

## ⚠ Precautions

- Peggy requires a measuring pipette to be into the nozzle prior to use.
- Do not aspirate any sample or liquid beyond the pipette or into the nozzle.
- Do not disassemble this product.
- Press the aspiration and discharge buttons slowly and smoothly. Rapid action may cause problems such as contamination, or splashing of the sample.
- Do not tilt the pipette sideways when a sample is held inside of the measuring pipette.
- Use caution and refer to pertinent regulations when pipetting contaminants, radioactive or toxic materials.
- Verify the chemical compatibility of the measuring pipette before use, especially when using organic solvents or highly reactive materials.
- Use caution when making volume changes with samples that are highly volatile or have different physical properties.
- Maintain a constant temperature of Peggy, the measuring pipettes and the samples to be measured when pipetting. Temperature variations can cause inaccuracy in pipetting volumes.
- Do not clean this product with highly reactive solvents such as acetone, etc.
- Use Watson brand measuring pipettes.

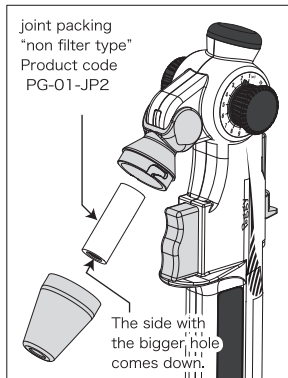
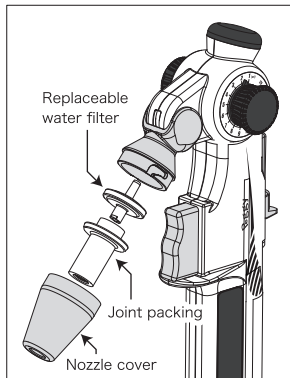
## To reduce physical stress from repetitive operation.

You can reduce physical stress by taking off the water-stop filter and replacing the joint packing with the "non filter type" .

### Precaution Pay attention to the aspiration volume setting.

When the water stop filter is taken off, improper volume setting can cause excess aspiration into the product.  
Make sure the aspiration volume is set suitably for the volume of the pipette to be used.

- ① Turn the top of the nozzle anticlockwise by 35 degrees.



- ② Pull off the joint packing and the water stop filter.

- ③ Replace the joint packing with the "non filter type" , and fit the nozzle cover.

