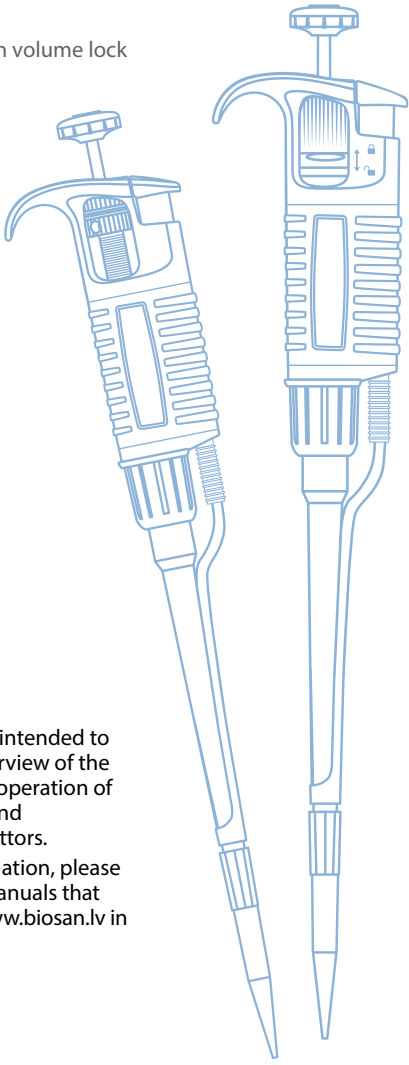
# Biosan Single- and Multi-channel Pipettors

## Quick Start Guide

- ☐ Assist series
- ■ Assist series with volume lock



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This quick guide is intended to provide a brief overview of the main features and operation of all Biosan Single- and Multi-channel Pipettors.

For detailed information, please refer to the User Manuals that can be found at www.biosan.lv in several languages.

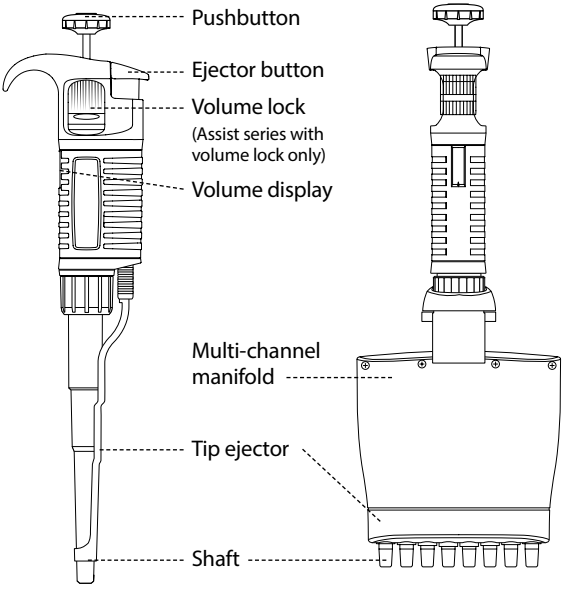
# Getting started

## Know your pipettor

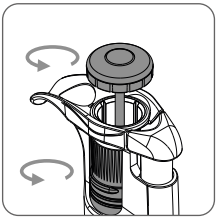
**Intended Use**

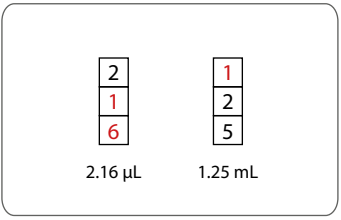
Biosan Pipettors are volumetric instruments designed to measure and transfer liquids precisely and safely with the use of disposable pipet tips. The pipettors operate on the air-cushion principle (i.e., the aspirated liquid does not come in contact with the shaft or plunger of the pipettor).

They can accommodate volumes from 0.1 µL to 10,000 µL depending on the model. They are available in single-, 8- and 12-channel variable volume versions.

