

■ Proline® Plus Mechanical Pipettes

Dependable Durability

Sartorius' mechanical pipette Proline Plus in the Biohit *family* is designed to offer comfort and quality in every day manual pipetting. While it shares many of the excellent features of mLINE, it has a personal design and a robust feel for heavier use. In addition, it has the widest pipette range, including fixed volume pipettes, for when volumes need to be ready-set to avoid errors. Proline Plus pipettes

are an excellent choice for both experienced laboratory professionals and students.

- The widest range of pipettes for various users and applications
- Ergonomic design with light pipetting forces, comfortable handle and finger support for reduced risk of strain injuries
- Minimised risk of contamination with Safe-Cone Filters and full autoclavability
- Highly durable with strengthened structure also for heavier use

□ Features and Benefits

Volume setting with click stop
– Easy to use volume setting

Ergonomic finger support
– No need to squeeze the pipette during pipetting, reduces the risk of RSI



Light pipetting forces & ergonomic design
– Prevents repetitive strain injury (RSI)

Volume colour-coding
– Eases correct tip volume selection through matching colour code

Thermal insulation of internal components
– Improves accuracy

Large numbers in volume display
– Quick and easy-to-read volume minimises risk of volume setting errors

Easy to use "do-it-yourself" calibration
– Quick re-calibration possible e.g. for different liquids

Materials have high chemical and UV-resistance
– Highly durable and long lasting pipette

Only three parts to disassemble
– The easiest pipette to clean and maintain, improves purity

Fully autoclavable without disassembling
– Easy to steam sterilise, improves purity



Safe-Cone Filters available for models > 10 µl
– Contamination free pipetting



Widest range of pipettes, both adjustable and fixed volume, available

- Adjustable volume pipettes for professionals
- Fixed volume pipettes for specific applications to avoid volume errors



Optiload tip loading mechanism in multichannel models

- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone
- Makes tip ejection light and easy





Widest Range of Pipettes

The Proline Plus family includes the widest range of pipettes, from 3 µl 5µl to 10 ml, as both adjustable and fixed volume devices. The fixed volume pipettes are particularly useful in student laboratories or in any laboratory where the application requires a constant volume, ready-set, to avoid errors.

Ergonomic Design

A comfortable handle and ergonomic finger support enable effortless pipetting. There is no need to squeeze the handle during pipetting, thereby reducing the risk of RSI.



Perfect Tip Sealing with Optiload Tip Loading Mechanism in Multichannel Pipettes

All Proline Plus multichannel pipettes are equipped with spring loaded tip cones – the Optiload mechanism secures even tip sealing and simultaneously allows tips to be loaded and ejected with minimum force. This is a particular advantage in multichannel models, where tip loading and ejecting generally require more force. Using less force reduces the risk of hand injuries.



Prevent Contamination with Safe-Cone Filters

Replaceable Safe-Cone Filters act as a barrier, preventing aerosols or fluids from reaching the internal components of the pipette. Safe-Cone Filters are available for all Proline Plus models greater than 10 µl. These filters must be replaced regularly, and in every case of over-aspiration.

Maintenance and Calibration Made Easy

No opening tools are needed when cleaning and maintaining Proline Plus pipettes, and only three parts need to be cleaned. These pipettes can be easily calibrated using the tool provided with them.

Ordering Information

Proline® Plus

Cat. No.	Channels	Volume Range (µl)	Increment (µl)	Test Volume (µl)	Inacc. (%)	Impr. Safe-Cone Filters Standard Plus	Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)
728010	1	● 0.1–3	0.002	3 1.5 0.3	1.30 2.40 10.00	0.80 1.60 6.00	– 10 10	– 10 10
728020	1	● 0.5–10	0.01	10 5 1	1.00 1.50 2.50	0.60 1.00 1.50	– 10 10	– 10 10
728030	1	● 2–20	0.02	20 10 2	0.90 1.20 3.00	0.40 1.00 2.00	– 200 200	– 200 200
728040	1	● 5–50	0.10	50 25 5	1.00 1.40 3.00	0.30 0.50 1.50	721008 721018 721018	200 200 120
728050	1	● 10–100	0.10	100 50 10	0.80 1.00 2.00	0.15 0.40 1.00	721008 721018 721017	200 200 350
728060	1	● 20–200	0.20	200 100 20	0.60 0.80 2.00	0.15 0.30 0.80	721007 721017 721015	200 350 5000
728070	1	● 100–1000	1.00	1000 500 100	0.60 0.60 1.00	0.20 0.20 0.40	721006 721016 721016	1000 1000 1000
728080	1	● 500–5000	10.0	5000 2500 500	0.50 0.60 2.00	0.20 0.30 0.60	721005 721015 721015	5000 – –
728090	1	● 1–10 ml	20.0	10000 5000 1000	0.60 1.20 3.00	0.20 0.30 0.60	721005 721015 721015	10 000 – –
728120	8	● 0.5–10	0.01	10 5 1	1.50 2.50 4.00	1.00 2.50 4.00	– – –	10 10 10
728130	8	● 10–100	0.10	100 50 10	0.70 1.00 3.00	0.25 0.70 1.50	721008 721018 721017	200 350 300
728140	8	● 30–300	0.20	300 150 30	0.60 1.00 2.00	0.25 0.50 1.00	721007 721017 721017	350 300 300
728220	12	● 0.5–10	0.01	10 5 1	1.50 2.50 4.00	1.00 2.50 4.00	– – –	10 10 10
728230	12	● 10–100	0.10	100 50 10	0.70 1.00 3.00	0.25 0.70 1.50	721008 721018 721017	200 350 300
728240	12	● 30–300	0.20	300 150 30	0.60 1.00 2.00	0.25 0.50 1.00	721007 721017 721017	350 300 300

