

■ Proline® Plus Mechanical Pipettes

Dependable Durability



Fixed volume Proline® Plus pipette



Proline® Plus has a comfortable handle and an ergonomic finger support for effortless pipetting.



Safe-Cone Filters protect the pipette from contamination, and should be changed regularly.

The Proline® Plus mechanical pipette family is designed to offer comfort and quality for your everyday manual pipetting. It combines durable construction with ease and lightness of use, and is therefore the perfect choice for liquid-handling professionals and students alike. In addition, it has the widest pipette range, including fixed volume pipettes for when volumes need to be ready-set to avoid errors.

Ergonomic Design

Proline® Plus has low pipetting forces, a comfortable handle and an ergonomic finger support for effortless pipetting. Good fit in hand minimizes the grip force needed to hold the pipette, thereby reducing the risk of strain injury.

Loading Tips on Multi-channel Pipettes with Minimum Force

Loading and ejecting tips with multi-channel pipettes requires relatively high forces. Proline® Plus multi-channel pipettes have spring loaded tip cones – the Optiload mechanism. Optiload allows tips to be loaded and ejected with minimum force, which reduces the risk of hand injuries. Moreover, it secures even tip sealing onto every individual tip cone.

Protect the Pipette with Safe-Cone Filters

The replaceable Safe-Cone Filter located inside the tip-cone prevents aerosols and fluids from penetrating the pipette, also in case of over-aspiration. The use of Safe-Cone Filters lengthens the maintenance interval of the pipette. Safe-Cone Filters are available for all Proline® Plus models greater than 10 µl. They must be replaced regularly, and always in case of over-aspiration.

Easy Maintenance and Adjustment

No opening tools are needed for cleaning and maintaining Proline® Plus pipettes, and only three parts need to be cleaned. These pipettes are also easy to adjust using the adjustment tool that is provided with the pipette.



Proline® Plus pipettes have only three parts that need cleaning and maintenance.

Features and Benefits

- Low pipetting forces that prevent WRULD and improve results in long pipetting series
- Ergonomic finger support minimizes the grip force needed to hold the pipette
- Optiload mechanism in multi-channel models for easy and light tip loading with perfect tip sealing
- Wide variety of adjustable single and multi-channel models as well as fixed single-channel models
- Volume range from 3 µl (5 µl for fixed) to 10 ml
- Easy volume setting with click stop mechanism
- Big volume display
- Colour-coding of different volumes to ease the selection of matching pipette tips
- Safe-Cone Filters available for models > 10 µl
- Fully autoclavable without disassembly
- Simple to clean and maintain with only three parts to disassemble
- Materials have high chemical and UV-resistance to secure long life-time of the pipette



Fully autoclavable

Ordering Information

Proline® Plus Order Code	Channels	Volume Range	Increment	Test Volume	Systematic Error ^N Limit ± (%)	Random Error ^N Limit (%)
728010	1	0.1 – 3	0.002	3	1.4 2.6 0.3	0.042 0.039 0.030
				1.5	2.6	0.024
				0.3	10.0	0.018
728020	1	0.5 – 10	0.01	10	1.0 1.5 3.0	0.100 0.075 0.030
				5	1.5	0.060
				1	3.0	0.020
728030	1	2 – 20	0.02	20	1.0 1.4 2	0.200 0.140 0.080
				10	1.4	0.100
				2	4.0	0.060
728040	1	5 – 50	0.10	50	1.0 1.4 3.0	0.500 0.350 0.150
				25	1.4	0.150
				5	3.0	0.075
728050	1	10 – 100	0.10	100	0.8 1.0 3.0	0.80 0.50 0.30
				50	1.0	0.20
				10	3.0	0.10
728060	1	20 – 200	0.20	200	0.6 0.8 2.3	1.20 0.80 0.46
				100	0.8	0.40
				20	2.3	0.18
728070	1	100 – 1,000	1.00	1,000	0.7 0.8 2.5	7.0 4.0 2.5
				500	0.8	0.2
				100	2.5	1.0
728080	1	500 – 5,000	10.0	5,000	0.6 0.7 2.4	30 17.5 12
				2,500	0.7	0.3
				500	2.4	7.5
728090	1	1,000 – 10,000	20.0	10,000	0.6 1.2 3.0	60 60 30
				5,000	1.2	0.2
				1,000	3.0	15
728120	8	0.5 – 10	0.01	10	1.5	0.150
728220	12	0.5 – 10	0.01	5	2.5	0.125
				1	5.5	0.055
728130	8	10 – 100	0.10	100	0.9	0.90
				50	1.2	0.4
				10	4.0	0.35
728230	12	10 – 100	0.10	100	0.9	0.40
				50	1.2	0.20
				10	4.0	0.20
728140	8	30 – 300	0.20	300	0.6	1.80
				150	1.0	0.25
				30	2.5	0.75
728240	12	30 – 300	0.20	300	0.6	0.75
				150	1.0	0.5
				30	2.5	0.30

