

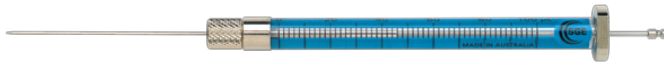
Agilent Instruments



Syringes and Accessories

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume) (± 2 % for 0.5 µL and 1 µL syringes)
Borosilicate Glass Barrel Outer Diameter (OD)	0.5 µL = 6.5 mm, 1 µL = 8 mm (except P/N 000610 which is 6.5 mm) 5 µL to 250 µL = 6.5 mm
Scale Length	0.5 µL = 27.05 mm, 1 µL to 250 µL = 54.1 mm (except P/N 000610 which is 27.05 mm)
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	6 Pack Syringe Part No.	10 Pack Syringe Part No.	25 Pack Syringe Part No.	Syringe Part No.
HP7673, 7683, 7693A and 6850ALS Fixed Needle													
5 µL	-	42	26	0.47	0.11	Cone	5F-AG-0.47	-	-	001804	-	-	001800
5 µL	-	42	23	0.63	0.11	Cone	5F-AG-0.63	-	-	001814	-	-	001810
5 µL	-	42	23-26	0.63/0.47	0.11	Cone	5F-AG-0.63/0.47	-	-	001822	-	-	001821
10 µL	-	42	26	0.47	0.11	Cone	10F-AG-0.47	-	-	002804	-	-	002800
10 µL	-	42	23	0.63	0.11	Cone	10F-AG-0.63	-	-	002814	-	002813	002810
10 µL	✓	42	23	0.63	0.11	Cone	10F-AG-GT-0.63	-	031808	-	-	-	002812
10 µL	-	42	23-26	0.63/0.47	0.11	Cone	10F-AG-0.63/0.47	-	-	002822	-	002824	002821
10 µL	✓	42	23-26	0.63/0.47	0.11	Cone	10F-AG-GT-0.63/0.47	-	031808	002827	-	-	002826
25 µL	✓	42	23-26	0.63/0.47	0.24	Cone	25F-AG-GT-0.63/0.47	-	031818	-	-	-	003668
50 µL	✓	42	23-26	0.63/0.47	0.24	Cone	50F-AG-GT-0.63/0.47	-	031142	-	-	-	004668
100 µL	✓	42	23-26	0.63/0.47	0.24	Cone	100F-AG-GT-0.63/0.47	-	031823	-	-	-	005668
HP7673, 7683, 7693A and 6850ALS Fixed Needle – SuperFlex™ Flexible Plunger													
10 µL	-	42	26	0.47	0.11	Cone	10FX-AG-0.47	-	-	002831	-	-	002830
10 µL	-	42	23	0.63	0.11	Cone	10FX-AG-0.63	-	-	002838	-	-	002835



Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	6 Pack Syringe Part No.	10 Pack Syringe Part No.	25 Pack Syringe Part No.	Syringe Part No.
HP7673, 7683, 7693A and 6850ALS Removable Needle													
0.5 µL	-	42	26	0.47	0.155	Cone	0.5BR-AG-0.47	033708*	-	-	-	-	000400
0.5 µL	-	42	23	0.63	0.155	Cone	0.5BR-AG-0.63	033715*	-	-	-	-	000410
0.5 µL	-	42	23-26	0.63/0.47	0.155	Cone	0.5BR-AG-0.63/0.47	033730*	-	-	-	-	000415
1 µL	-	42	23	0.63	0.22	Cone	1BR-AG-0.63	034715*	-	-	-	-	000610
5 µL	-	42	26	0.47	0.11	Cone	5R-AG-0.47	036710	-	-	-	-	001805
5 µL	-	42	23	0.63	0.11	Cone	5R-AG-0.63	036720	-	-	-	-	001815
5 µL	-	42	23-26	0.63/0.47	0.11	Cone	5R-AG-0.63/0.47	036730	-	-	-	-	001825
10 µL	-	42	26	0.47	0.11	Cone	10R-AG-0.47	037715	-	-	-	-	002805
10 µL	-	42	23	0.63	0.11	Cone	10R-AG-0.63	037717	-	-	-	-	002815
10 µL	✓	42	26	0.47	0.11	Cone	10R-AG-GT-0.47	037715	031809	-	-	-	002817
10 µL	✓	42	23	0.63	0.11	Cone	10R-AG-GT-0.63	037717	031809	-	002820	-	002818
10 µL	-	42	23-26	0.63/0.47	0.11	Cone	10R-AG-0.63/0.47	037730	-	-	-	-	002825
10 µL	✓	42	23-26	0.63/0.47	0.11	Cone	10R-AG-GT-0.63/0.47	037730	031809	-	-	-	002829
25 µL	-	42	23	0.63	0.24	Cone	25R-AG-0.63	038717	-	-	-	-	003665
50 µL	-	42	23	0.63	0.24	Cone	50R-AG-0.63	038717	-	-	-	-	004665
100 µL	-	42	23	0.63	0.24	Cone	100R-AG-0.63	038717	-	-	-	-	005665
250 µL	-	42	23	0.63	0.24	Cone	250R-AG-0.63	038717	-	-	-	-	006665
HP7673, 7683, 7693A and 6850ALS Removable Needle Syringes – SuperFlex™ Flexible Plunger													
10 µL	-	42	26	0.47	0.11	Cone	10RX-AG-0.47	037715	-	-	-	-	002844
10 µL	-	42	23	0.63	0.11	Cone	10RX-AG-0.63	037717	-	-	-	-	002845
HP7670 Removable Needle													
1 µL	-	50	23	0.63	0.155	Bevel	1BR-F5	034705*	-	-	-	-	000585
HP7671A-7672 Removable Needle													
1 µL	-	56	23	0.63	0.155	Bevel	1BR-FV-56	034710*	-	-	-	-	000587

