



Syringes and Accessories

## Beckman/Altex, Rheodyne, SSI Instruments and Valco Valves

### SPECIFICATIONS

Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	5 µL and 10 µL = 6.5 mm, 25 µL to 500 µL = 8 mm, 1 mL = 8.8 mm, 2.5 mL = 10.8 mm
Scale Length	60 mm (5 µL and 10 µL are 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 Plunger Part No.	6 Pack Syringe Part No.	Syringe Part No.
<b>Fixed Needle</b>										
5 µL	-	51	22	0.028"	0.17	LC	5F-LC	-	-	001301
10 µL Superflex™	-	51	22	0.028"	0.17	LC	10FX-LC	-	002330	002300
10 µL	-	51	22	0.028"	0.17	LC	10F-LC	-	002315	002301
10 µL	✓	51	23	0.028"	0.17	LC	10F-LC-GT	031810	-	002335
25 µL	-	51	22	0.028"	0.37	LC	25F-LC	-	-	003300
50 µL	-	51	22	0.028"	0.37	LC	50F-LC	-	-	004300
100 µL	-	51	22	0.028"	0.37	LC	100F-LC	-	-	005300
250 µL	-	51	22	0.028"	0.37	LC	250F-LC	-	-	006300
500 µL	-	51	22	0.028"	0.37	LC	500F-LC	-	-	007300



Syringe Volume	PTFE Tipped Plunger	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Syringe Code	Replacement Needle Part No.	Syringe Part No.
<b>Removable Needle with Repeating Adaptor</b>									
10 µL	-	51	22	0.028"	0.17	LC	10R-LC-RAX	037250	002345
25 µL	-	51	22	0.028"	0.37	LC	25R-LC-RAX	038250	003320
50 µL	-	51	22	0.028"	0.37	LC	50R-LC-RAX	038250	004320
100 µL	-	51	22	0.028"	0.37	LC	100R-LC-RAX	038250	005320
250 µL	-	51	22	0.028"	0.37	LC	250R-LC-RAX	038250	006320
500 µL	-	51	22	0.028"	0.37	LC	500R-LC-RAX	038250	007320

### Expert Tip:

The blunt LC needle tip design and 51 mm needle length are used to avoid damage to the LC valve.



### Expert Tip :

LC manual Syringes are a good choice for general liquid dispensing.





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.
<b>Removable Needle</b>										
5 µL	-	51	22	0.028"	0.17	LC	5R-LC	036250	-	001310
10 µL	-	51	22	0.028"	0.17	LC	10R-LC	037250	-	002310
10 µL	✓	51	22	0.028"	0.17	LC	10R-GT-LC	037250	031811	002313
10 µL	-	51	22	0.028"	0.17	LC	10RX-LC	037250	-	002350
25 µL	-	51	22	0.028"	0.37	LC	25R-LC	038250	-	003310
25 µL	✓	51	22	0.028"	0.37	LC	25R-GT-LC	038250	031815	003312
50 µL	-	51	22	0.028"	0.37	LC	50R-LC	038250	-	004310
50 µL	✓	51	22	0.028"	0.37	LC	50R-GT-LC	038250	031820	004312
100 µL	-	51	22	0.028"	0.37	LC	100R-LC	038250	-	005310
100 µL	✓	51	22	0.028"	0.37	LC	100R-GT-LC	038250	031825	005312
250 µL	-	51	22	0.028"	0.37	LC	250R-LC	038250	-	006310
250 µL	✓	51	22	0.028"	0.37	LC	250R-GT-LC	038250	031830	006312
500 µL	-	51	22	0.028"	0.37	LC	500R-LC	038250	-	007310
500 µL	✓	51	22	0.028"	0.37	LC	500R-GT-LC	038250	031835	007312
1 mL	✓	51	22	0.028"	0.37	LC	1MR-LC-GT	039250	031842	008105
2.5 mL	✓	51	22	0.028"	0.37	LC	2.5MDR-LC-GT	039250	031852	008505

**Expert Tip :**

Users of Valco injectors requiring 3/4" long needles, must fit a Valco VISF-2 adaptor.

**Expert Tip:**

When using the complete loop fill technique, the syringe capacity should be greater than twice the loop volume. The loop capacity sets the injection volume.

When using the partial loop technique, the injection volume should be no greater than half the loop capacity. The injection size sets the injection volume.



