S15 Flow Control

Micro Diaphragm Liquid Pump



Datasheet





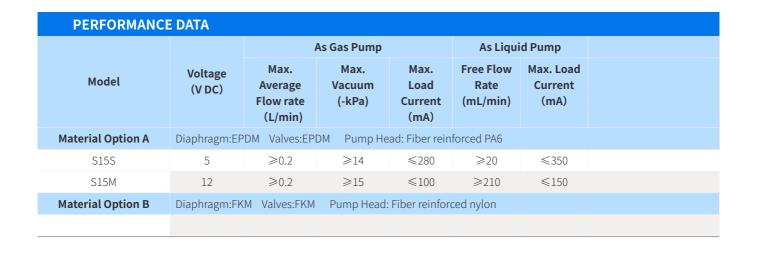
Highlights

- Suitable for Li-ion battery power supply
- Built-in working condition indicator
- Dry running, maintenance free
- 3.2-6V wide voltage power supply
- Long service life under max load
- Driven by BLDC motor
- Industrial-grade reliability
- Multiple self-protection
- Compact size
- Self-priming

Applications

- Laboratory
- Medical equipment
- Analytical instruments
- Printing

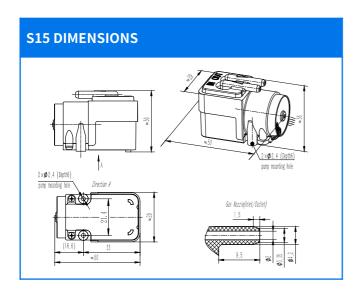
10K hours lifetime test



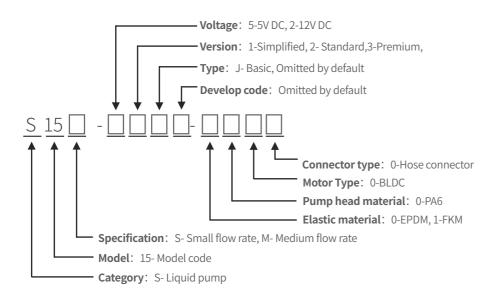
PERFORMANCE DATA					
Model	Max. Suction Height (mWg)	Flow Rate@ Max. Suction Height	Max. Pressure Heigh (mWg)	Flow Rate@ Max. Pressure Height	
S15S	1.8m	15mL/min	4m	5mL/min	
S15M	1.8m	90mL/min	4m	30mL/min	

CONFIGRATION	CONFIGRATION OPTIONS	
Material Options		
Pump Head	Fiber reinforced PA6	
Diaphragm	EPDM	
Valves	EPDM	
Motor	BLDC	

RELIABILITY DATA						
Models	S15S S15M					
Versions	Simplified	Standard	Premium			
Fully Loaded Lifetime (hrs)	3500	6000	10000			
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 (continuous pumping water) or unloaded (the inlet and outlet are directly connected to the atmosphere), and runs continuously around the clock; ambient temperature: $5^{\circ}\text{C}\sim33^{\circ}\text{C}$, 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			un, and it		
Medium	Permissible temperature of the liquid medium is $5^{\circ}\text{C} \sim 50^{\circ}\text{C}$ and gaseous media is $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$, the transferring gas cannot contain solid particles or oil mist. It is not allowed to pump oily liquid and high viscosity liquid.					
Wetted materials	Wetted materials EPDM, fiber reinforced nylon, tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lip gasoline, etc.)					



S15 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







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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