

Peristaltic Pump MP-2000·2100·2010·2110

Standard tube pumps for supplying stable flow (Screw or Fixed groove tube fixing system).



MP-2000

MP-2100

MP-2000A

MP-2000B

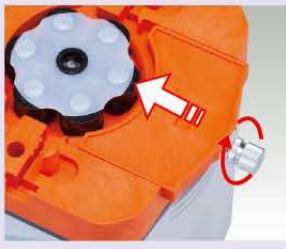
Features

- All-in-one roller set implements one touch roller setting.
- Two types of tube fixing; conventional fixing screw and constant pressure spring system.
- Highly accurate discharge and high reproducibility of flow rate make the unit suitable for small volume flow.
- Forward or reverse flow is selectable.
- Tube adapter with short tube is provided for easy replacement of tubes.
- Tube stopper with lock provides smooth replacement of tube during and after pump operation.

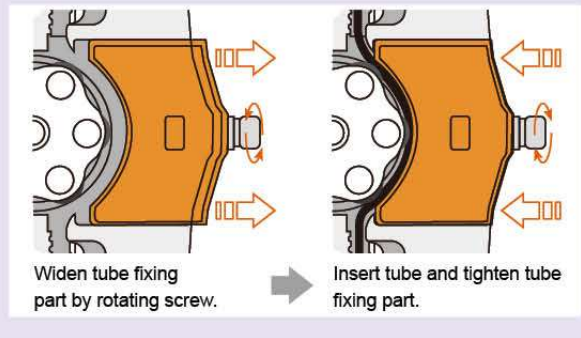
Specifications

Product name	Peristaltic Pump							
Model name	MP-2000	MP-2100	MP-2000A	MP-2000B	MP-2010	MP-2110	MP-2010A	MP-2010B
Cat. No.	252620	252620	251320	251340	251300	252640	251330	251350
Type	Standard				Small volume			
Tube fixing system	Screw		Fixed width groove		Screw		Fixed width groove	
Flow rate	10~1450mL/hx2	10~1450mL/hx4	10~180mL/h	80~1450mL/h	0.5~72.5mL/hx2	0.5~72.5mL/hx4	0.5~9mL/h	5~72.5mL/h
Flow rate accuracy	±2% (Reproducibility within ±1%)							
Max. discharge pressure	196kPa (2kg/cm ²)		147kPa (1.5kg/cm ²)		196kPa (2kg/cm ²)		147kPa (1.5kg/cm ²)	
Max suction pressure	9.8kPa (0.1kg/cm ²)							
Liquid viscosity & temperature	Max. 2Pa·s (2000cP) 0~60°C (No freezing)							
Rotation setting	Volume setting							
Liquid flow direction	Forward and reverse							
Safety function	Thermal protector, fuse							
Tube case	PET		PVC		PET		PVC	
Motor	AC speed control, Induction motor 15W							
Tube case stage	1 (Option 2)	2	1		1 (Option 2)	2	1	
Connectable tube	2	4	1		2	4	1	
Connectable tube material	Silicone, Tygon, Fliran, PharMed							
Connectable tube diameter	OD 3~6.1mm		ID 1.15~OD 3.2mm	ID 3.7~OD 6.1mm	OD 3~6.1mm		ID 1.15~OD 3.2mm	ID 3.7~OD 6.1mm
Dimensions (mm)	120Wx130Dx177H	120Wx130Dx206H	120Wx130Dx178H		120Wx130Dx177H	120Wx130Dx206H	120Wx130Dx178H	
Weight	3kg	3.3kg	3.2kg		3.1kg	3.4kg	3.2kg	
Power source	40VA AC100V							

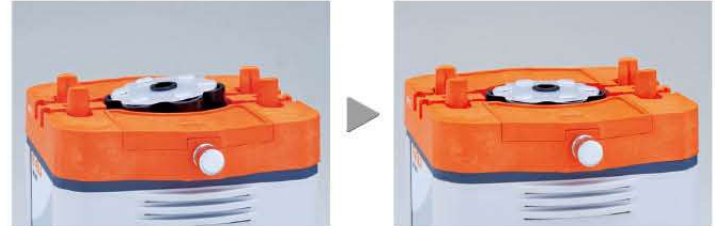
Point! Screw type tube fixing system



Constant discharge pressure can be obtained regardless of the type or diameter of tubes.

