

C26 Flow Control Micro Vacuum Pump



Datasheet



Highlights

- Low electromagnetic interference
- Optional corrosion-resistant material
- Long service life under max load
- Modular pneumatic connection options
- Low noise level and vibration
- Driven by BLDC motor
- Industrial-grade reliability
- Good air tightness
- Multiple self-protection
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical instruments
- Pneumatic automation

12K_{hours}
lifetime test



PERFORMANCE DATA

Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)		
Material Option A	Diaphragm:EPDM Valves:EPDM Pump Head: Fiber reinforced nylon						
C26L	24V	≤210mA	≥3.6	≥2.4	≥30		
	12V	≤350mA	≥3.6	≥2.2	≥30		
C26M	24V	≤210mA	≥3.0	≥1.8	≥26		
	12V	≤330mA	≥2.8	≥1.5	≥26		
C26S	24V	≤210mA	≥2.0	≥1.2	≥19		
	12V	≤300mA	≥1.8	≥1.1	≥19		
Material Option B	Diaphragm:FKM Valves:FKM Pump Head: Fiber reinforced nylon						
C26L	24	≤300mA	≥3.2	≥2	≥30		

CONFIGURATION OPTIONS

Material Options

Pump Head Fiber reinforced PA6

Diaphragm EPDM FKM

Valves EPDM FKM

Motor BLDC

Connector Options

Type A PA hose connector/Type B PP hose connector/Type C stainless steel hose connector
PC6 push-in quick connector/PC8 push-in quick connector /Rc1/8 inside thread

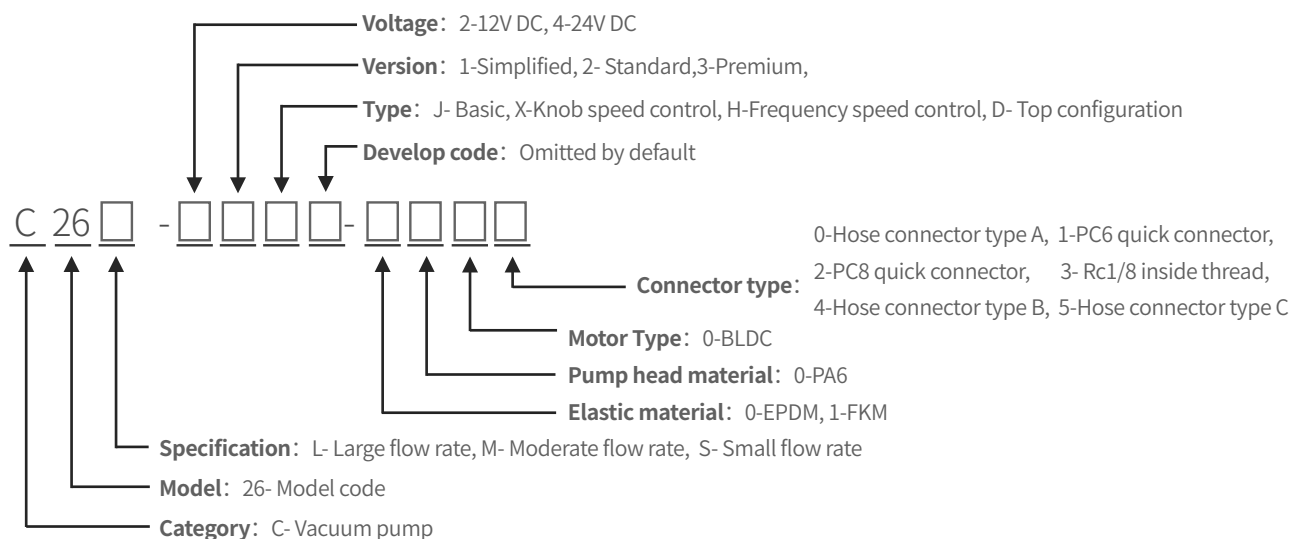
Function Options

Basic type Knob speed control Frequency speed control Top configuration

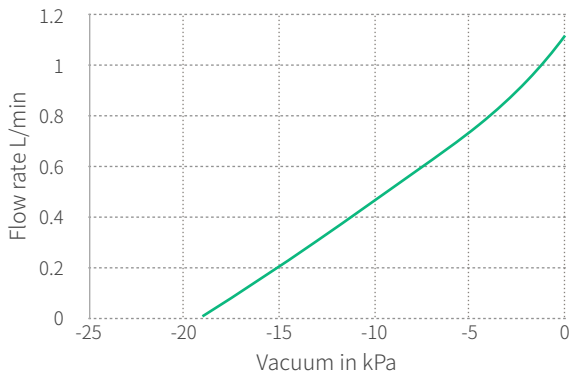
RELIABILITY DATA

Models	C26S C26M C26L			
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	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 environmen			
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	EPDM, FKM as optional; fiber reinforced nylon, tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)			