* Plunger and needle replacement kit.



CTC Analytics

Specifications of the following syringes are matched to CTC holders to ensure proper fit and reliable functioning.

Syringes and Accessories



SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume) (± 2 % for 0.5 µL syringes)
Borosilicate Glass Barrel Outer Diameter (OD)	0.5 µL to 100 µL = 6.5 mm (except for P/N 003700 where OD is 8 mm), 250 µL and 500 µL = 8 mm, 1 mL = 7.6 mm, 2.5 mL = 9.7 mm
Scale Length	0.5 µL = 27.05 mm, 5 µL and 10 µL = 54.1 mm, 25 µL to 2.5 mL = 60 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Plunger Part No.	6 Pack Syringe Part No.	Syringe Part No.
Fixed Needle										
5 µL	-	50	26	0.47	0.11	Cone	5F-CTC-5/0.47C	-	-	001700
5 µL	-	50	23	0.63	0.11	Cone	5F-C/T-5/0.63C	-	-	001981
5 µL	-	50	26	0.47	0.11	Cone	5F-C/T-5/0.47C	-	-	001982
10 µL	✓	50	26	0.47	0.11	Cone	10F-C/T-GT-5/0.47C	031803	002976	002977
10 µL	-	50	26	0.47	0.11	Cone	10F-CTC-5/0.47C	-	-	002700
10 µL	-	50	26	0.47	0.11	Bevel	10F-CTC-5/0.47BV	-	-	002705
10 µL	-	50	23	0.63	0.11	Cone	10F-C/T-5/0.63C	-	002971	002981
10 µL	✓	50	22	0.72	0.175	Side Hole	10F-CTC-GT-5/0.72H	031803	-	002983
10 µL	✓	50	23	0.63	0.11	Cone	10F-C/T-GT-5/0.63C	031803	002972	002987
25 µL	✓	50	26	0.47	0.11	Cone	25F-CTC-GT-5/0.47C	0318922	-	003700
25 µL	-	50	26	0.47	0.11	Cone	25F-C/T-0.47C	-	-	003980
25 µL	✓	50	23	0.63	0.24	Cone	25F-C/T-GT-0.63C	031817	-	003987
100 µL	✓	50	26	0.47	0.11	Cone	100F-CTC-GT-5/0.47C	0318261	-	005700
100 µL	✓	50	23	0.63	0.24	Cone	100F-C/T-GT-0.63C	0318261	-	005335
250 µL	✓	50	26	0.47	0.25	Cone	250F-CTC-GT-5/0.47C	0318926	-	006700
500 µL	✓	50	26	0.47	0.25	Cone	500F-CTC-GT-5/0.47C	0318928	-	007700
1 mL	✓	56	26	0.47	0.15	Side Hole	1MF-CTC-GT-HS-5/0.47H	0318441	-	008135
1 mL	✓	56	23	0.63	0.15	Side Hole	1MF-CTC-GT-HS-5/0.63H	0318441	-	008130
2.5 mL	✓	56	26	0.47	0.15	Side Hole	2.5MF-CTC-GT-HS-5/0.47H	0318451	-	008635
2.5 mL	✓	56	23	0.63	0.15	Side Hole	2.5MF-CTC-GT-HS-5/0.63H	0318451	-	008630



Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
Removable Needle										
0.5 µL	-	50	26	0.47	0.155	Cone	0.5BNR-C/T-0.47C	033770*	-	000490
0.5 µL	-	50	23	0.63	0.155	Cone	0.5BNR-C/T-0.63C	033772*	-	000492
5 µL	-	50	23	0.63	0.11	Cone	5R-C/T-0.63C	036011	-	001984
10 µL	✓	51.5	23	0.63	0.11	Cone	10R-C/T-GT-5.15/0.63C	037013	0318121	002965
10 µL	-	50	26	0.47	0.11	Cone	10R-C/T-5/0.47C	037010	-	002982
10 µL	-	50	23	0.63	0.11	Cone	10R-C/T-0.63C	037787	-	002984
10 µL	✓	50	26	0.47	0.11	Cone	10R-C/T-GT-0.47C	037787	0318121	002985
25 µL	✓	50	26	0.47	0.15	Side Hole	25R-C/T-GT-0.47H	038749	031816	003988
25 µL	✓	50	22	0.72	0.375	Side Hole	25R-C/T-GT 0.72H	038420	031816	003989
100 µL	✓	50	26	0.47	0.2	Cone	100R-C/T-GT-0.47C	038732	031826	005333
100 µL	✓	50	23	0.63	0.24	Side Hole	100R-C/T-GT-0.63H	038736	031826	005337

* Plunger and needle replacement kit.



CTC PAL-XT and XCHANGE®

For more information on XCHANGE® on CTC PAL-XT contact CTC Analytics. www.ctc.ch



Syringes and Accessories

XCHANGE® CTC PAL-XT GC Autosampler Syringes

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD	Needle ID (mm)	Needle Tip	Replacement Needle Part No.	Replacement Plunger Part No.	Part No.
Removable Needle									
10 µL	-	56	23	0.63	0.11	Cone	037021	-	2926210
25 µL	✓	56	23	0.63	0.15	Cone	038737	2930380	2928310
50 µL	✓	56	23	0.63	0.15	Cone	038737	2930480	2928410
100 µL	✓	56	23	0.63	0.15	Cone	038737	2930580	2928510
250 µL	✓	56	23	0.63	0.15	Cone	038737	2930680	2928610
500 µL	✓	56	23	0.63	0.15	Cone	038737	2930780	2928710
1 mL	✓	56	23	0.63	0.32	Bevel	039125	2930880	2928820
2.5 mL	✓	56	23	0.63	0.32	Bevel	039525	2930980	2928920
5 mL	✓	56	23	0.63	0.32	Bevel	039525	2930985	2928922

Expert Tip :

XCHANGE® syringes are removable needle syringes - change the needle to suit your application.



Shimadzu Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume) (± 2 % for 0.5 µL and 1 µL syringes)
Borosilicate Glass Barrel Outer Diameter (OD)	6.5 mm
Scale Length	0.5 µL = 27.05 mm, 5 µL to 250 µL = 54.1 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
AOC 9 Removable Needle										
0.5 µL	-	50	26	0.47	0.155	Cone	0.5BR-S(9)0.47	033732*	-	000435
10 µL	-	50	26	0.47	0.11	Cone	10R-S(9)-0.47	037010	-	002885
AOC 14, 17, 20 and 20i Fixed Needle										
5 µL	-	42	26	0.47	0.11	Cone	5F-S-0.47	-	-	001987
5 µL	-	42	23	0.63	0.11	Cone	5F-S-0.63	-	-	001988
50 µL	-	42	23	0.63	0.24	Cone	50F-S-0.63	-	-	004682
250 µL	✓	42	23	0.63	0.24	Cone	250F-S-GT-0.63	-	031828	006682



Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
AOC 14, 17, 20 and 20i Removable Needle										
0.5 µL	-	42	26	0.47	0.155	Cone	0.5BR-S-0.47	033738*	-	000440
0.5 µL	-	42	23	0.63	0.155	Cone	0.5BR-S-0.63	033745*	-	000445
10 µL	-	42	26	0.47	0.11	Cone	10R-S-0.47	037745	-	002897
10 µL	-	42	23	0.63	0.11	Cone	10R-S-0.63	037747	-	002898
10 µL	✓	42	23	0.63	0.11	Cone	10R-S-GT-0.63	037747	031798	002902

* Plunger and needle replacement kit.

For syringes to suit the Shimadzu AOC-5000 Autosampler refer to the CTC Autosampler syringes on page 44.