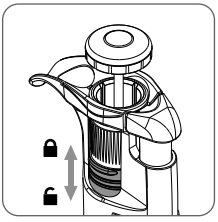


# Step 1
## Set the volume



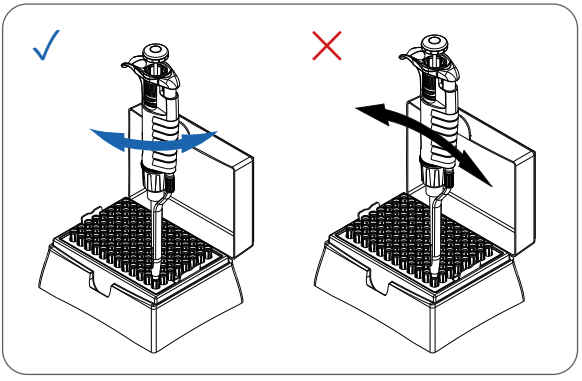


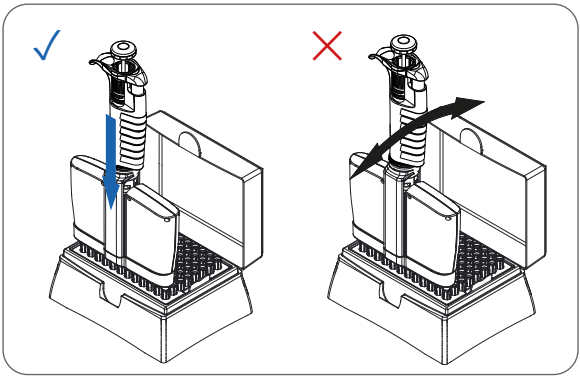

## Lock the volume



**NOTE:** Assist Single- and Multi-channel Pipettors do not feature a volume lock function.

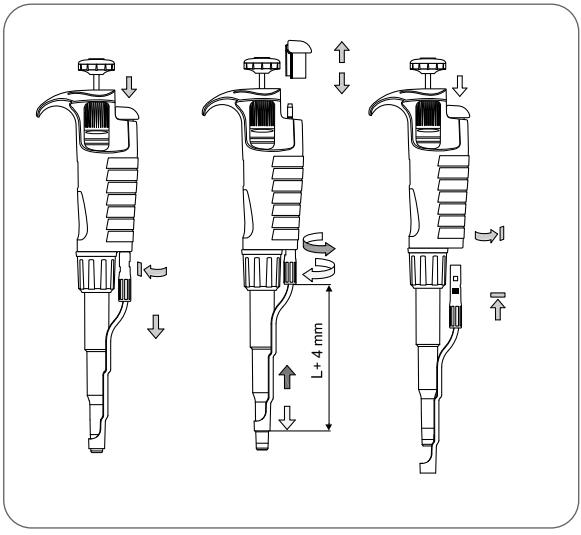
# Step 2
## Insert the tip



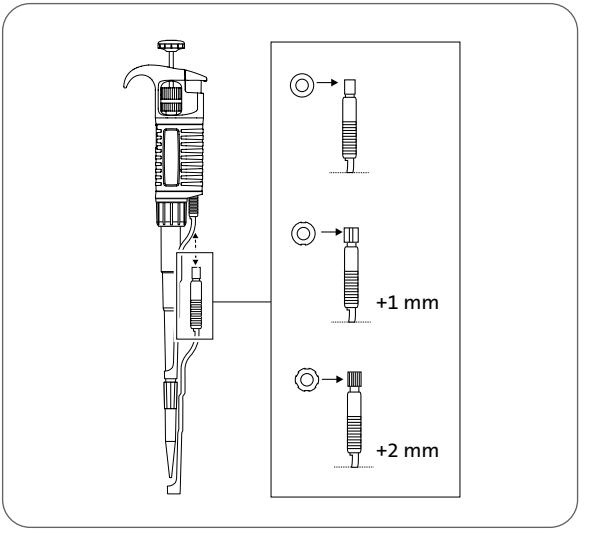


## Ejector adjustment

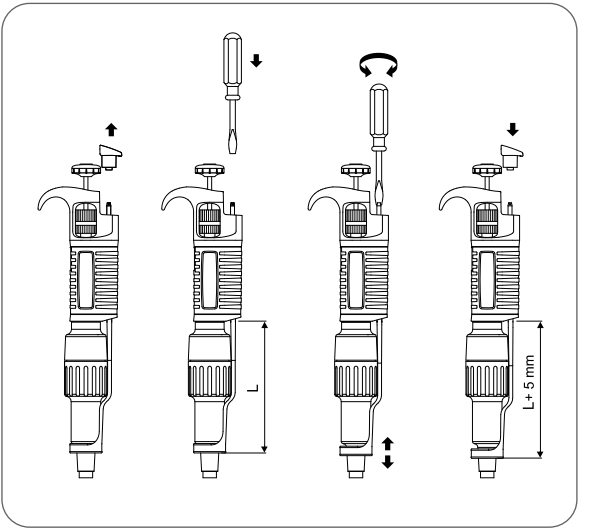
■ Assist series with volume lock



☐ Assist series (without volume lock)