Ordering Information

Proline® Plus FIXED Volume, Single-Channel

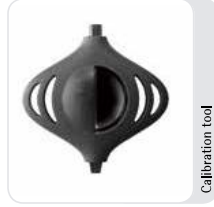
Cat. No.	Channels	Volume (µl)	Incrment (µl)	Test Volume (µl)	Inacc. (%)	Impr. (%)	Safe-Cone Filters Standard	Plus	Optifit Tips (µl)	SafetySpace™ Filter Tips (µl)
728515	1	5	-	5	1.30	1.20	-	-	10	10
728520	1	10	-	10	0.80	0.80	-	-	10	10
728530	1	20	-	20	0.60	0.50	721014	-	200	20
728535	1	25	-	25	0.50	0.30	721008	721018	200	120
728545	1	50	-	50	0.50	0.30	721008	721018	200	120
728550	1	100	-	100	0.50	0.30	721008	721018	200	120
728560	1	200	-	200	0.40	0.20	721007	721017	200	200
728565	1	250	-	250	0.40	0.20	721006	721016	1000	300
728567	1	500	-	500	0.30	0.20	721006	721016	1000	500
728570	1	1000	-	1000	0.30	0.20	721006	721016	1000	1000
728575	1	2000	-	2000	0.30	0.15	721005	721015	5000	-
728580	1	5000	-	5000	0.30	0.15	721005	721015	5000	-
728590	1	10 ml	-	10000	0.60	0.20	721005	721015	10 000	-



Ordering Information

Pipette Stands and Accessories

Cat. No.	Item
725600	Carousel Stand for 6 pipettes
725610	Pipette Holder for one pipette
725620	Linear Stand
726203	Calibration Tool Tube opener



Proline® Plus Starter Kits

Proline Plus Starter Kit offers an opportunity to test and get started with Proline Plus. You can choose between four Starter Kits, with two or three single-channel Proline Plus pipettes.

All kits include a range of useful accessories, such as a pipette holder and a calibration tool that also acts as a tube opener, as well as the required instructions.

Ordering Information

Cat. No.	Item
728650	Proline® Plus Starter Kit 1 Proline Plus 0.1–3 µl Proline Plus 0.5–10 µl Optifit Tip 0.1–10 µl, Single Tray × 2 Pipette Holder × 2 Calibration Tool Tube Opener × 2 Literature



Cat. No.	Item
728651	Proline® Plus Starter Kit 2 Proline Plus 0.5–10 µl Proline Plus 10–100 µl Proline Plus 100–1000 µl Optifit Tip 0.1–10 µl, Single Tray Optifit Tip 0.5–200 µl, Single Tray Optifit Tip 10–1000 µl, Single Tray Pipette Holder × 3 Calibration Tool Tube Opener × 3 Literature



Cat. No.	Item
728652	Proline® Plus Starter Kit 3 Proline Plus 2–20 µl Proline Plus 20–200 µl Proline Plus 100–1000 µl Optifit Tip 0.5–200 µl, Single Tray × 2 Optifit Tip 10–1000 µl, Single Tray Pipette Holder × 3 Calibration Tool Tube Opener × 3 Literature



Cat. No.	Item
728653	Proline® Plus Starter Kit 4 Proline Plus 500–5000 µl Proline Plus 1000–10000 µl Optifit Tip 100–5000 µl, Bulk Optifit Tip 1–10 ml, Bulk Pipette Holder × 2 Calibration Tool Tube Opener × 2 Literature