

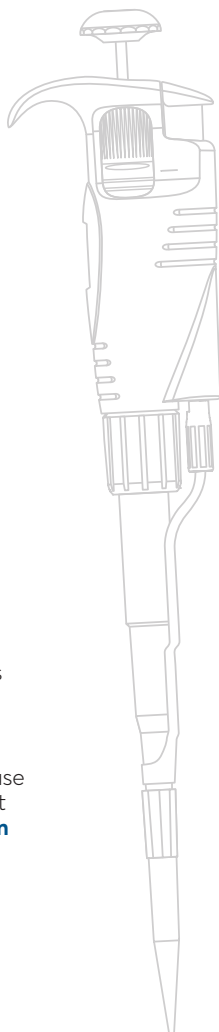
Short user's manual

- VWR[®] UHP line
- VWR[®] EHP line
- VWR[®] Standard line
- VWR[®] EHP, fixed volume



This short user's manual is intended to provide a brief overview of the main features and operation of all VWR[®] Single- and Multi-channel Pipettors.

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

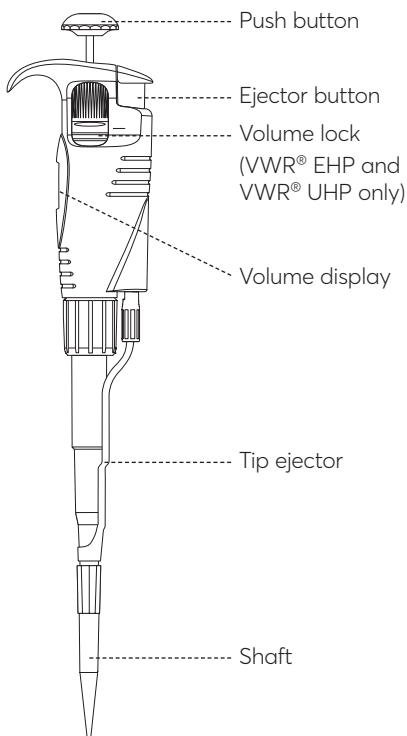


Getting started

Intended Use

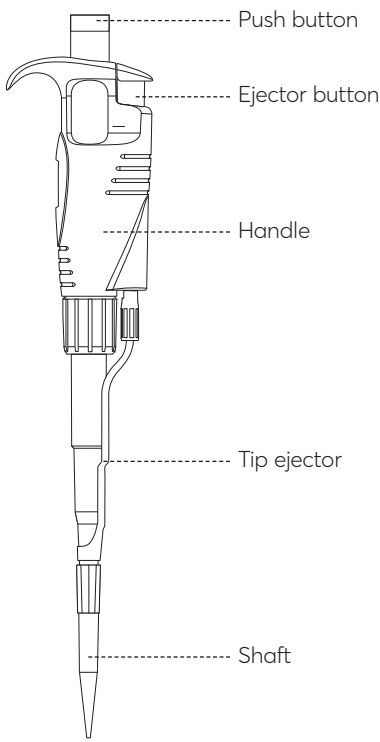
VWR® Pipettors are volumetric instruments designed to measure and transfer liquids precisely and safely with the use of disposable pipet tips. The pipettors operate on the air-cushion principle (i.e., the aspirated liquid does not come in contact with the shaft or plunger of the pipettor).

Variable volume pipettors



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 as well as fixed volume single-channel versions.

