

Product Manual

Kamoer Fluid Tech(Shanghai) Co., Ltd.

Version : A/0

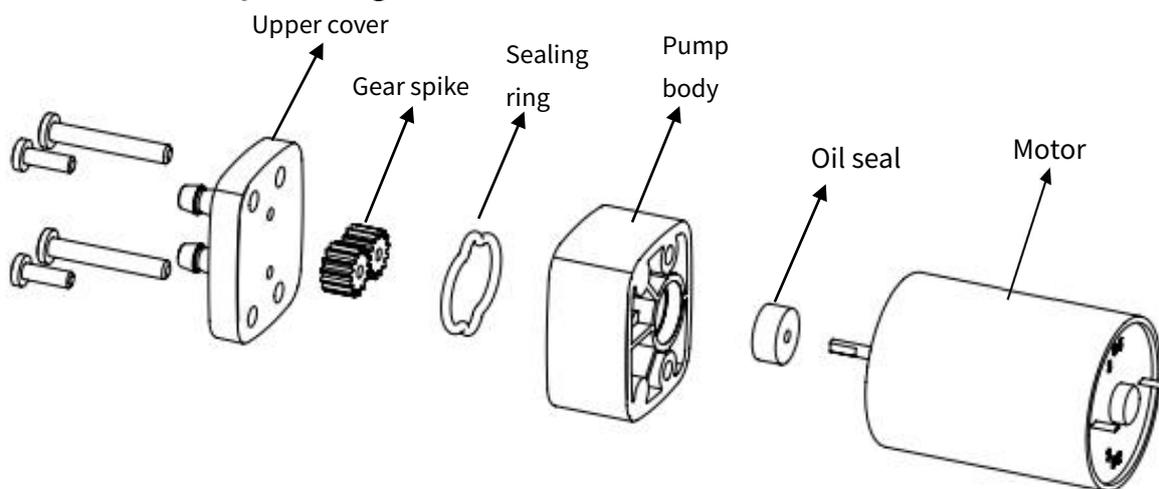
Product name	Micro gear pump
Product model	KGP200
Execution date	2023.11 03
Company name	Kamoer Fluid Tech (Shanghai) Co.,Ltd.

A. Product Overview

1. Product physical picture



2. Product assembly drawing



3. Model explanation

KGP200	D	twenty four
model	Motor type	Voltage

3.1 Motor type

D: DC brush motor

3.2 Voltage

12:12V voltage 24:24V voltage

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4. Performance characteristics, typical applications

4.1 Performance characteristics

- ◆ Exquisite workmanship, sturdy and durable structure
- ◆ Oil-free and maintenance-free
- ◆ Compact design, small structure
- ◆ Low power, low energy consumption

4.2 Typical application

- ◆ Environmental protection industry: used as a liquid pump for liquid detection
- ◆ Medical devices: such as used as reagent transfer pumps
- ◆ Filling industry: used as a transfer pump for filling liquids
- ◆ Chemical plant: chemical reagents transfer product materials

4.3 Notification of known risks

- ◆ The medium will come into contact with the pump head and rubber. When selecting the model, you need to check the chemical compatibility or conduct an immersion test.
- ◆ The working environment of the product should not exceed 40°C and the humidity should not exceed 70% (no condensation). Harsh working environment will cause premature damage to the product.
- ◆ Frequent starts and stops, over pressure or under pressure and other unreasonable working conditions will lead to premature damage of the pump.
- ◆ High overload may result in premature product damage
- ◆ When the pump is working for the first time, it may not be able to self-prime. Pass water through the inlet to activate the pump.
- ◆ The medium contains dust, oil and other pollutants that will contaminate the parts inside the pump and cause the pump to be unable to self-prime.

5. Intellectual property

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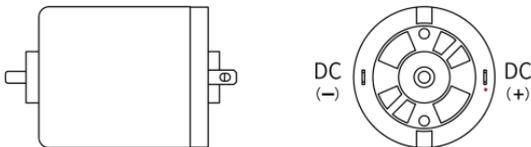


B. Product Specifications

1. Technical Parameters

Project		KGP200-D12/D24
Basic parameters	Flow (liquid)	$\geq 240\text{ml/min}$
	Liquid pressure	$\geq 0.06\text{MPa}$
	Power	$\leq 5\text{W}$
	Noise	$\leq 65\text{dB}$
	Weight	About 85g
	Rated voltage	12V / 24V
	Control method	Switch control
	Product life	800h
Applicable environment		Temperature range: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$; Relative humidity: $< 85\%$ (no condensation)
Additional information		<p>The above parameters are test results under standard atmospheric pressure, room temperature 25°C, medium is water (air), and the pump has no load pressure (no drop in liquid).</p> <p>Noise test conditions: Actual measurement under ambient noise of 35dB, product rated voltage, 50cm distance.</p> <p>The performance parameters of the product are comprehensively affected by the environmental state (temperature, humidity, etc.), the medium state (temperature, density, viscosity, chemical properties, etc.) and the load conditions before and after the pump, so the above parameters may be different from the actual parameters.</p>

2. Motor control



Note: According to the motor wiring diagram, the positive pole of the power supply is connected to positive and the negative pole is connected to negative.

