ECONOMY RANGE

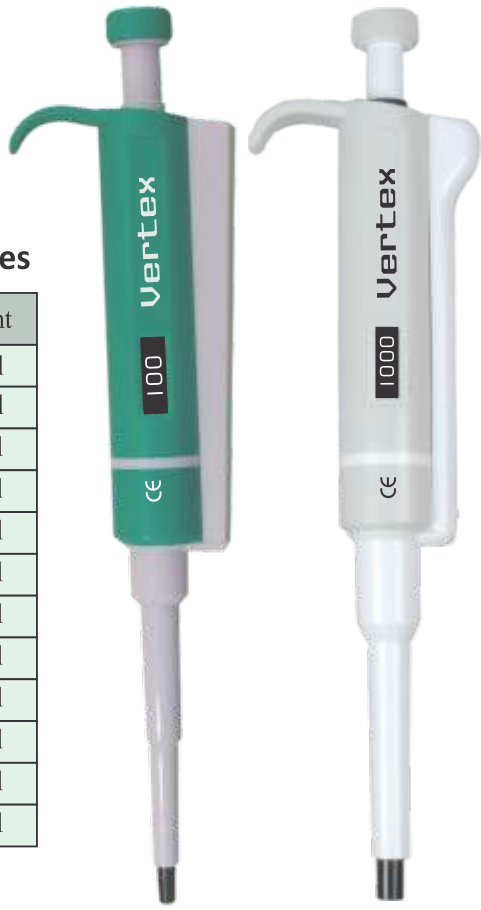
Non Autoclavable Micropipettes

Vertex Micropipettes are designed for many different types of routine laboratory work. Using the same state-of-art design and basic features of Variable & Fixed Volume Pipettes are ideal for Clinical Diagnostics, Control Analysis etc. ...

- ☑Constructed of High quality plastic, combined with stainless steel piston for many years of dependable service.
- ☑Individually Calibrated as per procedure laid down in ISO 8655 standards, a calibration report is provided with each pipette.
- ☑Accuracy and Precision values provided are better than those laid down in the ISO 8655 standards.
- ☑Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes.

Fixed Volume Pipettes are available in all capacities from 0.5 µl to 10000 µl (10 ml.)

Call our customer service for any Custom-made fixed volume micropipette between .3 µl - 10 ml.



VERTEX Fix volume pipettes

Cat No.	Volume Range
600680	1 µl
600700	2.5 µl
600720	5 µl
600740	10 µl
600760	20 µl
600780	25 µl
600800	50 µl
600820	100 µl
600840	200 µl
600860	250 µl
600880	500 µl
600900	1000 µl
600920	2000 µl
600940	3000 µl
600960	5000 µl
600980	10000 µl

VERTEX variable volume pipettes

Cat No.	Volume Range	Increment
600440	0.5 - 10 µl	0.1 µl
600460	2 - 20 µl	0.1 µl
600480	5 - 40 µl	1 µl
600500	5 - 50 µl	1 µl
600520	10 - 100 µl	1 µl
600540	20 - 200 µl	1 µl
600560	40 - 200 µl	1 µl
600580	50 - 200 µl	1 µl
600600	200 - 1000 µl	10 µl
600620	100 - 1000 µl	10 µl
600640	1 - 5ml	100 µl
600660	2 - 10ml	100 µl

PIPETTING RECOMMENDATIONS

Pipetting Preparations

- Use the tip specified by the manufacturer.
- Ensure that the micropipette and tip have been tested according to ISO 8655 Standards and the tip is fitted correctly.
- Make sure that the micropipettes are correctly calibrated.
- Check that the micropipette, tip and liquid are all at the same temperature.

Pipetting Action

- Hold the micropipette in a vertical position. Tilting the micropipette at an angle causes a volume greater than set volume of liquid to enter the tip.
- Pre-rincing of tip is always recommended.
- When aspirating fluid the micropipette tip should normally be immersed to a depth of 2-3 mm.
- It is recommended to pipetting against the inside wall of the receiving vessel. Remove the tip by drawing it up against the inside wall.
- Ensure that the micropipette blowout action is fully activated.

- When pipetting liquids with temperatures different to the ambient temperature do pre-rinse the tip and change the tip after each pipetting.
- Ensure that any fluid viscosity variations have been accounted for and the correct technique is employed, i.e. reverse pipetting .
- If handling infectious or radioactive agents make sure appropriate shielding and other precautions protect the operator.
- Ensure that the volume is still set at the required position.
- Avoid leaving the micropipette on its side with liquid in the tip, which might seep back into the mechanism.
- Rack the micropipette when not in use.
- Avoid dropping the micropipette or allowing contact with dirt or grease.
- Never strike the tip cone against the tip tray when mounting the tip, as this can damage the micropipette.
- Avoid exposing the unit to extreme temperature changes, humidity and dust (operating temperature from 15^{0}c to 40^{0}c).
- Clean the micropipette throughly before sending to service.

Trouble shooting Guide

Problem	Cause	Solution
Micropipette performance outside the given specs	■Unsuitable tip ■Non-standard test conditions or calibration altered ■Micropipette has not been maintained regularly ■Micropipette is leaking.	■Test with original manufacturer's tip ■Perform test according to the used ISO 8655 STANDARD and recalibrate if necessary ■Perform routine user maintenance and retest ■See instructions below.
Micropipette is leaking	■Unsuitable tip ■Tip incorrectly attached ■Worn or dirty tip cone ■Worn or dried piston sealing ■Instrument damaged	■Use original manufacturer's tip ■Attach tip firmly ■Clean the tip cone ■Change the tip cone ■Clean and regrease O-ring ■Change the O-ring ■Send for Service
Plunger jammed or moves erratically	■Liquid has entered tip cone and dried inside ■Insufficient amount of grease on a piston and seal.	■Clean and grease the piston/seal and the tip cone ■Grease accordingly
Micropipette blocked, aspirated volume too small	■Liquid entered the cone and dried	■Clean and regrease O-ring and piston and clean tip cone.
Tip ejector jammed or moves erratically	■Tip cone and / or ejector collar contaminated	■Clean with soft cloth and mild detergent or 70% ethanol.