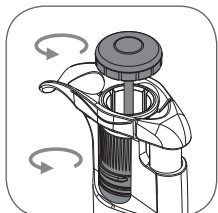
VWR® EHP, fixed volume



Step 1

Set the volume

■ VWR® EHP ■ VWR® Standard



2
1
6

2.16 μ L

1
2
5

1.25 mL

■ VWR® UHP



2
0
4
2

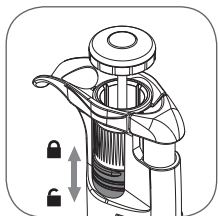
20.42 μ L

1
0
0
0

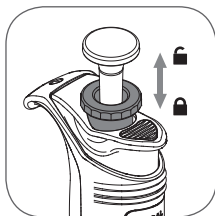
1,000 μ L

Lock the volume

■ VWR® EHP



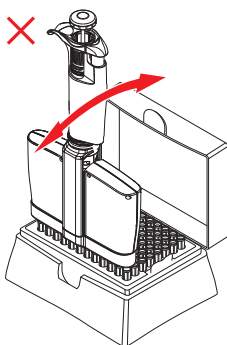
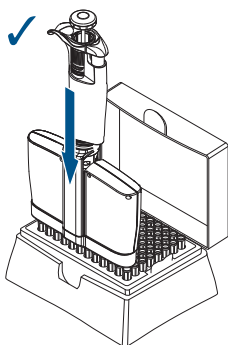
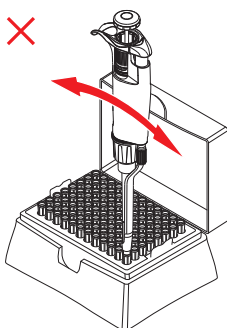
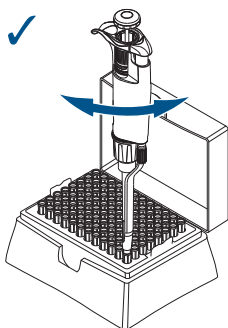
■ VWR® UHP



NOTE: VWR® Standard Single- and Multi-channel Pipettors do not feature a volume lock function.

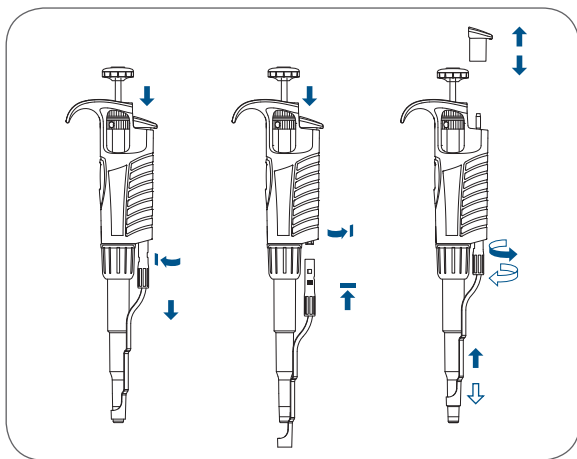
Step 2

Insert the tip

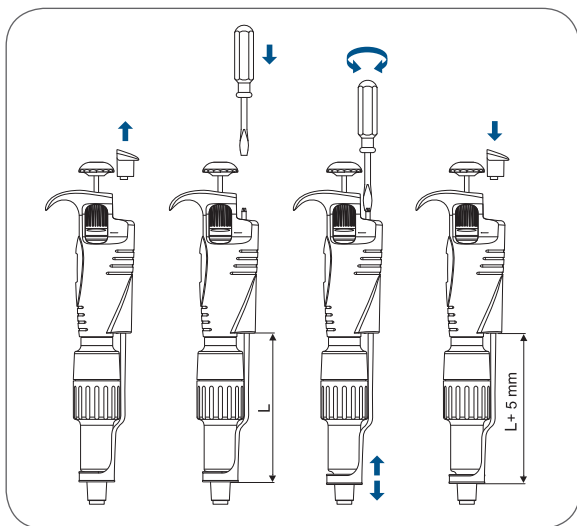


Ejector adjustment

■ VWR® EHP ■ VWR® Standard



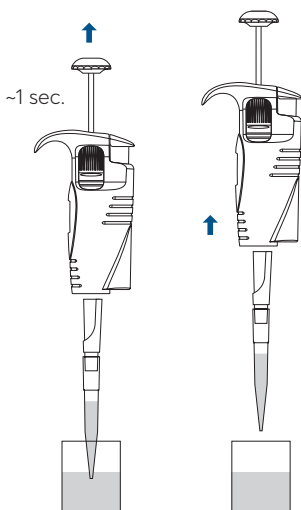
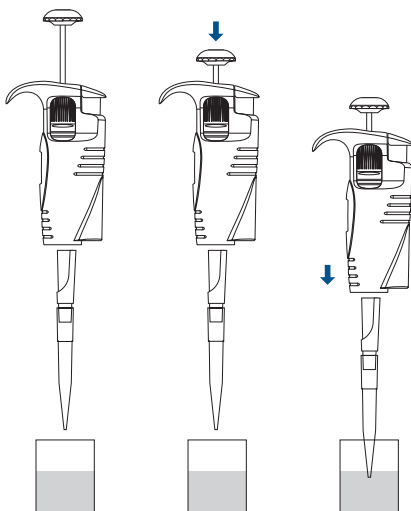
Pipettors 5,000 and 10,000 μL



