

For **Water**
Air
Oil

Direct Operated 2-Port Solenoid Valve 25A-JSX Series

CE UK
CA
Differs depending on the voltage
and electrical entry. For details,
refer to table 8 below.

RoHS

How to Order



25A-JSX **2** **1** - **S** **N** **302** **R** - **5** **G** - **D** - **B**

1 2 3 4 5 6 7 8 9 10

• Series compatible with
secondary batteries

1 Size

Symbol	Size
1	10
2	20
3	30

2 Valve type

Symbol	Valve type
1	N.C.

3 Body material

Symbol	Body material
S	Stainless steel

8 Electrical entry

Symbol	Electrical entry		Size			CE/UKCA-compliant
			10	20	30	
G	Grommet*1		●	●	●	24 VDC
						12 VDC
GS	Grommet with PCB (With surge voltage suppressor)*2		●	●	●	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	DIN terminal without connector (With surge voltage suppressor)		●	●	●	All voltages
WN	M12 connector/ Without connector cable (With surge voltage suppressor)*3		●	●	●	All voltages

4 Seal material

Symbol	Seal material
N	NBR
F	FKM
E	EPDM

6 Thread type

Symbol	Thread type
R	Rc
N	NPT
F	G

7 Rated voltage AC

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

DC

Symbol	Rated voltage
5	24 VDC
6	12 VDC

5 Orifice diameter and port size

Symbol	Orifice diameter [mmø]	Port size	Size		
			10	20	30
101	1.6	1/8	●	—	—
201	2.4	1/8	●	—	—
301	3.2	1/8	—	●	—
302		1/4	—	●	—
303		3/8	—	●	—
402	4.0	1/4	—	●	●
403		3/8	—	●	●
502	5.6	1/4	—	●	●
503		3/8	—	●	●
702	7.1	1/4	—	●	●
703		3/8	—	●	●

9 Oil-free option

Symbol	Option
Nil	None
D	Oil-free

10 Option

Symbol	Option
Nil	None
B	With bracket*1 (Stainless steel)

*1 Refer to the **Web Catalog** for bracket
assembly part nos.

*1 DC voltage only

*2 Although it is possible to manufacture products of any voltage,
only the voltages listed in the table are CE/UKCA compliant.

*3 The cable for the M12 connector is not included, so be sure to order
it separately. In addition, note that the cable in the "Option" section
of the **Web Catalog** is not compatible with products with secondary
battery specifications.

Flow Rate Characteristics

Size	Port size	Orifice diameter [mmø]	Flow rate characteristics*1						Max. operating pressure differential [MPa]	Model	Weight*2
			Air			Water, Oil					[g]
			C [dm³/(s·bar)]	b	Cv	Kv	Conversion Cv	Stainless steel body			
10	1/8	1.6	0.36	0.58	0.08	0.07	0.08	0.9	25A-JSX11-S□101	160	
		2.4	0.62	0.45	0.15	0.13	0.15	0.4	25A-JSX11-S□201	160	
20	1/8	3.2	1.35	0.48	0.35	0.30	0.35	0.7	25A-JSX21-S□301	320	
	1/4	3.2	1.35	0.48	0.35	0.30	0.35	0.7	25A-JSX21-S□302	320	
		4.0	2.02	0.48	0.52	0.45	0.52	0.3	25A-JSX21-S□402	320	
		5.6	2.62	0.43	0.73	0.63	0.73	0.2	25A-JSX21-S□502	320	
		7.1	3.15	0.44	0.88	0.76	0.88	0.1	25A-JSX21-S□702	320	
		3/8	3.2	1.35	0.48	0.35	0.30	0.35	0.7	25A-JSX21-S□303	320
	3/8	4.0	2.02	0.48	0.52	0.45	0.52	0.3	25A-JSX21-S□403	320	
		5.6	2.62	0.43	0.73	0.63	0.73	0.2	25A-JSX21-S□503	320	
		7.1	3.15	0.44	0.88	0.76	0.88	0.1	25A-JSX21-S□703	320	
	30	1/4	4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX31-S□402	450
5.6			2.62	0.43	0.73	0.63	0.73	0.5	25A-JSX31-S□502	450	
7.1			3.15	0.44	0.88	0.76	0.88	0.2	25A-JSX31-S□702	450	
4.0			2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX31-S□403	450	
3/8		5.6	2.62	0.43	0.73	0.63	0.73	0.5	25A-JSX31-S□503	450	
		7.1	3.15	0.44	0.88	0.76	0.88	0.2	25A-JSX31-S□703	450	

*1 The flow rate characteristics of this product vary.

*2 The values were calculated based on the combination of an Rc or NPT thread and a grommet. 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 M12 connector type.

*3 Add 30 g for the G thread (port size 3/8) type.

Applicable Fluid Checklist

Applicable fluid	Seal material		
	NBR	FKM	EPDM
Air	●	●	●
Water	●	●	●
Oil	—	●	—

* The list shows the compatibility
between general fluids and the seal
materials. Consider the operating
environment and application suffi-
ciently before selecting the seal
material. Fluid and component com-
patibility should be checked before
use. If something is not clear, please
contact SMC.

