



KHM series

Mini Peristaltic
Pump



Features

- Suitable for the transmission of viscous and non-viscous liquids
- Compact structure
- Exquisite and high-end appearance, color can be customized
- Plastic gear drive, high cost performance
- Planetary gear transmission, reduction ratio 1:8

Applications

- Juice drink machine
- Automatic washing machine
- Ammonia nitrogen automatic monitor
- Soil analyzer



Code Description

		KHM - SV - 3 - N 16				
Motor	SV	24V DC brushed motor (current 0.45A)				
	SW	12V DC brushed motor (current 0.8A)				
	24B	24V DC brushless motor (current 0.5A)				
	12B	12V DC brushless motor (current 0.8A)				
Number of rollers	3	3 rollers				
Tubing Material	N	Norprene® tubing				
	S	Silicone tubing				
Tubing Size (ID x OD)	16	3.2mm x 6.4mm				
	40	4mm x 7.2mm				
Bracket	L	L type bracket				
		Blank means straight bracket				

Pump Tubing

Code	Tubing Material	Performance	Lifetime
N	Norprene® tubing	· Comply with FDA certification, very suitable for food and dairy · Heat resistance, ozone resistance, acid and alkali resistance, anti-aging	≥1000H
S	Silicone tubing	· Low adsorption, good temperature resistance, not easy to aging · Suitable for transporting various low-corrosive liquids	≥200H

Note: The above test data is measured when the pump head runs continuously and uninterrupted at a speed of about 420 rpm, and the room temperature is 20 °C pure water without pressure until the pump tube cracks. The actual service life is affected by factors such as medium, working conditions, temperature and humidity, voltage, speed, etc. The test data is for reference.

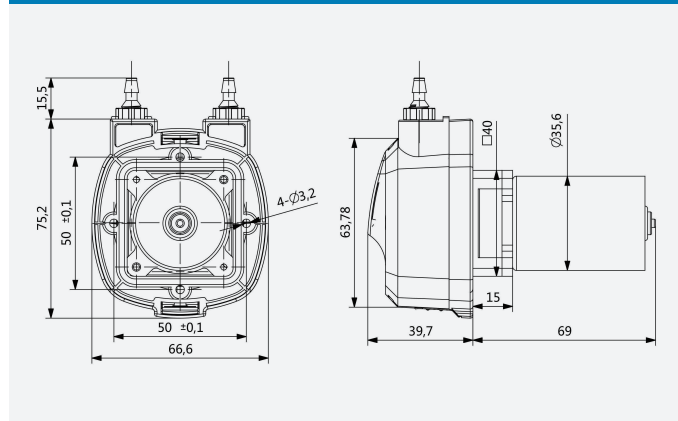
Flow Rate (unit: ml/min)

Code	S16	S40	N16	N40
SV (24V) 3 rollers	≥360	≥580	≥340	≥530
SW (12V) 3 rollers	≥350	≥540	≥330	≥500
24B (24V) 3 rollers	≥350	≥560	≥350	≥560
12B (12V) 3 rollers	≥350	≥560	≥350	≥560

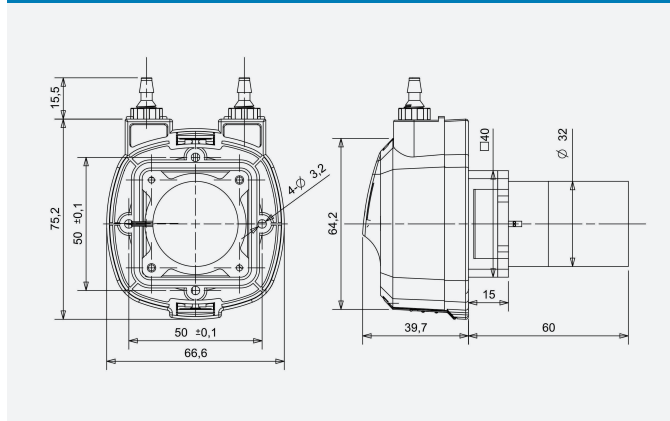
Note: The above flow parameters are measured at 20°C room temperature and standard atmospheric pressure. Actually, depending on the medium, the outlet pressure is different, the DC motor speed error etc, the flow will have a certain error, the measured data as a reference.

Dimensions (unit: mm)

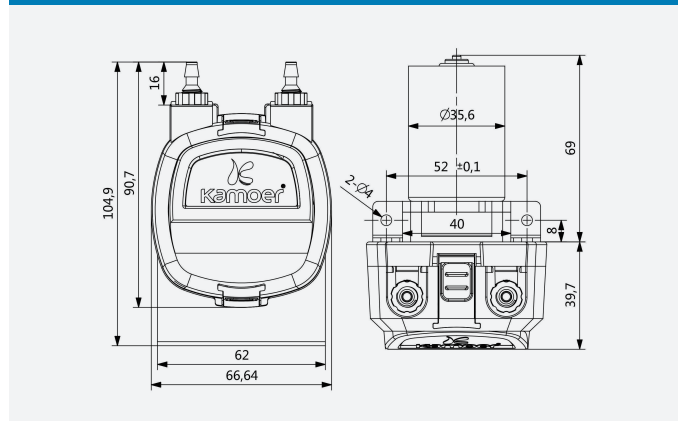
Brushed motor with straight bracket



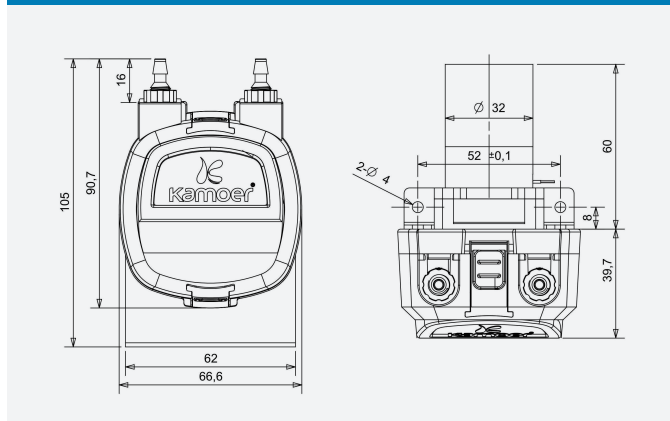
Brushless motor with straight bracket



Brushed motor with L type bracket



Brushless motor with L type bracket



Brushless Motor Wiring

Description of wire color:

- 1. The positive pole of the red line power supply, the negative pole of the black line power supply, the white line speed control line, the yellow line signal feedback line (to measure the speed), the green line reversing line (floating reverse, connect to the negative pole of the power supply for positive rotation).
- 2. Speed control port: PWM and 0-5V two speed control methods, speed range 13%-100% PWM frequency 10KHZ-30KHZ, amplitude: 5V duty cycle 0-10% motor does not rotate, 11%-100 % Speed regulation interval: 0-5V voltage regulation, 0-0.5V motor does not rotate, 0.6V-5V speed regulation interval.
- 3. Yellow wire speed feedback, connect to oscilloscope probe or host computer. 1 pulse/revolution.
- 4. Running at full speed, the red wire and white wire are connected to the positive stage of the power supply, and the black wire is connected to the negative pole.

UL1332 Material: PTFE	
1-FG-24AWG-Yellow	Signal feedback
2-Vcc-24AWG-Red	Power positive
3-SP-24AWG-White	Speed control port
4-GND-24AWG-Black	Power negative
5-F/R-24AWG-Green	Reversing port