Syringe Brilliance





Syringes and Accessories

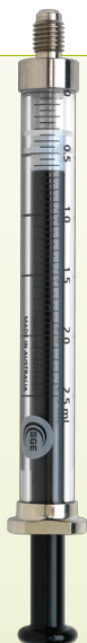


## Hitachi Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	8 mm
Scale Length	No scale (60 mm stroke)
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Front Thread	Syringe Code	Replacement Plunger Part No.	Syringe Part No.
500 µL	✓	M10 x 1.0	500C-HITACHI	031837	007660

## PerkinElmer Instruments



SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	50 µL to 500 µL = 8 mm, 1 mL = 9 mm, 2.5 mL = 11 mm
Scale Length	60 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Front Thread	Syringe Code	Replacement Plunger Part No.	Syringe Part No.
50 µL	✓	1/4-28 UNF	50D-CX-GT	0318221	004995
100 µL	✓	1/4-28 UNF	100D-CX-GT	0318271	005990
250 µL	✓	1/4-28 UNF	250D-CX-GT	031833	006995
500 µL	✓	1/4-28 UNF	500D-CX-GT	0318381	007995
1 mL	✓	1/4-28 UNF	1MD-C-GT	0318441	008185
2.5 mL	✓	1/4-28 UNF	2.5MD-C-GT	031854	008687

# CTC Analytics

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	10 µL to 250 µL = 6.5mm (except P/N 003715 and P/N 006720 = 8 mm) 500 µL = 8 mm, 1 mL = 7.6 mm, 2.5 mL = 9.7 mm, 5 mL = 14 mm
Scale Length	10 µL = 54.1 mm, 25 µL to 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 Needle Part No.	Replacement Plunger Part No.	Syringe Part No.
<b>Fixed Needle</b>										
10 µL	-	51	22	0.72	0.17	LC	10F-CTC-LC	-	-	002710
10 µL	✓	51	22	0.72	0.17	LC	10F-CTC-GT-LC	-	031803	002715
25 µL	✓	51	22	0.72	0.17	LC	25F-CTC-GT-LC	-	0318922	003715*
25 µL	-	51	22	0.72	0.37	LC	25F-C/T-LC	-	-	003984
50 µL	✓	51	22	0.72	0.37	LC	50F-C/T-GT-LC	-	031821	004810
100 µL	✓	51	22	0.72	0.17	LC	100F-CTC-GT-LC	-	0318261	005715
100 µL	✓	51	22	0.72	0.4	LC	100F-CTC-GT-LC (0.4)	-	0318261	005720
250 µL	✓	51	22	0.72	0.4	LC	250F-CTC-GT-LC (0.4)	-	0318926	006720*
500 µL	✓	51	22	0.72	0.4	LC	500F-CTC-GT-LC (0.4)	-	0318928	007720

\* Please note barrel OD is 8mm.



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.
<b>Removable Needle</b>										
25 µL	✓	51	22	0.72	0.37	LC	25R-C/T-GT-LC	038250	031816	003985
50 µL	✓	51	22	0.72	0.37	LC	50R-C/T-GT-LC	038250	0318212	004830
100 µL	✓	51	22	0.72	0.37	LC	100R-C/T-GT-LC	038250	031826	005330
250 µL	✓	51	22	0.72	0.37	LC	250R-C/T-GT-LC	038250	031831	006330
1 mL	✓	51	22	0.72	0.4	LC	1MR-CTC-GT-LC(0.4)	039180	0318444	008120
2.5 mL	✓	51	22	0.72	0.4	LC	2.5MR-CTC-GT-LC(0.4)	039182	0318454	008620
5 mL	✓	51	22	0.72	0.4	LC	5MR-CTC-GT-LC(0.4)	0315235	031856	008820

## Syringes and Accessories



## CTC PAL-XT and XCHANGE®

For more information on XCHANGE® on CTC PAL-XT contact CTC Analytics. [www.ctc.ch](http://www.ctc.ch)