For

Air

Direct Operated 2-Port Solenoid Valve 25A-JSX Series



Differs depending on the voltage and electrical entry. For details, refer to table 8 below.

RoHS

How to Order

25A-JSX **2** **1** - **A** **N** **302** **R** - **5** **G** - **D** - **B**

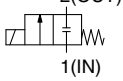
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

• Series compatible with secondary batteries

① Size

Symbol	Size
2	20
3	30

② Valve type

Symbol	Valve type
1	N.C. 

③ Body material

Symbol	Body material
A	Aluminum

④ Seal material

Symbol	Seal material
N	NBR
F	FKM

⑥ Thread type

Symbol	Thread type
R	Rc
N	NPT
F	G

⑤ Orifice diameter and port size

Symbol	Orifice diameter [mmø]	Port size	Size	
			20	30
301	3	1/8	●	—
302		1/4	●	—
402	4	1/4	—	●
403		3/8	—	●
501	5	1/8	●	—
502		1/4	●	—
702	7	1/4	—	●
703		3/8	—	●

⑦ Rated voltage

AC

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

DC

Symbol	Rated voltage
5	24 VDC
6	12 VDC

⑨ Oil-free option

Symbol	Option
Nil	None
D	Oil-free

⑩ Option

Symbol	Option
Nil	None
B	With bracket*1

*1 Bracket assembly part nos.
For size 20: 90-VX021N-12A
For size 30: 90-VX022N-12A



⑧ Electrical entry

Symbol	Electrical entry		Size		CE/UKCA-compliant
			20	30	
G	Grommet*1		●	●	24 VDC
GS	Grommet with PCB (With surge voltage suppressor)*2		●	●	100 VAC
					24 VDC
					12 VDC
					48 VAC
CS	Conduit (With surge voltage suppressor)		●	●	24 VAC
					All voltages
DS	DIN terminal (With surge voltage suppressor)		●	●	All voltages
DZ	DIN terminal with light (With surge voltage suppressor)		●	●	All voltages
DN	DIN terminal without connector (With surge voltage suppressor)		●	●	All voltages
WN	M12 connector/Without connector cable (With surge voltage suppressor)*3		●	●	All voltages

*1 DC voltage only

*2 Although it is possible to manufacture products of any voltage, only the voltages listed in the table are CE/UKCA compliant.

*3 The cable for the M12 connector is not included, so be sure to order it separately. In addition, note that the cable in the "Option" section of the **Web Catalog** is not compatible with products with secondary battery specifications.

Flow Rate Characteristics

Aluminum Body Type

Size	Port size	Orifice diameter [mmø]	Flow rate characteristics*1			Max. operating pressure differential [MPa]	Model	Weight*2 [g]
			C [dm ³ /(s·bar)]	b	Cv			
20	1/8, 1/4	3	1.41	0.54	0.35	0.7	25A-JSX21-A□30□	240
		5	1.66	0.54	0.52	0.2	25A-JSX21-A□50□	240
30	1/4, 3/8	4	1.57	0.59	0.52	1.0	25A-JSX31-A□40□	400
		7	3.02	0.53	0.88	0.2	25A-JSX31-A□70□	400

*1 The flow rate characteristics of this product vary.

*2 Indicates case of 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 M12 connector type.

For **Water**
Air
Oil

High Flow/ Power Saving Type

Direct Operated 2-Port Solenoid Valve

25A-JSX□□U Series

CE UK
CA
Differs depending on the voltage and electrical entry. For details, refer to table 8 below.

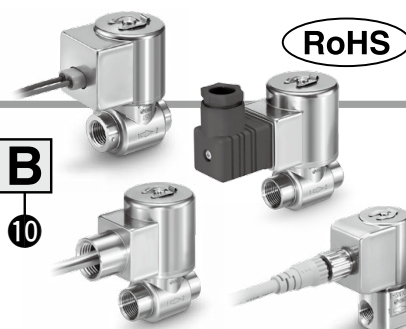
The dimensions are the same as those of the standard JSX series model. Refer to the **Web Catalog** for details.

How to Order

25A-JSX **2** **1** **U** - **S** **N** **403** **R** - **5** **GS** - **D** - **B**

• Series compatible with secondary batteries

U High flow type



RoHS

1 Size

Symbol	Size
1	10
2	20
3	30

2 Valve type

Symbol	Valve type
1	N.C.

