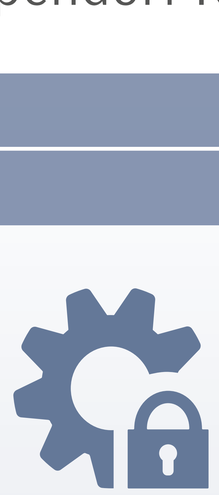
How It Works…

Selected technical innovations in the Eppendorf Research® 3 neo pipettes

Volume lock to protect against accidental changes

> The volume lock switch greatly increases the force needed to adjust the volume, making accidental changes during pipetting impossible.

> Do not adjust the volume with the lock engaged. Some movement is still possible to protect the gears from damage.



Volume gear shift for quicker or easier adjustment

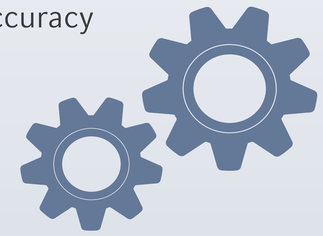
> Like a bike gear shift, the speed adjustment switch lets you choose between two modes/gears for the counting mechanism.

> ‘Easy’ mode (low gear) allows smooth, precise adjustments with more turns.

> ‘Fast’ mode (high gear) enables quicker, larger changes with fewer turns but a bit more resistance.

> ‘Easy’ mode is ideal for precise one-handed control, while ‘fast’ mode is best for quick, large adjustments.

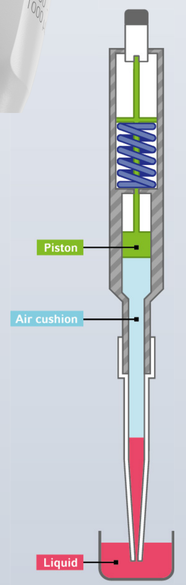
> Changing the volume gear shift does not affect the pipette’s air cushion and adjustment (accuracy and precision remain as specified).



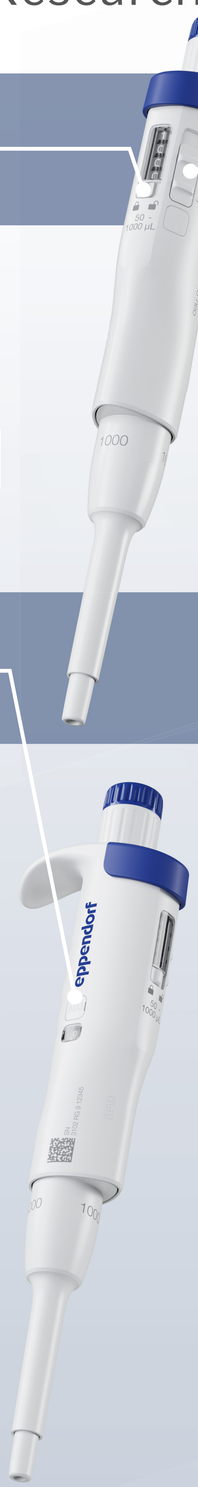
Temporary adjustment to improve accuracy in different conditions

> Temporary adjustment allows you to correct the volume when working with non-aqueous liquids, different pipette tips, or at varying altitudes. This is important because liquid type, tip design, and environmental factors can all affect pipetting accuracy.

> Changing the adjustment alters the size of the air cushion inside the pipette, resulting in a specific volume offset: For example, with a 200 µL pipette, setting the adjustment value to +2 increases the transferred volume by 1 µL.
For more details, see the Operating Manual at www.eppendorf.link/research3neo.



Air cushion size affects the volume setting



Torque comparison: Volume adjustment vs. everyday tasks