



V1.0

RZ01 Peristaltic Pump User Manual

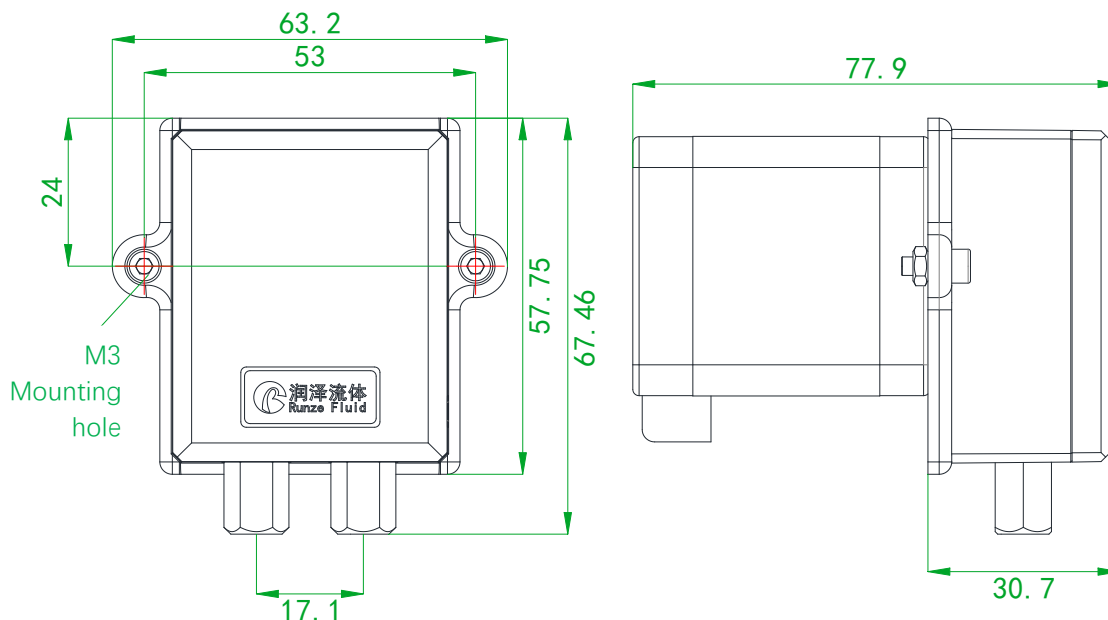
南京润泽流体控制设备有限公司
NANJING RUNZE FLUID CONTROL EQUIPMENT CO.LTD

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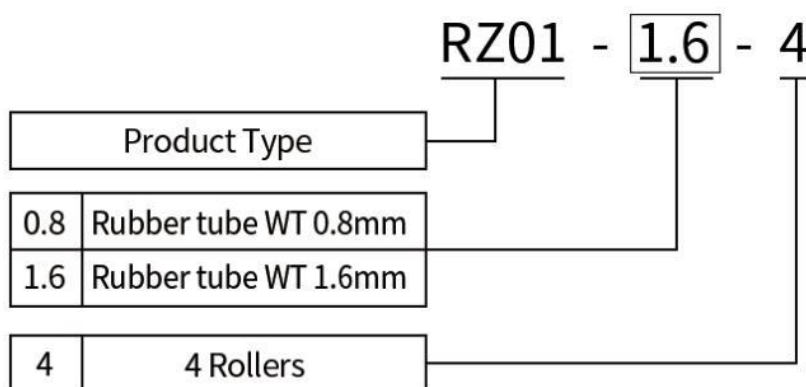
Chapter 1 Product Introduction

1.1 Pump Outline and Installation Dimensions (unit: mm)



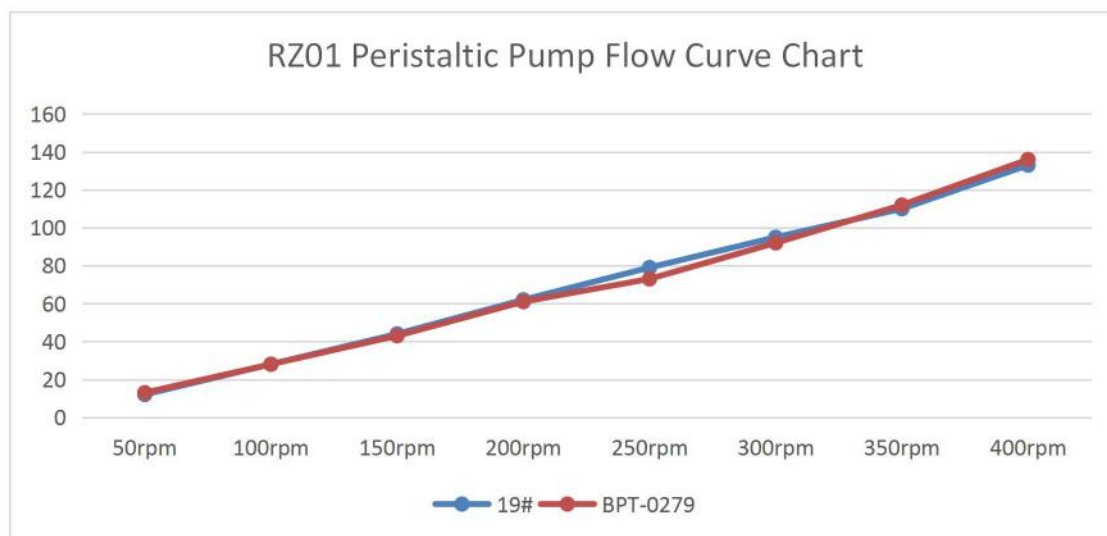
1.2 Naming Rules

The model parameters are as follows:



