



SGE Syringe Selection Guide

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AUSTRALIA & PACIFIC REGION

CHINA

EUROPE

INDIA

JAPAN

MIDDLE EAST

USA

GC Autosampler Syringes

SPECIFICATIONS

Accuracy and Reproducibility
 $\pm 1\%$ (dispensed volume)
 $(\pm 2\%$ 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

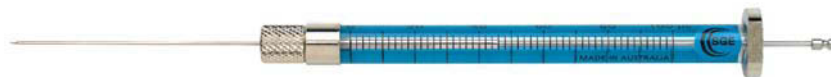
Scale Length
 54.1 mm (except P/N 000610 which is 27.05 mm)

International Standards Traceability

GC Autosampler Syringes | Agilent Instruments

Syringe Part No.	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 Part No.	10 Pack Part No.	25 Pack Part No.
HP7673, 7683, 7693A and 6850ALS Fixed Needle													
001800	5 μL	-	42	26	0.47	0.11	Cone	5F-HP-0.47	-	-	001804	-	-
001810	5 μL	-	42	23	0.63	0.11	Cone	5F-HP-0.63	-	-	001814	-	-
001821	5 μL	-	42	23-26	0.63/0.47	0.11	Cone	5F-HP-0.63/0.47	-	-	001822	-	-
002800	10 μL	-	42	26	0.47	0.11	Cone	10F-HP-0.47	-	-	002804	-	-
002810	10 μL	-	42	23	0.63	0.11	Cone	10F-HP-0.63	-	-	002814	-	002813
002812	10 μL	✓	42	23	0.63	0.11	Cone	10F-HP-GT-0.63	-	031808	-	-	-
002821	10 μL	-	42	23-26	0.63/0.47	0.11	Cone	10F-HP-0.63/0.47	-	-	002822	-	002824
002826	10 μL	✓	42	23-26	0.63/0.47	0.11	Cone	10F-HP-GT-63/47	-	031808	002827	-	-
002839	10 μL	-	42	23	0.63	0.11	Cone	10F-4.2/0.63C	-	-	-	-	-
003668	25 μL	✓	42	23-26	0.63/0.47	0.11	Cone	25F-HP-GT-0.63/47	-	031818	-	-	-
004668	50 μL	✓	42	23-26	0.63/0.47	0.11	Cone	50F-HP-GT-0.63/47	-	031822	-	-	-
005668	100 μL	✓	42	23-26	0.63/0.47	0.11	Cone	100F-HP-GT-63/47	-	031823	-	-	-
HP7673, 7683, 7693A and 6850ALS Fixed Needle - SuperFlex™ Flexible Plunger													
002830	10 μL	-	42	26	0.47	0.11	Cone	10FX-HP-0.47	-	-	002831	-	-
002835	10 μL	-	42	23	0.63	0.11	Cone	10FX-HP-0.63	-	-	002838	-	-





Syringe Part No.	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 Part No.	10 Pack Part No.	25 Pack Part No.
HP7673, 7683, 7693A and 6850ALS Removable Needle													
000400	0.5 µL	-	42	26	0.47	0.1	Cone	0.5BR-HP-0.47	033708	-	-	-	-
000410	0.5 µL	-	42	23	0.63	0.1	Cone	0.5BR-HP-0.63	033715	-	-	-	-
000415	0.5 µL	-	42	23-26	0.63/0.47	0.1	Cone	0.5BR-HP-63/47	033730	-	-	-	-
000610	1 µL	-	42	23	0.63	0.22	Cone	1BR-HP-0.63	034715	-	-	-	-
001805	5 µL	-	42	26	0.47	0.11	Cone	5R-HP-0.47	036710	-	-	-	-
001815	5 µL	-	42	23	0.63	0.11	Cone	5R-HP-0.63	036720	-	-	-	-
001825	5 µL	-	42	23-26	0.63/0.47	0.11	Cone	5R-HP-0.63/0.47	036730	-	-	-	-
002805	10 µL	-	42	26	0.47	0.11	Cone	10R-HP-0.47	037715	-	-	-	-
002815	10 µL	-	42	23	0.63	0.11	Cone	10R-HP-0.63	037717	-	-	-	-
002817	10 µL	✓	42	26	0.47	0.11	Cone	10R-HP-GT-0.47	037715	031809	-	-	-
002818	10 µL	✓	42	23	0.63	0.11	Cone	10R-HP-GT-0.63	037717	031809	-	002820	-
002825	10 µL	-	42	23-26	0.63/0.47	0.11	Cone	10R-HP-0.63/0.47	037730	-	-	-	-
002829	10 µL	✓	42	23-26	0.63/0.47	0.11	Cone	10R-HP-GT-63/47	037730	031809	-	-	-
003665	25 µL	-	42	23	0.63	0.2	Cone	25R-HP-0.63	038717	-	-	-	-
004665	50 µL	-	42	23	0.63	0.24	Cone	50R-HP-0.63	038717	-	-	-	-
005665	100 µL	-	42	23	0.63	0.24	Cone	100R-HP-0.63	038717	-	-	-	-
006665	250 µL	-	42	23	0.63	0.24	Cone	250R-HP-0.63	038717	-	-	-	-
HP7673, 7683, 7693A and 6850ALS Removable Needle Syringes - SuperFlex™ Flexible Plunger													
002844	10 µL	-	42	26	0.47	0.11	Cone	10RX-HP-0.47	037715	-	-	-	-
002845	10 µL	-	42	23	0.63	0.11	Cone	10RX-HP-0.63	037717	-	-	-	-
HP7670 Removable Needle													
000585	1 µL	-	50	23	0.63	0.15	Bevel	1BR-F5	034705	-	-	-	-
HP7671A-7672 Removable Needle													
000587	1 µL	-	56	23	0.63	0.15	Bevel	1BR-FV-56	034710	-	-	-	-

