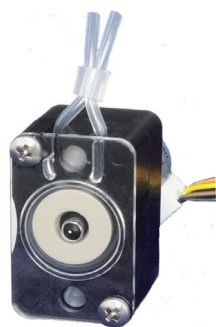


## RP-HX Series



### Features

- The world smallest level flow rate.
- Wide range of flow levels are possible by using different pumpheads.
- Docking of the pumphead can be done in one action by using magnet for docking.
- Autoclave sterilizable pumphead is available.

### Examples of application

Analytical instruments, medical devices, cell culturing experiments and many other usages where micro-fluidic control is needed.

### Main specifications

|   |                               |
|---|-------------------------------|
| Flow rate ( $\mu\text{L}/\text{min}$ )* | 2 - 1,000                     |
| Tubing                                  | Silicone, PharMed BPT         |
| Motor/Power source                      | Stepper motor DC 2.6 - 3V     |
| Weight (for reference)                  | Approx. 44g (Varies by motor) |

\* Flow rate is at revolution speed 5 - 1,000 pps (1/4 micro step).

### Replaceable Pumphead

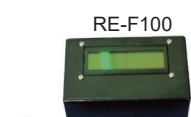
### Motor Controller



Replaceable pumphead  
RK-HXP5S



Replaceable pumphead  
RK-HXP5S-C  
Autoclave sterilizable



RE-F100



RE-C100  
Motor controller and frequency  
counter for RP-HX pumps

### PC Programmable Motor Controller



RE-C500



RE-C501

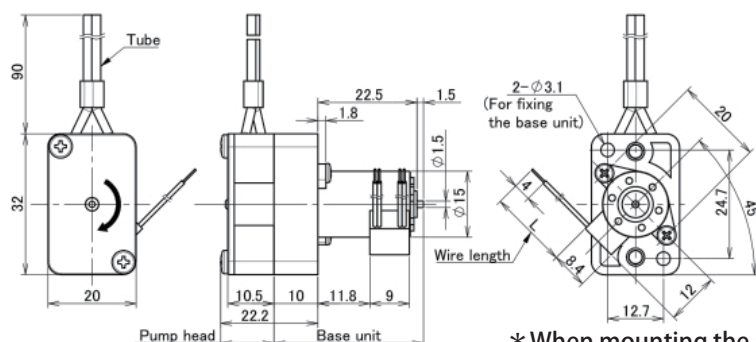


RE-C600

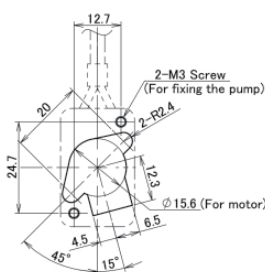
- \* You can control 6 pumps with RE-C500.
- \* RE-C500 can be connected with one set of RE-C501 which can control 6 pumps. Thus, maximum 12 pumps can be controlled by each one set of RE-C500 and RE-C501.
- \* Each operation sequence of the pump can be programmed and by storing the program data in the RE-C500, the pump can be driven without a PC connection.
- \* Mixture of different pumps is possible.

- \* You can control one pump with RE-C600.
- \* Can be stopped at a specified number of revolutions up to 30 times, enabling fixed volume dispensing operation at a specified multiple of the dispensing volume per revolution.
- \* Each operation sequence of the pump can be programmed and by storing the program data in the RE-C600, the pump can be driven without a PC connection.
- \* Both pumps with and without connector of motor wiring are applicable.

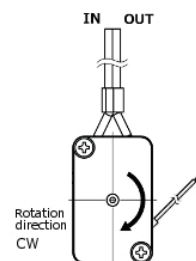
### Outline view



### Mounting plate view



### Flow direction in CW revolution



\* When mounting the pump head on the base unit, it is possible to rotate the pump head 180 degrees so that the tubing faces downwards.

### Model Lineup

| Model Lineup        | Pumphead   | Autoclave sterilization | Connector                | Flow rate ( $\mu\text{L} / \text{min}$ ) | Tubing     |              |
|---------------------|------------|-------------------------|--------------------------|--|------------|--------------|
|                     |            |                         | Cord length              |  | Type       | ID x OD (mm) |
| RP-HXP5S-P4A-DC3VS  | RK-HXP5S   | No                      | No connector<br>15 cm    | 2 - 400                                  | Silicone   | 0.5 x 1.5    |
| RP-HX01S-1A-DC3VS   | RK-HX01S   | No                      | No connector<br>15 cm    | 5 - 1,000                                | Silicone   | 1.0 x 2.0    |
| RP-HXP5F-P25A-DC3VS | RK-HXP5F   | No                      | No connector<br>115 cm   | 2 - 350                                  | PhaMed BPT | 0.5 x 1.5    |
| RP-HXP5S-P4E-DC3VS  | RK-HXP5S-C | Yes                     | No connector             | 2 - 400                                  | Silicone   | 0.5 x 1.5    |
| RP-HX01S-1H-DC3VS   | RK-HX01S-D | Yes                     | 115 cm                   | 5 - 1,000                                | Silicone   | 1.0 x 2.0    |
| RP-HXP5S-P4G-DC3VS  | RK-HXP5S   | No                      | With connector<br>65 cm  | 2 - 400                                  | Silicone   | 0.5 x 1.5    |
| RP-HX01S-1J-DC3VS   | RK-HX01S   |                         |                          | 5 - 1,000                                |            | 1.0 x 2.0    |
| RP-HXP5S-P4H-DC3VS  | RK-HXP5S   |                         | With connector<br>215 cm | 2 - 400                                  |            | 0.5 x 1.5    |
| RP-HX01S-1K-DC3VS   | RK-HX01S   |                         |                          | 5 - 1,000                                |            | 1.0 x 2.0    |
| RP-HXP5S-P4J-DC3VS  | RK-HXP5S-C | Yes                     | With connector           | 2 - 400                                  | Silicone   | 0.5 x 1.5    |
| RP-HX01S-1L-DC3VS   | RK-HX01S-D |                         | 215 cm                   | 5 - 1,000                                |            | 1.0 x 2.0    |

\* PharMed BPT is product of Saint-Gobain SA and formerly described as PharMed in our brochure.

- \* 1. Select pumps with connector when you wish to control them by motor controller RE-C500/C501.
- \* 2. Pumps without connector can be controlled by motor controller RE-C100.
- \* 3. Motor controller RE-C600 can control pumps both with and without connector.