size			30		
	Valve construction		Internal pilot type piston		
Valve specifications	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	
E E	Orifice diameter		12 mmø		
bě	Flow rate	Kv	1.7	1.9	
S S	characteristics	Conversion Cv	2.0	2.2	
N N	Leakage*1	Valve leakage	30 cm ³ /min or less		
>		External leakage	0.1 cm ³ /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		
	Rated voltage		AC	24 V, 48 V, 100 V, 110 V, 120 V, 200 V,	
suo		AC	220 V, 230 V, 240 V		
		DC*4	12 V, 24 V		
ati	Allowable voltage fluctuation		$\pm 10\%$ of the rated voltage		
ific	Allowable	AC	5% or less of the rated voltage		
Coil specifications	leakage voltage	DC	2% or less of the rated voltage		
	Apparent power*5, 6	AC	9.5 VA		
i Si	Power consumption*5	DC	8 W		
0	Temperature AC		70°C		
	rise ^{*7}	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.

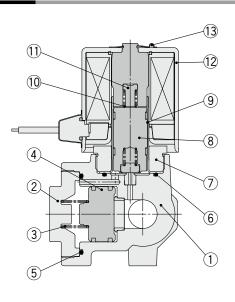
*5 Power consumption/Apparent power: The value at an ambient temperature of 20°C and when the rated voltage is applied (Variation: ±10%)

*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

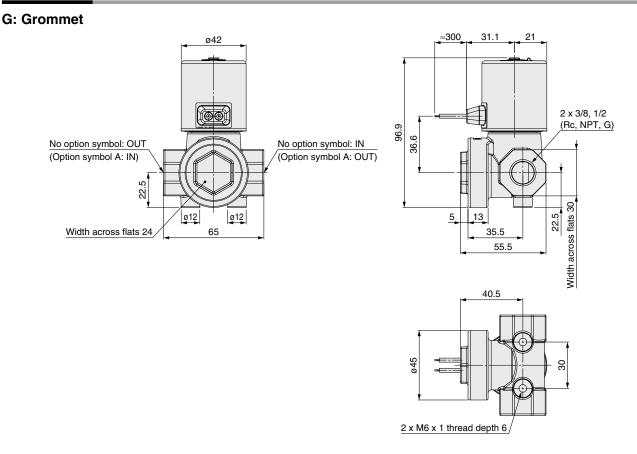


Component Parts

0011								
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					



Dimensions



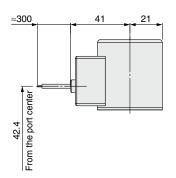
GS: Grommet with PCB

DS: DIN terminal

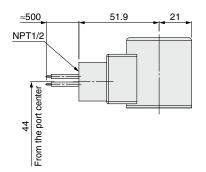
45.5

ø6 to ø12

DZ: DIN terminal with light

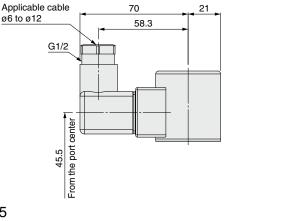


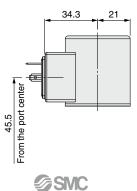
CS: Conduit

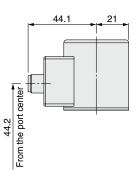


DN: Without DIN connector

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

Marning

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

Marning

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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