GC Autosampler Syringes



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

SPECIFICATIONS

Accuracy and Reproducibility
 $\pm 1\%$ (dispensed volume)
 $(\pm 2\%$ for 0.5 μL and 1 μL syringes)

Borosilicate Glass Barrel Outer Diameter (OD)
 0.5 μL to 100 μL = 6.5 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

GC Autosampler Syringes | CTC Analytics

Syringe Part No.	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 Part No.
Fixed Needle										
001700	5 μL	-	50	26	0.47	0.1	Cone	5F-CTC-5/0.47C	-	-
001981	5 μL	-	50	23	0.63	0.11	Cone	5F-C/T-5/0.63C	-	-
001982	5 μL	-	50	26	0.47	0.11	Cone	5F-C/T-5/0.47C	-	-
002977	10 μL	✓	50	26	0.47	0.11	Cone	10F-C/T-GT-5/0.47C	031803	002976
002700	10 μL	-	50	26	0.47	0.15	Cone	10F-CTC-5/0.47C	-	-
002705	10 μL	-	50	26	0.47	0.11	Bevel	10F-CTC-5/0.47BV	-	-
002981	10 μL	-	50	23	0.63	0.11	Cone	10F-C/T-5/0.63C	-	002971
002983	10 μL	-	50	22	0.72	0.175	Side Hole	10F-CTC-GT-5/0.72H	-	-
002987	10 μL	✓	50	23	0.63	0.11	Cone	10F-C/T-GT-5/0.63C	031803	002972
003700	25 μL	✓	50	26	0.47	0.11	Cone	25F-CTC-GT-5/0.47C	0318922	-
003980	25 μL	-	50	26	0.47	0.15	Cone	25F-C/T-0.47C	-	-
003987	25 μL	✓	50	23	0.63	0.24	Cone	25F-C/T-GT-0.63C	031817	-
005700	100 μL	✓	50	26	0.47	0.11	Cone	100F-CTC-GT-5/0.47C	031826	-
005335	100 μL	✓	50	23	0.63	0.24	Cone	100F-C/T-GT-0.63C	031826	-
006700	250 μL	✓	50	26	0.47	0.25	Cone	250F-CTC-GT-5/0.47C	0318926	-
007700	500 μL	✓	50	26	0.47	0.25	Cone	500F-CTC-GT-5/0.47C	0318928	-
008135	1 mL	✓	56	26	0.47	0.15	Side Hole	1MF-CTC-GT-HS-5/0.47H	0318441	-
008130	1 mL	✓	56	23	0.63	0.15	Side Hole	1MF-CTC-GT-HS-5/0.63H	0318441	-
008635	2.5 mL	✓	56	26	0.47	0.15	Side Hole	2.5MF-CTC-GT-HS-5/0.47H	0318451	-
008630	2.5 mL	✓	56	23	0.63	0.15	Side Hole	2.5MF-CTC-GT-HS-5/0.63H	0318451	-





