# Pipettes

STAR LAB

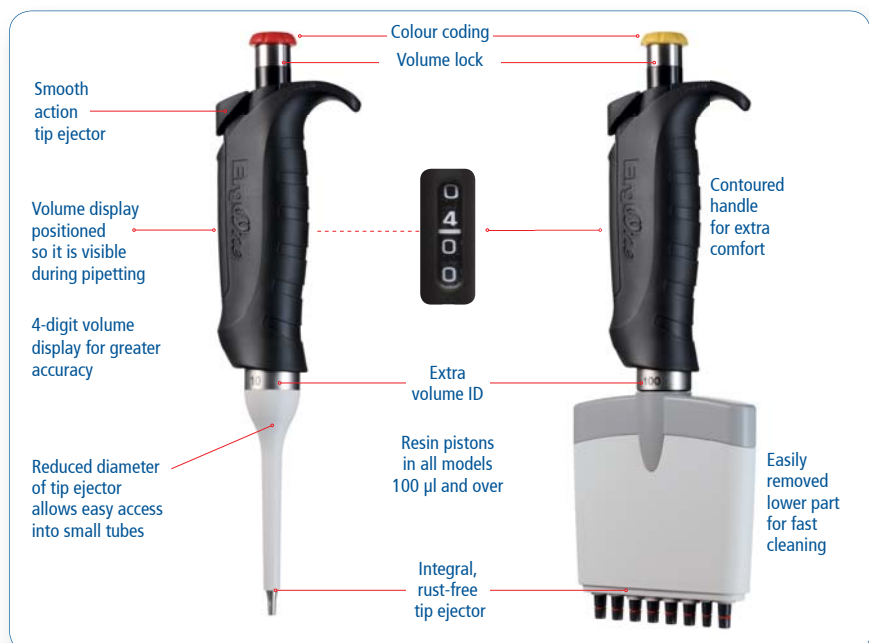# ErgoOne® Overview

## Setting the new standard in pipetting!

Everyday, pipettes are confronted with multiple tasks that must be exact and precise. Reliability is key in the laboratory and your pipette must be trusted to perform well, day in, day out.

As one of the most frequently used instruments in the laboratory, pipettes must also be comfortable to use and provide the features you need. ErgoOne® pipettes combine researcher-requested features with the latest ergonomic principles to provide optimum performance. ErgoOne® gives you accuracy and precision you can trust, with a stylish new look you will love.

Lightweight and extremely easy to use, ErgoOne® can be trusted to provide accurate and precise pipetting all day, every day. Use with STARLAB's TipOne® Tips for the perfect pipetting partnership.

## Features
- Minimal operating forces
- Lightweight ergonomic design
- Colour coded
- Volume lock
- Fully autoclavable
- Low maintenance
- 3-year warranty