Tip Selection Guide

Pipette Colour-Code	Safe-Cone Filters Standard	Safe-Cone Filters Plus	Optifit Tip ^{LRT} Colour-Code	Optifit Tip ^{LRT} Volume	SafetySpace Tip ^{LRT} Colour-Code	SafetySpace Tip ^{LRT} Volume
●	-	-	●	0.1 – 10 µl	●	0.1 – 10 µl
●	-	-	●	0.1 – 10 µl	●	0.1 – 10 µl
●	721008	721018	●	0.5 – 200 µl	●	0.5 – 20 µl
●	721008	721018	●	0.5 – 200 µl	●	0.5 – 200 µl
●	721008	721018	●	0.5 – 200 µl	●	0.5 – 200 µl
●	721007	721017	●	0.5 – 200 µl	●	5 – 200 µl
●	721007	721017	●	0.5 – 200 µl	●	5 – 300 µl
●	721006	721016	●	10 – 1,000 µl	●	50 – 1,000 µl
●	721005	721015	●	100 – 5,000 µl	-	-
●	721005	721015	●	500 – 10,000 µl	-	-
●	-	-	●	0.1 – 10 µl	●	0.1 – 10 µl
●	721008	721018	●	0.5 – 200 µl	●	5 – 200 µl
●	721008	721018	●	0.5 – 200 µl	●	5 – 350 µl
●	721007	721017	●	5 – 350 µl	●	5 – 300 µl

^N Note: The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655.
Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without prior notice.

^{LRT} Note: Low Retention Tips are available in volumes up to 1,200 µl.
The best compatibility is achieved when combining Sartorius pipettes and Sartorius tips. The systematic error and random error results, in tests, have been achieved using Sartorius Optifit tips.

Ordering Information

Proline® Plus FIXED Volume, Single-Channel

Order Code	Channels	Volume (µl)	Test Volume (µl)	Systematic Error ^N Limit ± (%)	Random Error ^N Limit (%)	Pipette Colour-Code	Safe-Cone Filters Standard	Optifit Tip ^{LRT} Colour-Code	SafetySpace Tip ^{LRT} Colour-Code
				(µl)	(µl)				
728515	1	● 5	5	1.3	0.065	●	-	● 0.1–10 µl	● 0.1–10 µl
728520	1	● 10	10	0.8	0.080	●	-	● 0.1–10 µl	● 0.1–10 µl
728530	1	● 20	20	0.6	0.120	●	721008	721018 ● 0.5–200 µl 5–350 µl	● 0.5–20 µl
728535	1	● 25	25	0.5	0.125	●	721008	721018 ● 0.5–200 µl 5–350 µl	● 2–120 µl
728545	1	● 50	50	0.5	0.250	●	721008	721018 ● 0.5–200 µl 5–350 µl	● 2–120 µl
728550	1	● 100	100	0.5	0.50	●	721008	721018 ● 0.5–200 µl 5–350 µl	● 5–200 µl
728560	1	● 200	200	0.4	0.80	●	721007	721017 ● 0.5–200 µl 5–350 µl	● 5–200 µl ● 5–300 µl
728565	1	● 250	250	0.4	1.00	●	721006	721016 ● 10–1,000 µl	● 50–1,000 µl
728567	1	● 500	500	0.3	1.50	●	721006	721016 ● 10–1,000 µl	● 50–1,000 µl
728570	1	● 1,000	1,000	0.3	3.0	●	721006	721016 ● 10–1,000 µl	● 50–1,000 µl
728575	1	● 2,000	2,000	0.3	6.0	●	721005	721015 ● 100–5,000 µl	
728580	1	● 5,000	5,000	0.3	15	●	721005	721015 ● 100–5,000 µl	
728590	1	● 10,000	10,000	0.6	60	●	721005	721015 ● 500–10,000 µl	

