Solenoid valve for high vacuum

HVB41 Series

- NC (normally closed) type
- Port size: NPT1/4 (O ring sheet)

JIS symbol

●NC (normally closed) type

Specifications

Descriptions	HVB41-8N-*	HVB41-8R-* (custom order)
Working fluid	Vacuum, inert gas (Note 1)	
Working pressure range Pa (abs)	1.3×10^{-6} to 3×10^{5}	
Max. working differential pressure MPa	0.3	
Valve seat leakage Pa・m³/s (He)	1.0×10^{-9} or less	
External leakage Pa・m³/s (He)	1.0×10^{-9} or less	
Withstanding pressure MPa	0.5	
Back pressure (Note 2) MPa	0.2	
Fluid temperature ℃	5 to 55	
Ambient temperature ℃	0 to 55	
Orifice mm	5	
Cv flow factor	0.67	0.47
Frequency time/min. or less	30	
Port size	NPT1/4 (with O ring seat)	1/4 inch VCR female
Mounting attitude	Vertical installation with coil facing upward	
Weight kg	0.79	0.86
Electrical specifications		
Rated voltage	100, 200 VAC (50/60Hz), 24 VDC	
Allowable voltage fluctuation	Rated voltage ±10%	
Power consumption W	14	
Heat proof class	B	
Temperature rise K	80	

Note 1: The durability may drop remarkably depending on the degree of dryness.
Note 2: Pressurizing from the A port with the B port released to atmosphere is possible.

How to order

HVB 41 - 8N - 5 - 3H - AC100V

- HVB: Model no.
- 5: Orifice ϕ5
- 8N: Ⓐ Connection
- 3H: Ⓑ Option
- AC100V: Ⓒ Voltage

Symbol	Descriptions
Ⓐ Connection	
8N	NPT1/4 (with O ring seat)
8R	1/4 VCR female joint (custom order)
Ⓑ Option	
Blank	Blank
3H	Square terminal box + light G1/2
3K	Square terminal box G1/2
B	Mounting plate
Ⓒ Voltage	
100 VAC	100 VAC (50/60Hz)
200 VAC	200 VAC (50/60Hz)
24 VDC	24 VDC