Colour coding

Volume lock

Smooth
action
tip ejector

Volume display
positioned
so it is visible
during pipetting

4-digit volume
display for greater
accuracy

Reduced diameter
of tip ejector
allows easy access
into small tubes

Contoured
handle
for extra
comfort

Extra
volume ID

Resin pistons
in all models
100 µl and over

Easily
removed
lower part
for fast
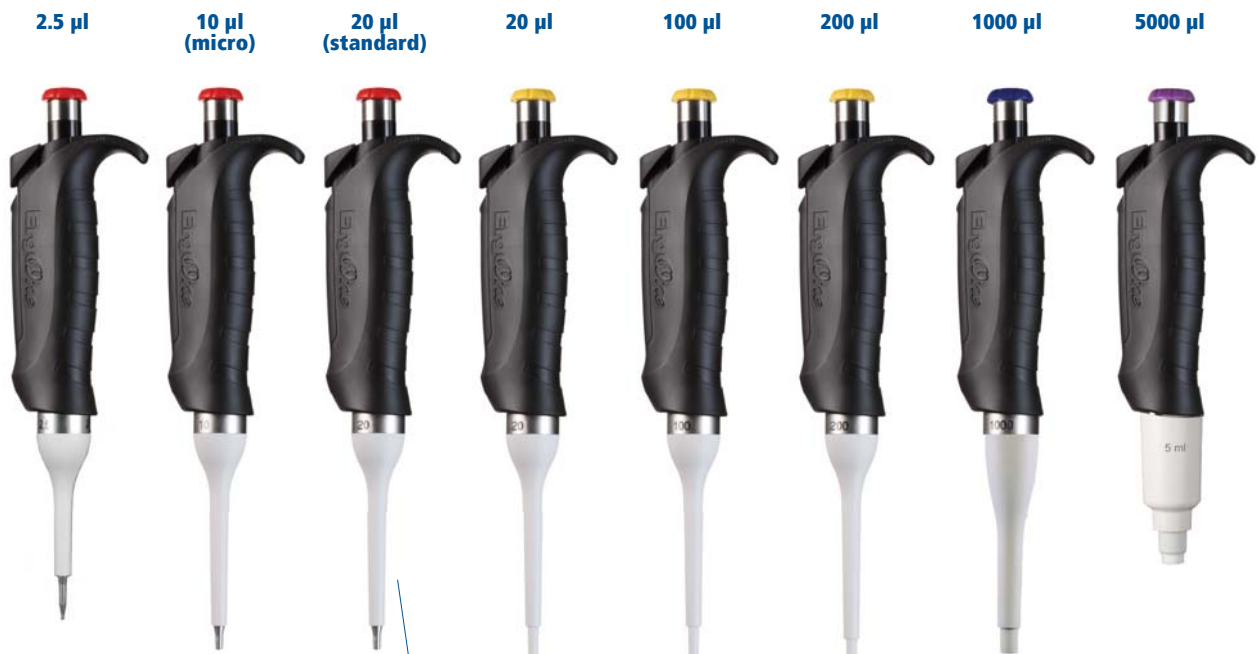cleaning

Integral,
rust-free
tip ejector

# ErgoOne® Single-Channel Pipettes

## Single-Channel Ordering Info & Specifications

| Cat. No. | Volume Range (Colour Coding) | Volume µl | Systematic Error (Inaccuracy) ± % | | Random Error (Imprecision) ± % | |
|---|---|---|---|---|---|---|
| | | | 8655-2 | ErgoOne® | 8655-2 | ErgoOne® |
| **Single-Channel** | | | | | | |
| S7100-0125 | 0.1 – 2.5 µl (Red) | 0.1 | 125 | 24 | 75 | 12 |
| | | 1.25 | 10 | 2.5 | 6.0 | 1.5 |
| | | 2.5 | 5.0 | 1.4 | 3.0 | 0.7 |
| S7100-0510 | 0.5 – 10 µl (Red) | 1.0 | 12 | 2.5 | 8.0 | 1.8 |
| | | 5 | 2.4 | 1.5 | 1.6 | 0.8 |
| | | 10 | 1.2 | 1.0 | 0.8 | 0.4 |
| S7100-0221 (micro cone) | 2 – 20 µl (Red) | 2 | 10 | 5.0 | 5.0 | 1.5 |
| | | 10 | 2.0 | 1.2 | 1.0 | 0.6 |
| | | 20 | 1.0 | 1.0 | 0.5 | 0.3 |
| S7100-0220 (standard cone) | 2 – 20 µl (Yellow) | 2 | 10 | 5.0 | 5.0 | 1.5 |
| | | 10 | 2.0 | 1.2 | 1.0 | 0.6 |
| | | 20 | 1.0 | 1.0 | 0.5 | 0.3 |
| S7100-1100 | 10 – 100 µl (Yellow) | 10 | 8.0 | 3.0 | 3.0 | 1.0 |
| | | 50 | 1.6 | 1.0 | 0.6 | 0.3 |
| | | 100 | 0.8 | 0.8 | 0.3 | 0.2 |
| S7100-2200 | 20 – 200 µl (Yellow) | 20 | 8.0 | 2.5 | 3.0 | 0.7 |
| | | 100 | 1.6 | 1.0 | 0.6 | 0.3 |
| | | 200 | 0.8 | 0.6 | 0.3 | 0.2 |
| S7110-1000 | 100 – 1000 µl (Blue) | 100 | 8.0 | 3.0 | 3.0 | 0.6 |
| | | 500 | 1.6 | 1.0 | 0.6 | 0.2 |
| | | 1000 | 0.8 | 0.6 | 0.3 | 0.2 |
| S7150-5000 | 500 – 5000 µl (Violet) | 500 | 8.0 | 2.4 | 3.0 | 0.6 |
| | | 2500 | 1.6 | 1.2 | 0.6 | 0.25 |
| | | 5000 | 0.8 | 0.6 | 0.3 | 0.15 |