### XCHANGE® CTC PAL-XT LC 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.
<b>Removable Needle</b>									
10 µL	-	56	22	0.028*	0.17	LC	037221	-	2926230
25 µL	✓	56	22	0.028*	0.17	LC	038259	2930380	2928330
50 µL	✓	56	22	0.028*	0.17	LC	038259	2930480	2928430
100 µL	✓	56	22	0.028*	0.17	LC	038259	2930580	2928530
250 µL	✓	56	22	0.028*	0.375	LC	038255	2930680	2928630
500 µL	✓	56	22	0.028*	0.375	LC	038255	2930780	2928730
1 mL	✓	56	22	0.028*	0.375	LC	039256	2930880	2928830
2.5 mL	✓	56	22	0.028*	0.375	LC	039556	2930980	2928930
5 mL	✓	56	22	0.028*	0.375	LC	039556	2930985	2928932



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Syringes | LC Autosampler Syringes





## Spark Holland Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	250 µL = 8 mm, 1 mL = 9 mm
Scale Length	60 mm
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Front Thread	Syringe Code	Replacement Plunger Part No.	Syringe Part No.
250 µL	✓	1/4-28 UNF	250D-SPARK-GT	0318348	006683
1 mL	✓	1/4-28 UNF	1MD-SPARK-GT	0318448	008183

## Thermo Scientific Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	250 µL and 500 µL = 8 mm, 1 mL = 9 mm, 2.5 mL = 11 mm, 5 mL = 14 mm
Scale Length	No scale (60mm stroke)
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Front Thread	Syringe Code	Replacement Plunger Part No.	Syringe Part No.
<b>SP8780/8875/8880</b>					
500 µL	✓	1/4-28 UNF	500C-THERMOSPEC	0318381	007680
2.5 mL	✓	1/4-28 UNF	2.5MC-THERMOSPEC	031853	008660
<b>AS100/300 and AS1000/3000/3500</b>					
250 µL	✓	1/4-28 UNF	250C-THERMOSPEC	031833	006660
500 µL	✓	1/4-28 UNF	500C-THERMOSPEC	0318381	007680
1 mL	✓	1/4-28 UNF	1MC-THERMOSPEC	031844	008180
2.5 mL	✓	1/4-28 UNF	2.5MC-THERMOSPEC	031853	008660
5 mL	✓	1/4-28 UNF	5MC-THERMOSPEC	031856	008780

## Waters Instruments

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	8 mm
Scale Length	No scale (60 mm stroke)
International Standards Traceability	

Syringe Volume	PTFE Tipped Plunger	Front Thread	Syringe Code	Replacement Plunger Part No.	Syringe Part No.
25 µL	✓	1/4-28 UNF	25D-WISP	031819	003990
250 µL	✓	1/4-28 UNF	250D-WISP	031834	006690

### WISP Dipper Needle

Needle Length (mm)	Needle OD (mm)	Needle ID (mm)	Needle Tip	Description	Part No.
121	1.587	0.5	Side Hole Cone	N-121/1.59(0.5)SH	038265



Syringes and Accessories

## LC Pump High Capacity Syringes

High capacity Luer Lock syringes are ideal for loop fill injection techniques when used in conjunction with an LC tipped Luer Lock needle. They are also perfect for flushing sample loops after injection, and priming the LC pump.

SPECIFICATIONS	
Accuracy and Reproducibility	± 1 % (dispensed volume)
Borosilicate Glass Barrel Outer Diameter (OD)	1 mL = 9 mm, 2.5 mL = 11 mm, 5 mL = 14 mm, 10 mL = 18 mm, 25 mL = 27 mm
Scale Length	60 mm
International Standards Traceability	



Syringe Volume	PTFE Tipped Plunger	Termination	Syringe Code	Replacement Plunger Part No.	Syringe Part No.
1 mL	✓	Fixed Luer Lock	1MDF-LL-GT	0318441	008025
2.5 mL	✓	Fixed Luer Lock	2.5MDF-LL-GT	031852	008425
5 mL	✓	Fixed Luer Lock	5MDF-LL-GT	0318562	008762
10 mL	✓	Fixed Luer Lock	10MDF-LL-GT	031864	008962
25 mL	✓	Fixed Luer Lock	25MDF-LL-GT	031874	009463



Description	Pack Size	Part No.
Luer Lock Valve Adaptor	2	200010



### Expert Tip:

For complete loop fill, the syringe capacity should be greater than twice the loop volume. The loop capacity sets the injection volume. For partial loop fill, the injection volume should be no greater than half the loop capacity. The injection size sets the injection volume.