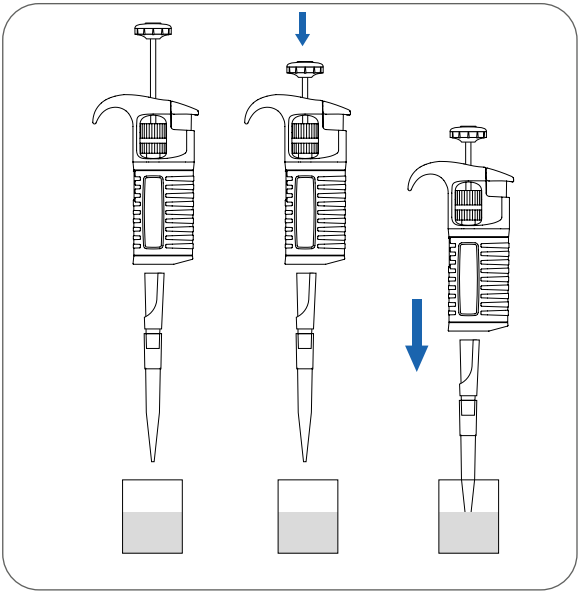


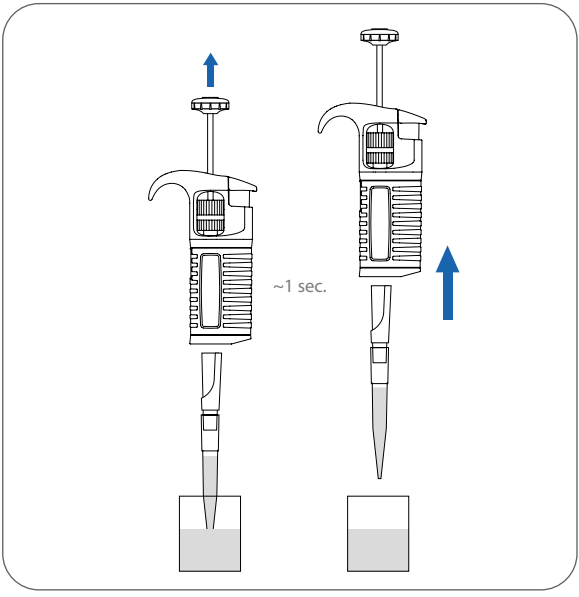

Pipettors 5,000 and 10,000 µL



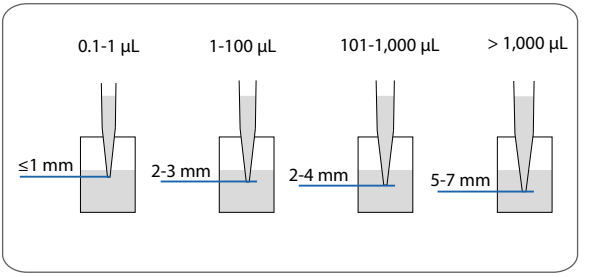
# Step 3

## Aspirate the liquid



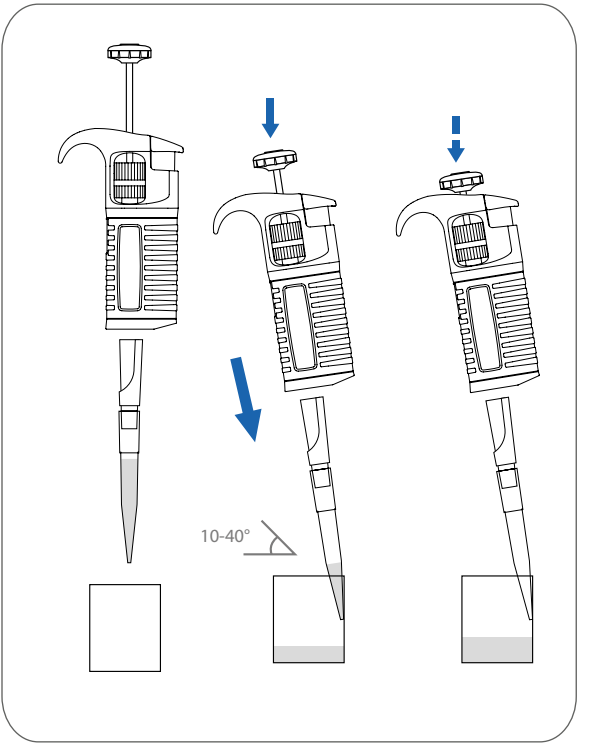


## Recommended depth



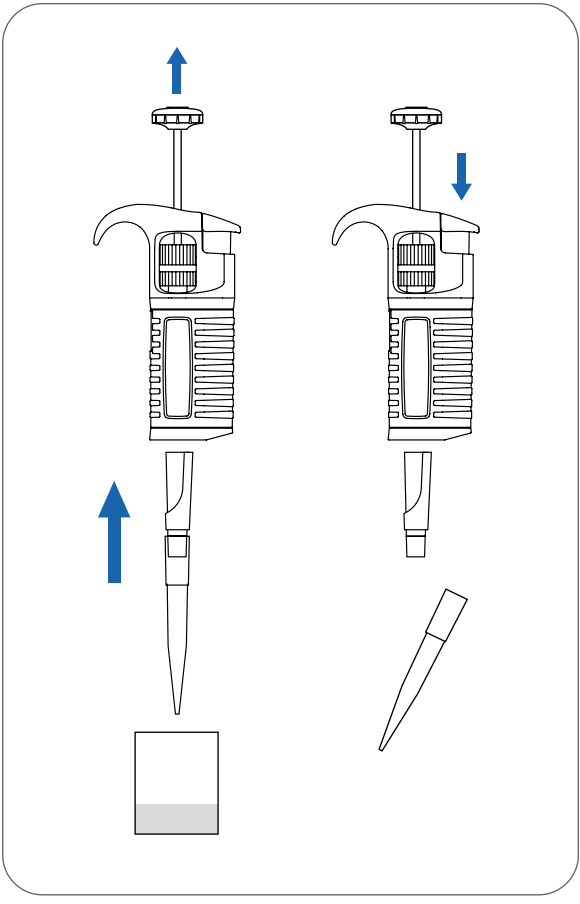

# Step 4

## Dispense the liquid

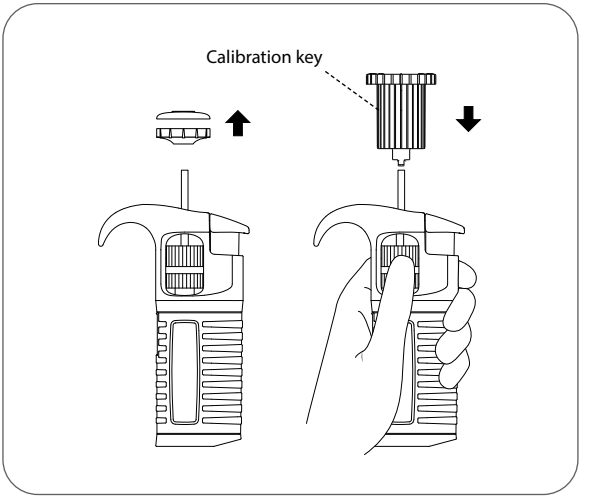


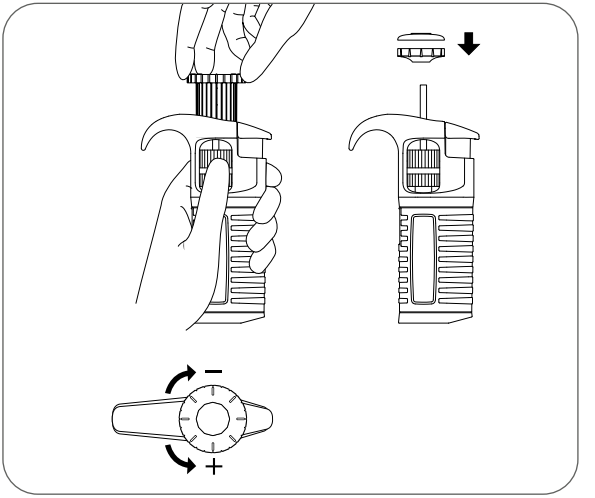
# Step 5

Eject the tip



# Step 6
## Calibration




**NOTE:** Before calibration, in the Assist series with volume lock, always remember to lock the volume using the lock function and for the standard Assist series hold the calibration knob.

**Safety Notes**

- The pipettor is designed for the transfer of liquids only using the tip. Do not aspirate liquids without the tip attached. The aspirated liquid should not enter the pipettor, as it may cause damage.
- Single-use tips reduce the risk of contamination of samples.
- Keep the pipettor clean, avoiding the use of abrasive or corrosive cleaning agents (e.g., acetone).