3 Body material

Symbol	Body material
S	Stainless steel

8 Electrical entry

Symbol	Electrical entry		Size			CE/UKCA-compliant
			10	20	30	
GS	Grommet with PCB (With surge voltage suppressor)		●	●	●	24 VDC 12 VDC
CS	Conduit (With surge voltage suppressor)		—	●	●	
DS	DIN terminal (With surge voltage suppressor)		●	●	●	
DZ	DIN terminal with light (With surge voltage suppressor)		●	●	●	
DN	DIN terminal without connector (With surge voltage suppressor)		●	●	●	
WN	M12 connector/Without connector cable*1 (With surge voltage suppressor)		●	●	●	

4 Seal material

Symbol	Seal material
N	NBR
F	FKM
E	EPDM

5 Orifice diameter and port size

Orifice diameter and port size					
Symbol	Orifice diameter [mmø]	Port size	Size		
			10	20	30
201	2.4	1/8	●	—	—
402	4.0	1/4	—	●	—
403		3/8	—	●	—
702	7.1	1/4	—	●	●
703		3/8	—	●	●

6 Thread type

Symbol	Thread type
R	Rc
N	NPT
F	G

7 Rated voltage

Symbol	Rated voltage
5	24 VDC
6	12 VDC

9 Oil-free option

Symbol	Option
Nil	None
D	Oil-free

10 Option

Symbol	Option
Nil	None
B	With bracket*1 (Stainless steel)

*1 Refer to the **Web Catalog** for bracket assembly part nos.

*1 The cable for the M12 connector is not included, so be sure to order it separately. In addition, note that the cable in the "Option" section of the **Web Catalog** is not compatible with products with secondary battery specifications.

* A grommet type is not available.

Flow Rate Characteristics

Size	Port size	Orifice diameter [mmø]	Flow rate characteristics*1						Max. operating pressure differential [MPa]	Model	Weight*2
			Air			Water, Oil					[g]
			C	b	Cv	Kv	Conversion Cv	Stainless steel body*3			
10	1/8	2.4	0.62	0.45	0.15	0.13	0.15	0.9	25A-JSX11U-S□201	180	
20	1/4	4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX21U-S□402	340	
		7.1	3.15	0.44	0.88	0.76	0.88	0.4	25A-JSX21U-S□702	340	
	3/8	4.0	2.02	0.48	0.52	0.45	0.52	1.0	25A-JSX21U-S□403	340	
		7.1	3.15	0.44	0.88	0.76	0.88	0.4	25A-JSX21U-S□703	340	
30	1/4	7.1	3.15	0.44	0.88	0.76	0.88	0.8	25A-JSX31U-S□702	470	
	3/8	7.1	3.15	0.44	0.88	0.76	0.88	0.8	25A-JSX31U-S□703	470	

*1 The flow rate characteristics of this product vary.

*2 The values were calculated based on the combination of an Rc or NPT thread and a grommet with PCB. Add 50 g for the conduit type, 30 g for the DIN terminal type, and -5 g for the M12 connector type.

*3 Add 30 g for the G thread (port size 3/8) type.

Applicable Fluid Checklist

Applicable fluid	Seal material		
	NBR	FKM	EPDM
Air	●	●	●
Water	●	●	●
Oil	—	●	—

* The list shows the compatibility between general fluids and the seal materials. Consider the operating environment and application sufficiently before selecting the seal material. Fluid and component compatibility should be checked before use. If something is not clear, please contact SMC.

Pulse Valve Valve for Dust Collector

Solenoid Valve Type

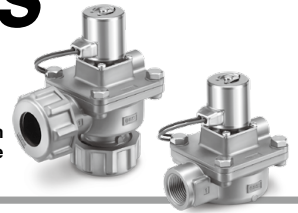


Differs depending on the voltage and electrical entry

RoHS

25A-JSXF Series

Compression fitting type



Direct piping type



Immersion type

How to Order

Compression	25A-JSXF		E	-06	R	-5	CS	B	-S		
Direct Piping	25A-JSXF		F	-06	R	-5	CS	B	-S		
Immersion	25A-JSXF		H	4	-06	R	1	-5	CS	B	-S

• Series compatible with secondary batteries

1

2

3

4

5

6

7

8

9

10

• Series compatible with secondary batteries

1 Valve type

Nil	Solenoid valve
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2 Piping

E	Compression fitting type*1	
F	Direct piping type	
H	Immersion type*2	

*1 Seals and washers are included.

*2 The valve and pipe do not come assembled.

3 Tank size (JSXFH only)

4	4 inch
5	5 inch
6	6 inch
8	8 inch
10	10 inch

4 Port size*1

06	3/4 (20A)
10	1 (25A)
14	1 1/2 (40A)
20*2	2 (50A)

*1 For port size selection, refer to the "Variations for Port Size and Option" table below.

*2 Port size 20 is only available for the JSXFH.

5 Thread type

R	Rc
N	NPT
F	G

6 OUT port piping configuration (JSXFH only)

Symbol	Length	G thread	Appearance
1	Short	None	
2	Long		
3	Short	Yes	
4	Long		

7 Rated voltage

Symbol	Rated voltage
1	100 VAC
2	200 VAC
3	120 VAC (110 VAC)
4	220 VAC
7	240 VAC
J	230 VAC

DC

Symbol	Rated voltage
5	24 VDC

8 Electrical entry

Symbol	Electrical entry	CE/UKCA-compliant
G	Grommet*1	24 VDC
GS	Grommet with PCB (With surge voltage suppressor)	100 VAC 24 VDC
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	DIN terminal without connector (With surge voltage suppressor)	All voltages
WN	M12 connector*2 (With surge voltage suppressor)	All voltages

*1 Only 24 VDC can be selected for the rated voltage.

