

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 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.

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 |