# Multichannel Pump Head-MC Series

## POM Material &PVDF Material

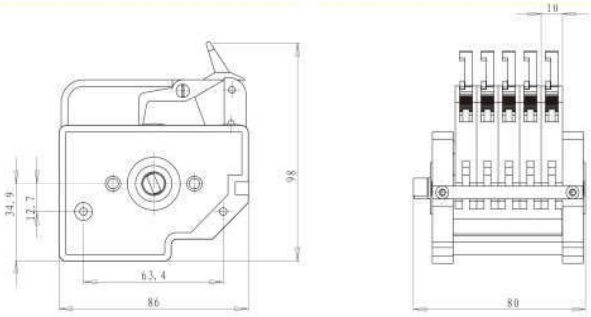
## Product Introduction

MC series new generation multichannel pump head with unique cam structure, make it much easier to operate. It is designed for small flow rates and multichannel transfer. Comparing with traditional DG pump head, it has particular cam design for micro adjustment occlusion, and also for opening the cartridge from the top. 304 stainless steel rollers assembly include two structures of 6 rollers and 10 rollers. Install silicone tubing and TYGON series imported tubing. It is widely used in supporting analytical instruments.

## Typical Application

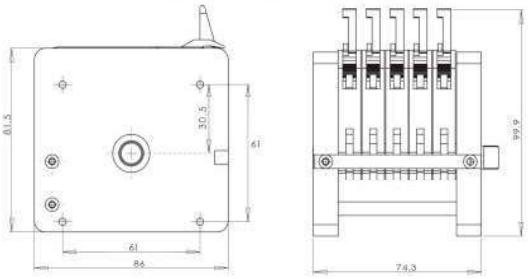
- Support blood sugar analytical device.
- Support ammonian analytical instrument.

## Dimension Drawing(Unit: mm)




Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

## Dimension Drawing(Unit: mm)




Note: Increasing or reducing one channel. the pump head size need to increase or reduce the thickness of one cartridge.

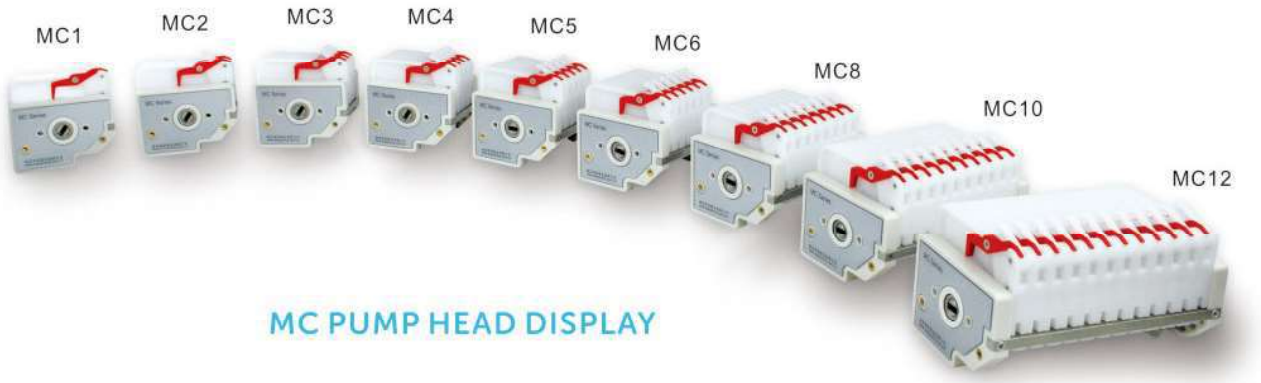
## MC Pump Head VS DG Pump Head

1. The traditional DG series pump head need to open the cartridge from the bottom. It is very inconvenient to use when the space of the equipment is compact. The MC series pump head just need to open the cartridge from the top, easy to operate.

2. The gear on the MC pump head is smaller than DG, this improved the adjusting resolution.

DG Series

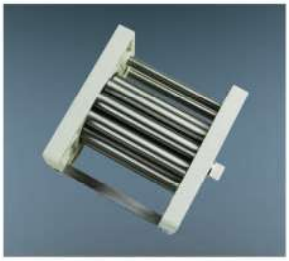
# Multichannel Pump Head-MC Series




MC PUMP HEAD DISPLAY

## Tubing Installation Procedure

Roller assembly
(10 roller)



