

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. No screw bolt is necessary.
- Autoclave sterilizable pumphead is available.

Examples of application

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

Main specifications

Flow rate ($\mu\text{L}/\text{min}$)*	4 - 1,000
Tubing	Silicone, Olefin
Motor/Power source	Stepper motor DC 2.6 - 3V
Material of main parts	Case : Fiber glass reinforced PC
Weight (for reference)	Approx. 28g

* 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
Autoclave sterilizable

Motor Controller



RE-F100
Motor controller and frequency
counter for RP-HX pumps

New Motor Controller RE-C200 & C201

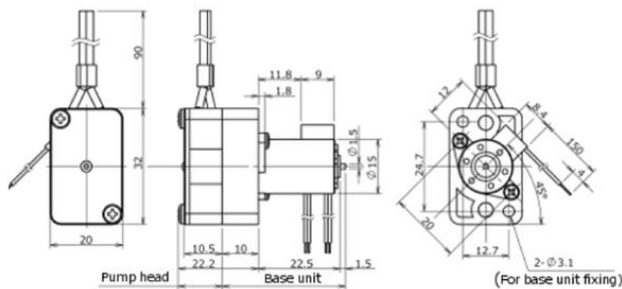
RE-C200

RE-C201

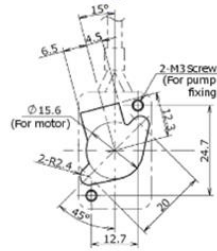
Set example with PC

Software display on PC

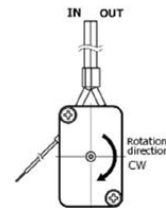
Outline view



Mounting plate view



Flow direction in CW revolution



Model Lineup

Model Lineup	Pumphead	Voltage (DC/V)	Flow rate ($\mu\text{L}/\text{min}$)	Tubing	
				Type	IDxOD (mm)
RP-HXP5S-P4A-DC3VS	RK-HXP5S	3	2 - 400	Silicone (S)	0.5 x 1.5
RP-HXP5S-P4E-DC3VS	RK-HXP5S-C (sterilizable)	3	2 - 400	Silicone (S)	0.5 x 1.5
RP-HX01S-1A-DC3VS	RK-HX01S	3	5 - 1,000	Silicone (S)	1.0 x 2.0
RP-HX01S-1H-DC3VS	RK-HX01S-D (sterilizable)	3	5 - 1,000	Silicone (S)	1.0 x 2.0
RP-HXP5F-P25A-DC3VS	RK-HXP5F	3	2 - 350	Olefine (F)	0.5 x 1.5

Flow rate in using our motor controller

Model Lineup	RE-C100 ($\mu\text{L}/\text{min}$)		RE-C200, C201 ($\mu\text{L}/\text{min}$)
	1/4 micro step	1/8 micro step	
RP-HXP5S-P4A-DC3VS	5 - 400	2.5 - 200	2 - 400
RP-HXP5S-P4E-DC3VS	5 - 400	2.5 - 200	2 - 400
RP-HX01S-1A-DC3VS	12 - 1,000	6 - 500	5 - 1,000
RP-HX01S-1H-DC3VS	12 - 1,000	6 - 500	5 - 1,000
RP-HXP5F-P25A-DC3VS	4 - 350	2 - 180	2 - 350