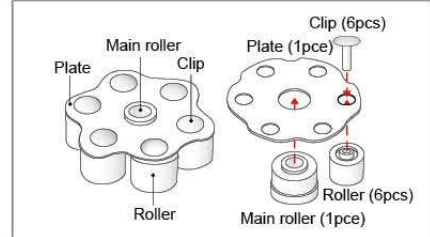


All-in-one roller set



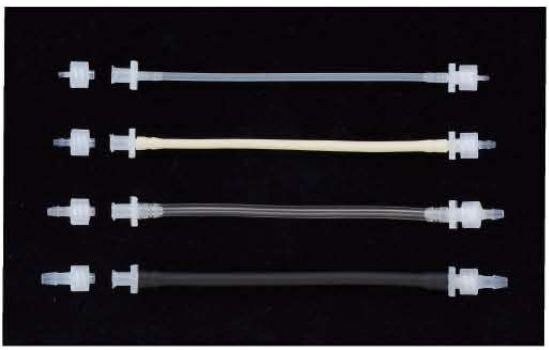
All-in-one roller set implements one touch roller setting by switching ON.

The configuration of the roller part



- Roller set
Cat. No. 252570
- Main roller
Cat. No. 252550
- Roller (6pcs)
Cat. No. 252560
- Clip (6), Plate (1) set
Cat. No. 196150

Options



Tube can be used by exchanging consumable part only. Tube case connection is by one touch.



Adapter Set Tube

Tube material	ID x OD (mm)	Cat. No.
Silicon	1.15×3.2	252680
	2.15×4.2	252690
	3.15×5.2	252700
	3.7×6.1	252710
PharMed®	1.15×3.2	252720
	2.15×4.2	252730
	3.15×5.2	252740
	3.7×6.1	252750
Tygon®	1.15×3.2	252760
	2.15×4.2	252770
	3.15×5.2	252780
	3.7×6.1	252790
Fluran®	1.15×3.2	252800
	2.15×4.2	252810
	3.15×5.2	252820
	3.7×6.1	252830

Compatibility by changing or adding tube case (MP-30003-100)

Change to other one stage type (Change tube case)

Upper stage

① (Screw) ④ (Spring)
② (Groove A) ③ (Groove B)

Change to two stage type (Add lower stage tube case)

Upper stage

Lower stage

① (Screw) ④ (Spring) ② (Groove A) ③ (Groove B)
⑤ (Screw) ⑥ (Spring)

Tube case set	Model	Cat. No.
① Change to MP-2000 • 2010 For MP-2000 • 3000 • 4000	TCS-0	251220
② Change to MP-2000A • 2010A For MP-2000A • 3000A	TCS-A	251240
③ Change to MP-2000B • 2010B For MP-2000B • 3000B	TCS-B	251250

Tube case set	Model	Cat. No.
④ Change to MP-2001 • 2011 For MP-2000 • 3000 • 4000	TCS-1	251260
⑤ Change to MP-2100 • 2110 For MP-2000 • 3000 lower stage	TCS-100	251230
⑥ Change to MP-2101 • 2111 For MP-2000 • 3000 lower stage	TCS-101	251270

- 1 Rotary Evaporator
- 2 Vacuum Pump & Aspirator
- 3 Organic Synthesizer
- 4 Freeze Drier / Spray Drier
- 5 Shaker
- 6 Stirrer
- 7 Tube Pump
- 8 Low Temperature Circulator
- 9 Cold Trap
- 10 Orbital Temperature Bath
- 11 Incubator
- 12 Oven
- 13 Fermentor

Peristaltic Pump MP-2001series

Spring-tube case reduces the time and effort for tightening adjustment.



