Pipettes

TopPette-Mechanical Pipettes

Features for TopPette:

* Light weight, ergonomic, low force design
* Digital display clearly reads volume setting
* The pipettes cover volume range of 0.1µl to 10ml
* Easy to calibrate and maintain
* The lower part is autoclavable
* Design helps avoid repetitive strain injuries

Features for Multi-channel TopPette:

* 8-and 12-channel pipettes are available for standard 96-well plate
* Dispensing head rotates ensures optimum pipetting convenience
* Individual piston/tip cone assemblies allow easy repair and maintenance
* Compound material tip cone design allows visual seal vertification
* Universal pipette tips can be used

MicroPette Mechanical Pipettes

Features for MicroPette:

* Light weight, ergonomic, low force design
* Digital display clearly reads volume setting
* The pipettes cover volume range of 0.1µl to 10ml
* Easy to calibrate and maintain
* The lower part is autoclavable
* Design helps avoid repetitive strain injuries
* Manufactured from innovative materials

Features for multi-channel MicroPette:

* 8 and 12 channel pipettes are available for standard 96-well plate
* Dispensing head rotates for optimum pipetting convenience
* Individual piston and tip cone assemblies allow easy repair and maintenance
* Compound material tip cone design allows visual seal verification
* Universal pipette tips can be used

MicroPette Plus Autoclavable Pipette

Fully Autoclavable:

The MicroPette plus pipettes can be fully autoclaved at 121℃, 1 atm for less than 20 mins. The pipettes can be autoclaved without special preparations. After autoclaving the pipette must be cooled down and dried over 12 hours.

Features for MicroPette plus:

* Fully autoclavable
* Light weight, ergonomic, low force design
* Digital display clearly reads volume setting
* The pipettes cover volume range of 0.1µl to 10ml
* Easy to calibrate and maintain
* Design helps avoid repetitive strain injuries
* Manufactured from innovative materials

Features for multi-channel MicroPette plus:

* 8 and 12 channel pipettes are available for standard 96-well plate
* Individual piston and tip cone assemblies allow easy repair and maintenance
* Compound material tip cone design allows visual seal verification
* Universal pipette tips can be used
* Dispensing head rotates for optimum pipetting convenience

Note: It is recommended to check the performance of the pipette after each autoclaving. It is also recommended to grease the piston and seal of the pipette after each 10 autoclaving.

Technical Parameters:

TopPette Mechanical Pipettes/ MicroPette Mechanical Pipettes / MicroPette Plus Autoclavable Pipettes (Adjustable and Fixed Volume)

Single-channel Adjustable Volume Pipettes

Volume Range	Increment	Test Volume(µl)	Maximume Permissible Systematic Error		Maximume Permissible Random Error	
0.1-2.5µl	0.05µl	2.5	2.50%	0.0625µl	2.00%	0.05µl
		1.25	3.00%	0.0375µl	3.00%	0.0375µl
		0.25	12.00%	0.03µl	6.00%	0.015µl
0.5-10µl	0.1µl	10	1.00%	0.1µl	0.80%	0.08µl
		5	1.50%	0.075µl	1.50%	0.075µl
		1	2.50%	0.025µl	1.50%	0.015µl
2-20µl	0.5µl	20	0.90%	0.18µl	0.40%	0.08µl
		10	1.20%	0.12µl	1.00%	0.1µl
		2	3.00%	0.06µl	2.00%	0.04µl
5-50µl	0.5µl	50	0.60%	0.3µl	0.30%	0.15µl
		25	0.90%	0.225µl	0.60%	0.15µl
		5	2.00%	0.1µl	2.00%	0.1µl
10-100µl	1µl	100	0.80%	0.8µl	0.15%	0.15µl
		50	1.00%	0.5µl	0.40%	0.2µl
		10	3.00%	0.3µl	1.50%	0.15µl
20-200µl	1µl	200	0.60%	1.2µl	0.15%	0.3µl
		100	0.80%	0.8µl	0.30%	0.3µl
		20	3.00%	0.6µl	1.00%	0.2µl
50-200µl	1µl	200	0.60%	1.2µl	0.15%	0.3µl
		100	0.80%	0.8µl	0.30%	0.3µl
		50	1.00%	0.5µl	0.40%	0.2µl
100-1000µl	5µl	1000	0.60%	6µl	0.20%	2µl
		500	0.70%	3.5µl	0.25%	1.25µl
		100	2.00%	2µl	0.70%	0.7µl
200-1000µl	5µl	1000	0.60%	6µl	0.20%	2µl
		500	0.70%	3.5µl	0.25%	1.25µl
		200	0.90%	1.8µl	0.30%	0.6µl
1000-5000µl	50µl	5000	0.50%	25µl	0.15%	7.5µl
		2500	0.60%	15µl	0.30%	7.5µl
		1000	0.70%	7µl	0.30%	3µl
2-10ml	0.1ml	10ml	0.60%	60µl	0.20%	20µl
		5ml	1.20%	60µl	0.30%	15µl
		2ml	3.00%	60µl	0.60%	12µl

