

NC (normally closed type)

HB Series

NC (normally closed) type

Working fluid: water, pure water, chemical liquids

Port size: M5, Rc1/8, Rc1/4, Rc3/8



HNB/G USB/G

FAB/G

FGB/G

FWB/G

FHB

FLB AB

AG

AD APK/ ADK

For dry air Explosion proof

HVB/ HVL SAB/ SVB

NP/NAP/ NVP CHB/G

MXB/G Other G.P. systems PD/FAD/ PJ CVE/ CVSE

CPD analysis Custom order

CPE/

Medical analysis process components High corrosion resistant 2 port solenoid valve

Common oppositions JIS symbol

Common specific	ations					
Item	HB11/21/31/41					
Working fluid	Water, pure water, chemical liquids (fluids that do not corrode materials at wetted parts)					
Working pressure range MPa	0 to 0.7 (refer to working pressure range in individual specifications.)					
Fluid temperature °C	-10 to 60 (no freezing)					
Valve seat leakage cm³/min.	0 (water pressure) (*4) [When using PTFE sealant, 300 cm3/min or less at air pressure]					
Mounting attitude	Free					
Treatment	Oil free					
Electric specifications	3					
Rating	Continuous					
Voltage	100 VAC (50/60 Hz), 200 VAC (50/60 Hz), 12 DVC, 24 DVC					

*1: Read the safety precautions for HB (page 770).

*2: When using an AC rated voltage, the voltage is converted to DC with the diode in the coil.

*3: Before starting use, check the compatibility between the materials of the product and working fluid. Working fluids must not adhere to the product body.

*4: When using NBR or FKM sealant, valve seat leakage is 0 cm3/min. at water pressure.

*5: Foreign matter etc. inside the piping may cause malfunction and valve seat leakage. Always flush the piping before installing the valve.

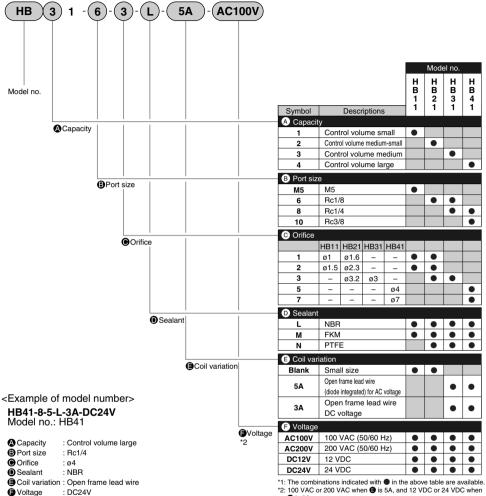
*6: Do not disassemble the product.

Individual specifications

Item Model no.	Port size	Orifice (mm)	Cv flow factor	Working pressure range (MPa)	Ambient temperature (°C)	Power consumption (W)	Weight (kg)		
HB11-M5-1	M5	1.0	0.03	0 to 0.7	-20 to 50	AC: 4	0.10		
HB11-M5-2		1.5	0.06	0 to 0.3		DC: 3			
HB21-6-1	Rc1/8	1.6	0.09	0 to 0.7		4	0.16		
HB21-6-2		2.3	0.18	0 to 0.3					
HB21-6-3		3.2	0.3	0 to 0.08					
HB31-6-3		3.0	0.31	0 to 0.4	-20 to 60	11	0.52		
HB31-8-3	Rc1/4 Rc3/8								
HB41-8-5		4.0	0.48				0.69		
HB41-10-5									
HB41-8-7	Rc1/4 Rc3/8	7.0	0.82	0 to 0.08					
HB41-10-7									



How to order



^{*2: 100} VAC or 200 VAC when (a) is 5A, and 12 VDC or 24 VDC when

⁽B) is 3A.