^N Note: The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655.
Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without prior notice.

Tip Selection Guide

^{LRT} Note: Low Retention Tips are available in volumes up to 1,200 µl.
The best compatibility is achieved when combining Sartorius pipettes and Sartorius tips. The systematic error and random error results, in tests, have been achieved using Sartorius Optifit tips



Proline® Plus Fixed Volume Pipettes.



Proline® Plus Multipacks – Complete Sets of Pipettes and Accessories

Proline® Plus Multipacks offer are sets of mechanical pipettes in an affordable package, including a Linear Stand and racks of matching tips.

These Multipacks allow the affordable renewal of existing pipettes, or to set up new workstations, with a set of highly ergonomic pipettes with high accuracy and precision.

Ordering Information

Multipack Order Code	Proline® Plus Pipettes	Optifit Tips	Accessories
Proline® Plus Pipette 3-pack 10 LH-728670	1-channel – 0.5 – 10 µl – 10 – 100 µl – 100 – 1,000 µl	Tip Racks (96 tips) – 0.1 – 10 µl – 0.5 – 200 µl – 10 – 1,000 µl	Linear Stand
Proline® Plus Pipette 3-pack 20 LH-728671	1-channel – 2 – 20 µl – 20 – 200 µl – 100 – 1,000 µl	Tip Racks (96 tips) – 0.5 – 200 µl – 10 – 1,000 µl	Linear Stand
Proline® Plus Pipette 4-pack 20 LH-728672	1-channel – 0.5 – 10 µl – 2 – 20 µl – 20 – 200 µl – 100 – 1,000 µl	Tip Racks (96 tips) – 0.1 – 10 µl – 0.5 – 200 µl – 10 – 1,000 µl	Linear Stand
Proline® Plus Pipette 4-pack 100 LH-728673	1-channel – 0.5 – 10 µl – 10 – 100 µl – 20 – 200 µl – 100 – 1,000 µl	Tip Racks (96 tips) – 0.1 – 10 µl – 0.5 – 200 µl – 10 – 1,000 µl	Linear Stand
Proline® Plus Pipette 5-pack 10 LH-728674	1-channel – 0.5 – 10 µl – 10 – 100 µl – 20 – 200 µl – 100 – 1,000 µl – 500 – 5,000 µl	Tip Racks (96 tips) – 0.1 – 10 µl – 0.5 – 200 µl – 10 – 1,000 µl Tip Rack (50 tips) – 100 – 5,000 µl	Linear Stand
Proline® Plus Pipette 5-pack 20 LH-728675	1-channel – 2 – 20 µl – 10 – 100 µl – 20 – 200 µl – 100 – 1,000 µl – 500 – 5,000 µl	Tip Racks (96 tips) – 0.5 – 200 µl – 10 – 1,000 µl Tip Rack (50 tips) – 100 – 5,000 µl	Linear Stand
Proline® Plus Pipette 3+1-pack LH-728676	1-channel – 0.5 – 10 µl – 20 – 200 µl – 100 – 1,000 µl 8-channel – 30 – 300 µl	Tip Racks (96 tips) – 0.1 – 10 µl – 0.5 – 200 µl – 5 – 350 µl – 10 – 1,000 µl	Linear Stand
Proline® Plus Pipette 3-pack max LH-728677	1-channel – 100 – 1,000 µl – 500 – 5,000 µl – 1,000 – 10,000 µl	Tip Racks – 10 – 1,000 µl (96 tips) – 100 – 5,000 µl (50 tips) – 500 – 10,000 µl (35 tips)	Linear Stand