*2 The cable for the M12 connector is not included, so be sure to order it separately. In addition, note that the cable in the "Option" section of the **Web Catalog** is not compatible with products with secondary battery specifications.

9 Fluid and ambient temperatures

B	-40 to 60°C
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10 Silencer

Nil	Without
S	With

Shipped together with the product
Refer to "Replacement Parts" in the **Web Catalog**.



Made to Order

Tank hole dia.: ø76 (Port size 14, 6-inch tank)	p. 288-4
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Variations for Port Size and Option

Model	Tank size	Port size			
		06	10	14	20
JSXFE	—	●	●	●	—
JSXFF	—	●	●	●	—
JSXFH	4 inch	●	—	—	—
	5 inch	●	●	—	—
	6 inch	—	●	●	—
	8 inch	—	—	●	●
	10 inch	—	—	—	●
Silencer		●	●	●	●

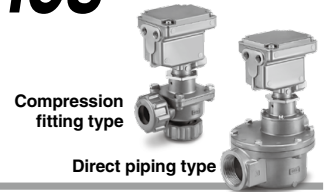
Pulse Valve

SMARTVENT Type

25A-JSXF-P□ Series



RoHS



How to Order

Compression	25A	-	JSXF		E	-	06	R	-	5	PR	B	-	S	2		
Direct Piping	25A	-	JSXF		F	-	06	R	-	5	PR	B	-	S	2		
Immersion	25A	-	JSXF		H	4	-	06	R	1	-	5	PR	B	-	S	2

• Series compatible with secondary batteries



1 Valve type

Nil	Solenoid valve
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2 Piping

E	Compression fitting type*1	
F	Direct piping type	
H	Immersion type*2	

*1 Seals and washers are included.

*2 The valve and pipe do not come assembled.

3 Tank size (JSXFH only)

4	4 inch
5	5 inch
6	6 inch
8	8 inch
10	10 inch

4 Port size*1

06	3/4 (20A)
10	1 (25A)
14	1 1/2 (40A)
20*2	2 (50A)

*1 For port size selection, refer to the "Variations for Port Size and Option" table below.

*2 Port size 20 is only available for the JSXFH.

5 Thread type

R	Rc
N	NPT
F	G

6 OUT port piping configuration (JSXFH only)

Symbol	Length	G thread	Appearance
1	Short	None	
2	Long		
3	Short	Yes	
4	Long		

7 Rated voltage

Symbol	Rated voltage
5	24 VDC

8 Electric control

Symbol	Board type	M12 connector	External input (Differential pressure sensor)
PP*1	Base	—	● 3 holes
PB	Remote	—	— 2 holes
PR	Base	—	—
PBW*1,2	Base	●	(●) 2 holes
PRW*2	Remote	—	—

*1 When using a differential pressure sensor (provided by the customer), select PP or PBW for the base valve. For base valves with an M12 connector, select PBW regardless of whether or not there is a differential pressure sensor. Either can be used. Use a 2-wire type 4 to 20 mA specification differential pressure sensor.

*2 Use a straight wiring cable.

9 Fluid and ambient temperatures

B	-40 to 60°C
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10 Silencer

Nil	Without
S	With

• Shipped together with the product
• 2 pcs. for 40A and 50A
Refer to "Replacement Parts" in the **Web Catalog**.

11 Electrical entry

Nil	IN side	
2	180° Inverted	

• It can be changed by the customer.
For details, refer to the **Web Catalog**.

Variations for Port Size and Option

Model	Tank size	Port size			
		06	10	14	20
JSXFE	—	●	●	●	—
JSXFF	—	●	●	●	—
JSXFH	4 inch	●	—	—	—
	5 inch	●	●	—	—
	6 inch	—	●	●	—
	8 inch	—	—	●	●
	10 inch	—	—	—	●
Silencer		●	●	●	●



Made to Order

Tank hole dia.: ø76 (Port size 14, 6-inch tank)	p. 288-4
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For more information on using SMARTVENT types, refer to the operation manual. Download it from our website: <https://www.smcworld.com>

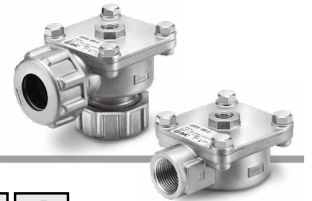
Pulse Valve Valve for Dust Collector

Air Operated Type

RoHS

25A-JSXFA Series

Compression fitting type



Direct piping type



Immersion type

How to Order

Compression	25A-JSXFAE	-06R	-B-	1
Direct Piping	25A-JSXFAF	-06R	-B-	1
Immersion	25A-JSXFAH4	-06R1	-B-	1

• Series compatible with secondary batteries

1 2 3 4 5 6 7 8 9

1 Valve type

A	Air operated
---	--------------

2 Piping

E	Compression fitting type*1	
F	Direct piping type	
H	Immersion type*2	

*1 Seals and washers are included.

*2 The valve and pipe do not come assembled.

