

Introduction

S36 series micro vacuum liquid pump is a small volume liquid-gas dual-purpose pump, which has the functions of liquid pump and vacuum air pump. It can be used not only to transfer liquid media, but also to transfer gas or gas-liquid mixed media.

S36 series miniature liquid pumps is a diaphragm pump that can transfer gaseous and liquid medium by a moving diaphragm to change the volume of the pump chamber.



Highlights



High flow rate
High pressure



Liquid-gas
dual-purpose



Driven by
Nidec BLDC



Touch and
signal control



Uncontaminated
transfer



Gas and water sampling and analysis, environmental detection, industry equipment, biochemical medicine, test and analysis instruments...

Applications

Especially suitable for: scenarios with limited space, liquid or gas-liquid mixture transfer, dry running and self-priming and high pressure. Liquid flow rate up to 3L/min, gas flow rate up to 2.2L/min



- Driven by brushless DC motor with low electromagnetic interference
- Maintenance free throughout the life cycle
- Modular hydraulic connection options
- Allowed to dry run and self-priming
- Installation in any orientation
- Liquid-gas dual-purpose, good corrosion resistance
- Long service life, premium version >9000h
- Support touchscreen and signal control
- Overheat, overload protection
- Analysis grade air tightness
- Uncontaminated transfer

Series model	Voltage (V DC)	As Gas Pump			As Liquid Pump		Max. Suction Height (mWg)	Flow Rate@ Max. Suction Height	Max. Pressure Heigh (mWg)	Flow Rate@ Max. Pressure Heigh
		Flow Rate (L/min)	Max. Vacuum (-kPa)	Load current (mA)	Free Flow Rate (L/min)	Load current (mA)				
S36L	24	≥2.2	≥23	≤550	≥3.0	≤650	3m	≥2.0	11m	≥0.8
S36M	24	≥1.6	≥15	≤500	≥2.0	≤550	2m	≥1.5	9m	≥0.8
S36S	24	≥1.0	≥9	≤450	≥1.3	≤500	1.7m	≥0.8	7m	≥0.5

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 and high viscosity liquid.

Medium

Wetted materials	EPDM, fiber reinforced nylon; depending on the connectors(PP plastic, stainless steel, fiber reinforced nylon) tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)
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Lifetime

Lifetime	Greater than 3000, 6000, and 9000 hours *, depending on the versions
Test Conditions	In a clean and non-corrosive laboratory, the pump inlet and the outlet connected to the silicone hose extends below the surface of the clear water, operate continuously around the clock; ambient temperature: 5°C~33°C, fluctuating with climate; relative humidity: less than 90%, fluctuating with climate.

Order Information	This series of products are divided into three versions: simplified version, standard version and premium version which differ in quality of components, quality control and manufacturing process. and available with four configurations: basic type, knob control type, frequency control type and top configuration. Please specify the version and configuration type when ordering. For details, please consult Chengdu Hilin Technology Co., Ltd. or an authorized dealer.
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Due to product improvement needs, parameters may be adjusted or change without notice.

* stands for expecting value, actual value is still under lab testing and will update when available