VBY Flow Control

Micro Vacuum Pump



Datasheet





Highlights

- Low electromagnetic interference
- Optional nozzle installation direction
- Long service life under max load
- Continuous operation with max load
- Low noise level and vibration
- Driven by BLDC motor
- Industrial-grade reliability
- Good air tightness
- High vacuum
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical instruments
- Vacuum suction

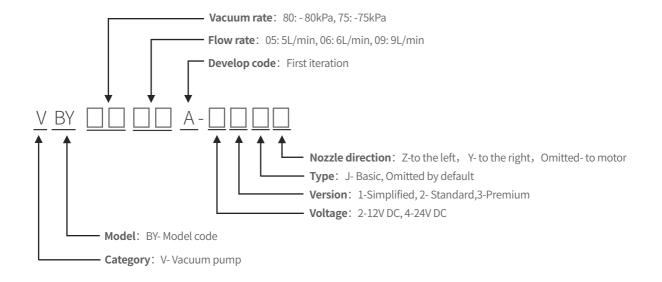
12K hours lifetime test

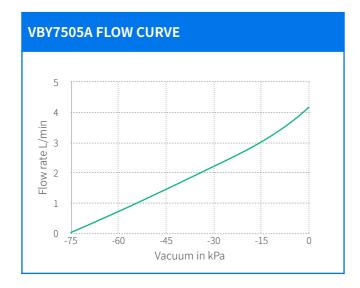
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	
terial Option A	Diaphragm:EF	DM Valves:EP	DM Pump He	ad: Fiber reinforcec	l nylon	
VBY7505A	12V	≤500mA	≥5	≥3.5	≥75	
VBY7506A	24V	≤300mA	≥6	≥4.5	≥75	
VBY8009A	24V	≤300mA	≥9	≥5.0	≥80	
	Note: The peak flow refers to the flow value measured by the rotameter, and the average flow refers to the flow value measured by the soap film flowmeter					

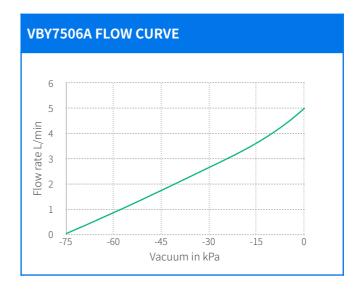
CONFIGURATION OPTIONS				
Material Options				
Pump Head	Fiber reinforced PA6			
Diaphragm	EPDM			
Valves	EPDM			
Motor	BLDC			
Connector Options				
	PA hose connector in different directions			
Function Options				
	Basic type			

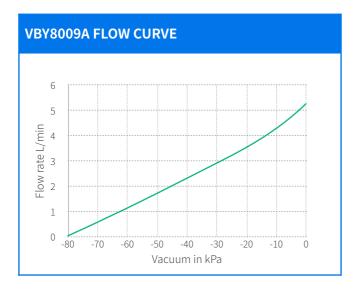
RELIABILITY DATA						
Models	VBY Series					
Versions	Simplified	Standard	Premium			
Fully Loaded Lifetime(hrs)	5000	8000	12000			
Unloaded Lifetime (hrs)	8000	12000	18000			
Motor Lifetime (hrs)	10000	15000	20000			
Test conditions	In a clean and non-corrosive laboratory, the pump is fully loaded (the outlet is blocked, the inlet is directly connected to the atmosphere) or unloaded (the inlet and outlet are directly connected to the atmosphere), and runs continuously around the clock; ambient temperature: 5°C~33°C, relative humidity: 50%-85%, fluctuates with the climate.					
Working Condition						
Operating temperature		nperature is 0°C \sim 50°C, it is n nould work in a clean and ver	'	o the sun,		
Medium	'	of the medium is $5^{\circ}\text{C}\sim50^{\circ}\text{C}$ water vapor, but cannot con	,	wed to be		
Wetted materials	tolerance to alcohol,	EPDM, fiber reinforced acid, alkali, etc. (except stror benzene, gasoline, e	ng acid, concentrated acid,	lipids,		

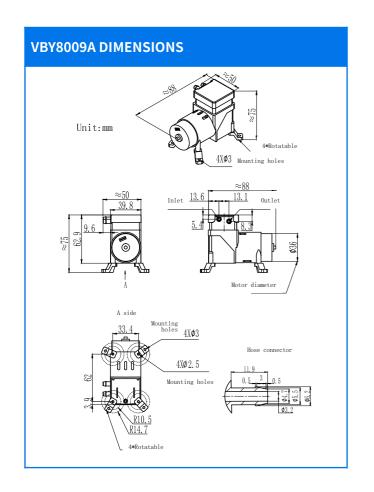
VBY MODEL KEY

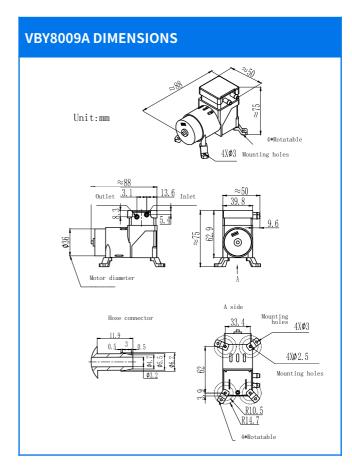


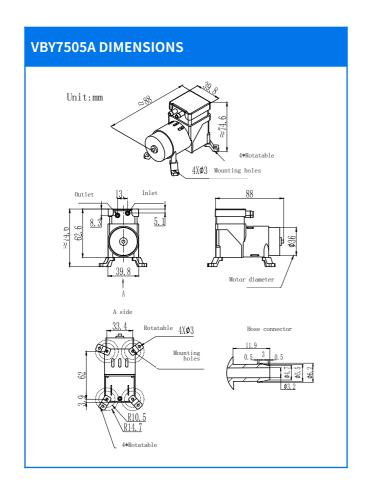


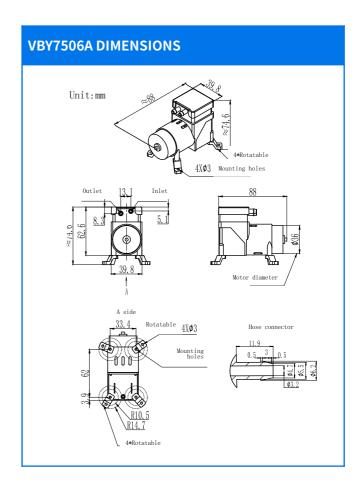












ACCE	SSORIES	
Descriptions	Illustration	Function
Shock-isolation mounting feet		Reduce the impact of vibration on the equipment during the operation of the pump. This accessory comes with the pump*4
Filter	%	The 80-mesh filter protect both pumps and other upstream instrumentation and hydraulic circuits against particulate, crystals and fibers . It is recommended to replace it regularly. This accessory comes with the pump*1
Check valve	~	Enhance the cut-off capability of the gas circuit system to ensure one-way gas flow. This accessory can be purchased on demand
Flow stabilizer		Eliminate and reduce pulsation, make gas output smooth and stable, this accessory can be purchased on demand
Manual control valve		It can be used to manually adjust the gas flow rate, pressure and vacuum. This accessory can be purchased on demand
DC power adapter	Assessment of the second of th	220V AC to DC switching power supply, this accessory can be purchased on demand
Silencer		It is used to eliminate and reduce the airflow noise caused by pumping operation, this accessory can be purchased on demand







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Create value for customers by offering high quality fluid solutions

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