3 Tank size (JSXFAH only)

4	4 inch
5	5 inch
6	6 inch
8	8 inch
10	10 inch

5 Thread type

R	Rc
N	NPT
F	G

8 Silencer

(Only port size 14 and 20 can be selected.)

Nil	Without
S	With

Shipped together with the product
Refer to "Replacement Parts" in the Web Catalog.

9 Pilot port size

Nil	1/4
1	1/8

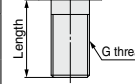
4 Port size*1

06	3/4 (20A)
10	1 (25A)
14	1 1/2 (40A)
20*2	2 (50A)

*1 For port size selection, refer to the "Variations for Port Size and Option" table below.

*2 Port size 20 is only available for the JSXFAH.

6 OUT port piping configuration (JSXFAH only)

Symbol	Length	G thread	Appearance
1	Short	None	
2	Long		
3	Short	Yes	
4	Long		

7 Fluid and ambient temperatures

B	-40 to 60°C
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Made to Order

Tank hole dia.: ø76 (Port size 14, 6-inch tank)	p. 288-4
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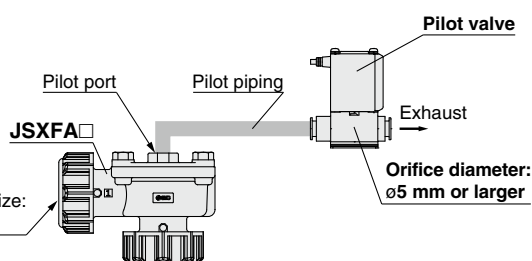
⚠ Caution

Pilot Valve Selection (JSXFA series common)

For the pilot valve orifice diameter, ø5 mm or larger is recommended. The product may not operate correctly if the pilot valve orifice diameter is inadequate. (Port size: 3/4, 1)

Depending on the pilot piping port size*1 or length, the valve may not operate correctly.

*1 The I.D. of the pilot piping must be larger than the pilot valve orifice diameter to use. The max. pilot piping I.D. is 10 mm.



* The figure shows the JSXFAE.

Made to Order (JSXFA series common)

When the pilot valve orifice diameter is ø3 mm or larger and less than ø5 mm, put "A" to the end of the product number for made-to-order.

Pilot valve orifice diameter: Special specification

A	For ø3 mm to ø5 mm	Port size: 06, 10
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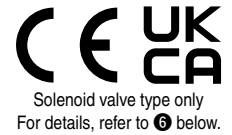
JSXFA □ - □ - B - □ □ A

Enter the standard product number.

Variations for Port Size and Option

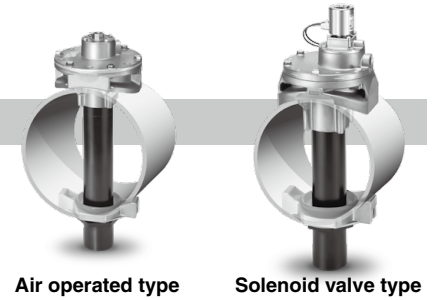
Model	Tank size	Port size			
		06	10	14	20
JSXFAE	—	●	●	●	—
JSXFAF	—	●	●	●	—
JSXFAH	4 inch	●	—	—	—
	5 inch	●	●	—	—
	6 inch	—	●	●	—
	8 inch	—	—	●	●
	10 inch	—	—	—	●
Pilot valve orifice		●	●	—	—
Silencer		—	—	●	●

Immersion Type JSXF/JSXFA Series Made to Order



1 Tank Hole Diameter: $\phi 76$

How to Order



Solenoid Valve Type

25A - JSXFH6C-14N1-5GB-S

SMARTVENT Type

25A - JSXFH6C-14N1-5PRB-S2

Air Operated Type

25A - JSXFAH6C-14N1-B-S1

• Series compatible with secondary batteries

1 Valve type

6C	6 inch Tank hole dia. $\phi 76$
----	------------------------------------

5 Rated voltage AC

Symbol	Rated voltage
1	100 VAC
2	200 VAC
3	120 VAC (110 VAC)
4	220 VAC
7	240 VAC
J	230 VAC

DC

Symbol	Rated voltage
5	24 VDC

7 Fluid and ambient temperatures

B	-40 to 60°C
---	-------------

8 Silencer

Nil	Without
S	With

9 Pilot port size (Air operated type)

Nil	1/4
1	1/8

9 Electrical entry (SMARTVENT type)

Nil	IN side
2	180° Inverted

It can be changed by the customer.
For details, refer to the **Web Catalog**.

The specifications and replacement parts are the same as those of the standard model.
For details, refer to the **Web Catalog**.
Add 140 g to the weight of each.