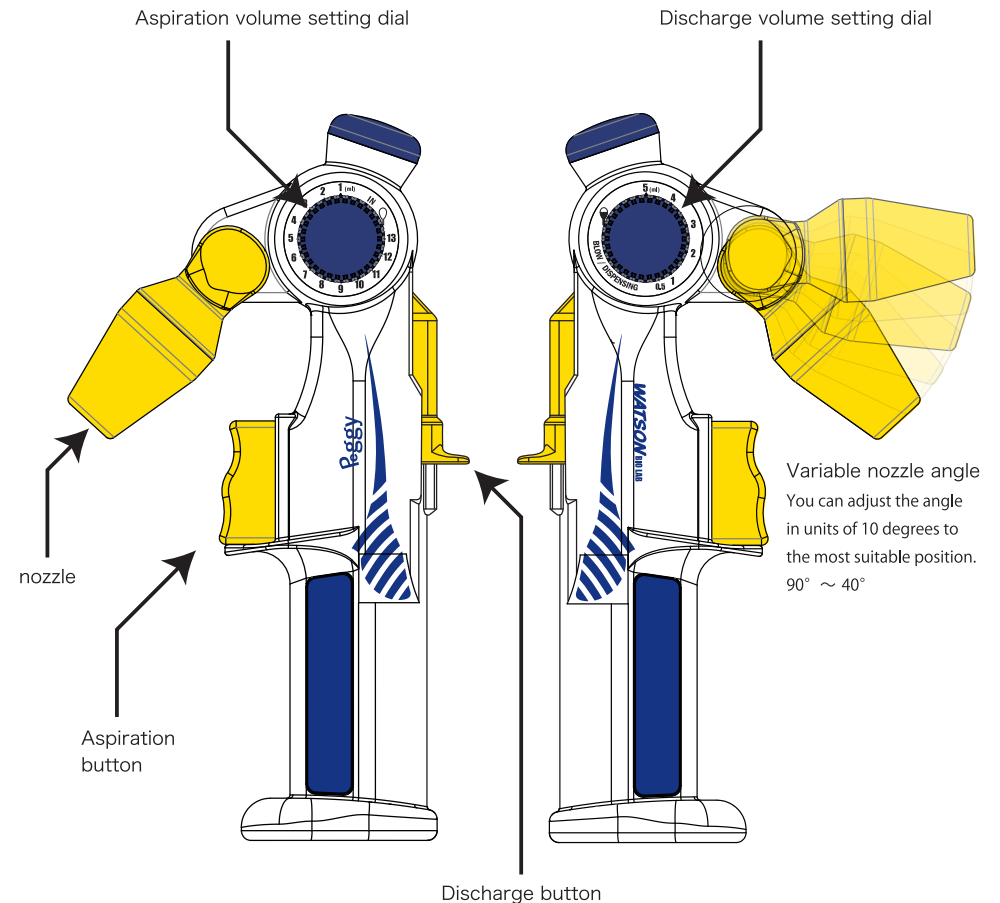
**Made in Japan**

## Repetitive Pipette Peggy

Batteries not required. Ideal for quick and easy repetitive pipetting.

Product name	Repetitive Pipette Peggy
Cat. No.	PG-01

## Parts Name

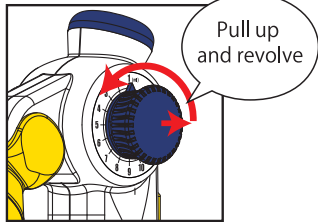


## Aspiration

**Hold Peggy to keep the measuring pipette in vertical position during aspirating or discharging.**

\* Operation while keeping the measuring pipette in diagonal position may cause incorrect accuracy.

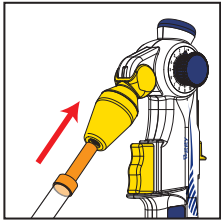
- ① To set the aspiration volume



### Caution when using 5mL measuring pipette :

Please do not aspirate volumes above 5mL when using a 5mL measuring pipette or the sample may be aspirated into this product and cause contamination. In case of contamination, remove the nozzle and joint packing, clean and replace the filter if the sample was aspirated into this product (refer to "Filter replacement").

- ② Fit a measuring pipette



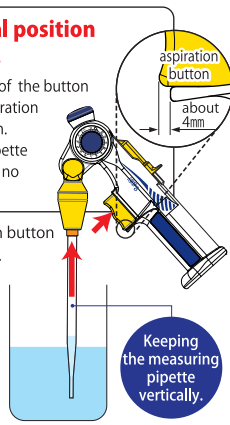
- ③ Aspiration

Push in the aspiration button once slowly and smoothly until the button stops to aspirate the set volume.

※ Make sure the aspiration button is back at the original position before aspiration.

### How to check the original position of the aspiration button.

The button sticks out from the edge of the button guide by about 4 mm, when the aspiration button is back at the original position. Push the discharge button with a pipette unloaded until the aspiration button no longer moves.

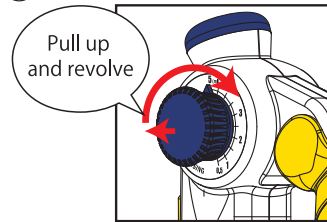


※ The movable range of the aspiration button is variable depending on the setting. The smaller the set volume is, the less the movable range is. Do not push in the aspiration button forcibly when it stops. It enables the protection system to unlock and change the dial setting.

※ When completing aspiration, pull up the tip of measuring pipette slowly from the liquid surface. Rapid action may lead to liquid droplet falling by the law of inertia.

## Discharge

- ① To set the discharge volume



- ② Discharge

A single push of the discharge button discharges the set volume. ※ Keep the button pressed until the liquid stops coming out from the pipette.

Release the button and it returns to the original position for the next discharge. The discharge button enables you to discharge the same volume repeatedly.

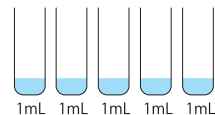
※ When you discharge repeatedly, make sure the button comes back to the top position every time discharge is completed.

Discharging before the button comes back to the position results in less volume than preset to obtain.