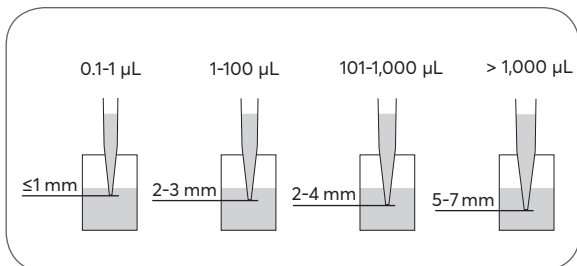
NOTE: Ejector adjustment is not necessary in VWR® UHP pipettors as they feature a long ejector stroke.

Step 3

Aspirate the liquid

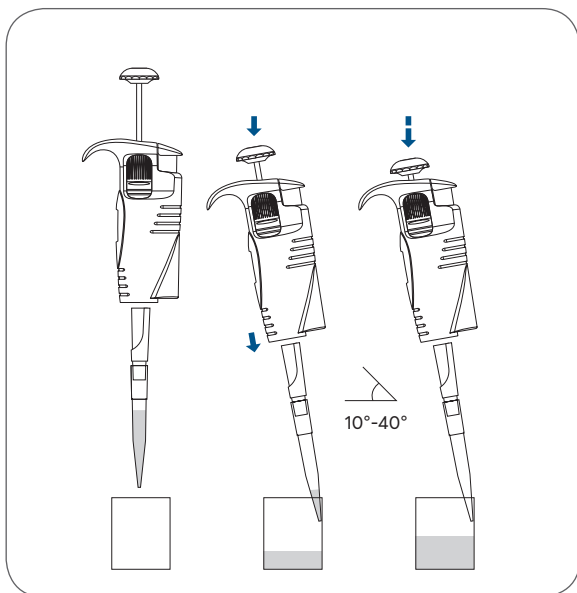


Recommended depth



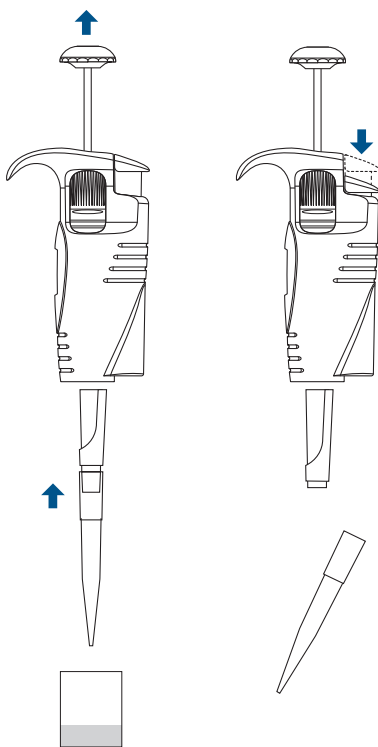
Step 4

Dispense the liquid



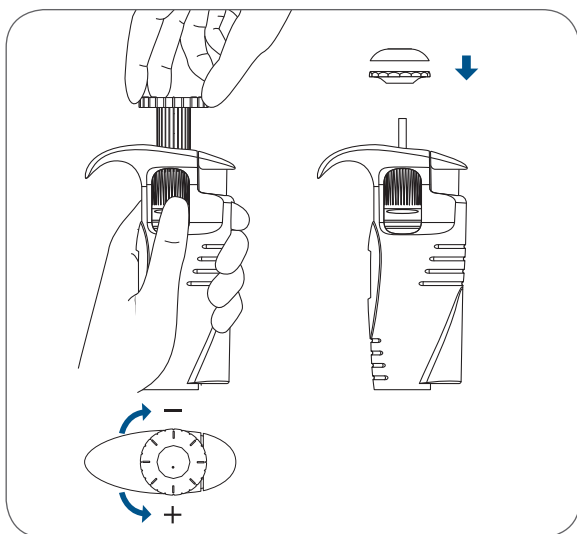
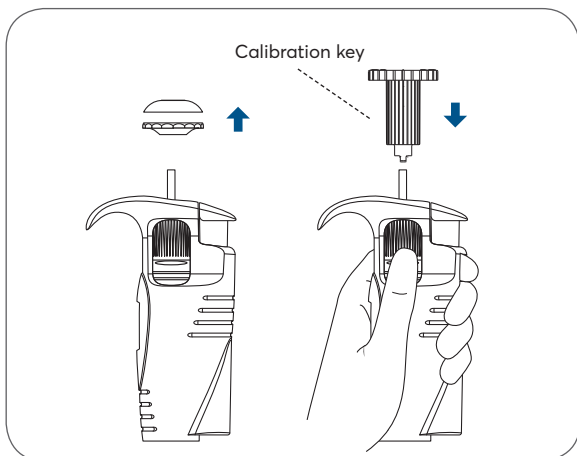
Step 5

Eject the tip



Step 6 Calibration

■ VWR® EHP ■ VWR® Standard

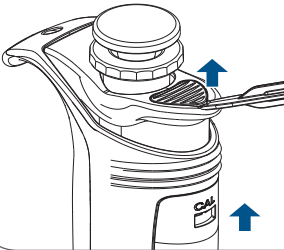


NOTE: Before calibration, in the VWR® EHP and VWR® UHP lines, always remember to lock the volume using the lock function and for the VWR® Standard hold the calibration knob.

■ VWR® UHP



Calibration key – flat end



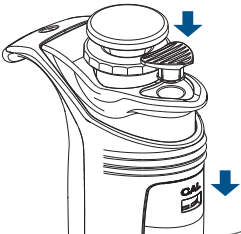
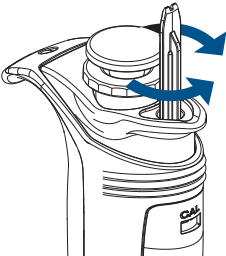
"Calibration"
position



"Operating"
position



Calibration key – cross end



Warranty

VWR warrants that this product will be free from defects in material and workmanship for a period of five (5) years from date of delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

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.