- Keep the pipettor upright when there is liquid in the tip.
- Only using the pipettor in accordance with the manufacturer's instructions ensures the correct pipettor parameters are maintained.
- After replacing the plunger or the shaft, the pipettor should be calibrated.
- In the case of incorrect operation, the device should be cleaned in accordance with the Instructions for Use or transferred to a service point.
- Ambient operating temperature is +5°C to 45°C.
- Ambient storage conditions (in the original packaging during transport and short storage) is -25°C to 55°C.

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- Follow general work safety regulations regarding hazards related to work in the laboratory.
- Take special care when pipetting aggressive substances.
- Use appropriate protective attire (e.g. clothing, goggles and gloves).
- Avoid pointing the pipettor at yourself or others during use.
- Only use parts and accessories recommended by the manufacturer.

**Cleaning**

- External parts may be cleaned with a swab moistened with isopropyl alcohol.
- Pipettors can be autoclaved at 121°C for 20 minutes. Prior to autoclaving, untighten the pipettor shaft, remove the filter from 5 and 10 mL pipettor shafts.
- The outer body of the pipettor is UV-resistant. The recommended distance from the radiation source to exposed element should not be less than 50 cm.
- Prolonged and very intense UV exposure can cause de-coloration of pipettor parts but does not affect its performance.

**Warranty**

Biosan Single- and Multi-channel Pipettors are covered by a three (3) year limited warranty. For more information on the warranty limitations refer to the full version of the User Manuals available at **www.biosan.lv**.

For additional product or technical information, visit **www.biosan.lv** or contact your local sales office.

**Biosan SIA**

Ratsupites 7, build.2, Riga
LV-1067, Latvia

Phone: +371 67426137
Fax: +371 67428101

Made in Poland


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