

High corrosion resistant direct acting 2-port solenoid valve

HB Series

- NC (normally closed)
- Working fluid: Water/pure water/chemical liquids
- Port size: M5, Rc1/8, Rc1/4, Rc3/8



JIS symbol



Common specifications

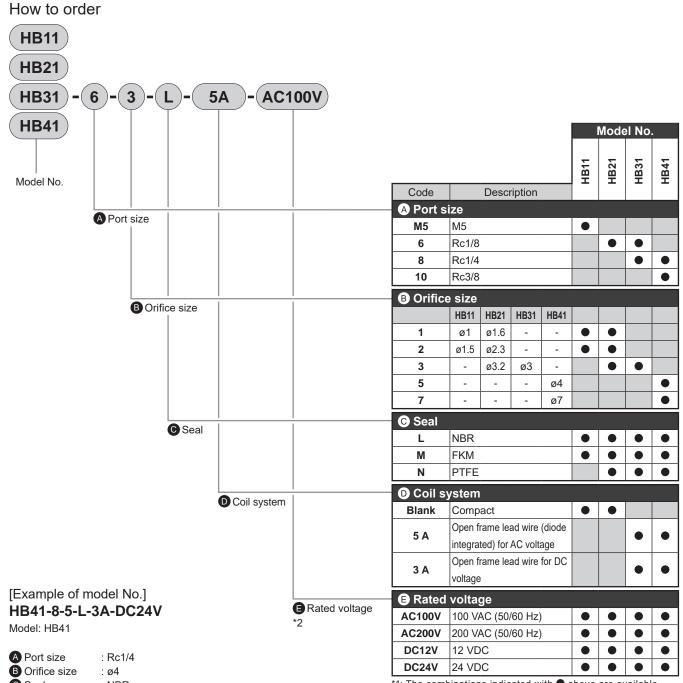
ltem	HB11/21/31/41					
Working fluid	Water/pure water/chemical liquids (fluids that do not corrode wetted part materials)					
Proof pressure MPa	1.5(HB11), 2(HB21/31/41)(water pressure)					
Working pressure MPa	0 to 0.7 (refer to working pressure in individual specifications.)					
Fluid temperature °C	-10 to 60 (no freezing)					
Valve seat leakagecm ³ /min	0 (water pressure), PTFE sealant: 300 or less (air)					
Mounting orientation	Unrestricted					
Treatment	Oil-prohibited					
Electrical specifications						
Rated voltage	100 VAC (50/60 Hz), 200 VAC (50/60 Hz), 12 VDC, 24 VDC					

*1: The AC rated voltage will be converted to DC by the diode integrated into the coil.

*2: Make sure to read the safety precautions on pages 3 to 8 before use.

Individual specifications

Item Model No.	Connection Bore size	Orifice size (mm)	Cv	Working pressure (MPa)	Ambient temperature° (°C)	Power consumption (w)	Weight (kg)	
HB11-M5-1	M5	1.0	0.03	0 to 0.7		AC: 4	0.10	
HB11-M5-2		1.5	0.06	0 to 0.3		DC: 3	0.10	
HB21-6-1		1.6	0.09	0 to 0.7	-20 to 50	4	0.16	
HB21-6-2	Rc1/8	2.3	0.18	0 to 0.3				
HB21-6-3	RC1/8	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	3.0					0.52	
HB41-8-5	KC1/4	1.0	0.40	0100.4			0.00	
HB41-10-5	Rc3/8	4.0	0.48					
HB41-8-7	Rc1/4	7.0	0.00	0.4. 0.00			0.69	
HB41-10-7	Rc3/8	1.0	0.82	0 to 0.08				



Seal : NBR

Ocoil variation : Open frame lead wire

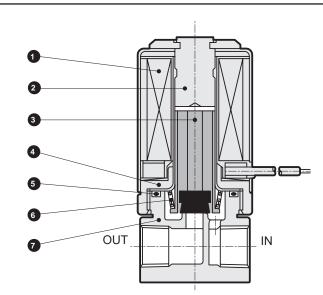
Rated voltage : 24 VDC

*1: The combinations indicated with ● above are available.
*2: If Item ● is 5A, it is 100 VAC or 200 VAC, and for 3A, it is 12 VDC or 24 VDC.