- 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.

Legal address of Manufacturer

Europe

VWR International bv,
Researchpark Haasrode 2020
Geldenaaksebaan 464 B-3001 Leuven
+3216385011
be.vwr.com

United States

VWR International LLC
100 Matsonford Rd
Radnor, PA 19087
+1 800-932-5000
www.vwr.com

Our local offices in Europe, AMEA and North America

Austria

VWR International GmbH
Graumannsgasse 7
1150 Vienna
Tel.: +43 1 97 002 0
Email: info.at@vwr.com

Belgium

VWR International BV
Researchpark Haasrode 2020
Geldenaaksebaan 464
3001 Leuven
Tel.: +32 016 385 011
Email: vwr.be@vwr.com

Canada

VWR International
2360 Argenta Road
Mississauga, Ontario L5N 5Z7
Tel.: +1 800 932 5000
Email: info_china@vwr.com

China

VWR (Shanghai) Co., Ltd
Bld.No.1, No.3728 Jinke Rd,
Pudong New District
Shanghai, 201203- China
Tel.: +400 821 8006
Email: info_china@vwr.com

Czech Republic

VWR International s. r. o.
Veetee Business Park
Pražská 442
CZ - 281 67 Stribrná Skalce
Tel.: +420 321 570 321
Email: info.cz@vwr.com

Denmark

VWR International A/S
Tobaksvejen 21
2860 Søborg
Tel.: +45 43 86 87 88
Email: info.dk@vwr.com

