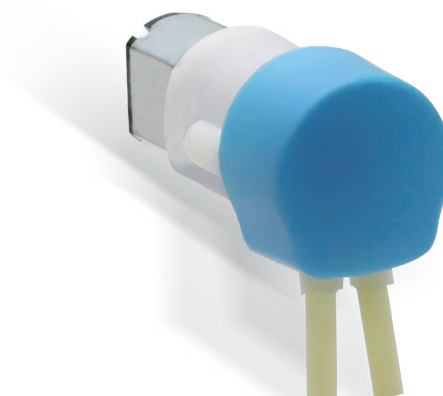


Lead Fluid ODM Technical Solutions

Pump Model: Z020A2WX09
Z200A2WX09

- The shell is made of PA66 material with high strength.
- Adopting compact structure design, small volume and light weight.
- Using a 3.7V micro DC reduction motor, low noise, low energy consumption, and can be driven by dry battery.
- Mostly used for small household appliances, small testing equipment.
- Used for micro flow.
- For intermittent operation use.



Parameters

Motor Type	DC reduction motor
Power Supply	DC3.7V
Fixed Speed	20rpm, 200rpm
Channel Number	1
Number of Rollers	2 rollers
Rotation Direction	Clockwise/Counterclockwise rotation
Material of Tube	Silicone, Pharmed
Method of Tube Installation	Tube stopper
Pressure Tube Type	Fixed clearance
Pump Head Shell Material	PA66
Pump Head Roller Material	PTFE
Pump Head Roller Shaft Material	S30408 stainless steel
Pump Head Life	≥200h
Noise	≤60dB (test environment noise ≤40dB, test product and noise meter horizontal distance of 1 meter)
Weight	Approx. 15g (with DC reduction motor and 13.5cm silicone tube)
Dimensions	(L×W×H) 40*21*22 (mm)
Working Environment	Temperature 0- 40°C, relative humidity<80% RH
Storage Environment	Ambient temperature of -20 ~ +50 °C, relative humidity of not more than 95% of the clean and well-ventilated environment, the air shall not contain corrosive, flammable gases, oil mist, dust.

Suitable Tube Model and Flow Rate Reference

Model	Speed	Material of Tube	Suitable Tube	Wall Thickness	ID	Maximum Flow
Z020A2WX09	20rpm	Silicone tube	2x3.84x0.92mm	0.92mm	2mm	1.5mL/min
Z200A2WX09	200rpm	Silicone tube	2x3.84x0.92mm	0.92mm	2mm	15mL/min

The above data is obtained from the test of purified water with a Lead Fluid tube under normal and pressure conditions in the laboratory.

This data is for reference only.

Due to pressure in actual use, temperature, medium characteristics, tube material and other specific factors, the specific situation needs to consult our engineers.

Product Structure & Usage Method

Product Structure

- Component Name and Function
- 1.Pump Head: Installation of a tube to transfer liquid.
 - 2.Motor: Provides power.

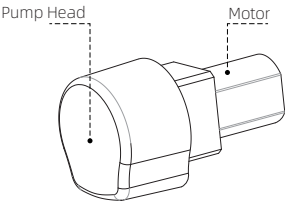


Figure 1 Structure

Usage Method

- Disassembly of WX09 pump head
- Step 1: Use a screwdriver to pry the pump head protrusion can be removed from the pump head shell.

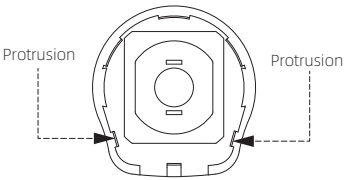


Figure 2 Pump Head Shell Disassembly

- Step 2: Remove the tube line as shown.

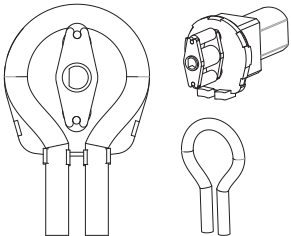
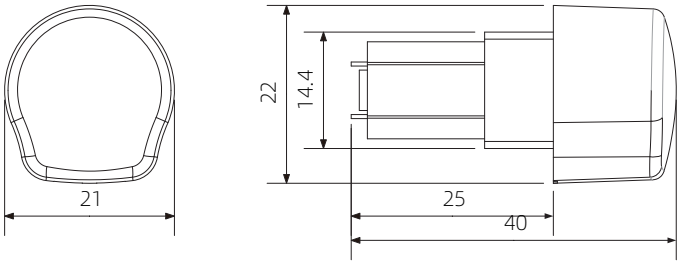


Figure 3 Tube Disassembly Diagram

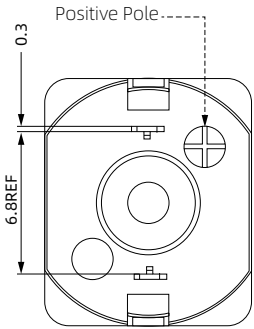
Dimension

unit:mm



Motor Wiring Applications and Motor Parameters

Wiring method: Connect the DC power supply to the motor with the positive pole marked on one end and the negative pole to the other end (the product is factory-welded with a 10cm black-red wire, where the red wire is connected to the positive pole, and the black wire is connected to the negative pole).



Model	Motor Type	Speed	Voltage	Starting Torque
Z020A2WX09	DC reduction motor	20rpm	DC3.7V	0.1N·M
Z200A2WX09	DC reduction motor	200rpm	DC3.7V	0.08N·M

Ordering Information

Product No.	Model
5070500101001	Z020A2WX09
5070300101002	Z200A2WX09

Statement: The final explanation right of above information belongs to Lead Fluid.