Syringe Part No.	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.
Removable Needle										
000490	0.5 µL	-	50	26	0.47	0.175	Cone	0.5BNR-C/T-0.47C	033770	-
000492	0.5 µL	-	50	23	0.63	0.15	Cone	0.5BNR-C/T-0.63C	033772	-
001984	5 µL	-	50	23	0.63	0.11	Cone	5R-C/T-0.63C	036011	-
002965	10 µL	✓	51.5	23	0.63	0.11	Cone	10R-C/T-GT-5.15/0.63C	037013	0318121
002982	10 µL	-	50	26	0.47	0.11	Cone	10R-C/T-5/0.47C	037785	-
002984	10 µL	-	50	23	0.63	0.11	Cone	10R-C/T-0.63C	037787	-
002985	10 µL	✓	50	26	0.47	0.11	Cone	10R-C/T-GT-0.47C	037787	0318121
003988	25 µL	✓	50	26	0.47	0.24	Side Hole	25R-C/T-GT-0.47H	038749	031816
003989	25 µL	✓	50	22	0.72	0.375	Side Hole	25R-C/T-GT 0.72H	038420	031816
005333	100 µL	✓	50	26	0.47	0.2	Cone	100R-C/T-GT-0.47C	038732	031826
005337	100 µL	✓	50	23	0.63	0.24	Side Hole	100R-C/T-GT-0.63H	038736	031826

GC Autosampler Syringes

SPECIFICATIONS

Accuracy and Reproducibility
 $\pm 1\%$ (dispensed volume)
 $(\pm 2\%$ for 0.5 μL and 1 μL syringes)

Borosilicate Glass Barrel Outer Diameter (OD)
 6.5 mm

Scale Length
 0.5 μL and 5 μL = 27 mm, 50 μL = 54.1 mm

International Standards Traceability

GC Autosampler Syringes | PerkinElmer Instruments

Syringe Part No.	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.
AutoSystem and Clarus 500 Fixed Needle										
001953	5 μL	-	70	26	0.47	0.15	Cone	5F-PE-0.47	-	-
001954	5 μL	-	70	23	0.63	0.15	Cone	5F-PE-0.63	-	-
001955	5 μL	✓	70	26	0.47	0.15	Cone	5F-PE-GT-0.47	-	031807
001957	5 μL	✓	70	23	0.63	0.15	Cone	5F-PE-GT-0.63	-	031807
004670	50 μL	-	70	23	0.63	0.24	Cone	50F-PE-0.63	-	-



Syringe Part No.	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.
AutoSystem and Clarus 500 Removable Needle									
000475	0.5 μL	-	70	26	0.47	0.1	Beveled Cone	0.5BR-PE-0.47	033750
000478	0.5 μL	-	70	23	0.63	0.1	Cone	0.5BR-PE-0.63	033765



SPECIFICATIONS

Accuracy and Reproducibility
 $\pm 1\%$ (dispensed volume)
 $(\pm 2\%$ 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



GC Autosampler Syringes | Shimadzu Instruments

Syringe Part No.	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.
AOC 9 Removable Needle										
000435	0.5 μL	-	50	26	0.47	0.1	Cone	0.5BR-S(9)0.47	033732	-
002885	10 μL	-	50	26	0.47	0.11	Cone	10R-S(9)-0.47	037736	-

Syringe Part No.	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.
AOC 14, 17, 20 and 20i Fixed Needle										
001987	5 μL	-	42	26	0.47	0.11	Cone	5F-S-0.47	-	-
001988	5 μL	-	42	23	0.63	0.11	Cone	5F-S-0.63	-	-
004682	50 μL	-	42	23	0.63	0.24	Cone	50F-S-0.63	-	-
006682	250 μL	✓	42	23	0.63	0.24	Cone	250F-S-GT-0.63	-	031828



Syringe Part No.	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.
AOC 14, 17, 20 and 20i Removable Needle										
000440	0.5 μL	-	42	26	0.47	0.1	Cone	0.5BR-S-0.47	033738	-
000445	0.5 μL	-	42	23	0.63	0.1	Cone	0.5BR-S-0.63	033745	-
002897	10 μL	-	42	26	0.47	0.11	Cone	10R-S-0.47	037745	-
002898	10 μL	-	42	23	0.63	0.11	Cone	10R-S-0.63	037747	-
002902	10 μL	✓	42	23	0.63	0.11	Cone	10R-S-GT-0.63	037747	031798

For syringes to suit the Shimadzu AOC-5000 Autosampler refer to the CTC Autosampler syringes on page 45.