Finland

VWR International Oy
Valimotie 17-19
00380 Helsinki
Tel.: +358 9 80 45 51
Email: info.fi@vwr.com

France

VWR International S.A.S.
Immeuble Estréo
1-3 rue d'Aurion
93114 Rosny-sous-Bois cedex
Tel.: 0 825 02 30 30* (national)
Tel.: +33 (0) 1 45 14 85 00
(international)
Email: info.fr@vwr.com
* 0,18 € TTC/ min + prix appel

Germany

VWR International GmbH
Hilpertstrasse 20a
D - 64295 Darmstadt
Freecall: 0800 702 00 07
Tel.: +49 (0) 6151 3972 0
(international)
Email: info.de@vwr.com

Hungary

VWR International Kft.
Simon László u. 4.
4034 Debrecen
Tel.: +36 (52) 521-130
Email: info.hu@vwr.com

India

VWR Lab Products Private
Limited
No.139, BDA Industrial Suburb,
6th Main, Tumkur Road,
Peenya Post,
Bangalore, India - 560058
Tel.: +91-80-28078400
Email: vwr_india@vwr.com

Ireland

VWR International Ltd
Orion Business Campus
Northwest Business Park
Ballycoolin
Dublin 15
Tel.: +353 01 88 22 222
Email sales.ie@vwr.com

Italy

VWR International S.r.l.
Via San Giusto 85
20153 Milano (MI)
Tel.: +39 02-3320311/02-487791
Email: info.it@vwr.com

Korea

Avantor Performance Materials
Korea Ltd
2F ACE Gwanggyo Tower I
Daehak 4ro 17
Yongtong-gu Suwon
Korea 16226
Tel.: +82 31 645 7250
Email: saleskorea@
avantorsciences.com

Mexico

VWR International, S.de R.L.
de C.V.
Km. 14.5 Carretera
Tlalnepantla-Cuautitlán
Col. Lechería
Tultitlán Edo. de México
CP 54940
Tel.: +52 (55) 5005 0100
Email: vwrmx@vwr.com

Middle East & Africa

VWR International FZ-LLC
Office 203, DSP Lab Complex,
Dubai Science Park
Dubai, United Arab Emirates
Tel.: +971 4 5573271
Email: info.mea@vwr.com

The Netherlands

VWR International B.V.
Postbus 8198
1005 AD Amsterdam
Tel.: +31 020 4808 400
Email: info.nl@vwr.com

Norway

VWR International AS
Brynsalleen 4
0667 Oslo
Tel.: +47 22 90 00 00
Email: info.no@vwr.com

Poland

VWR International Sp. z o.o.
Limbowa 5
80-175 Gdańsk
Tel.: +48 058 32 38 210
Email: info.pl@vwr.com

Portugal

VWR International -
Mat. de Laboratório,
Soc. Unipessoal, Lda
Edifício Ramazzotti
Avenida do Forte 6,
P-109 e P-110
2790-072 Camaxide
Tel.: +351 21 3600 770
Email: info.pt@vwr.com

Singapore

VWR Singapore Pte Ltd
18 Gul Drive
Singapore 629468
Tel.: +65 6505 0760
Email: sales.sg@vwr.com

Spain

VWR International Eurolab S.L.
C/ Tecnología 5-17
A-7 Llinars Park
08450 - Llinars del Vallès
Barcelona
Tel.: +34 902 222 897
Email: info.es@vwr.com

Sweden

VWR International AB
Fagerstagan 18b
163 94 Stockholm
Tel.: +46 08 621 34 20
Email: info.se@vwr.com

Switzerland

VWR International GmbH
Lerzenstrasse 16/18
8953 Dietikon
Tel.: +41 044 745 13 13
Email: info.ch@vwr.com

UK

VWR International Ltd
Customer Service Centre
Hunter Boulevard
Magna Park
Lutterworth
Leicestershire
LE17 4XN
Tel.: +44 (0) 800 22 33 44
Email: uksales@vwr.com

United States

VWR International, LLC
100 Matsonford Road
Building One Suite 200
Radnor, PA 19087
Tel.: +1 800 932 5000
Email: vwrcustomerService@
vwr.com