D16 Series Micro Piston

Vacuum Pump & Compressor



Datasheet





Highlights

- Can be restarted with max load
- Long service life under max load
- Support voltage speed contro
- Low EMI

- Driven by long life BDC motor
- Industrial-grade reliability
- High pressure
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical Instruments
- Pneumatic drive

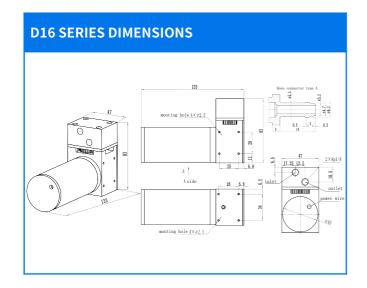
1000 hours

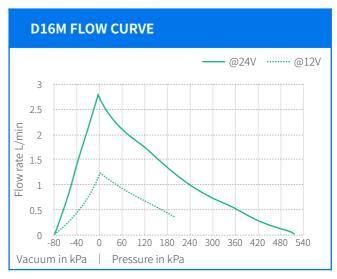


PERFORMANCE DATA						
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	Max. Pressure (kPa)
Material Option A	Piston:PTFE Va	lves:FKM Pump	Head: Aluminum C	ylinder: Aluminum		
D16M	24	≤780	≥5.0	≥2.8	≥80	≥520
	Note: The above parameters are measured under the rated voltage 24V DC, the input voltage is required to be $12 \sim 24$ V, and the change of the working voltage will affect the parameters.					

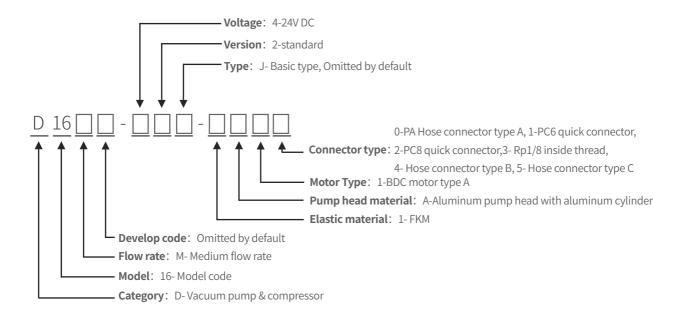
CONFIGRATION OPTIONS				
Material Options				
Pump Head	Aluminum			
Piston	PTFE			
Cylinder	Aluminum			
Valves	FKM			
Motor	BDC motor			
Connector Options				
	Default PC8 push-in quick connector/PA hose connector/PP hose connector/Stainless steel hose connector PC6 push-in quick connector/Rc1/8 inside thread			

RELIABILITY DATA				
Models	D16M			
Fully Loaded Lifetime (hrs)	1000			
Unloaded Lifetime (hrs)	2000			
Motor Lifetime (hrs)	5000			
Test conditions	In a clean and non-corrosive laboratory, working under rated voltage, the pump is fully loaded (the outlet pressure 400kPa, 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 \sim 33 °C, relative humidity: 50%-85%, fluctuates with the climate.			
Working Condition				
Operating temperature	Permissible ambient temperature is $0^{\circ}\text{C}\sim50^{\circ}\text{C}$, 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 0°C~50°C, the transferring gas is allowed to be rich in water vapor, but cannot contain solid particles			
Wetted materials	The gaseous medium will come into contact with pump head, piston, cylinder, check valve and ga connectors. Please refer to the options for parts materials. Please further judge the resistance to the medium according to the material			





D16 MODEL KEY



ACCE	ESSORIES	
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	mental management of the control of	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

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