Note: 2~10ml is not available for micropette plus autoclaveable pipettes.

8-channel Adjustable Volume Pipettes

Volume Range	Increment	Test Volume(µl)	Maximume Permissible Systematic Error		Maximume Permissible Random Error	
0.5-10µl	0.1µl	10	1.50%	0.15µl	1.50%	0.15µl
		5	2.50%	0.125µl	2.50%	0.125µl
		1	4.00%	0.04µl	4.00%	0.04µl
5-50µl	0.5µl	50	1.00%	0.5µl	0.50%	0.25µl
		25	1.50%	0.375µl	1.00%	0.25µl
		5	3.00%	0.15µl	2.00%	0.1µl
50-300µl	5µl	300	0.70%	2.1µl	0.25%	0.75µl
		150	1.00%	1.5µl	0.50%	0.75µl
		50	1.50%	0.75µl	0.80%	0.4µl

12-channel Adjustable Volume Pipettes

Volume Range	Increment	Test Volume(µl)	Maximume Permissible Systematic Error		Maximume Permissible Random Error	
0.5-10µl	0.1µl	10	1.50%	0.15µl	1.50%	0.15µl
		5	2.50%	0.125µl	2.50%	0.125µl
		1	4.00%	0.04µl	4.00%	0.04µl
5-50µl	0.5µl	50	1.00%	0.5µl	0.50%	0.25µl
		25	1.50%	0.375µl	1.00%	0.25µl
		5	3.00%	0.15µl	2.00%	0.1µl
50-300µl	5µl	300	0.70%	2.1µl	0.25%	0.75µl
		150	1.00%	1.5µl	0.50%	0.75µl
		50	1.50%	0.75µl	0.80%	0.4µl

Fixed Volume Pipettes

Volume Range	Increment	Test Volume(µl)	Maximume Permissible Systematic Error		Maximume Permissible Random Error	
5µl	/	5µl	1.3%	0.065µl	1.2%	0.06µl
10µl	/	10µl	0.8%	0.08µl	0.8%	0.08µl
20µl	/	20µl	0.6%	0.12µl	0.5%	0.1µl
25µl	/	25µl	0.5%	0.125µl	0.3%	0.075µl
50µl	/	50µl	0.5%	0.25µl	0.3%	0.15µl
100µl	/	100µl	0.5%	0.5µl	0.3%	0.3µl
200µl	/	200µl	0.4%	0.8µl	0.2%	0.4µl
250µl	/	250µl	0.4%	1.0µl	0.2%	0.5µl
500µl	/	500µl	0.3%	1.5µl	0.2%	1.0µl
1000µl	/	1000µl	0.3%	3.0µl	0.2%	2.0µl
2000µl	/	2000µl	0.3%	6.0µl	0.15%	3.0µl
5000µl	/	5000µl	0.3%	15µl	0.15%	7.5µl