Proline® Mechanical Pipettes

Affordable Reliability

The fact that Proline®, our first mechanical pipette, is still in use in many laboratories by over 200 000 users, testifies to its timeless, practical design and reliability. Being the most affordable pipette in Sartorius' range of mechanical pipettes, it is ideal for universities and colleges, or any laboratory seeking a cost-efficient liquid handling tool.

Due to its relatively light weight, high accuracy and precision, it is used by many professionals.

Proline® can be used with many universal tip brands and the range includes also fixed volume models, which makes it a flexible tool for various laboratories.

Features and Benefits

- Wide range of pipettes, both adjustable and fixed volume
- Volume range from 2,5 µl (5 µl for fixed) to 5 ml
- Easy volume setting with click stop mechanism

- Safe-Cone Filters available for models > 10 µl
- User adjustment e.g. for different liquids



Ordering Information

Proline® Order Code	Channels	Volume Range	Increment	Test Volume	Systematic Error ^N Limit ± (%)	Random Error ^N Limit (%)	(µl)	(µl)	(µl)	(%)	(µl)
720010	1	0.1–2.5	0.05	2.5	2.5	0.063	2.0	0.050			
				1.25	3.0	0.038	3.0	0.038			
				0.25	12.0	0.036	6.0	0.018			
720015	1	0.5–10	0.10	10	1.0	0.100	0.8	0.080			
				5	1.5	0.075	1.5	0.075			
				1	3.0	0.030	2.0	0.020			
720080	1	2–20	0.50	20	1.0	0.200	0.5	0.100			
				10	1.4	0.140	0.9	0.090			
				2	4.0	0.080	3.0	0.060			
720025	1	5–50	0.50	50	1.0	0.500	0.3	0.150			
				25	1.4	0.350	0.6	0.150			
				5	3.0	0.150	2.0	0.100			
720050	1	10–100	1.00	100	0.8	0.80	0.2	0.20			
				50	1.0	0.50	0.4	0.20			
				10	3.0	0.30	1.0	0.10			
720070	1	20–200	1.00	200	0.6	1.20	0.2	0.40			
				100	0.8	0.80	0.3	0.30			
				20	2.5	0.50	0.9	0.18			
720060	1	100–1,000	5.00	1,000	0.7	7.0	0.2	2.0			
				500	0.8	4.0	0.25	1.25			
				100	2.5	2.5	0.7	0.7			
720110	1	1,000–5,000	50.0	5,000	0.6	30	0.2	10			
				2,500	0.7	17.5	0.3	7.5			
				1,000	1.2	12	0.3	3			
720210	8	0.5–10	0.10	10	1.5	0.150	1.5	0.150			
720310	12	0.5–10	0.10	5	2.5	0.125	2.5	0.125			
				1	5.5	0.055	4.0	0.040			
720220	8	5–50	0.50	50	1.0	0.500	0.5	0.250			
720320	12	5–50	0.50	25	1.5	0.375	1.0	0.250			
				5	3.0	0.150	2.0	0.100			
720240	8	50–300	5.00	300	0.7	2.10	0.25	0.75			
720340	12	50–300	5.00	150	1.0	1.50	0.5	0.75			
				50	1.5	0.75	0.8	0.40			

^N Note: The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655.
Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without prior notice.