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips

iF product design award 2010

DEMO MODELS
TRY before you BUY
available on request

**ErgoOne® multi-channel ordering info over page...**

| 2.5 µl | 10 µl (micro) | 20 µl (standard) | 20 µl | 100 µl | 200 µl | 1000 µl | 5000 µl |
|---|---|---|---|---|---|---|---|



Stainless Steel tip holders on micro models

20 µl micro model for use with micro tips

ErgoOne® Pipettes

STARLAB

# ErgoOne® Multi-Channel Pipettes



## Setting the new standard in pipetting!

| Multi-Channel Ordering Info & Specifications | | | | | | |
|---|---|---|---|---|---|---|
| Cat. No. | Volume Range (Colour Coding) | Volume µl | Systematic Error (Inaccuracy) ± % | | Random Error (Imprecision) ± % | |
| | | | 8655-2 | ErgoOne® | 8655-2 | ErgoOne® |
| **8-Channel Pipettes** | | | | | | |
| S7108-0510 | 0.5 – 10 µl (Red) | 1.0 | 24 | 8.0 | 16 | 5.0 |
| | | 5.0 | 4.8 | 4.0 | 3.2 | 2.0 |
| | | 10 | 2.4 | 2.0 | 1.6 | 1.0 |
| S7108-1100 | 10 – 100 µl (Yellow) | 10 | 32 | 3.0 | 12 | 2.0 |
| | | 50 | 16 | 1.0 | 6.0 | 0.8 |
| | | 100 | 3.2 | 0.8 | 1.2 | 0.3 |
| S7108-3300 | 30 – 300 µl (Green) | 30 | 26.7 | 3.0 | 10 | 1.0 |
| | | 150 | 5.3 | 1.0 | 2.0 | 0.5 |
| | | 300 | 2.7 | 0.6 | 1.0 | 0.3 |
| **12-Channel Pipettes** | | | | | | |
| S7112-0510 | 0.5 – 10 µl (Red) | 1.0 | 24 | 8.0 | 16 | 5.0 |
| | | 5.0 | 4.8 | 4.0 | 3.2 | 2.0 |
| | | 10 | 2.4 | 2.0 | 1.6 | 1.0 |
| S7112-1100 | 10 – 100 µl (Yellow) | 10 | 32 | 3.0 | 12 | 2.0 |
| | | 50 | 16 | 1.0 | 6.0 | 0.8 |
| | | 100 | 3.2 | 0.8 | 1.2 | 0.3 |
| S7112-3300 | 30 – 300 µl (Green) | 30 | 26.7 | 3.0 | 10 | 1.0 |
| | | 150 | 5.3 | 1.0 | 2.0 | 0.5 |
| | | 300 | 2.7 | 0.6 | 1.0 | 0.3 |