MP-2001

MP-2101

Features

- Constant pressure on tube by spring prevents over pressure fixing.
- Lock stoppers are provided at both ends of the tube case to facilitate shift or exchange of tubes.
- MP-2001•2011 allow two tube lines and MP-2101•2111 allows four tube lines.
- Forward or reverse flow is selectable.
- By changing tube case, the pump can be changed to MP-2000•2100 (screw fixing, fixed width groove) model.

Specifications

Product name	Peristaltic Pump			
Model name	MP-2001	MP-2101	MP-2011	MP-2111
Cat. No.	251290	252630	251310	252650
Type	Standard		Small volume	
Tube fixing system	Standard		Spring	
Flow rate	10~1450mL/h x 2	10~1450mL/h x 4	0.5~72.5mL/h x 2	0.5~72.5mL/h x 4
Flow rate accuracy	±2% (Reproducibility within ±1%)			
Tube case stage	1 (Option 2)	2	1 (Option 2)	2
Connectable tube	2	4	2	4
Max. discharge pressure	98kPa (1kg/cm ²)			

Peristaltic Pump MP-3000•3100

Super extensive flow range and outstanding reproducibility by digital rotation number display.

Features

- DC servo motor implements x3000 variable magnification. Wide discharge volume range is available by one tube.
- Three types of tube fixing; conventional screw fixing, fixed groove or constant pressure spring system.

Specifications

Product name	Peristaltic Pump					
Model name	MP-3000	MP-3001	MP-3000A	MP-3000B	MP-3100	MP-3101
Cat. No.	251360	251370	251380	251390	252660	252670
Tube fixing system	Screw	Spring	Fixed width groove		Screw	Spring
Flow rate	0.06~1400mL/h x 2		0.06~180mL/h	0.5~1400mL/h	0.06~1400mL/h x 4	
Flow rate accuracy	±2% (Reproducibility within ±1%)					
Tube case stage	1 (Expandable to 2 stages)		1		2	
Connectable tube	2		1		4	
Max. discharge pressure	196kPa (2kg/cm ²)	98kPa (1kg/cm ²)	147kPa (1.5kg/cm ²)		196kPa (2kg/cm ²)	98kPa (1kg/cm ²)

Peristaltic Pump MP-4000•4001

LCD digital setting and display pump with multi function display including flow conversion.

Specifications

Product name	Peristaltic Pump	
Model name	MP-4000	MP-4001
Cat. No.	251400	251410
Tube fixing system	Screw	Spring
Flow rate	0.06~1450mL/h x 2	
Flow rate accuracy	±1% (Reproducibility within ±1%)	
Tube case stage	1 (Expandable to 2 stages)	
connectable tube	2	
Max. discharge pressure	196kPa (2kg/cm ²)	98kPa (1kg/cm ²)

Tube selection guide



PharMed BPT Tube Long life 1/60 glass transparency

Made by Saint-Gobain (USA) exclusively for Eyela.
Expected lifetime of the tube is 5~10 times longer compared to silicone tube. Significantly small risk of liquid leakage by tube breakage will also requires less frequency of tube change.

Transparency of glass against nitrogen, oxygen, CO₂ is 1/60 compared to silicone tube.