Chapter 2 Product Introduction

2.1 Flow Curve Chart



2.2 Technical Parameters of Motor

2.2.1 Motor Characteristics

Name	Parameter
Rated Voltage	24V
Rated Current	1.1A
Max Output	10.1W
Motor step Angle	1.8°
Angle error	1.8°±0.09°
Input impedance	4.2Ω±0.42Ω
Work temperature	-10C°~+50C°
Weight	350g

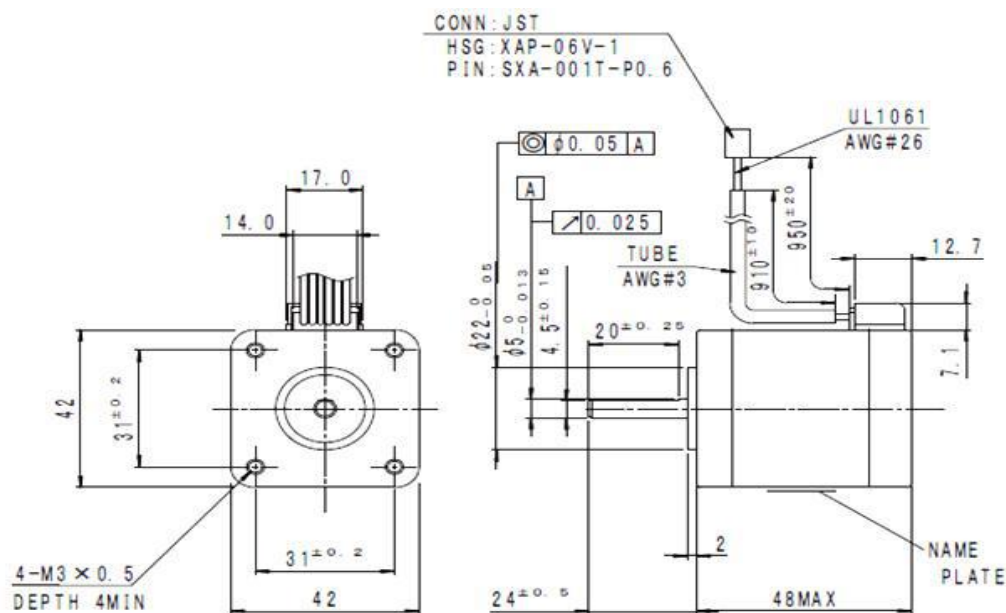
2.2.3 Motor Wiring

Port	Wire color
A+	RED
A-	YELLOW
B+	BLUE
B-	ORANGE

2.2.3 Motor Reliability

No.	Test Item	Test Condition	Reference Specifications
1	Low temperature placement (cold resistance)	Temperature : $-40^{\circ}\pm 3^{\circ}\text{C}$ Test time : 96h	JIS C 60068-2-1
2	High temperature (heat resistance)	Temperature : $85^{\circ}\pm 2^{\circ}\text{C}$ Test time : 96h	JIS C 60068-2-2
3	High temperature and humidity (moisture resistance)	Temperature : $60^{\circ}\pm 2^{\circ}\text{C}$ ($40^{\circ}\pm 2^{\circ}\text{C}$) humidity : $93\%+2/-3\%$ Test time : 96h	JIS C 60068-2-3
4	Hot and cold operation (temperature variation)	Temperature : Low-temperature test - $40^{\circ}\pm 3^{\circ}\text{C}$ 1h (Temperature change time : Within 5min) High Temperature Test : $85\% \pm 2^{\circ}\text{C}$ 1h cycle index : 25 times	JIS C 60068-2-14
5	Vibration Test	Vibration range : 10Hz~55Hz~10Hz Amplitude : 1.5mm] Direction of the vibration : X.Y.Z Time: 2h in each direction	JIS C 60068-2-6
6	DROP TEST	981 accelerated velocity m/s^2 half sinusoid Action time : 6ms Drop Direction : $\pm X, \pm Y, \pm Z$ Drops times : 3 times in each direction	JIS C 60068-2-27

2.2.4 Motor Dimension



Chapter 3 Configuration of Pump Hose

Friendly Tip: the hose can be smeared with appropriate lubricating grease to extend its service life.

Recommended length of the rubber hose is 9.5cm

		
Step 1 Open pump head lock downward	Step 2 Remove the transparent pump head cover	Step 3 Install the pump hose
		
Step 4 Notice that the two ends of the pump hose are clamped on the pump head	Step 5 Install pump head cover and close pump head lock upward	Step 6 Installation Complete

Chapter 4 Technical Service



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