

# Volume measurement

## Bulb pipettes, PP, Class B

Calibrated to deliver 'Ex'.

Highly transparent. With high-contrast, blue markings.

Break-resistant.

High chemical resistance.

Exposure to temperatures above 60 °C can lead to volume changes.

Recommended cleaning with mild alkaline detergents up to 60 °C.

| Volume<br>ml | Tolerance<br>± ml | Length<br>mm | PU | Cat. No. |
|--------------|-------------------|--------------|----|----------|
| 1            | 0.02              | 300          | 12 | 164094   |
| 2            | 0.02              | 300          | 12 | 164194   |
| 5            | 0.03              | 300          | 6  | 164294   |
| 10           | 0.04              | 440          | 6  | 164394   |
| 25           | 0.05              | 450          | 6  | 164494   |
| 50           | 0.10              | 460          | 6  | 164594   |



## Graduated pipettes, PP, Class B

Calibrated to deliver 'Ex'.

Highly transparent. With high-contrast, blue markings.

Break-resistant.

High chemical resistance.

Outer diameter of suction tube: max. 8 mm.

Exposure to temperatures above 60 °C can lead to volume changes.

Recommended cleaning with mild alkaline detergents up to 60 °C.

| Volume<br>ml | Tolerance<br>± ml | Graduation<br>ml | Length<br>mm | PU | Cat. No. |
|--------------|-------------------|------------------|--------------|----|----------|
| 1            | 0.02              | 0.1              | 300          | 12 | 163094   |
| 2            | 0.02              | 0.1              | 300          | 12 | 163194   |
| 5            | 0.05              | 0.1              | 330          | 12 | 163294   |
| 10*          | 0.10              | 0.1              | 330          | 12 | 163394   |
| 10           | 0.10              | 0.1              | 320          | 12 | 163594   |

\* Suction tube outer diameter: 10 mm





## Disposable pipettes, PS, sterile



Crystal clear, graduated, individual sterile packaging, pyrogen-free. Identified by bar-code. With cotton-wool filter.

| Volume ml | Graduation ml | Length mm | PU | Cat. No. |
|-----------|---------------|-----------|----|----------|
| 1         | 0.01          | 272       | 25 | 160110   |
| 2         | 0.01          | 272       | 25 | 160210   |
| 5         | 0.10          | 320       | 25 | 160510   |
| 10        | 0.10          | 320       | 25 | 161010   |
| 25        | 0.20          | 345       | 10 | 162510   |



## Disposable pipettes, PS, non-sterile

Crystal clear, graduated, non-sterile. Identified by bar-code. With cotton-wool filter.

| Volume ml | Graduation ml | Length mm | PU | Cat. No. |
|-----------|---------------|-----------|----|----------|
| 1         | 0.01          | 272       | 10 | 160119   |
| 2         | 0.01          | 272       | 10 | 160219   |
| 5         | 0.10          | 320       | 10 | 160519   |
| 10        | 0.10          | 320       | 10 | 161019   |

→ Pipette helpers  
can be found on pages 49 - 51. →

# Volume measurement

## VITLAB pipeo®



For all pipettes from 0.1 to 200 ml.

With the VITLAB pipeo® pipette controller, pipette handling is simple and comfortable. The ergonomic handle - **very light weight** at about 190 grams - and excellent balance all contribute to ease of operation. The speed can be adjusted easily, continuously and exactly with one hand using two buttons. A 50 ml pipette can be filled comfortably in less than ten seconds. The liquid release can be done either by gravity delivery when calibrated 'Ex' (to deliver), or in blow out mode using the battery-operated motor.

Pipettes are held securely and tightly in the exchangeable adapter. Liquid vapours are purged directly to protect the instrument.

One full charge of the nickel-metal hydride battery allows 8 hours of non-stop pipetting. The charge level of the recyclable battery is shown by the LED indicator. Defective batteries are easily replaced. To avoid surprises, the LED light changes from green to red two hours before the battery must be recharged. **The VITLAB pipeo® can still be operated while the battery is being recharged.**

Included in delivery:

VITLAB pipeo®, battery charger, battery, one battery compartment cover, two replacement 0.2 µm membrane filters, instruction manual.



| Type   | PU | Cat. No. |
|--|----|----------|
| pipeo® with battery charger for the European continent 230 V/50 Hz | 1  | 1631500  |
| pipeo® with battery charger for UK/Ireland 230 V/50 Hz             | 1  | 1631510  |
| pipeo® with battery charger for Australia 230 V/50 Hz              | 1  | 1631520  |
| pipeo® with battery charger for Japan 100 V/50 Hz                  | 1  | 1631530  |
| pipeo® with battery charger for USA 120 V/60 Hz                    | 1  | 1631540  |



## VITLAB maneus®



The VITLAB maneus® pipette controller enables both left- and right-handers to operate all normal bulb and graduated pipettes easily and fatigue-free. Its safe and easy handling allows even inexperienced users **to adjust the meniscus precisely**.

With the new design, unscrewing the adapter enables easy and fast replacement of the hydrophobic membrane filter, which **protects the instrument against fluid penetration**.

