

# volumetric measurement & liquid handling

## MICROPIPETTES - “adjustable volume” - “autoclavable” - “for research”



- One pipette with exchangeable fix-volume controllers solves all your problems.
- 9 models cover volume range from 0,2 µl to 10 ml and fulfill all the requirements of a modern pipette.
- Significantly lighter weight than many other pipettes.
- Autoclavable, ultralight and with balanced body offers greatest comfort for extended pipetting periods.
- Contoured and ergonomic body shape that fits perfectly to all hand sizes.
- PP/PVDF/ anodised aluminium and stainless steel body construction guarantees the highest level of accuracy and precision.
- Dual “O” ring technology guarantees best tip fit. Outer “O” rings makes tip loading easy.
- Fast and easy volume setting with single hand. Volume setting requires 50% fewer turns compared to some brands.
- Volume lock prevents accidental volume changes during operation. Volume display is always fully visible.
- Thumb friendly soft spring pipetting system reduces plunger pressure by up to 50% and guarantees the whole procedure more comfortable.
- Ergonomic finger hook offers comfortable handling and to take the weight for a more relaxed grip.
- Color-coded tip ejector reduces thumb workload by 70 % compared with other brands.
- Large pad of tip ejector guarantees easy tip ejection.
- Each pipette is individually calibrated and certified. Serial number is printed on each pipette.

catalogue number	volume range	inaccuracy	imprecision %	color code	pack quantity
011.20.002	0.2 - 2.0 µl	12.00 / 2.00	6.00 / 1.00		1 piece
011.20.010	0.5 - 10 µl	2.50 / 1.00	1.80 / 0.50		1 piece
011.20.020	2 - 20 µl	5.00 / 1.00	1.50 / 0.30		1 piece
011.20.050	5 - 50 µl	2.00 / 1.00	1.20 / 0.30		1 piece
011.20.100	10 - 100 µl	2.50 / 0.70	1.00 / 0.20		1 piece
011.20.200	20 - 200 µl	2.50 / 0.60	0.70 / 0.20		1 piece
011.20.901	100 - 1000 µl	2.00 / 0.80	0.60 / 0.20		1 piece
011.20.905	1 - 5 ml	1.20 / 0.60	0.30 / 0.15		1 piece
011.20.910	1 - 10 ml	3.00 / 0.60	0.60 / 0.15		1 piece

### dual “O” ring



**Dual “O” ring technology: guarantees best tip fit.**

- Outer “O” rings make tip loading easier. The first “O” ring creates a smooth seal while the second “O” ring creates a positive stop to ensure that the tips are airtight, sealed, and can be ejected with the smallest amount of force.

**High precision pipettes which combine all the requirements of a modern pipette with highest level of accuracy and precision.**



### volume lock feature



**Select the desired volume and lock the indicator.**

- Volume lock feature allows selecting the desired volume and locking the indicator to achieve a more reliable pipetting experience.
- Locking feature prevents accidental volume changes during pipetting procedures.
- Simply slide the button to the upper position to lock or lower to release.

## Exchangeable volume control knobs



**Change your variable volume pipette to a fix-volume pipette in seconds.**

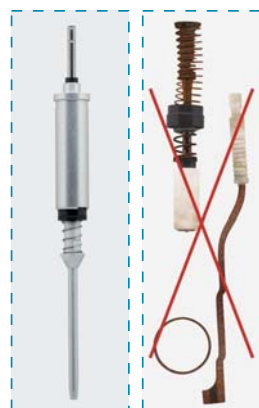
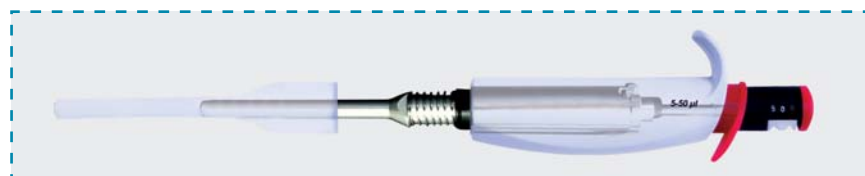
- Use one variable-volume pipette with many pre-calibrated fix-volume knobs and substantially reduce costs.
- Take off the variable volume control knob and insert any desired fix-volume knob in seconds.
- Save time by no longer turning micrometer dials.
- Eliminate setting errors by using pre-calibrated knobs. Fix-volume knobs are calibrated for consistent pipetting the same amount.



## ordering info for volume knobs

catalogue number	technical specification of volume knobs	pack quantity
011.23.001	1 µl fixed volume controller knob for 0.2 - 2 µl pipette	1 piece
011.23.002	2 µl fixed volume controller knob for 0.2 - 2 µl pipette	1 piece
011.24.005	5 µl fixed volume controller knob for 0.5 - 10 µl pipette	1 piece
011.24.010	10 µl fixed volume controller knob for 0.5 - 10 µl pipette	1 piece
011.25.010	10 µl fixed volume controller knob for 2 - 20 µl pipette	1 piece
011.25.020	20 µl fixed volume controller knob for 2 - 20 µl pipette	1 piece
011.26.020	20 µl fixed volume controller knob for 5 - 50 µl pipette	1 piece
011.26.025	25 µl fixed volume controller knob for 5 - 50 µl pipette	1 piece
011.26.050	50 µl fixed volume controller knob for 5 - 50 µl pipette	1 piece
011.27.030	30 µl fixed volume controller knob for 10 - 100 µl pipette	1 piece
011.27.050	50 µl fixed volume controller knob for 10 - 100 µl pipette	1 piece
011.27.100	100 µl fixed volume controller knob for 10 - 100 µl pipette	1 piece
011.28.100	100 µl fixed volume controller knob for 20 - 200 µl pipette	1 piece
011.28.200	200 µl fixed volume controller knob for 20 - 200 µl pipette	1 piece
011.29.300	300 µl fixed volume controller knob for 30 - 300 µl pipette	1 piece
011.30.500	500 µl fixed volume controller knob for 100 - 1000 µl pipette	1 piece
011.30.901	1000 µl fixed volume controller knob for 100 - 1000 µl pipette	1 piece
011.31.925	2,5 ml fixed volume controller knob for 1 - 5 ml pipette	1 piece

## ultimate interior design



**Ultimate interior design allows almost no maintenance.**

- Steel alloy plunger does not bend or brake. Thick polymer seals do not split or leak.
- Robust steel alloy body protects internal components and impact damage if dropped. Large ejection spring provides low ejection forces.
- Aluminium alloy shaft does not wear down from loading friction.

**Traditional pipettes needs continuous maintenance.**

- Small plastic seals and "O" rings wear-out often and need frequent replacement.
- Plastic shaft wear down from the friction involved with tip loading and needs frequent replacement.
- Plastic body provides a single seal and might not protect fragile internal components against impact.

## autoclavable

**Guaranteed autoclave sterilization without the risk of volume recalibration.**



**Unlike to other autoclavable pipettes, our pipettes require no volume calibration after sterilization process.**

- Durable PP/PVDF/anodised aluminium and stainless steel body construction and stainless steel spring enable easy and safe sterilization.
- First take off the volume knob. Then put the main body into the autoclave.
- The pipette body can be fully autoclavable at 121°C and 0,1 MPa conditions for 20 minutes.