# Ring Pump®

# Stepper motor type of RP-QⅡ/RP-QⅢ series
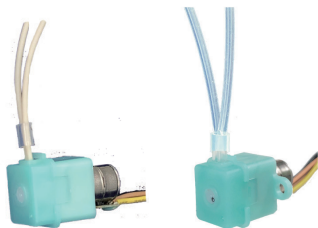
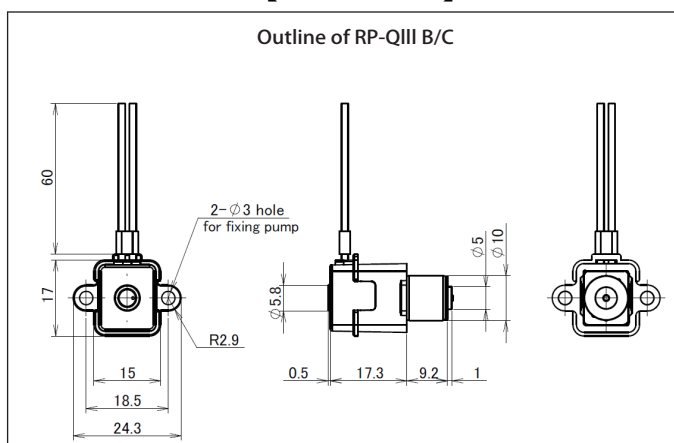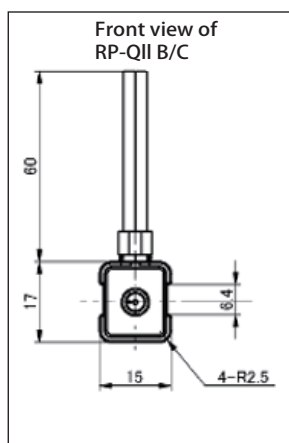RP-QⅡ B/C series   RP-QⅢ B/C series

When the pump head is detached.

## Features

● We are introducing stepper motor type of RP-QⅡ and RP-QⅢ which are pump head replaceable, according to the strong requests from many of our customers.

● All the specifications and functions are same between RP-QⅡ seris and RP-QⅢ series. The only difference is that RP-QⅢ series has mounting holes which is useful for some customers.

● Pump head can be sterilized.
  * By autoclave : 121℃ 25 minutes (Available only for silicone tubing)   *By Gamma rays : 25 kGy
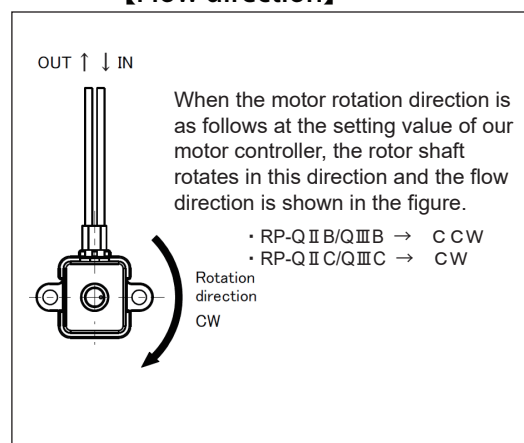
## Recommended application

Analytical instruments, medical devices, fuel cell and many other usages.
Recently, such applications as cell culturing are growing where micro-fluidic control is indispensable.

By using with our separately sold programmable motor controllers such as RE-C500/501and RE-C600, you can make use of wide range flow control.

## 【Outline view】

**Front view of RP-QⅡ B/C**

Outline of RP-QⅢ B/C

2-∅3 hole for fixing pump

## 【Flow direction】

OUT ↑ ↓ IN

When the motor rotation direction is as follows at the setting value of our motor controller, the rotor shaft rotates in this direction and the flow direction is shown in the figure.

・RP-QⅡB/QⅢB → CCW
・RP-QⅡC/QⅢC → CW

Rotation direction CW

## Model Lineup

| Model Lineup | VM value ( V ) | Flow rate ( μL/min ) | Tubing | | Model name of Pumphead |
|---|---|---|---|---|---|
| | | | Type | ID x OD (mm) | |
| RP-QⅡC1.5S-1P1A-DC3VS | 3.0 (Recommended) | 1.1 - 1100 | Silicone | 1.5 x 2.5 | RK-QⅡ1.5S |
| RP-QⅢC1.5S-1P1A-DC3VS | 3.0 (Recommended) | 1.1 - 1100 | Silicone | 1.5 x 2.5 | RK-QⅡ1.5S |
| RP-QⅡBP5S-P06A-DC3VS | 3.0 (Recommended) | 0.06 - 60 | Silicone | 0.5 x1.5 | RK-QⅡP5S |
| RP-QⅡBP5F-P06A-DC3VS | 3.0 (Recommended) | 0.06 - 60 | PharMed BPT | 0.5 x1.5 | RK-QⅡP5F |
| RP-QⅢBP5S-P06A-DC3VS | 3.0 (Recommended) | 0.06 - 60 | Silicone | 0.5 x1.5 | RK-QⅡP5S |
| RP-QⅢBP5F-P06A-DC3VS | 3.0 (Recommended) | 0.06 - 60 | PharMed BPT | 0.5 x1.5 | RK-QⅡP5F |
| The flow rate is based on the motor controller RE-C200, when driven at 1 to 1,000 PPS. | | | | | |

**In addition to the above, we have a wide range of pumps available that can be combined with different controllers.  Please see our website for details.**

## Connection example diagrams of PC controllable motor controller

**RE-C500**

Pump (RP-TX/HX/QIIB/QIIC/QIIIB/QIIIC) Up to 6 units, can be mixed

AC adapter (included)

Pump [CH1-6]   DC In

RE-C500   PC
USB cable (included)

**RE-C600**

Pump (RP-TX/HX/QIIB/QIIC/QIIIB/QIIIC) 1 piece

For wiring without connector
For wiring with connector

AC adapter (included)

PC
USB cable (included)

Aquatech Motor Controller

RE-C600