HB Series

Internal structure and parts list

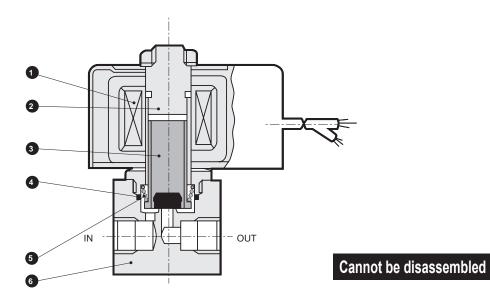




Cannot be disassembled

Part No.	Part name	Material	
1	Coil assembly	—	—
2	Core assembly	SUS316 or equiv.	Stainless steel
3	Plunger assembly	SUS316 or equivalent/NBR (FKM/PTFE)	Stainless steel, nitrile rubber (fluoro rubber/tetrafluoroethylene resin)
4	Core B	SUM22	Steel
5	O-ring	NBR (FKM/PTFE)	Nitrile rubber (fluoro rubber/tetrafluoroethylene resin)
6	Spring	SUS316	Stainless steel
7	Body	SUS316	Stainless steel

● HB31 ● HB41

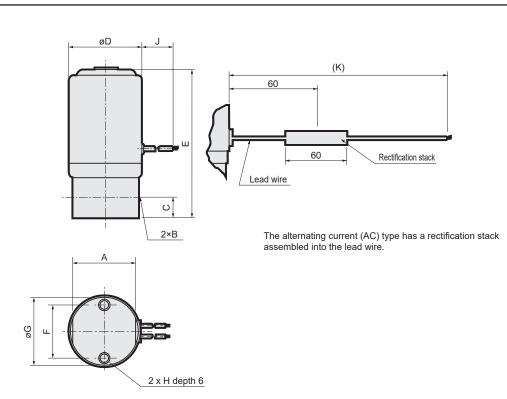


Part No.	Part name	Material							
1	Coil assembly	—	—						
2	Core assembly	SUS316 or equiv.	Stainless steel						
3	Plunger assembly	SUS316 or equivalent/NBR (FKM/PTFE)	Stainless steel, nitrile rubber (fluoro rubber/tetrafluoroethylene resin)						
4	O-ring	NBR (FKM/PTFE)	Nitrile rubber (fluoro rubber/tetrafluoroethylene resin)						
5	Spring	SUS316	Stainless steel						
6	Body	SUS316	Stainless steel						



Dimensions

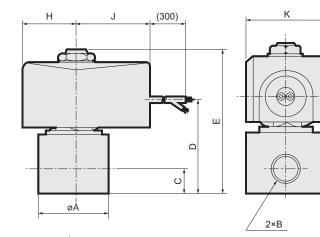


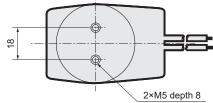


Model No.	Α	В	С	D	Е	F	G	н	J	К
HB11	18	M5 x 0.8	5	20.4	47	15	20	M3 x 0.5	200	250
HB21	23	Rc1/8	8	25	55	18	25	M4 x 0.7	300	300

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● HB31 ● HB41





Model No.	A	В	С	D	E	G	н	J	К
HB31- ⁶	37.5	Rc1/8 Rc1/4	11	50.5	75	31	24	38	38
HB41-8-5	37.5	Rc1/4	11	52	80.5	31	28	42	46
HB41 ⁻⁸⁻⁷ -10-5	45	Rc1/4 Rc3/8	12	55	83.5	34	28	42	46