A. Turn the spanner clockwise to take it off from the lever.

B. After that, the cartridge can be taken out lightly.

C. Install the tubing and confirm the working position between two adjacent clamps.

D. Embed the cartridge and press it lightly to reach the working position.

E. Turn the spanner counter-clockwise to make it reach the lever.

F. Multichannel pump heads and tubing drawing.

## MC Technical Specifications

| Channel number | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Cartridge material | POM/PVDF | | | | | | | | |
| Rollers material | 304/316 stainless steel material | | | | | | | | |
| Rollers number | 6 rollers, 10 rollers | | | | | | | | |

| Tubing | Speed | Flow rate of pump head with 10 rollers (mL/min) | Flow rate of pump head with 6 rollers (mL/min) | Tubing maximum pressure (Mpa) | |
|---|---|---|---|---|---|
| | | | | Continuous | Intermittent |
| 1×1 | 0.1~150rpm | 0.0046~6.90 | 0.053~7.95 | 0.1 | 0.1 |
| 2×1 | | 0.0156~23.40 | 0.021~31.35 | | |
| 3×1 | | 0.0324~48.60 | 0.043~64.95 | | |
| 0.13×0.86 | | 0.00016~0.24 | 0.000185~0.277 | | |
| 0.19×0.86 | | 0.0002~0.27 | 0.0003~0.420 | | |
| 0.25×0.86 | | 0.0003~0.480 | 0.0005~0.720 | | |
| 0.51×0.86 | | 0.0014 -2.10 | 0.0020 -3.0 | | |
| 0.89×0.86 | | 0.0039~5.85 | 0.0057~8.55 | | |
| 1.14×0.86 | | 0.0066~9.90 | 0.0090~13.5 | | |
| 1.42×0.86 | | 0.0093~13.95 | 0.0133~19.95 | | |
| 2.06×0.86 | | 0.0015~22.50 | 0.0250~37.5 | | |
| 2.4×0.86 | | 0.0212~31.80 | 0.0274~41.10 | | |
| 2.79×0.86 | | 0.024~35.85 | 0.037~55.50 | | |

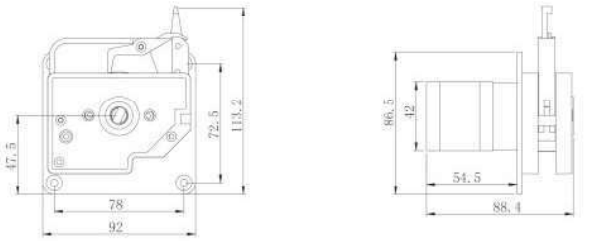
# OEM Product

## Multichannel Pump Head Series

### OEM-B09/MC1

42 Stepper motor

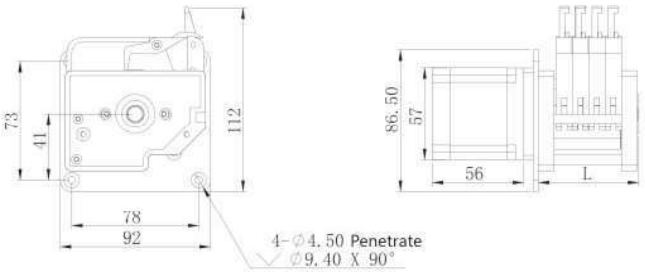
Dimension Drawing(Unit: mm)




### OEM-B130/MC

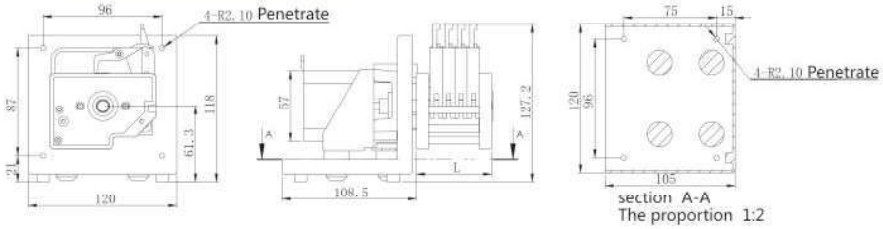
57 Stepper motor

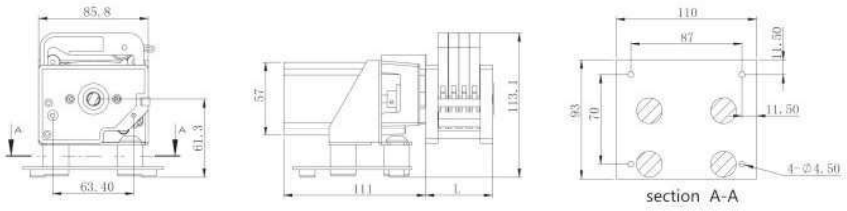
Dimension Drawing(Unit: mm)




### OEM-B19/MC

Dimension Drawing(Unit: mm)




### OEM-B120/DG

Dimension Drawing(Unit: mm)