

# OEM-BJ56-LP13

Special for  $\mu\text{L}$  filling- start from 1  $\mu\text{L}$

**Flow range:** 0.0042-25.2mL/min (0.1-600rpm)

**Initial filling:** 1 $\mu\text{L}$

**Using tubing:** 13#

**Application:** Micro filling series product LP13, which solves the filling problem of peristaltic pump with a capacity of less than 100 microliters. The filling accuracy of this product is  $\pm 1$  microliter for a capacity of less than 200 microliters, and  $\pm 0.5\%$  for a capacity of more than 200 microliters. It can replace Pipette and other micro filling products in use.

## Characteristics

1. Can be used as micro liters filling, with damping spring design and good filling stability.
2. Low Moment of inertia design, high speed sprinkler irrigation, low pulsation design, stable liquid flow.
3. Disposable processing and forming, high precision, good structural rigidity, high stability, and strong anti-interference ability.
4. Small size, direct connected with the motor, convenient for matching; Removable design for easy maintenance.
5. The gaskets are made of polytetrafluoroethylene material, which is resistant to high temperatures and has a long lifespan.



### 1 $\mu\text{L}$

Explanation: The target filling volume in the video is 1  $\mu\text{L}$ . Due to the difficulty of weighing 1  $\mu\text{L}$ , the video shows the size of the water droplets and the total amount is about 20  $\mu\text{L}$  after 20 times of filling.

### 5 $\mu\text{L}$

Unit: $\mu\text{L}$
5.0
4.9
5.3
4.4
5.7
4.2
5.7
4.4
5.8
5.1
5.1
4.6
5.1
4.8
4.5
5.6
4.3
5.8
4.6
5.4

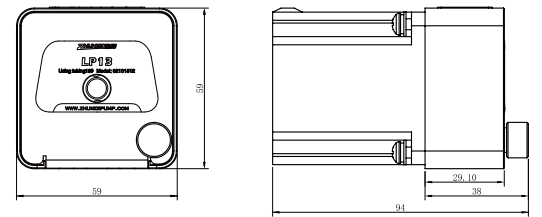
### 10 $\mu\text{L}$

Unit: $\mu\text{L}$
10.1
9.8
10.1
10.3
10.1
10.1
10
10.3
10.1
10.5
10.2
9.4
9.5
9.8
9.9
10.1
10
10.1
10
10.3

### 50 $\mu\text{L}$

Unit: $\mu\text{L}$
50.3
50.5
49.2
50.4
50.4
49.3
50.4
50.3
49.8
50.4
50.1
50
50.4
50.2
50
50.4
50.3
50.5
49.9
50.3

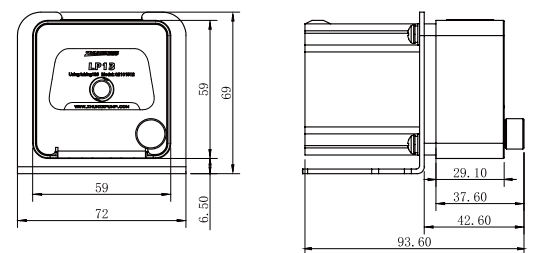
## Size



Front Unit: mm Side

Size without motor support

### Size with motor support



Front Unit: mm Side

Size with motor support

## Specifications

Motor	57-56 stepper motor		pump head	LP13	
Technical index			Technical index		
Phase	2	Motor speed	0.1-600rpm	Using tubing	13#
Step Angle	1.8°/STEP	Installation	Screw	Flow range	0.0042-25.2mL/min
Rated Voltage	3.3V	Precision	User control	Tubing wall	1.6mm
Current	3.0A/PHASE	Display	User Design	Initial filling	1 $\mu\text{L}$
Resistance	1.1 $\pm$ 10% $\Omega$ /PHASE	Operation	User Design	Precision	$\pm 1\mu\text{L}$ ( $\leq 200\mu\text{L}$ ) $\pm 0.5\%$ ( $> 200\mu\text{L}$ )
Inductance	3.0 $\pm$ 10% $\text{mH}$ /PHASE	Type of control	User Design	Factory pressure	0.15Mpa
Holding Torque	10.0kg.cm	Adjustment	Pulse	Shell material	Aluminum alloy+SS.
Insulation Class	B	Electric	Based on the drive	Roller material	SS.
Weight	0.7kg (motor)	Power	$\leq 35\text{W}$	Roller No.	4
Protection level	IP31	Weight	0.9kg (pump head+motor)		
Working environment	Temperature, 0°C to 40°C; Relative humidity < 80%				