Applicable pump	Size (mm)	Length (m)	Cat. No.
MP-2000•2001•2000A•2010•2011•2010A•2100•2101•2110•2111•3000•3001•3000A•3100•3101•4000•4001, SMP	ID 1.15×OD 3.2	7.5	125320
		1.5	125330
MP-2000•2001•2010•2011•2100•2101•2110•2111•3000•3001•3100•3101•4000•4001, SMP	ID 2.15×OD 4.2	7.5	125340
		1.5	125350
	ID 3.15×OD 5.2	7.5	125360
		1.5	125370
MP-2000•2001•2000B•2010•2011•2010B•2100•2101•2110•2111•3000•3001•3000B•3100•3101•4000•4001	ID 3.7×OD 6.1	7.5	125380
		1.5	125390
RP-1000•2000•2100 NRP-3000	ID 4.76×OD 7.94	7.5	125400
	ID 6.35×OD 9.53	7.5	125420
	ID 7.94×OD 11.11	7.5	125440



Silicone tube Stable flow rate

Max. heat resistance of 200°C.
Material used is exclusively prepared for tube pumps to realize long life time. Tube dimensions are checked by every lot to secure stable flow rate. Can be used with auto clamp.

Applicable pump	Size (mm)	Length (m)	Cat. No.
MP-2000•2001•2000A•2010•2011•2010A•2100•2101•2110•2111•3000•3001•3000A•3100•3101•4000•4001, SMP	ID 1.15×OD 3.2	15	125460
		5	125470
MP-2000•2001•2010•2011•2100•2101•2110•2111•3000•3001•3100•3101•4000•4001, SMP	ID 2.15×OD 4.2	15	125480
		5	125490
	ID 3.15×OD 5.2	15	125500
		5	125510
MP-2000•2001•2000B•2010•2011•2010B•2100•2101•2110•2111•3000•3001•3000B•3100•3101•4000•4001	ID 3.7×OD 6.1	15	125520
		5	125530
RP-1000•2000•2100 NRP-3000	ID 4.76×OD 7.94	7.5	125540
	ID 6.35×OD 9.53	7.5	125560
	ID 7.94×OD 11.11	7.5	125580



Tygon tube Strong anti-corrosion against inorganic solvents

Made by Saint-Gobain (USA) exclusively for Eyela.
Less tube deterioration thanks to strong anti-corrosive character of the tube material.
Transparent tube makes it possible to observe flow rate and make it easy to connect tube to piping.

Applicable pump	Size (mm)	Length (m)	Cat. No.
MP-2000•2001•2000A•2010•2011•2010A•2100•2101•2110•2111•3000•3001•3000A•3100•3101•4000•4001, SMP	ID 1.15×OD 3.2	15	125600
		5	125610
MP-2000•2001•2010•2011•2100•2101•2110•2111•3000•3001•3100•3101•4000•4001, SMP	ID 2.15×OD 4.2	15	125620
		5	125630
	ID 3.15×OD 5.2	15	125640
		5	125650
MP-2000•2001•2000B•2010•2011•2010B•2100•2101•2110•2111•3000•3001•3000B•3100•3101•4000•4001	ID 3.7×OD 6.1	15	125660
		5	125670
RP-1000•2000•2100 NRP-3000	ID 4.76×OD 7.94	15	125680
	ID 6.35×OD 9.53	15	125700
	ID 7.94×OD 11.11	15	125720



Fluran tube Strong anti-chemical characteristic

Made by Saint-Gobain (USA) exclusively for Eyela.
Strongest anti-chemical characteristic in 4 tube models.
Fluorine rubber based tube material realizes strong chemical resistance.
Max. heat resistance of 204°C.

Applicable pump	Size (mm)	Length (m)	Cat. No.
MP-2000•2001•2010•2011•2100•2101•2110•2111•3000•3001•3100•3101•4000•4001, SMP	ID 2.15×OD 4.2	7.5	125760
		1.5	125770
	ID 3.15×OD 5.2	7.5	125780
		1.5	125790
MP-2000•2001•2000B•2010•2011•2010B•2100•2101•2110•2111•3000•3001•3000B•3100•3101•4000•4001	ID 3.7×OD 6.1	7.5	125800
		1.5	125810
RP-1000•2000•2100 NRP-3000	ID 4.76×OD 7.94	7.5	125830
	ID 6.35×OD 9.53	7.5	125850
	ID 7.94×OD 11.11	7.5	125870