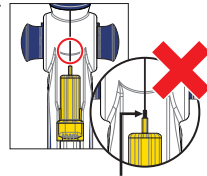
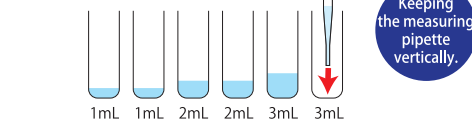
※ When you discharge higher volume, press the discharge button slowly. Rapid action causes droplets left on the inner wall of the pipette and the loss of accuracy.

※ While Dispensing, softly putting the tip of measuring pipette against the wall surface of the container improves dispensing accuracy. (The amount of a droplet is around 0.03 ~ 0.05mL)

※ The aspiration button comes back to the original position as you push the discharge button. Release your fingers from the aspiration button while operating the discharge button.

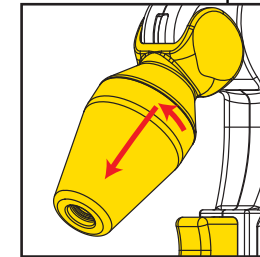


Dispensing volumes can be adjusted after the initial aspiration. For example if you aspirate 12mL, you can dispense different volumes totaling 12mL (e.g. 1mL, 1mL, 2mL, 2mL, 3mL and 3mL).



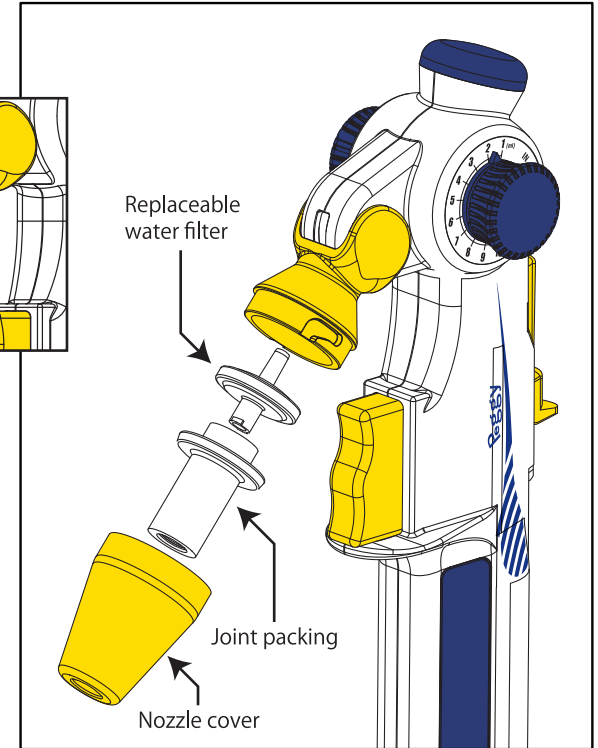
## Filter replacement

- ① Turn the nozzle 35 degrees to remove.



- ② Pull off the water stop filter and the joint packing.

- ③ Fit the new filter and sterilized joint packing.



### Specification\*\*

Aspiration Volume	Max. Aspiration Volume	Min. Aspiration Volume
	13mL	1mL
Discharge Volume	Max. Discharge Volume	Min. Discharge Volume
	5mL	0.5mL
Accuracy	Aspiration 1mL, 2mL: ±10% more than 3mL: ±5%	
	Discharge 0.5mL, 1mL: ±10% more than 1.5mL: ±5%	
Precision	Discharge 1mL, 2mL: ≤10% more than 3mL: ≤5%	
	Discharge 0.5mL, 1mL: ≤10% more than 1.5mL: ≤5%	
Nozzle Angle	40°~90° Variable in the unit of 10°	
Water Filter	Cat# PG-01-SF1	
Joint Packing	Autoclavable Cat# PG-01-JP1	
Nozzle Cover	Autoclavable	
Size	W 70mm x H 224mm x D 117mm ~ 137mm (Variable depending on the nozzle angle.)	
Weight	180 g	

### Compatible pipette (Sold separately)

**WATSON Dispo Pipette**

5mL 1650-0055

10mL 1650-0105

Electron beam sterilized, RNase/DNase-free  
Endotoxin level: less than 0.05 EU/mL  
Source: Internal inspection.

Body: PS  
Adapter: PP

**WATSON PP Dispo Pipette**

5mL 1653-005

10mL 1653-010

Dedicated adapter for PP Dispo Pipette provided with a built-in filter, made of PP

for 5mL 1653-AD5 for 10mL 1653-AD10

Body: PP

\*\*Specification as of 26.9.2014. Specification is subject to change for improvement without notice.