

Single-Channel Pipettor Instruction Manual



CATALOGUE



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Product Description

This pipette is a general purpose pipette for sampling and dispensing accurate liquid volumes. The pipettes operate on the air displacement principle and use disposable tips. The black tip cone can be sterilized (121°C, 0.15Mpa). The Pipettes cover a volume range of 0.1ul to 10ml. We require to perform quality test on every pipette before shipment and according to our quality control regulations all pipettes shall be done gravimetric tests with manufacturers' original tips using distilled water at 22°C.



The black tip cone Can be sterilized(121°C, 0.15Mpa)

Adjustable Volume Pipette

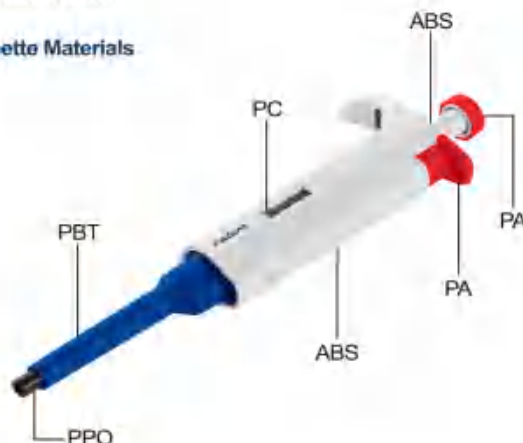
Part No.	Volume Range (ul)	Increment (ul)	Test Volume (ul)	Inacc.(%)	Impr.(%)	Tip (l)
SP0025	0.1-2.5ul	0.05ul	2.5ul	±3.0	≠3.0 l	10ul
			1.25ul	±3.0	≠4.0 l	
			0.25ul	±3.0	≠6.0 l	
SP010	0.5-10ul	0.1ul	10ul	±3.0	≠2.0 l	10ul
			5ul	±6.0	≠3.0 l	
			1ul	±10.0	≠3.0 l	
SP020	2-20ul	0.5ul	20ul	±3.0	≠1.5 l	200ul
			10ul	±3.0	≠2.0 l	
			2ul	±10.0	≠3.0 l	
SP050	5-50ul	0.5ul	50ul	±2.4	≠1.5 l	200ul
			25ul	±2.8	≠2.0 l	
			5ul	±6.0	≠3.0 l	
SP100	10-100ul	1ul	100ul	±1.5	≠1.0 l	200ul
			50ul	±2.2	≠1.5 l	
			10ul	±3.0	≠2.0 l	
SP200	20-200ul	1ul	200ul	±1.5	≠1.0 l	200ul
			100ul	±1.5	≠1.0 l	
			20ul	±3.0	≠1.5 l	
SP200A	50-200ul	1ul	200ul	±1.5	≠1.0 l	200ul
			100ul	±1.5	≠1.0 l	
			50ul	±2.2	≠1.5 l	
SP1000	100-1000ul	5ul	1000ul	±1.2	≠0.5 l	1000ul
			500ul	±1.5	≠0.5 l	
			100ul	±1.5	≠1.0 l	
SP1000A	200-1000ul	5ul	1000ul	±1.2	≠0.5 l	1000ul
			500ul	±1.5	≠0.5 l	
			200ul	±1.5	≠1.0 l	
SP5000	1000-5000ul	50ul	5000ul	±1.0	≠0.5 l	5000ul
			2500ul	±1.0	≠0.5 l	
			1000ul	±1.2	≠0.5 l	
SP10000	2-10ml	0.1ml	10ml	±0.5	≠0.2 l	10ml
			5ml	±0.8	≠0.3 l	
			2ml	±1.0	≠0.3 l	

Package

The pipette package contains the following items:

- Pipette
- Calibration/opening tool
- Grease
- Instructions for use

Pipette Materials



Pipette Operation

Set volume

Adjust the counter and set the pipette volume.

