Ring Pump®

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 (μ L/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



Replaceable pumphead **RK-HXP5S**

Replaceable pumphead RK-HXP5S-C





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





- * You can control one pump with RE-C200 * RE-C200 can be connected with two sets of slave controller RE-C201 and each set can control 4 pumps. Thus, maximum 9 pumps can be controlled by the set of one RE-C200 and two RE-201
- * Mixture of different pumps is possible



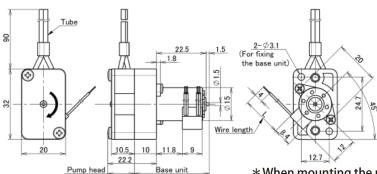
ntrol 6 pumps with RE-C500.

- 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-501.



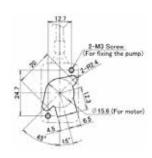
- * Can be stopped at a specified number of revolutions up to 30 times, enabling fixed volume dispensing operation at a specified multiple of the dispensing volume per revo lution
- Each operation sequence of the pump can be programmed and by storing the program data in the RE-C600, the pump can be driven without a PC connection.

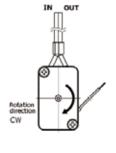
Outline view



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	Connector	Flow rate	Tubing	
		sterilization	Cord length	(μ L / min)	Type	ID x OD (mm)
RP-HXP5S-P4A-DC3VS	RK-HXP5S	No	No connector	2 - 400	Silicone	0.5 x 1.5
RP-HX01S-1A-DC3VS	RK-HX01S	No	No connector	5 - 1,000	Silicone	1.0 x 2.0
RP-HXP5F-P25A-DC3VS	RK-HXP5F	No	No connector 115 cm	2 - 350	PhaMed BPT	0.5 x 1.5
RP-HXP5S-P4E-DC3VS	RK-HXP5S-C	Yes Yes	No connector 115 cm	2 - 400	Silicone	0.5 x 1.5
RP-HX01S-1H-DC3VS	RK-HX01S-D			5 - 1,000	Silicone	1.0 x 2.0
RP-HXP5S-P4G-DC3VS	RK-HXP5S	No	With connector 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 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 215 cm	2 - 400	Silicone	0.5 x 1.5
RP-HX01S-1L-DC3VS	RK-HX01S-D			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-C200/C201/C100.
- * 3. Motor controller RE-C600 can control pumps both with and without connector.