

Highlights

- Low electromagnetic interference
- 250°C high media temperature
- Lightweight and small-volume
- Multiple self-protection
- PTFE diaphragm and sealing
- Industrial-grade reliability
- Driven by BLDC motor
- Good air tightness

Applications

- CEMS
- Gas sampling
- Analytical instruments

15K hours
motor 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)	Max. Pressure (kPa)	Weight (g)	
Material	Diaphragm:PTFE Valves:Stainless Steel		Pump Head: Stainless Steel					
D29H	12V	≤900mA	≥9.0	≥5.5	≥70	≥110	630	
	24V	≤700mA	≥9.0	≥6.0	≥70	≥110	630	
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	304 Stainless Steel
Diaphragm	PTFE
Valves	304 Stainless Steel
Motor	BLDC

Connector Options

Rp 1/8 Internal thread

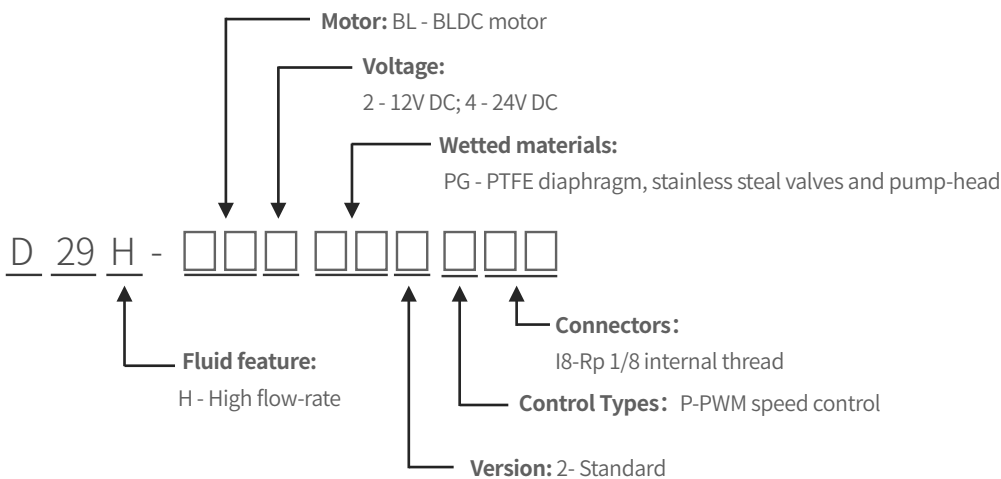
Function Options

Basic type

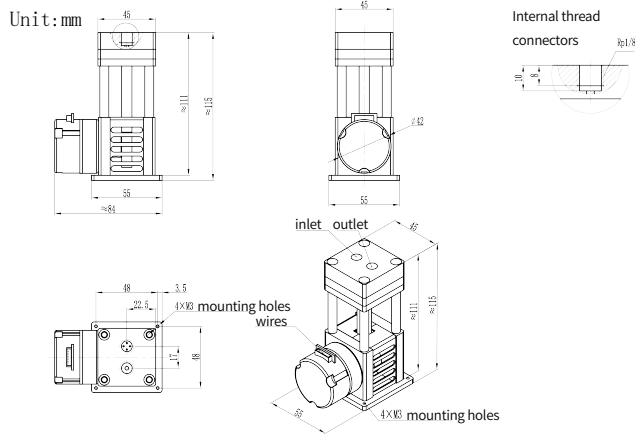
RELIABILITY DATA

Models Versions	D29H		
	standard		
Fully Loaded Lifetime (hrs)	8000*		
Unloaded Lifetime (hrs)	12000		
Motor Lifetime (hrs)	15000		
Test conditions	In a clean and non-corrosive laboratory, the pump is fully loaded (the inlet is blocked, the outlet 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. *Represents design life target, actual product life is being tested		
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 0°C~250°C, the transferring gas is allowed to be rich in water vapor, but cannot contain solid particles		
Wetted materials	Stainless steel and PTFE, tolerance to alcohol, acid, O3, SO2, NOx etc.		

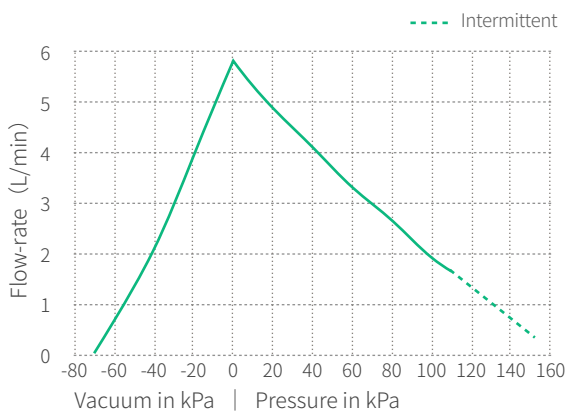
D29 MODEL KEY



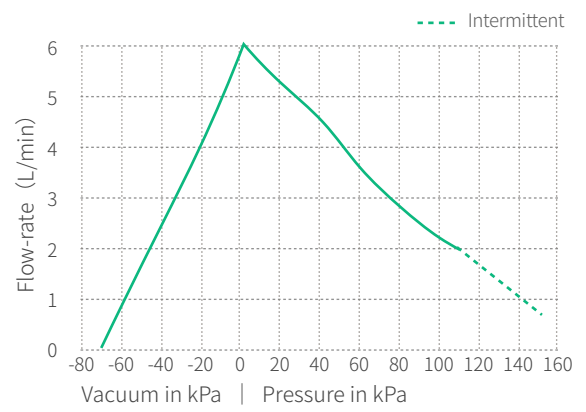
D29H DIMENSIONS



D29H-BL2 FLOW CURVES



D29H-BL4 FLOW CURVES



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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Create value for customers by offering high quality fluid solutions

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