PerkinElmer Instruments

Syringes and Accessories



SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume) (± 2 % for 0.5 µL)
Borosilicate Glass Barrel Outer Diameter (OD)	6.5 mm
Scale Length	0.5 µL and 5 µL = 27.05 mm, 50 µL = 54.1 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
AutoSystem and Clarus 500 Fixed Needle										
5 µL	-	70	26	0.47	0.15	Cone	5F-PE-0.47	-	-	001953
5 µL	-	70	23	0.63	0.15	Cone	5F-PE-0.63	-	-	001954
5 µL	✓	70	26	0.47	0.15	Cone	5F-PE-GT-0.47	-	031807	001955
5 µL	✓	70	23	0.63	0.15	Cone	5F-PE-GT-0.63	-	031807	001957
50 µL	-	70	23	0.63	0.24	Cone	50F-PE-0.63	-	-	004670

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle and Plunger Kit Part No.	Syringe Part No.
AutoSystem and Clarus 500 Removable Needle									
0.5 µL	-	70	26	0.47	0.155	Beveled Cone	0.5BR-PE-0.47	033750	000475
0.5 µL	-	70	23	0.63	0.155	Cone	0.5BR-PE-0.63	033765	000478

Thermo Scientific Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume) (± 2 % for 0.5 µL)
Borosilicate Glass Barrel Outer Diameter (OD)	6.5 mm
Scale Length	0.5 µL = 27.05 mm, 10 µL = 54.1 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Model				6 Pack Syringe Part No.	Syringe Part No.
										TriPlus	AS3000	AS2000	AS200/800		
Fixed Needle															
5 µL	-	50	23	0.63	0.11	Cone	5F-C/T-5/0.63C	-	-	✓	-	-	-	-	001981
10 µL	-	80	23	0.63	0.11	Cone	10F-C/T-8/0.63C	-	-	✓	-	✓	-	-	002989
10 µL	-	80	26	0.47	0.11	Cone	10F-C/T-8/0.47C	-	-	✓	-	✓	-	-	002992
10 µL	-	50	25	0.50	0.125	Cone	10F-C/T-5/0.50C	-	-	✓	✓	✓	✓	-	002967
10 µL	-	80	22	0.72	0.175	Cone	10F-C/T-8/22C	-	-	✓	-	✓	-	-	002974
10 µL	✓	50	23	0.63	0.11	Cone	10F-C/T-GT-5/0.63C	-	031803	✓	-	✓	-	002972	002987
10 µL	-	50	23	0.63	0.11	Cone	10F-C/T-5/0.63C	-	-	✓	✓	✓	✓	002971	002981
10 µL	-	50	26	0.47	0.11	Cone	10F-C/T-5/0.47C	-	-	✓	✓	✓	✓	002986	002980

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Model				6 Pack Syringe Part No.	Syringe Part No.
										TriPlus	AS3000	AS2000	AS200/800		
Removable Needle															
0.5 µL	-	50	26	0.47	0.155	Cone	0.5BNR-C/T-5/0.47C	033770*	-	✓	✓	-	-	-	000490
0.5 µL	-	50	23	0.63	0.155	Cone	0.5BNR-C/T-5/0.63C	033772*	-	✓	✓	-	-	-	000492
10 µL	-	50	26	0.47	0.11	Cone	10R-C/T-5/0.47C	037010	-	✓	✓	✓	-	-	002982
10 µL	-	50	23	0.63	0.11	Cone	10R-C/T-5/0.63C	037787	-	✓	✓	✓	✓	-	002984
10 µL	-	80	26	0.47	0.15	Cone	10R-C/T-8/0.47C	031535	-	✓	-	✓	-	-	002993

* Plunger and needle replacement kit.

Bruker/Varian Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume) (± 2 % for 1 µL syringes)
Borosilicate Glass Barrel Outer Diameter (OD)	1 µL = 8 mm, 10 µL = 6.5 mm, 100 µL = 8 mm
Scale Length	1 µL = 54.1 mm, 10 µL = 50.7 mm (except for 002950, 002981 and 002982 which is 54.1 mm), 100 µL = 60 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
8035, 8100 and 8200 Series Fixed Needle										
10 µL	✓	53	25	0.5	0.125	S/Hole	10F-GT-VA8X-2	-	031218	002923
8400/8410, CP-9010/9050 Series Fixed Needle										
10 µL	-	50	26	0.47	0.11	Bevel	10F-VA8400-5/0.47	-	-	002950
10 µL	-	50	23	0.63	0.11	Cone	10F-C/T-5/0.63C	-	-	002981



Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
8000 Series Removable Needle										
10 µL	✓	50	25	0.5	0.125	Dome	10R-GT-VA80-2	037775	031218	002926
8035, 8100 and 8200 Series Removable Needle										
1 µL	-	51	26	0.47	0.155	Cone	1BR-VA8X	034720*	-	000655
10 µL	✓	53	25	0.5	0.125	S/Hole	10R-GT-VA8X-2	037777	031218	002924
100 µL	✓	53	25	0.5	0.125	S/Hole	100R-GT-VA8X	038745	031824	005921
8400/8410, CP-9010/9050 Series Removable Needle										
10 µL	-	50	26	0.47	0.11	Cone	10R-C/T-5/0.47C	037010	-	002982

* Plunger and needle replacement kit.

Syringes and Accessories