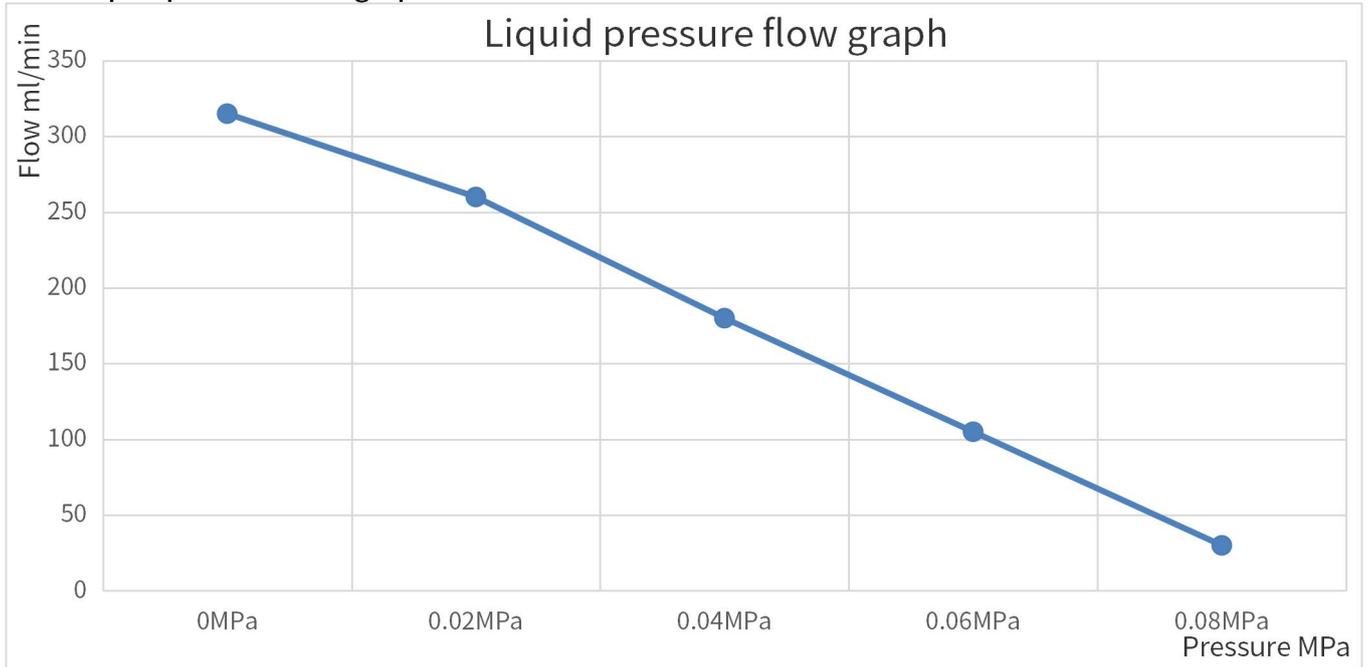
3. Product material

Model	Pump body	Gear	Oil seal
KGP200	PPS	POM	fluororubber



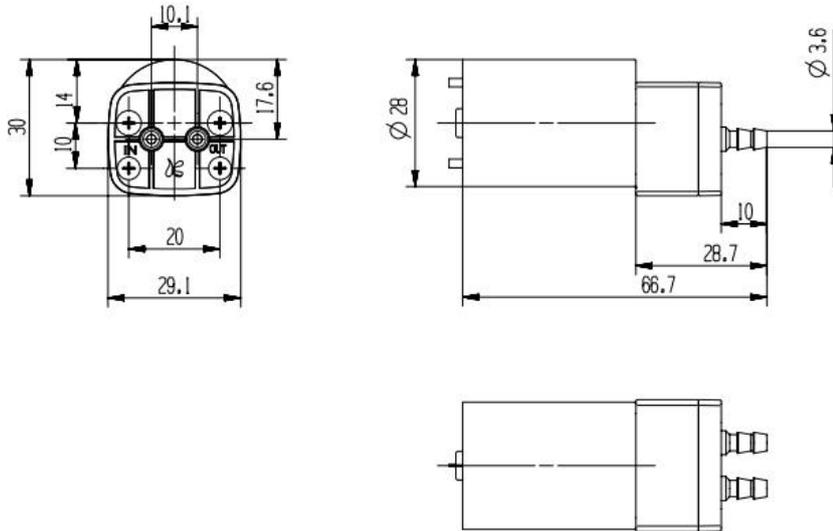
4. Flow curve

◆ Liquid pressure flow graph



5. Product Size

◆ KGP200-D12/D 24



C. Product options

Name	Specifications and models	Function introduction
External takeover silicone tube	 3mm x 5mm	Suitable for liquid transfer, economical

