

## 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 verification
- \* 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°C, 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.

## Pipette Stand

The round stand can be applied to the three major pipette series-TopPette, MicroPette and MicroPette Plus. It can stably and conveniently hang up to 6 single-channel and multi-channel pipettes at the same time.



The linear stand can be applied to the three major pipette series-TopPette, MicroPette and MicroPette Plus. It can stably and conveniently hang up to 6 single-channel and multi-channel pipettes at the same time.



The linear and round stands have been designed to fit perfectly of BIOBASE Pipette range, TopPette, MicroPette and MicroPette Plus Autoclavable Pipettes. The stands are convenient to hold up 6 pipettes both of single and multi-channel.

### Ordering Information:

Cat. No	Descriptions
703000084	Round stand holds up to 6 pipettes, fit of TopPette, MicroPette and MicroPette Plus
703000085	Linear stand holds up to 6 pipettes, fit of TopPette, MicroPette and MicroPette Plus

## Dispenser

### DispensMate Bottle-Top Dispenser

#### Features:

- \* Excellent chemical resistance
- \* Fully autoclavable at 121°C
- \* Easy to clean and maintain
- \* Made of PTFE, FEP, BSG, PP
- \* Four ranges of bottle-top dispenser cover a volume range from 0.5ml to 50ml
- \* The optional flexible discharge tube with safety handle permits fast and precise dispensing
- \* Vapor pressure Max. 500mbar, viscosity max. 500mm<sup>2</sup>/s, temperature max. 40°C, density max. 2.2g/cm<sup>3</sup>
- \* DispensMate plus is supplied with S40, GL32, GL38, GL25, GL28 sized adapters



#### Technical Parameters:

Volume Range	Graduation	A $\leq$ ±		CV $\leq$	
0.5-5ml	0.1ml	0.5%	25 $\mu$ l	0.1%	5 $\mu$ l
1.0-10ml	0.2ml	0.5%	50 $\mu$ l	0.1%	10 $\mu$ l
2.5-25ml	0.5ml	0.5%	125 $\mu$ l	0.1%	25 $\mu$ l
5.0-50ml	1.0ml	0.5%	250 $\mu$ l	0.1%	50 $\mu$ l

A = Accuracy; CV = Coefficient of variation.

#### Ordering Information:

Cat. No.	Volume Range	Cat. No.	Volume Range
<b>Standard Accessories</b>			
7032100101	0.5-5ml	17000069	S40, Adapter, 45/40mm
7030200102	1-10ml	17400017	GL32, Adapter, 45/32mm
7030200103	2.5-25ml	17400018	GL38, Adapter, 45/38mm
7032200104	5-50ml	17400019	GL25, Adapter, 32/25mm
		17400020	GL28, Adapter, 32/28mm
		17400021	Filling tube (m)
		17400073	Discharge tube (m)
<b>Optional Accessories</b>			
		17400037	Reagent Bottle (Brown, 1L)

**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)	Maximum Permissible Systematic Error		Maximum 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)	Maximum Permissible Systematic Error		Maximum 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)	Maximum Permissible Systematic Error		Maximum 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)	Maximum Permissible Systematic Error		Maximum 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