

EXA

FWD

Delay vacuum solenoid valve

HVL12 Series

Off-delay function solenoid valve



USB/G FAB/G JIS symbol Specifications 1 MPa ≈ 145.0 psi, 1 MPa = 10 bar FGB/G Item HVL12 Working fluid Air, nitrogen (*1) FVB 1.3×10⁻⁶ to 2.0×10⁵ Working pressure Pa(abs) FWB/G Max. working pressure differential MPa 0.2 (≈29 psi, 2 bar) 1.3 x 10⁻⁹ or less Valve seat leakage Pa·m³/s (He) FHB 1.3 x 10⁻⁹ or less External leakage Pa·m³/s (He) FLB Proof pressure MPa 0.5 (≈73 psi, 5 bar) Fluid temperature °C 5 (41°F) to 50 (122°F) AB °C Ambient temperature 0 (32°F) to 50 (122°F) AG Orifice size 1.2 mm Mounting orientation Unrestricted AP/ AD Weight kg AC 0.5 APK/ ADK DC (*2) 0.2 Frequency 0.5 times/min. or less DryAir Port size Rc1/8, 1/4" double barbed fitting, NW10.16 vacuum clamp fitting EX-XPLNprf Cv 0.05 (±35%) Max. set delay time AC: 8 sec, DC: 10 sec **XPLNprf** 24 VDC, 100 VAC, 200 VAC Rated voltage Voltage fluctuation range Rated voltage ±10% HVB. HVL Power consumption W 4 S≎B *1 : Durability may decrease sharply depending on the degree of dryness. ŇÅB *2 : Weight shown in the table is for port size Rc1/8. LAD/ *3 : Do not handle by the lead wire only. NAD *4 : Always use the M4 screws on the bottom of the case when mounting. *5 : Do not fix the valve by the port piping only. Water-Rela Use the valve in a place where vibration does not affect the performance. *6 : The DC type has polarity. Connect the red lead wire to the plus (+) side and the black to the minus (-) side. NP/NAP/ NVP How to order SNP **4S** HVL 12 6 - 5 - (AC100V) CHB/G MXB/G Other A Port A connection *1 valves A Port A connection Model No. SWD/ Rc1/8 6 *1 MWD 4S 1/4" double barbed fitting DustColl 10K NW10 vacuum clamp fitting 16K NW16 vacuum clamp fitting CVE/ CVSE B Port B connection *1 CCH/ B Port B connection CPE/D 6 Rc1/8 *1 C Voltage LifeSci C Voltage DC24V 24 VDC Gas-AC100V 100 VAC Combus Auto-AC200V 200 VAC Water Precautions for model No. selection Outdoor *1: If you order the same model No. of ports A and B, specify only a single model No. SpecFld Example: When ports A and B are both Rc1/8 HVL12-6-5-voltage (correct) Custom HVL12-66-5-voltage (wrong) Ending

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HVL12 Series

EXA

AP/ AD APK/ ADK DryAir

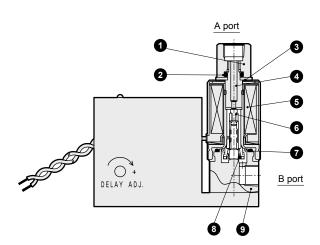
EX-XPLNprf XPLNprf **HVB/ HVL** S \circ B/ NAB

LAD/ NAD

Internal structure and parts list, dimensions

Internal structure and parts list

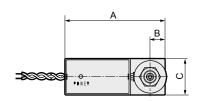
• HVL12-6-5

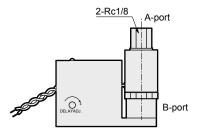


			FWD
			HNB/G
_			USB/G
No.	Part name	Material	
1	Socket	SUS303	FAB/G
2	O-ring	FKM	FGB/G
3	Washer	SUS304	100/0
4	Core assembly	SUS316L, SUS405	FVB
5	Coil assembly	PBT	
6	Plunger	SUS405,	FWB/G
	assembly	FKM, PTFE	FHB
7	O-ring	FKM	
8	Spring	SUS304	FLB
9	Body	SUS303	AB
			AD
			AG

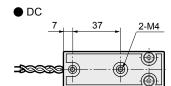
Dimensions

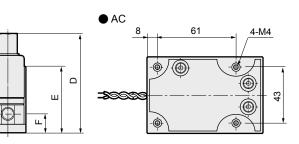
• HVL12-6-5





Model No. 🔪 Code	Α	В	С	D	Е	F
HVL12-DC24V	78	11.5	28	76	51	14.5
HVL12-AC100, 200V	90	11.5	59	76	62	14.5





Water-Rela NP/NAP/ NVP SNP CHB/G MXB/G Other valves SWD/ MWD DustColl CVE/ CVSE CCH/ CPE/D LifeSci Gas-Combus Auto-Water Outdoor SpecFld Custom Ending

HVL12 Series

EXA Main applications

HNB/G

USB/G FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

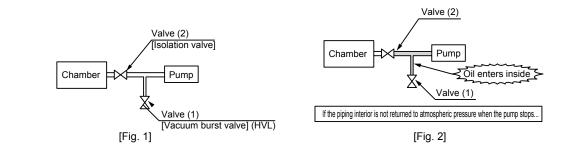
AB

AG

AP/

FWD Intended use of delay vacuum solenoid valve (HVL Series)

Preventing entry of oil in case of power failure



Normally, after the machine has stopped, the pipe between the chamber and pump is released to atmospheric pressure with valve (1) to prevent the oil from rising (from entering the pipes). However, to protect the chamber (to maintain vacuum and prevent contamination), it is necessary to release the pipe to atmospheric pressure after the valve (2) has completely closed.