The valve system is optimised so that liquids can be drawn up simply, without exerting pressure. The highly sensitive filling and discharge of liquids are controlled gently by the pipetting knob. Thus, the suction element provides rapid filling of the pipette (capacity: 50 ml in less than 10 seconds). The discharge bellows are used for the emptying (blow-out) of the pipette. The specially moulded intake cone ensures secure seating for all normal bulb and graduated pipettes (0.1 to 200 ml).

The VITLAB maneus® is simple to dismantle, easy to clean, and completely autoclavable at 121 °C (2 bar) according to DIN EN 285.

For all normal bulb and graduated pipettes from 0.1 to 200 ml. With replacement 3 µm membrane filter and instruction manual.

| Type    | PU | Cat. No. |
|---------|----|----------|
| maneus® | 1  | 1630500  |



## Accessories for VITLAB pipeo® & maneus®

For a detailed list of replacement parts, please see the instruction manual for the instrument, or visit our homepage: [www.vitlab.com](http://www.vitlab.com).

| Description   | PU | Cat. No. |
|---|----|----------|
| Membrane filter, 0.2 µm, sterile, VITLAB pipeo®                   | 1  | 1670647  |
| Membrane filter, 0.2 µm, non-sterile, VITLAB pipeo®               | 10 | 1670648  |
| Membrane filter, 3 µm, non-sterile, VITLAB pipeo®, VITLAB maneus® | 10 | 1670650  |
| Wall rack, VITLAB pipeo®  | 1  | 1670660  |

# Volume measurement

## Pipette fillers, NR

Classic accessory for pipetting with volumetric or measuring pipettes. With 3 valves.  
Valve A: Air release, Valve B: Liquid filling, Valve E: Liquid dispensing.

| Type                                       | PU | Cat. No. |
|--|----|----------|
| Universal model, for pipettes up to 10 ml  | 1  | 104099   |
| Universal model, for pipettes up to 100 ml | 1  | 104199   |



## Pipette fillers

For pipetting liquids, fit all glass and plastic pipettes. Slow rotation of the actuator-wheels draws liquid into the pipette. Pressing the air bleed valve automatically empties the pipette without returning the piston.

| For pipettes ml | Colour | PU | Cat. No. |
|-----------------|--------|----|----------|
| 2               | Blue   | 1  | 324594   |
| 10              | Green  | 1  | 324694   |
| 25              | Red    | 1  | 324794   |





## Pipette stand, PP

Upper portion with 94 bore holes of different diameters for secure placement of volumetric and measuring pipettes of any size.

The stable base has a rotatable, ribbed base plate in which the pipette tips can be gently seated.

The racks are supplied unassembled, and can easily be assembled according to the accompanying assembly instructions.

| Ø<br>mm | Height<br>mm | PU | Cat. No. |
|---------|--------------|----|----------|
| 230     | 470          | 2  | 79194    |



## Pipette tray, PVC

Holds pipettes from 120 mm length.

Pipettes can easily be placed in and taken out from the troughs in the tray, even with gloves.

| L x W x H<br>mm | PU | Cat. No. |
|-----------------|----|----------|
| 283 x 216 x 40  | 1  | 80996    |



## Pipette tray, PVC

Suitable for drawers, divided lengthwise into 4 compartments.

| L x W x H<br>mm | PU | Cat. No. |
|-----------------|----|----------|
| 420 x 300 x 30  | 1  | 80252    |

# Volume measurement

## Pipette washer, PE-HD

For simple and basic cleaning of pipettes. With discharge siphon for an automatic water exchange.

The complete washing system includes the pipette washer, pipette jar (for pre-cleaning) and pipette basket (for dipping pipettes into the pipette washer or pipette jar). Pipette jars and pipette baskets need to be ordered separately.

Suitable for the use with pipette baskets (cat. nos. 80219 and 80222).

| Ø<br>mm | Height<br>mm | Effective length<br>mm | PU | Cat. No. |
|---------|--------------|------------------------|----|----------|
| 170     | 734          | 600                    | 1  | 80217    |
| 170     | 990          | 840                    | 1  | 80215    |



## Pipette jars, PE-HD

For pre-cleaning pipettes in detergent solutions.

Suitable for the use with pipette baskets (cat. nos. 80219 and 80222).

| Ø<br>mm | Height<br>mm | PU | Cat. No. |
|---------|--------------|----|----------|
| 125     | 250          | 1  | 80223    |
| 162     | 503          | 1  | 80221    |
| 162     | 650          | 1  | 80218    |



## Pipette baskets, PE-HD

For dipping pipettes into the pipette jar or pipette-washer and for transferring pipettes. With the extension piece, the total height of the pipette basket (cat. no. 80219) increases from 650 to 870 mm.

| Description   | Ø<br>mm | Overall height<br>mm | Basket height<br>mm | PU | Cat. No. |
|---|---------|----------------------|---------------------|----|----------|
| Pipette basket  | 145     | 648                  | 300                 | 1  | 80219    |
| Pipette basket  | 145     | 497                  | 300                 | 1  | 80222    |
| Extension piece for the handle (pipette basket 80219) |         |                      |                     | 2  | 81219    |