Tip Selection Guide

Pipette Colour-Code	Safe-Cone Filters Standard	Safe-Cone Filters Plus	Optifit Tip ^{LRT} Colour-Code	Volume	SafetySpace Tip ^{LRT} Colour-Code	Volume
●	-	-	●	0.1–10 µl	●	0.1–10 µl
●	-	-	●	0.1–10 µl	●	0.1–10 µl
●	721008	721018	●	0.5–200 µl	●	0.5–20 µl
●	721008	721018	●	0.5–200 µl	●	2–120 µl
●	721007	721017	●	0.5–200 µl	●	2–120 µl
●	721007	721017	●	0.5–200 µl	●	5–200 µl
●	721007	721017	●	0.5–200 µl	●	5–300 µl
●	721006	721016	●	10–1,000 µl	●	50–1,000 µl
●	721005	721015	●	100–5,000 µl	-	-
●	-	-	●	0.1–10 µl	●	0.1–10 µl
●	-	-	●	0.1–10 µl Extended	●	0.1–10 µl Extended ^{FT}
●	721014	-	●	0.5–200 µl	●	2–120 µl
●	721014	-	●	0.5–200 µl	●	5–350 µl
●	721014	-	●	5–350 µl	●	5–300 µl

^{LRT} Note: Low Retention Tips are available in volumes up to 1,200 µl.
The best compatibility is achieved when combining Sartorius pipettes and Sartorius tips. The systematic error and random error results, in tests, have been achieved using Sartorius Optifit tips.



Ordering Information

Proline® FIXED Volume, Single-Channel

Order Code	Channels	Volume Range		Test Volume	Systematic Error ^N		Random Error ^N		Pipette Colour-Code	Safe-Cone Filters		Optifit Tip ^{LRT} Colour-Code	Volume	SafetySpace Tip ^{LRT} Colour-Code	Volume
		(µl)	(µl)		Limit ± (%)	(µl)	Limit (%)	(µl)		Standard	Plus				
722001	1	●	5	5	1.3	0.065	1.2	0.060	●	-	-	●	0.1 – 10 µl	●	0.1 – 10 µl
722004	1	●	10	10	0.8	0.080	0.8	0.080	●	-	-	●	0.1 – 10 µl	●	0.1 – 10 µl
722010	1	●	20	20	0.6	0.120	0.5	0.100	●	721008	721018	●	0.5 – 200 µl	●	0.5 – 20 µl
												●	5 – 350 µl	●	2 – 120 µl
722015	1	●	25	25	0.5	0.125	0.3	0.075	●	721008	721018	●	0.5 – 200 µl	●	2 – 120 µl
												●	5 – 350 µl	●	
722020	1	●	50	50	0.5	0.250	0.3	0.150	●	721008	721018	●	0.5 – 200 µl	●	2 – 120 µl
												●	5 – 350 µl	●	
722025	1	●	100	100	0.5	0.50	0.3	0.30	●	721007	721017	●	0.5 – 200 µl	●	2 – 120 µl
												●	5 – 350 µl	●	5 – 300 µl
722030	1	●	200	200	0.4	0.80	0.2	0.40	●	721007	721017	●	0.5 – 200 µl	●	5 – 200 µl
												●	5 – 350 µl	●	5 – 300 µl
722035	1	●	250	250	0.4	1.00	0.2	0.50	●	721006	721016	●	10 – 1,000 µl	●	50 – 1,000 µl
												●		●	
722040	1	●	500	500	0.3	1.50	0.2	1.00	●	721006	721016	●	10 – 1,000 µl	●	50 – 1,000 µl
												●		●	
722045	1	●	1,000	1,000	0.3	3.0	0.2	2.0	●	721006	721016	●	10 – 1,000 µl	●	50 – 1,000 µl
												●		●	
722050	1	●	2,000	2,000	0.3	6.0	0.15	3.0	●	721005	721015	●	100 – 5,000 µl		
												●		●	
722055	1	●	5,000	5,000	0.3	15	0.15	7.5	●	721005	721015	●	100 – 5,000 µl		
												●		●	

^N Note: The listed systematic and random error values have been achieved under strictly controlled conditions during type tests per ISO 8655.
Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without prior notice.

Tip Selection Guide

^{LRT} Note: Low Retention Tips are available in volumes up to 1,200 µl.
The best compatibility is achieved when combining Sartorius pipettes and Sartorius tips. The systematic error and random error results, in tests, have been achieved using Sartorius Optifit tips.