2 Port size

14	1 1/2 (40A)
----	-------------

3 Thread type

R	Rc
N	NPT
F	G

6 Rated voltage (Solenoid valve type) Electric control (SMARTVENT type)

Symbol	Rated voltage/Electric control	CE/UKCA-compliant	Type	Symbol	Rated voltage/Electric control	CE/UKCA-compliant	Type
G	Grommet*1	24 VDC	Solenoid valve	WN	M12 connector*2 (With surge voltage suppressor)	All voltages	Solenoid valve
GS	Grommet with PCB (With surge voltage suppressor)	100 VAC 24 VDC		PP*3	Base, 3 holes*1	24 VDC	SMARTVENT
CS	Conduit (With surge voltage suppressor)	All voltages		PB	Base, 2 holes*1	24 VDC	
DS	DIN terminal (With surge voltage suppressor)	All voltages		PR	Remote, 2 holes*1	24 VDC	
DZ	DIN terminal with light (With surge voltage suppressor)	All voltages		*3, *4 PBW	Base/M12 connector, 2 holes	24 VDC	
DN	DIN terminal without connector (With surge voltage suppressor)	All voltages		*4 PRW	Remote/ M12 connector, 2 holes	24 VDC	

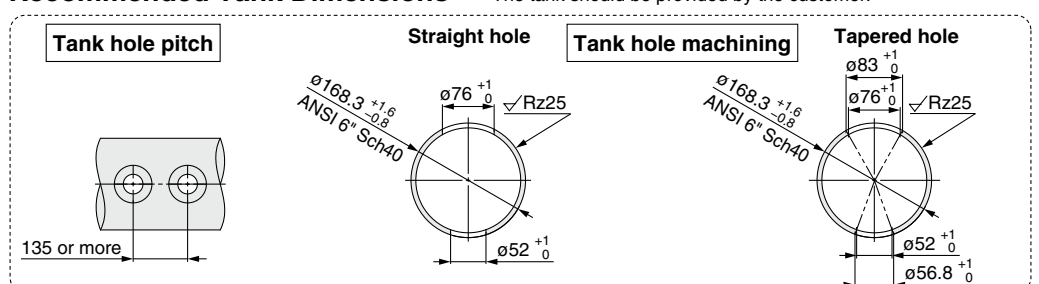
*1 Only 24 VDC can be selected for the rated voltage.

*2 The cable for the M12 connector is not included, so be sure to order it separately. In addition, note that the cable in the "Option" section of the **Web Catalog** is not compatible with products with secondary battery specifications.

*3 When using a differential pressure sensor (provided by the customer), select PP or PBW for the base valve. For base valves with an M12 connector, select PBW regardless of whether or not there is a differential pressure sensor. Either can be used. Use a 2-wire type 4 to 20 mA specification differential pressure sensor.

*4 Use a straight wiring cable.

Recommended Tank Dimensions * The tank should be provided by the customer.

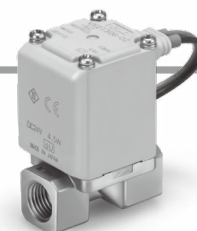


Direct Operated 2-Port Solenoid Valve 25A-VX21/22/23 Series

 For Air Single Unit



How to Order (Single Unit)



Common Specifications

Valve type	N.C.
Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

25A - VX2 1 0 A A

Series compatible with
secondary batteries

Fluid

0 For air

Size/Valve type

Symbol	Size	Valve type	Symbol	Body material	Port size	Orifice diameter
1	Size 1	Single unit N.C.	A	Aluminum	1/8	2
			B			3
			C			5
			D		1/4	2
			E			3
			F			5
			H	Resin	ø6 One-touch fitting	2
			J			3
			K			5
			L		ø8 One-touch fitting	2
			M			3
			N			5

2	Size 2	Single unit N.C.		A	Aluminum	1/4	4
				B			7
				D		3/8	4
				E			7
				H	Resin	ø8 One-touch fitting	4
				J			7
				L		ø10 One-touch fitting	4
				M			7

3	Size 3	Single unit N.C.		A	Aluminum	1/4	5
				B			8
				C			10
				D		3/8	5
				E			8
				F			10
				G		1/2	10
				H	Resin	ø10 One-touch fitting	5
				J			8
				K			10
				L		ø12 One-touch fitting	5
				M			8
				N			10

For other special options, refer to the standard products.

Special voltage	24 VAC	Low concentration ozone resistant (Seal material: FKM) Seal material: EPDM Oil-free G thread NPT thread With bracket (Aluminum body only) Mounting holes on the bottom side of the body (Aluminum body only) Special electrical entry direction
	48 VAC	
	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with light		
Conduit terminal with light		
Without DIN connector		

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

Voltage/Electrical entry

Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
	100 VAC	Grommet (With surge voltage suppressor)
	110 VAC	
	200 VAC	
E	230 VAC	DIN terminal (With surge voltage suppressor)
F	24 VDC	
G	24 VDC	
H	100 VAC	
J	110 VAC	Conduit terminal (With surge voltage suppressor)
K	200 VAC	
L	230 VAC	
M	24 VDC	
N	100 VAC	Conduit (With surge voltage suppressor)
P	110 VAC	
Q	200 VAC	
R	230 VAC	
S	24 VDC	Flat terminal
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	Other voltages and electrical options
Y	24 VDC	
Z		

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Direct Operated 2-Port Solenoid Valve 25A-VX21/22/23 Series