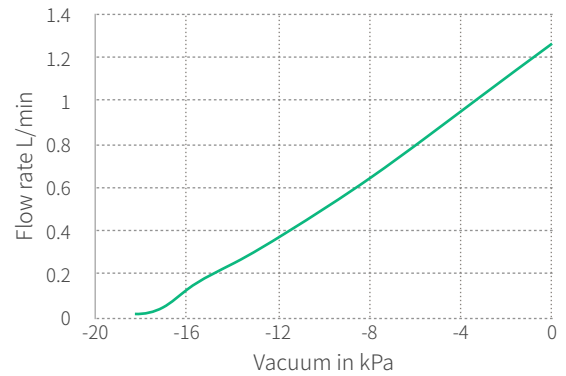
C26 MODEL KEY



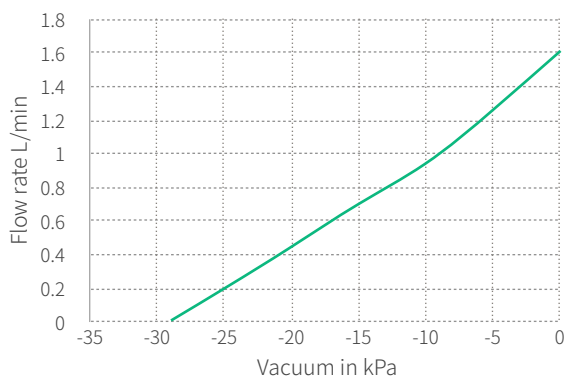
C26S-12V FLOW CURVE



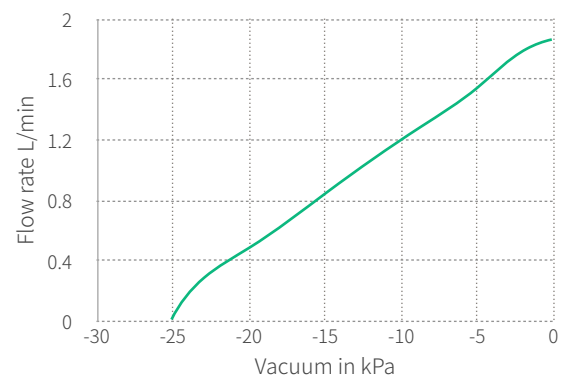
C26S-24V FLOW CURVE



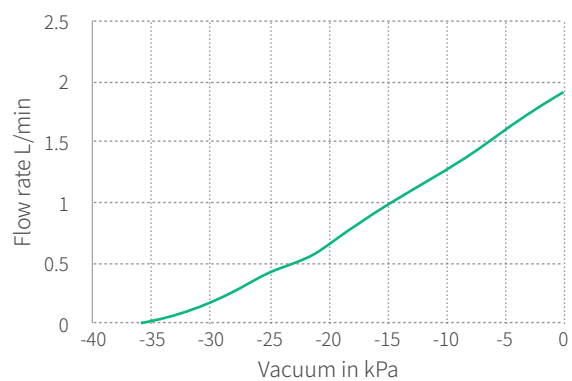
C26M-12V FLOW CURVE



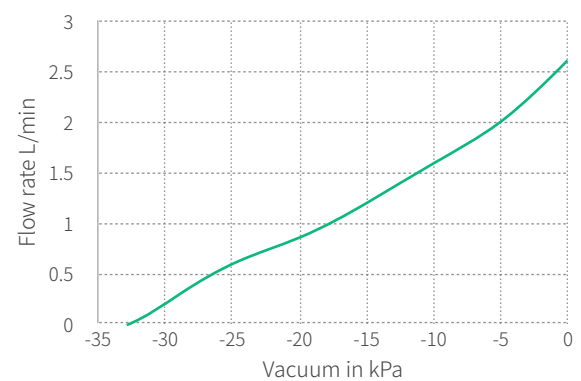
C26M-24V FLOW CURVE



C26L-12V FLOW CURVE



C26L-24V FLOW CURVE



[illegible]

Direction A

pump mounting hole

41φ3 62.1 19.5 10 38 4 shock absorbing feet can rotate shock absorbing foot mounting hole 41φ2.4 810.5 814.5

≈81 ≈69

K

48 inlet 17 outlet 61.5

Reinforced Nylon Hose Connector(inlet/Outlet)

41φ5.5 41φ5.2 41φ7.7 41φ6.3 0.5 3 0.5 1.4

working status indicator

speed regulation wire interface

power line interface

Size of K is related to the pneumatic connectors and its installation dimensions, for reference only, the error may be a few millimeters

Type of Connectors	K value
No connector	91
Push-in connector	6mm ≈105
	8mm ≈107
Stainless Steel Hose Connector	≈108
Reinforced Nylon Hose Connector	≈108

[illegible]

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
Manul control valve		It can be used to manually adjust the gas flow rate, pressure and vacuum. This accessory can be purchased on demand
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



To be a driving force in innovation of human fluid technology

Create value for customers by offering high quality fluid solutions

This document is for reference only and does not constitute any promise or guarantee. The parameters and experimental data indicated in this document come from Hilintec life and aging laboratory and supplier laboratories. In the actual user system, due to differences in actual usage conditions and experimental conditions, relevant value will change accordingly. Due to product improvement needs, the parameters may be adjusted without notice. Please contact the manufacturer or agent for confirmation before purchasing. The trademarks, pictures, and logos in this document are owned by Chengdu Hailin Technology Co., Ltd. or a third party with legal rights.

Hilintec®

www.mini-pump.com