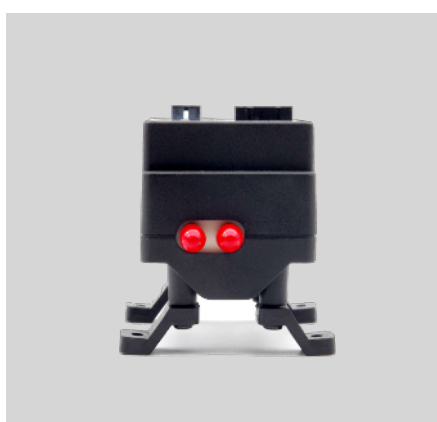


C09 Flow Control Micro Vacuum Pump



Datasheet



Highlights

- Low electromagnetic interference
- Optional digital flow control signal
- Low noise level and vibration
- Low flow pulsation
- Long service life
- Driven by Nidec BLDC motor
- Industrial-grade reliability
- Good air tightness
- Multiple self-protection
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical instruments

5.5K_{hours}
lifetime test



PERFORMANCE DATA

Model	Version	Voltage (V DC)	Max. Load Current (mA)	Max. Average Flow rate (L/min)	Max. Peak Flow rate (L/min)	Max. Vacuum (-kPa)		
C09L	Premium	24	≤200	≥2.0	≥2.0	≥37		
	Standard	24	≤200	≥1.7	≥1.8	≥37		
	Simplified	24	≤200	≥1.3	≥1.5	≥37		
The input voltage requires 24V±10%								

CONFIGURATION OPTIONS

Material Options

Pump Head SPS

Diaphragm EPDM

Valves EPDM

Motor BLDC

Connector Options

Default hose connector

Function Options

Knob speed control

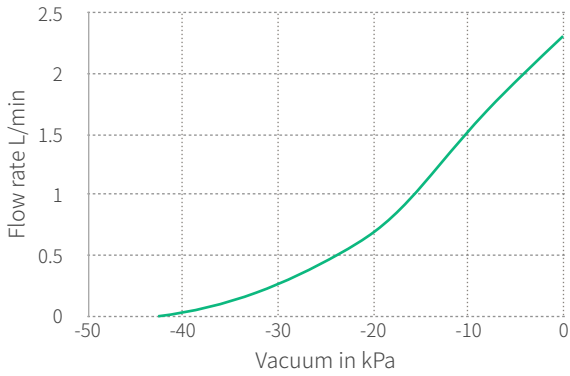
Frequency speed control

PWM speed control

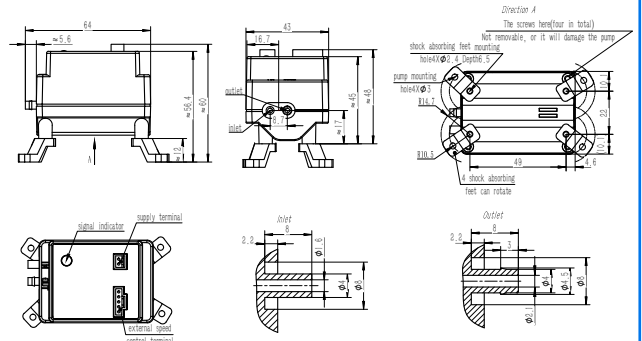
RELIABILITY DATA

Models Versions	C09L		
	Simplified	Standard	Premium
Unloaded Lifetime (hrs)	2000	4500	5500
Motor Lifetime (hrs)	10000	15000	20000
Test conditions	In a clean and non-corrosive laboratory, the pump is 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	Permissible ambient temperature is 0°C~50°C, it is not suitable to be exposed to the sun, and it should work in a clean and ventilated environment		
Medium	Permissible temperature of the medium is 5°C~50°C, the transferring gas is allowed to be rich in water vapor, but cannot contain solid particles		
Wetted materials	SPS, EPDM tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)		

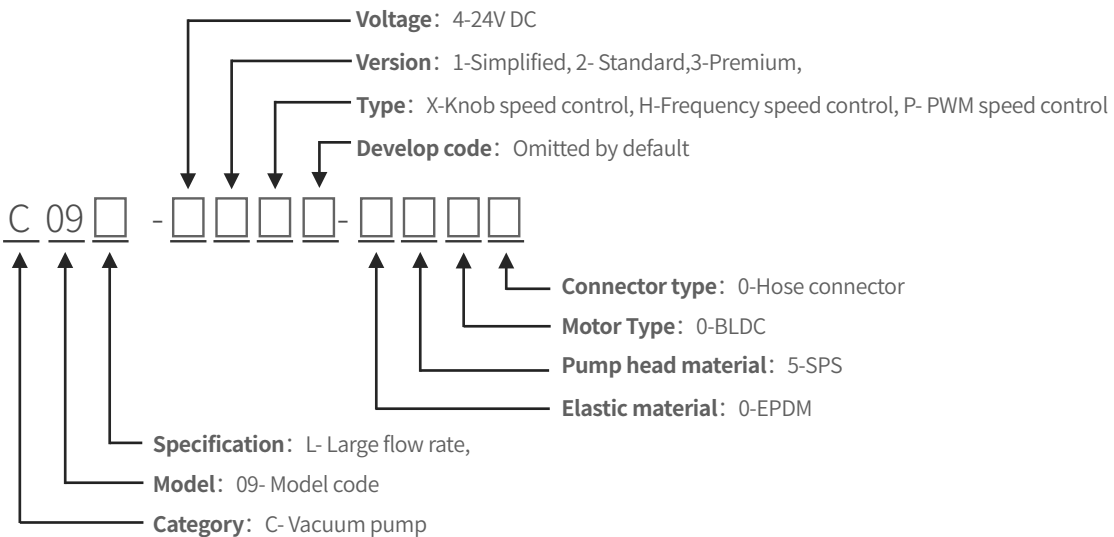
C09 FLOW CURVE



C09 DIMENSIONS



C09 MODEL KEY



ACCESSORIES		
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		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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