For Water Single Unit

For Medium Vacuum Single Unit



How to Order (Single Unit)

25A – VX2 1 4 H A

Series compatible with
secondary batteries

Fluid

2	For water
4	For medium vacuum

Size/Valve type

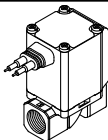
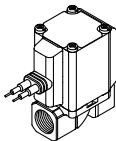
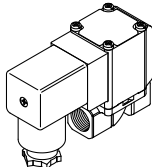
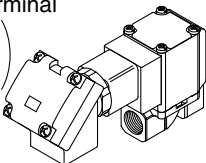
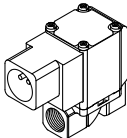
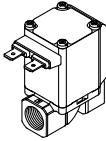
Symbol	Size	Valve type	Symbol	Body material	Port size	Orifice diameter
1	Size 1	Single unit N.C.	H	Stainless steel	1/8	2
			J			3
			K			5
			L		1/4	2
			M			3
			N			5
2	Size 2	Single unit N.C.	H	Stainless steel	1/4	4
			J		3/8	7
			L			4
			M			7
3	Size 3	Single unit N.C.	H	Stainless steel	1/4	5
			J			8
			K			10
			L		3/8	5
			M			8
			N			10
			P		1/2	10

Body material/Port size/Orifice diameter

Common Specifications

Valve type	N.C.
Seal material	NBR (For water) FKM (For medium vacuum)
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry

Symbol	Voltage	Electrical entry
A	24 VDC	Grommet 
B	100 VAC	Grommet (With surge voltage suppressor) 
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal (With surge voltage suppressor) 
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal (With surge voltage suppressor) 
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	
S	24 VDC	Conduit (With surge voltage suppressor) 
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	Flat terminal 
Z	Other voltages and electrical options	

For other special options, refer to the standard products.

Special voltage	24 VAC	Applicable to deionized water (Seal material: FKM) Seal material: EPDM Oil-free G thread NPT thread With bracket Mounting holes on the bottom side of the body Special electrical entry direction
	48 VAC	
	220 VAC	
	240 VAC	
	12 VDC	
DIN terminal with light		
Conduit terminal with light		
Without DIN connector		

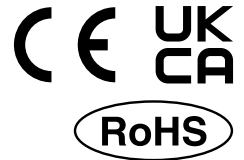
* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product.
Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Pilot Operated 2-Port Solenoid Valve For Air

25A-VXD Series



How to Order

25A - VXD2 3 0 A A

Series compatible with
secondary batteries

Fluid

0 For Air

Size—Valve type

Symbol	Size	Valve type
3	8A	N.C.
A	10A	N.O.
	15A	N.O.
4	10A	N.C.
B	15A	N.O.
5	20A	N.C.
C		N.O.
6	25A	N.C.
D		N.O.

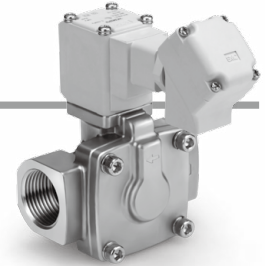
Body material/Port size/Orifice diameter

Symbol	Body material	Port size	Orifice diameter
A	Aluminum	1/4	10
B		3/8	
C		1/2	
J	Stainless steel	3/8	15
K		1/2	
M	Stainless steel	3/4	20
P	Stainless steel	1	25

All other special options are the same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Low concentration ozone resistant (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket	
Special electrical entry direction	

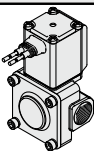
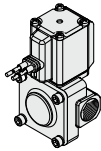
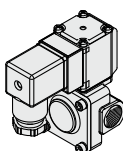
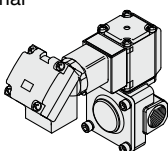
* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry

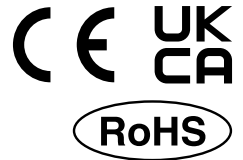
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet 
B	100 VAC	Grommet (With surge voltage suppressor) 
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	DIN terminal (With surge voltage suppressor) 
G	24 VDC	
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	Conduit terminal (With surge voltage suppressor) 
M	24 VDC	
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	Conduit (With surge voltage suppressor) 
S	24 VDC	
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	Flat terminal 
Y	24 VDC	
Z	Other special options	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Pilot Operated 2-Port Solenoid Valve For Water

25A-VXD Series



How to Order

25A - VXD2 3 2 D A

Series compatible with
secondary batteries

Fluid

2 For Water

Size—Valve type

Symbol	Size	Valve type
3	8A	N.C.
A	10A	N.O.
	15A	N.O.
4	10A	N.C.
B	15A	N.O.
5	20A	N.C.
C		N.O.
6	25A	N.C.
D		N.O.