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips

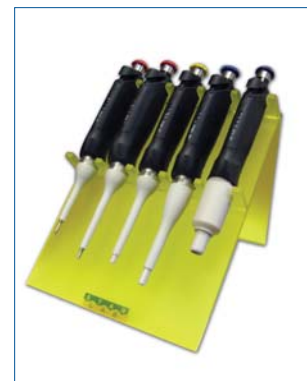



| Pipette Stands | | |
|---|---|---|
| Cat. No. | Description | Colour |
| S7200-0000 | Universal Carousel Stand for up to 8 Pipettes | Black/Silver |
| E3099-0000 | Universal Acrylic Stand for up to 5 Pipettes | Yellow |
| E3099-0001 | Self-Adhesive Shelf Holder for 1 ErgoOne Pipette | Yellow |

Choose from the extremely high quality and stylised carousel stand which colour co-ordinates with the ErgoOne® pipettes, or the more economical acrylic options.



Suitable for use with ErgoOne®, Biohit®, Finn®, Gilson®, Rainin® and most other brands



Suitable for use with ErgoOne®, Biohit®, Eppendorf®, Finn®, Gilson®, Rainin® and most other brands

ErgoOne® Pipettes

# StarPet E Electronic Pipettes

## So easy to use!

StarPet E single and multi-channel electronic pipettes are lightweight and easy to use. These multi-functional pipettes have operating modes for standard and reverse pipetting as well as multiple and sequential pipetting, mixing of samples and serial dilutions. All functions can be easily programmed using one hand on the easy to reach, easy to use keypad.

### Features

- Easy to use
- Lightweight, ergonomic design
- Excellent accuracy and precision
- Precise volume setting
- Five aspirating/dispensing speeds
- Auto calibration
- Fully motorised piston drive virtually eliminates pipetting force
- Auto memory of last-used pipetting protocol/settings
- Store up to nine sets of operating parameters for instant recall
- Autoclavable lower manifold
- Long lasting, rechargeable Li-ion battery that lasts for up to 40 hours of normal use
- Shelf pipette holder included with every pipette

| Electronic Pipettes | | | | |
|---|---|---|---|---|
| Cat. No. | Volume Range | Increments | AC* (%) | CV** (%) |
| **Single-Channel** | | | | |
| G9900-0010 | 0.5 – 10 µl | 0.1 µl | ± 4.0 to ± 1.0 | ≤ 2.5 to ≤ 0.4 |
| G9900-0020 | 2 – 20 µl | 0.1 µl | ± 4.0 to ± 1.0 | ≤ 2.5 to ≤ 0.4 |
| G9900-0200 | 10 – 200 µl | 1.0 µl | ± 2.5 to ± 0.6 | ≤ 1.0 to ≤ 0.15 |
| G9900-1200 | 100 – 1200 µl | 1.0 µl | ± 2.5 to ± 0.5 | ≤ 0.6 to ≤ 0.15 |
| **8-Channel** | | | | |
| G9908-0010 | 0.5 – 10 µl | 0.1 µl | ± 4.0 to ± 1.5 | ≤2.5 to ≤ 0.5 |
| G9908-0020 | 2 – 20 µl | 0.1 µl | ± 4.0 to ± 1.0 | ≤ 2.5 to ≤ 0.5 |
| G9908-0200 | 10 – 200 µl | 1.0 µl | ± 3.0 to ± 0.6 | ≤ 1.0 to ≤ 0.15 |
| G9908-1200 | 100 – 1200 µl | 1.0 µl | ± 3.0 to ± 0.5 | ≤ 0.8 to ≤ 0.2 |
| **12-Channel** | | | | |
| G9912-0010 | 0.5 – 10 µl | 0.1 µl | ± 4.0 to ± 1.5 | ≤ 2.5 to ≤ 0.5 |
| G9912-0020 | 2 – 20 µl | 0.1 µl | ± 4.0 to ± 1.0 | ≤ 2.5 to ≤ 0.5 |
| G9912-0200 | 10 – 200 µl | 1.0 µl | ± 3.0 to ± 0.6 | ≤ 1.0 to ≤ 0.15 |
| G9912-1200 | 100 – 1200 µl | 1.0 µl | ± 3.0 to ± 0.5 | ≤ 0.8 to ≤ 0.2 |