GC Autosampler Syringes



SPECIFICATIONS

Accuracy and Reproducibility
 $\pm 1\%$ (dispensed volume)
 $(\pm 2\%$ 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, 10 μL = 54.1 mm

International Standards Traceability

GC Autosampler Syringes | Thermo Scientific Instruments

Syringe Part No.	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 Part No.
											TriPlus	AS3000	AS2000	AS200/800	
Fixed Needle															
001981	5 μL	-	50	23	0.63	0.11	Cone	5F-C/T-5/0.63C	-	-	✓	-	-	-	-
002989	10 μL	-	80	23	0.63	0.11	Cone	10F-C/T-8/0.63C	-	-	✓	-	✓	-	-
002992	10 μL	-	80	26	0.47	0.11	Cone	10F-C/T-8/0.47C	-	-	✓	-	✓	-	-
002967	10 μL	-	50	25	0.50	0.125	Cone	10F-C/T-5/0.50C	-	-	✓	✓	✓	✓	-
002974	10 μL	-	80	22	0.72	0.175	Cone	10F-C/T-8/22C	-	-	✓	-	✓	-	-
002987	10 μL	✓	50	23	0.63	0.11	Cone	10F-C/T-GT-5/0.63C	-	031803	✓	-	✓	-	002972
002981	10 μL	-	50	23	0.63	0.11	Cone	10F-C/T-5/0.63C	-	-	✓	✓	✓	✓	002971
002980	10 μL	-	50	26	0.47	0.11	Cone	10F-C/T-5/0.47C	-	-	✓	✓	✓	✓	002986



Syringe Part No.	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 Part No.
											TriPlus	AS3000	AS2000	AS200/800	
Removable Needle															
000490	0.5 μL	-	50	26	0.47	0.155	Cone	0.5BNR-C/T-5/0.47C	033770	-	✓	✓	-	-	-
000492	0.5 μL	-	50	23	0.63	0.155	Cone	0.5BNR-C/T-5/0.63C	033772	-	✓	✓	-	-	-
002982	10 μL	-	50	26	0.47	0.11	Cone	10R-C/T-5/0.47C	037785	-	✓	✓	✓	-	-
002984	10 μL	-	50	23	0.63	0.11	Cone	10R-C/T-5/0.63C	037787	-	✓	✓	✓	✓	-
002993	10 μL	-	80	26	0.47	0.15	Cone	10R-C/T-8/0.47C	031535	-	✓	-	✓	-	-

SPECIFICATIONS

Accuracy and Reproducibility
± 1 % (dispensed volume)
(± 2 % for 0.5 µL and 1 µL syringes)

Borosilicate Glass Barrel Outer Diameter (OD)
8 mm

Scale Length
54.1 mm

International Standards Traceability



GC Autosampler Syringes | Unicam Instruments

Syringe Part No.	Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.
Removable Needle									
000581	1 µL	-	70	26	0.47	0.15	Cone	1BR-U-7/0.47C	034772*
000582	1 µL	-	70	23	0.63	0.15	Bevel	1BR-U-7BV	034770*
002684	10 µL	-	70	22	0.7	0.15	S/Bevel	10R-U-7T	037330

* These are needle and plunger kits

GC Autosampler Syringes



Syringe Brilliance

SPECIFICATIONS

Accuracy and Reproducibility
 $\pm 1\%$ (dispensed volume)
 $(\pm 2\%$ for 0.5 μL and 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 and 10 μL = 54.1 mm, 100 μL = 60 mm

International Standards Traceability

GC Autosampler Syringes | Varian Instruments

Syringe Part No.	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.
8035, 8100 and 8200 Series Fixed Needle										
002923	10 μL	✓	53	25	0.5	0.15	S/Hole	10F-GT-VA8X-2	-	031218
8400/8410, CP-9010/9050 Series Fixed Needle										
002950	10 μL	-	50	26	0.47	0.11	Bevel	10F-VA8400-5/0.47	-	-
002981	10 μL	-	50	23	0.63	0.11	Cone	10F-C/T-5/0.63C	-	-



Syringe Part No.	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.
8000 Series Removable Needle										
002926	10 μL	✓	50	25	0.5	0.15	Dome	10R-GT-VA80-2	037775	031218
8035, 8100 and 8200 Series Removable Needle										
000655	1 μL	-	51	26	0.47	0.15	Cone	1BR-VA8X	034720*	-
002924	10 μL	✓	53	25	0.5	0.15	S/Hole	10R-GT-VA8X-2	037777	031218
005921	100 μL	✓	53	25	0.5	0.2	S/Hole	100R-GT-VA8X	038745	031824
8400/8410, CP-9010/9050 Series Removable Needle										
002982	10 μL	-	50	26	0.47	0.11	Cone	10R-C/T-5/0.47C	037785	-

* This is a needle and plunger kit

