

S17

Micro Diaphragm Liquid Pump



Datasheet



Highlights

- Low power consumption and high efficiency
- Can be used to transmit gases and liquids
- Dry running, maintenance free
- Long service life under max load
- Industrial-grade reliability
- Multiple self-protection
- Compact size
- Self-priming

Applications

- Printing
- Laboratory
- Medical equipment
- Analytical instruments

3K hours
lifetime test



PERFORMANCE DATA

Model	Voltage (V DC)	As Gas Pump			As Liquid Pump		
		Max. Load Current (mA)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	Max. Load Current (mA)	Free Flow Rate (mL/min)	
Material Option A	Diaphragm:EPDM	Valves:EPDM	Pump Head: Fiber reinforced PA6				
S17S	5	≤90	≥0.2	≥17	≤200	≥15	
S17S	12	≤40	≥0.3	≥17	≤70	≥20	

PERFORMANCE DATA

Model	Voltage (V DC)	Max. Suction Height (mWg)	Flow Rate@ Max. Suction Height	Max. Pressure Height (mWg)	Flow Rate@ Max. Pressure Height
S17S	5V	2m	15mL/min	3m	15mL/min
S17S	12V	2m	15mL/min	3m	15mL/min

CONFIGURATION OPTIONS

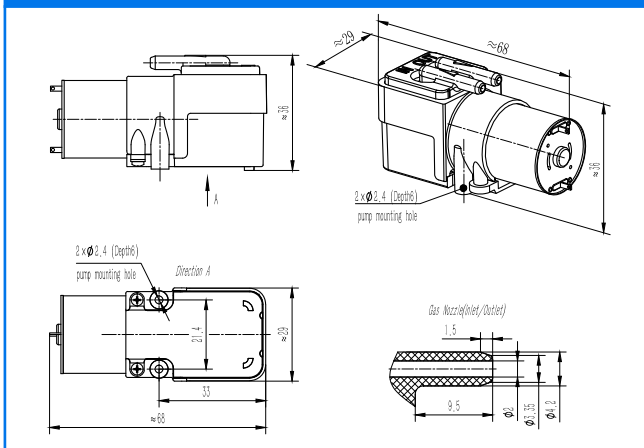
Material Options

Pump Head	Fiber reinforced PA6
Diaphragm	EPDM
Valves	EPDM
Motor	BDC

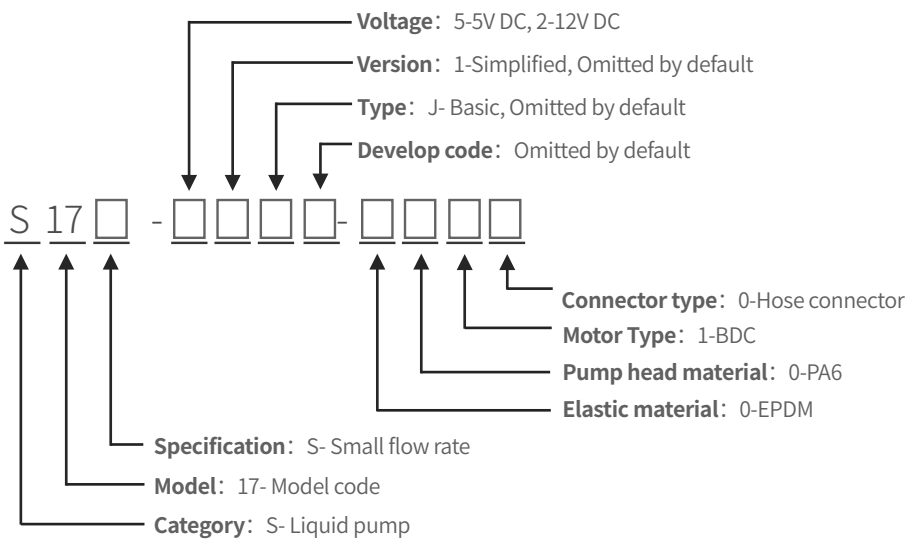
RELIABILITY DATA

Models	S17S
Fully Loaded Lifetime (hrs)	3000
Unloaded Lifetime (hrs)	5000
Motor Lifetime (hrs)	8000
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°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 liquid medium is 5°C~50°C and gaseous media is 0°C~50°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	EPDM, fiber reinforced nylon, tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)

S17 DIMENSIONS



S17 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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