*Maximum Systematic Error (ISO 8655).  **Maximum Random Error (ISO 8655).
NOTE: Lowest testing on 0.5-10 µl pipettes is at 1 µl, not 0.5 µl

All pipettes are supplied with one Li-ion battery, an AC-DC power supply, and a self-adhesive pipette holder.

| Accessories | |
|---|---|
| Cat. No. | Description |
| G9999-0000 | Li-ion Battery |
| G9999-0002 | Optional Charger Set (Li-ion Battery and Battery Charger) |
| G9999-0003 | Acrylic stand (holds up to 3 pipettes) |

### Never be without a fully charged battery!

Use the optional charger set to charge the spare battery overnight or while using your pipette.

G9999-0002

StarPet E Pipettes

# *Pipette Controllers*

**StarPetPRO**

## StarPet Pro Cordless Controller

- Use with all plastic or glass pipettes, 1 ml to 100 ml
- Two aspirate and dispense speeds
- Gravity dispense mode designed for use with 'To Deliver' (TD) pipettes
- Fast! Fills a 25 ml pipette < 3 seconds
- Can be recharged during use
- Autoclavable and replaceable silicone pipette holder
- 4 hours continuous use from a fully-charged battery
- 'Low Battery' indicator light

| StarPet Pro Specifications | |
|---|---|
| Batteries | 2 x 1.2 V nickel metal hydride |
| Charger | 75 mAh for 14 hours |
| Weight | 180 g (without stand/wall bracket) |
| Filter | Hydrophobic 0.45 µm or 0.2 µm |
| Materials | Case & Nosecone: ASA<br>Pipette Holder: Silicone |
| Voltage | 100 V – 240 V, 50 – 60 Hz |
| Supplied with | Charger, Stand, 1 x 0.2 µm filter, and 1 x 0.45 µm filter ready fitted |

The unique stand can be used on the bench or mounted on a wall.

## StarPet Safety Filler

Supplied with four different colour pipette cones to aid safety colour-coding

| Pipette Controllers | | |
|---|---|---|
| Cat. No. | Description | Pack Size |
| **StarPet Pro Cordless Controller & Accessories** | | |
| E4866-1126 | StarPet Pro Cordless Pipette Controller | 1 |
| E4266-0050 | Replacement Charger | 1 |
| P2131-0002 | ASA Nosecone (White) | 1 |
| E4266-0890 | 0.2 µm Filter (White) | 5 |
| E4266-0030 | 0.45 µm Filter (Blue) | 5 |
| E4266-0040 | Silicone Pipette Holder | 1 |
| | | |
| **StarPet Safety Filler & Accessories** | | |
| E4866-1000 | StarPet Safety Filler | 1 |
| E4266-0890 | 0.2 µm Filter (White) | 5 |
| E4266-0030 | 0.45 µm Filter (Blue) | 5 |
| E4266-0040 | Silicone Pipette Holder | 1 |
| | | |
| **StarPet Filler & Accessories** | | |
| E4866-2000 | StarPet Filler | 1 |
| E4266-0040 | Silicone Pipette Holder | 1 |