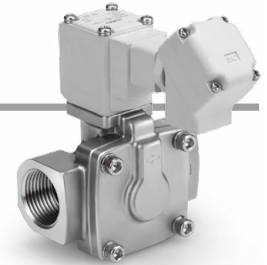
Body material/Port size/Orifice diameter

Symbol	Body material	Port size	Orifice diameter
D	Stainless steel	1/4	10
E		3/8	
F		1/2	
J	Stainless steel	3/8	15
K		1/2	
M	Stainless steel	3/4	20
P	Stainless steel	1	25

All other special options are the same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Applicable to deionized water (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket	
Special electrical entry direction	

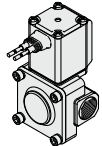
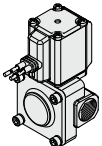
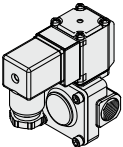
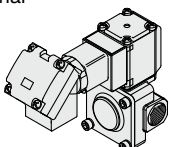
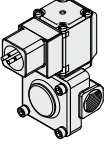
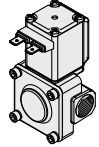
* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.



Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

Voltage/Electrical entry

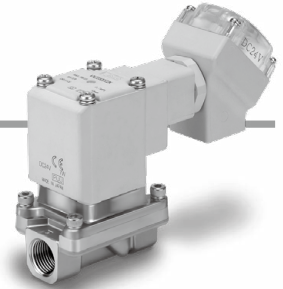
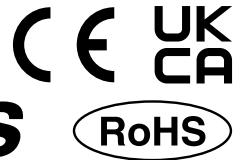
Symbol	Voltage	Electrical entry
A	24 VDC	Grommet 
B	100 VAC	Grommet (With surge voltage suppressor) 
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal (With surge voltage suppressor) 
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal (With surge voltage suppressor) 
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	
S	24 VDC	Conduit (With surge voltage suppressor) 
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	Flat terminal 
Z	Other voltages and electrical option	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Air

25A-VXZ Series



How to Order (Single Unit)

25A - VXZ2 3 0 A A

Series compatible with
secondary batteries

Fluid

0 For Air

Size/Valve type

Symbol	Body size	Valve type	Symbol	Body material	Port size	Orifice diameter
3	10A	N.C.	A	Aluminum	1/4	10
A		N.O.	B		3/8	
4	15A	N.C.	G	Stainless steel	1/2	15
B		N.O.	J		3/4	
5	20A	N.C.	L	Stainless steel	1	25
C		N.O.				
6	25A	N.C.				
D		N.O.				

Body material/Port size/Orifice diameter

Voltage/Electrical entry

Symbol	Voltage	Electrical entry
A	24 VDC	Grommet
B	100 VAC	Grommet (With surge voltage suppressor)
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	DIN terminal (With surge voltage suppressor)
G	24 VDC	
H	100 VAC	
J	110 VAC	
K	200 VAC	Conduit terminal (With surge voltage suppressor)
L	230 VAC	
M	24 VDC	
N	100 VAC	
P	110 VAC	Conduit (With surge voltage suppressor)
Q	200 VAC	
R	230 VAC	
S	24 VDC	
T	100 VAC	Flat terminal
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	
Z		Other voltages

All other special options are the same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Low concentration ozone resistant (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket (Standard for resin body)	
Special electrical entry direction	

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Zero Differential Pressure Type Pilot Operated 2-Port Solenoid Valve/For Water

25A-VXZ Series



How to Order (Single Unit)

25A - VXZ2 3 2 C A

Series compatible with
secondary batteries

Fluid

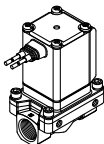
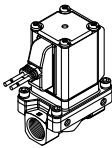
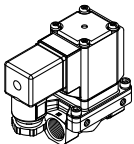
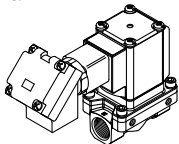
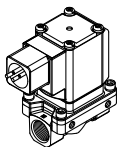
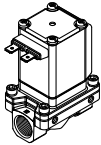
2 For Water

Size/Valve type

Symbol	Body size	Valve type	Symbol	Body material	Port size	Orifice diameter
3	10A	N.C.	C	Stainless steel	1/4	10
A		N.O.	D		3/8	
4	15A	N.C.	G	Stainless steel	1/2	15
B		N.O.				
5	20A	N.C.	J	Stainless steel	3/4	20
C		N.O.				
6	25A	N.C.	L	Stainless steel	1	25
D		N.O.				

Body material/Port size/Orifice diameter

Voltage/Electrical entry

Symbol	Voltage	Electrical entry
A	24 VDC	Grommet 
B	100 VAC	Grommet (With surge voltage suppressor) 
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	DIN terminal (With surge voltage suppressor) 
G	24 VDC	
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	Conduit terminal (With surge voltage suppressor) 
M	24 VDC	
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	Conduit (With surge voltage suppressor) 
S	24 VDC	
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	Flat terminal 
Y	24 VDC	
Z	Other voltages	

All other special options are the same as those of the standard model.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Applicable to deionized water (Seal material: FKM)	
Seal material: EPDM	
Oil-free	
G thread	
NPT thread	
With bracket	
Special electrical entry direction	

* Using the oil-free specification in a low dew point environment may result in the reduced service life of the product. Please monitor the actual device in a low dew point environment in order to determine the actual service life of the product.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).