

Angle Seat Valve/ Air Operated Type

Long service life



10 million cycles

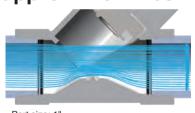
Steam

3 million cycles

* Based on SMC's test conditions (for JSB21)

Large flow rate

Cv factor: approx. 2.5 times



* Port size: 1"

Compact



Low leakage

Internal leakage

1 cm³/min or less

JSB Series



Size	Port size	Cv factor	Body material	Fluid temp	erature [°C]
0120	1 011 3120	Oviación	Body material	Water, Air	Steam
1	3/8 (10A)	5.0			
2	1/2 (15A)	8.0			
3	3/4 (20A)	16.0	Ctainless		
4	1" (25A)	29.1	Stainless steel 316L	99 or less	183 or less
5	1 1/4" (32A)	41.3	equivalent		
6	1 1/2" (40A)	59.5			
7	2" (50A)	87.5			

seat structure!

All-in-One



Clean design

Smooth head surface (Material: Stainless steel 304)

Temperature °C

Fluid temperature [°C]	Ambient temperature [°C]
Steam: 183 or less Water, Air: 99 or less	0 to 60

No freezing

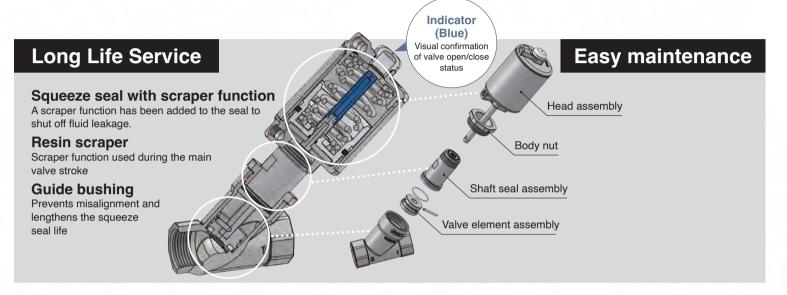
Options

Fittings for Pilot Port

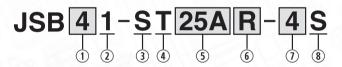
- Metal One-touch Fittings KQB2 Series
- Stainless Steel 316 One-touch Fittings KQG2 Series

For Breathing Port

- Sintered Metal Element (Stainless Steel) ESKA Series
- Metal One-touch Fittings KQB2 Series
- Stainless Steel 316 One-touch Fittings KQG2 Series



How to Order



1) Valve size

O 1011	y varvo dizo				
Symbol	Series				
1	10				
2	20				
3	30				
4	40				
5	50				
6	60				
7	70				

2 Valve type

Valve type				
N.C.				
dy material				
Material				
Stainless steel				
l material				
Material				
Fluororesin				

6 Thread type

Symbol	Thread type
R	Rc
N	NPT
F	G

* The pilot and breathing ports have the same thread type as the main port.

8 Head material

Symbol	Material
S	Stainless steel

5 Port size

Cumbal	Port size		(1) V	alve	size	9	
Symbol	Fort Size	1	2	3	4	5	6	7
10A	3/8	•		W	8			
15A	1/2	Ŋ.,	•	14			-3	
20A	3/4	///	Y	•	-	1	5	
25A	\(\) 1		W		•			1
32A	1 1/4	14	1	-		•		-
40A	1 1/2		1			/	•	1
50A	2	8		1		1	80	•
					_			_

1 Head size

Symbol	Bore size		(1) Va	alve	size	Э	
Symbol	DOI'E SIZE	1	2	3	4	5	6	7
2	ø40	•	•		4			
3	ø50		1	•	3	1	In	1
4	ø63	10		16	•	33	3	2
5	ø80	111	A	- 10		•		
6	ø100	11	1				•	
7	ø125	11/1		نزر	K	7	- 3	

Standard Specifications

Suc	Valve construction	Air operated piston type
ification	Max Operating Pressure	1.0 MPa
ific	Withstand pressure	2.4 MPa
speci	Body material	Stainless steel 316L equivalent
/e s	Seal material	Fluororesin
Valve	Environment	Location without corrosive or explosive gases

Flow Rate Characteristics N.C. (Normally closed)

\/al ai=-	Dawk aire	Flow rate characteristics*		
Valve size	Port size	Kv	Cv	
1	3/8 (10A)	4.3	5.0	
2	1/2 (15A)	6.9	8.0	
3	3/4 (20A)	13.8	16.0	
4	1" (25A)	25.2	29.1	
5	1 1/4" (32A)	35.7	41.3	
6	1 1/2" (40A)	51.5	59.5	
7	2" (50A)	75.7	87.5	

- *1 The values are based on SMC's measurement conditions (JIS B 2005-1:2012)
- * When using steam as fluid, see page 7 for selecting the pilot piping option.





All reasonable efforts to ensure the accuracy of the information detailed in this catalog were made at the time of publishing. However, SMC can in no way warrant the information herein contained as specifications are subject to change without notice.