- Use with all plastic or glass pipettes, 1 ml to 100 ml
- Robust, lightweight and easy to use
- Simple thumb button operation
- Autoclavable and replaceable silicone pipette holder
- Easily maintained, simply clean with a damp cloth
- Supplied with a 0.45 µm filter and four different colour pipette cones (white, pink, violet, green) to aid safety colour-coding
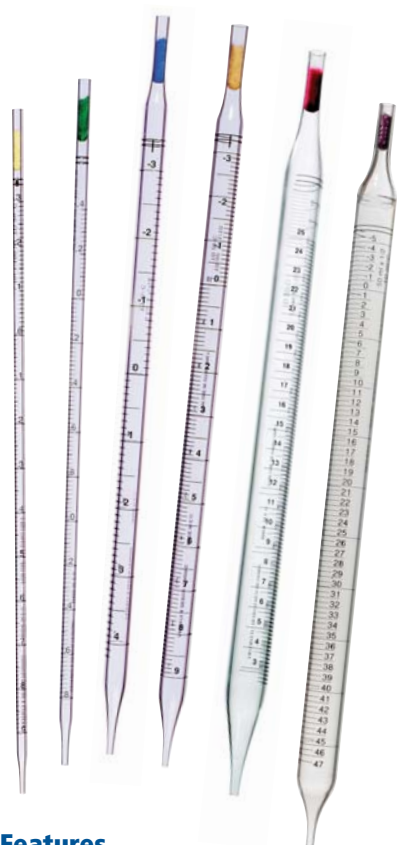
## StarPet Filler
- Use with all plastic or glass pipettes, 1 ml to 25 ml
- Exceptionally smooth operation
- Two dispense resolutions for maximum accuracy: one delivers fast filling with optimal accuracy for 10 ml to 25 ml pipettes; the other is for use with 1 ml to 10 ml pipettes where accuracy can sometimes be difficult to control
- Compatible with Blow-Out, 'To Deliver' (TD) or gravity dispense pipettes
- Autoclavable and replaceable silicone pipette holder

# *Polystyrene Pipettes*

## Clearly a quality pipette!

Perfect for use with all popular pipette controllers, including STARLAB's own range on page 40, these serological pipettes are made from crystal polystyrene with a seamless construction to eliminate hangup and provide more accuracy.

Available sterile and individually-wrapped, these high quality pipettes feature exclusive colour-coded plugs that conform to the international standard.

| Serological Pipettes (Sterile) | | |
|---|---|---|
| Cat. No. | Description | Pack Size |
| E4860-0111 | 1 ml Serological Pipette, Yellow Filter,(Sterile), Ind. Wrapped | 500 |
| E4860-0211 | 2 ml Serological Pipette, Green Filter (Sterile), Ind. Wrapped | 500 |
| E4860-0511 | 5 ml Serological Pipette, Blue Filter (Sterile), Ind. Wrapped | 250 |
| E4860-1011 | 10 ml Serological Pipette, Orange Filter (Sterile), Ind. Wrapped | 200 |
| E4860-2511 | 25 ml Serological Pipette, Red Filter (Sterile), Ind. Wrapped | 100 |
| E4860-5012 | 50 ml Serological Pipette, Violet Filter (Sterile), Ind. Wrapped | 50 |

| Specifications | | | | |
|---|---|---|---|---|
| Pipette Volume | Plug Colour* | Increments | Extra Graduations | Total Volume |
| 1 ml | Yellow | 0.01 ml | 0.3 ml | 1.3 ml |
| 2 ml | Green | 0.02 ml | 0.4 ml | 2.4 ml |
| 5 ml | Blue | 0.1 ml | 3.0 ml | 8.0 ml |
| 10 ml | Orange | 0.1 ml | 3.0 ml | 13.0 ml |
| 25 ml | Red | 0.2 ml | 2.6 ml | 27.6 ml |
| 50 ml | Violet | 0.5 ml | 10.0 ml | 60.0 ml |

## Features

- Accuracy >98 %
- Sterile pipettes have colour-coded plugs for ease of selection
- Crisp, black, raised permanent graduations
- Ascending and descending graduations on pipettes 5 ml and over
- ISO 9001:2000 manufactured
- Certified non-cytoxic, non-haemolytic and pyrogen free

## New, improved packaging

- Closable, Stackable, Space-Saving
- Colour-Coded
- Clearly visible bar codes
- Lot No. on every individual pipette

⚠ ② STERILE R DNase RNase free Non pyrogenic    **10 ml serological pipette**    Lot & expiry    Lot P015  08-2013    Sterile if unopened or undamaged package

Traceable packs: Individually wrapped in fibre-free paper/plastic peel back packs, showing the Lot. No

Note: 50 ml Serological Pipettes are not supplied in colour-coded boxes

### Pipette Can Holder

Cat. No:
I 3099-4000

Dimensions (W x D x H): 89 x 280 x 406 mm

Keep your serological pipettes tidy and easy to find in this acrylic, pipette can holder. Holds four pipette cans.