According to different ranges, the white decimal point is corresponding to the position



Following the following operation methods can better ensure the accuracy of the pipette

- When you want to reduce the volume, slowly adjust to the required volume, and do not exceed the target volume.
- When you need to increase the volume, first adjust to the range that exceeds 1/3 of the target volume, and then slowly adjust back to the target volume, and do not exceed the target volume.

► Fit The Tips

When matching the tip, slightly twist the liquid transfer device to ensure that the tip is firmly installed on the sleeve.



► Rinse Tips

Some liquids (such as protein-containing solutions and organic solutions) will leave a liquid film on the inner wall of the tip. The wetting nozzle can minimize the error of liquid transfer.

The liquid will be discharged into the original container (or discarded) during the first aspiration, and the subsequent aspiration can obtain better uniformity and accuracy.

► Aspiration

- Press and hold the button to the first stop (corresponding to the set volume)
- Hold the pipette vertically and immerse the tip into the liquid
- Slowly and smoothly release the button to the original position and inhale the liquid.
- Wait at least one second, and then remove the tip from the liquid. If you need to use a medical tissue to wipe the liquid drops outside the tip, please avoid the tip

► Drain

- Place the tip of the pipette close to the container wall at an angle of 10° - 40° .
- Slowly and steadily press the button to the first stop.
- Wait for at least one second, and press the button to the second stop point to completely discharge the liquid from the tip. Keep the button pressed and slide the suction nozzle gently along the container wall.
- Gently release the button, press the catapult button, and withdraw the tip.

► Remove The Tip



Maintenance

► Maintenance

- To maintain the best results from your pipette each unit should be checked every day for cleanliness. Particular attention should be paid to the tip cones. The pipettes have been designed for easy in-house service. However, we also provide complete repair and calibration service. Please return your pipette to your local representative for repair or recalibration. Before returning, please make sure that it is free from all contamination. Please advise our Service Representative of any hazardous materials which may have been used with your pipette.
- Note: Check the performance of your pipette regularly e.g. every 3 months and always after in-house service or regularly.

► Warranty Information

The pipettes are warranted for one year against defects in materials and workmanship. Should it fail to function in any period of time, please contact your local representative immediately. The warranty will not cover defects caused by normal wear or by using the pipette against the instructions given in this manual. Each pipette is tested before shipping by the manufacturer. The pipette you have purchased is ready for use.



Not all tip can obtain reliable experimental results. The PakGent tip is made of the highest quality material and achieves stable high quality and excellent performance through advanced production technology, delivering high-precision results for the experiment.

Pure And Pollution-Free

All of our sterile pipette tips are manufactured out of the highest grade resins and are certified to be RNase, DNase, DNA, pyrogen, and ATP free. Our non-sterile tips are made from the same high quality resins and are certified RNase and DNase free as well.

Perfect Fit Brand Pipette

Can be fit the Eppendorf, Thermo, Brand, Glison, Biohit etc.

Complete Categories

Provide various specifications and packages matching the needs of different experimental types, budgets and quantities.

32mm	10uL standard		
46mm	10uL extra long (bevelled)		
46mm	10uL extra long (thin & sharp)		
51mm	200uL yellow, bevelled		standard 200uL, normally used 200uL in bulk pack, and 20uL with filter as filter tips
51mm	200uL clear, bevelled		bigger body, gives 200uL volume even with filter; and 50uL/100uL filter tips are made of this type too.
60mm	200uL extra long (straight)		
90mm	200uL super long		For some specific application
80mm	1000uL standard blue		
89mm	1000uL (medium)		For some specific application
102mm	1,000uL extra long (so called 1,250uL) blue		Long enough to give 1,250uL max volume



rack pack



refill pack



bulk pack

The tip is an important part of the liquid transfer system. The perfect match between the pipette and the tip is the guarantee for the high accuracy of the pipette system.



without filter



with filter



low retention



non low retention