



Dry Fine System/high purity gas control system components
Catalog No. CB-035A

Air operated valve for high vacuum NC

AVB*13 Series

- Molded bellows
- Stainless steel compact body

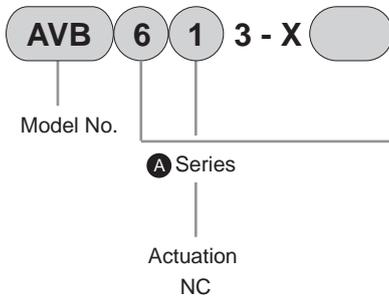


Specifications

Descriptions	AVB513	AVB613	AVB713	AVB813
Working fluid	Vacuum and inert gas			
Working pressure Pa (abs)	1.3 x 10 ⁻⁶ to 1x10 ⁵			
Max. working differential pressure MPa	0.1			
Valve seat leakage Pa·m ³ /s (He)	1.3 x 10 ⁻¹⁰ or less			
External leakage Pa·m ³ /s (He)	1.3 x 10 ⁻¹¹ or less			
Proof pressure MPa	0.3			
Fluid temperature °C	5 to 60			
Ambient temperature °C	0 to 60 (no freezing)			
Orifice size mm	ø24	ø40	ø50	ø80
Stroke length mm	10	20	22	32
Conductance *1 ℓ/s	13	52	80	242
Connection	NW25	NW40	NW50	NW80
Operating pressure MPa	0.4 to 0.6			
JIS symbol	 NC			

*1: The conductance value is the theoretical calculation value in the molecular region, and not the actual measured value.
*2: Grease for vacuum is applied to the O-rings of outer seal parts.

How to order



Code	Content
A Series	
5	Orifice size ø24
6	Orifice size ø40
7	Orifice size ø50
8	Orifice size ø80

⚠ Precautions for model No. selection

- *1: The switch must be ordered separately
- *2: Refer to Intro Pages 23 to 26 for switches.
- *3: Made to order. Contact CKD Sales for details.

Compatibility table by variation

	AVB**3
Port size	NW25,NW40,NW50,NW80
P4	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

Note: Use after checking the compatibility of the working fluid with the gas-contacting materials.



Dry Fine System/high purity gas control system components
Catalog No. CB-035A

For high vacuum Air operated valve NC

AVB*17 Series

● Molded bellows, Aluminum body



P4
Series

Specifications

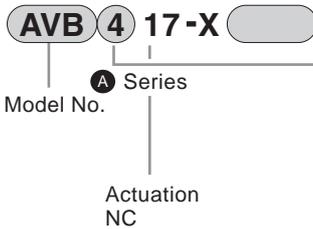
Item	AVB217	AVB3 17	AVB417	AVB517	AVB617
Working fluid	Vacuum and inert gas				
Working pressure Pa (abs)	1.3×10^{-6} to 1×10^{-5}				
Max. working differential pressure MPa	0.1				
Valve seat leakage $\text{Pa} \cdot \text{m}^3 / \text{s}$ (He)	1.3×10^{-10} or less				
External leakage $\text{Pa} \cdot \text{m}^3 / \text{s}$ (He)	1.3×10^{-11} or less				
Proof pressure MPa	0.3				
Fluid temperature °C	5 to 60 (5 to 150) *1				
Ambient temperature °C	0 to 60 (no freezing)				
Orifice size mm	ø17	ø24	ø39	ø48	ø68
Conductance *2 l/s	5	13	43	74	166
Connection	NW16	NW25	NW40	NW50	NW63
Operating pressure MPa	0.4 to 0.6				
Weight kg	0.4	0.5	1.2	2.0	3.5
JIS symbol					

*1: The values in () are for high temperature specifications.

*2: The conductance value is the theoretical calculation value in the molecular region, and not the actual measured value.

*3: Grease for vacuum is applied to the O-rings of outer seal parts.

How to order



Code	Description
A Series	
2	Orifice size ø17
3	Orifice size ø24
4	Orifice size ø39
5	Orifice size ø48
6	Orifice size ø68

⚠ Precautions for model No. selection

*1: The switch must be ordered separately

*2: Refer to Intro Pages 23 to 26 for switches.

*3: Refer to the CKD Sales for operating port positions and switch mounting positions for details.

*4: Made to order. Contact CKD Sales for details.

Compatibility table by variation

	AVB**7
Port size	NW16, NW25, NW40, NW50, NW63
P4	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

Note: Use after checking the compatibility of the working fluid with the gas-contacting materials.

Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch
Vacuum components
Pneumatic valves
Clean air components
controller
Pneumatic auxiliary components
Speed Fitting
Auxiliary valve
Silencer
Tube
Gas generator
Fluid control components
Electric actuator
Motor specification
Motorless specifications