Polystyrene Pipettes

# *RepeatOne® Dispenser*

## Rapid dispensing!

RepeatOne® is a hand-held device for repetitive and rapid dispensing of volumes 10 µl to 5 ml.
Up to 48 pipettings of the same sample can be made without refilling, resulting in a considerable reduction in time and expense.
RepeatOne allows the selection of five separate volumes from each TipOne Repeat Dispenser Tip.

## Features

- Up to 48 dispenses from the same sample
- Locking clamp holds the dispenser tip securely in place
- Conforms to EN ISO 8655 Piston-Operated Volumetric Apparatus
- Conforms to ASTM E1154-89 (2003) Standard Specification for Piston or Plunger Operated Volumetric Apparatus
- Conforms to 98/79/EEC In Vitro Diagnostic Medical Devices
- 2-year warranty

### Dispenser Tips

See page 18 for ordering details of STARLAB's TipOne® Repeat Dispenser Tips.

| RepeatOne® Dispenser | |
|---|---|
| Cat. No. | Description |
| S4026-1500 | RepeatOne® Dispenser (incl. Adapter for 25 ml and 50 ml Dispenser Tips) |

### Technical Data

| TipOne® Repeat Size | Dispensing Volume | | | Systematic Error (Inaccuracy) | | | Random Error (Imprecision; CV) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Min. | | Max. | Min. | | Max. | Min. | | Max. |
| 0.5 ml | 10 µl | 30 µl | 50 µl | ±2.0 % | ±1.0 % | ±1.0 % | ±2.0 % | ±1.0 % | ±0.8 % |
| 1.25 ml | 25 µl | 75 µl | 125 µl | ±0.9 % | ±0.9 % | ±0.9 % | ±0.9 % | ±0.7 % | ±0.6 % |
| 2.5 ml | 50 µl | 150 µl | 250 µl | ±0.7 % | ±0.7 % | ±0.7 % | ±0.9 % | ±0.7 % | ±0.6 % |
| 5 ml | 100 µl | 300 µl | 500 µl | ±0.6 % | ±0.6 % | ±0.6 % | ±0.6 % | ±0.5 % | ±0.3 % |
| 12.5 ml | 250 µl | 750 µl | 1250 µl | ±0.5 % | ±0.5 % | ±0.5 % | ±0.6 % | ±0.5 % | ±0.3 % |
| 25 ml | 500 µl | 1500 µl | 2500 µl | ±0.4 % | ±0.4 % | ±0.4 % | ±0.6 % | ±0.4 % | ±0.25 % |
| 50 ml | 1000 µl | 3000 µl | 5000 µl | ±0.3 % | ±0.3 % | ±0.3 % | ±0.5 % | ±0.4 % | ±0.25 % |

## Compatibility

The RepeatOne® dispenser can be used with the following dispenser tips:
- STARLAB TipOne® Repeat (see page 18)
- Brand®
- Eppendorf®
- Gilson®
- HTL®
- Ritter®

### Test conditions in accordance with EN ISO 8655

Liquid: Water bi-distilled, degassed.

Test Temperature: 20–25 °C, ±0.5 °C constant (Data for TipOne® Repeat 0.5 ml, 1.25 ml and 2.5 ml are determined with attached 200 µl pipette tip).

Operating Temperature: +4 °C to +40 °C.

Measurement: Performed with original TipOne® Repeat dispenser tips in accordance with EN ISO 8655