



## Syringes for CTC Analytics Instruments

SGE Products are Distributed by:

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SGE's involvement in all areas of Chromatography provides a unique understanding of customers' requirements for optimum syringe design.

With over 40 years of syringe manufacturing experience, you can be sure that choosing SGE syringes will guarantee the results you need.

### A broad range of syringes for CTC Analytics Instrument users with:

- Syringe capacities from 0.5  $\mu$ L to 5 mL.
- Fixed and removable needle versions.
- Several needle tip styles to suit your application requirements.

### CTC instrument syringes feature:

- High temperature syringes for headspace application with temperatures up to 150 °C.
- PTFE plunger seal option for smooth, leak free operation - suitable for both liquid and gas samples, plungers are replaceable.
- Specifications of the syringes are matched to CTC holders to ensure proper fit and reliable functioning.

### Syringes for CTC Analytics HTS, HTC and LC PAL.

Needle Gauge	Needle OD (mm)	Needle Length (mm)	Needle Tip	Barrel OD (mm)	PTFE Plunger Seal	Description	Part Number	Pack Size	Replacement Needle	Replacement Plunger
<b>10 <math>\mu</math>L Fixed Needle</b>										
22	0.72	51	LC	6.5	-	10F-CTC-LC	002710	1	-	-
22	0.72	51	LC	6.5	✓	10F-CTC-GT-LC	002715	1	-	031803
<b>25 <math>\mu</math>L Fixed Needle</b>										
22	0.72	51	LC	7.6	✓	25F-CTC-GT-LC	003715	1	-	0318921
22	0.72	51	LC	6.5	-	25F-C/T-LC	003984	1	-	-
<b>25 <math>\mu</math>L Removable Needle</b>										
22	0.72	51	LC	6.5	✓	25R-C/T-GT-LC	003985	1	038250	031816
<b>50 <math>\mu</math>L Fixed Needle</b>										
22	0.72	51	LC	6.5	✓	50F-C/T-GT-LC	004810	1	-	031821
<b>100 <math>\mu</math>L Fixed Needle</b>										
22	0.72	51	LC	6.5	✓	100F-CTC-GT-LC	005715	1	-	0318261
22	0.72	51	LC	6.5	✓	100F-CTC-GT-LC (0.4)*	005720	1	-	0318924
<b>100 <math>\mu</math>L Removable Needle</b>										
22	0.72	51	LC	6.5	✓	100R-C/T-GT-LC	005330	1	038250	031826
<b>250 <math>\mu</math>L Fixed Needle</b>										
22	0.72	51	LC	8	✓	250F-CTC-GT-LC (0.4)*	006720	1	-	0318926
<b>250 <math>\mu</math>L Removable Needle</b>										
22	0.72	51	LC	6.5	✓	250R-C/T-GT-LC	006330	1	038250	031831
<b>500 <math>\mu</math>L Fixed Needle</b>										
22	0.72	51	LC	8	✓	500F-CTC-GT-LC (0.4)*	007720	1	-	0318928
<b>1 mL Removable Needle</b>										
22	0.72	51	LC	7.6	✓	1MR-CTC-GT-LC(0.41)*	008120	1	039180	0318444
<b>2.5 mL Removable Needle</b>										
22	0.72	51	LC	10.7	✓	2.5MR-CTC-GT-LC(0.41)*	008620	1	039182	0318454
<b>5 mL Removable Needle</b>										
22	0.72	51	LC	13.7	✓	5MR-CTC-GT-LC(0.41)*	008820	1	031525	0318564

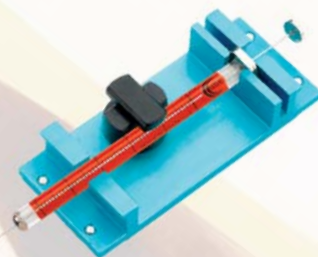
\*indicates wide bore needle

## Syringes for CTC Analytics CombiPAL and GC PAL.

Needle Gauge	Needle OD (mm)	Needle Length (mm)	Needle Tip	Barrel OD (mm)	PTFE Plunger Seal	Description	Part Number	Pack Size	Replacement Needle	Replacement Plunger
<b>0.5 µL Removable Needle</b>										
26	0.47	50	Cone	6.5	-	0.5BNR-C/T-0.47C	000490	1	033770	-
23	0.63	50	Cone	6.5	-	0.5BNR-C/T-0.63C	000492	1	033772	-
<b>5 µL Fixed Needle</b>										
26	0.47	50	Cone	6.5	-	5F-CTC-5/0.47C	001700	1	-	-
23	0.63	50	Cone	6.5	-	5F-C/T-5/0.63C	001981	1	-	-
<b>5 µL Removable Needle</b>										
23	0.63	50	Cone	6.5	-	5R-C/T-0.63C	001984	1	036011	-
<b>10 µL Fixed Needle</b>										
26	0.47	50	Cone	6.5	✓	10F-C/T-GT-5/0.47C	002977	1	-	031803
26	0.47	50	Cone	6.5	✓	SK-10F-C/T-GT-5/0.47C	002976	6	-	031803
26	0.47	50	Cone	6.5	-	10F-CTC-5/0.47C	002700	1	-	-
26	0.47	50	Bevel	6.5	-	10F-CTC-5/0.47BV	002705	1	-	-
23	0.63	50	Cone	6.5	-	10F-C/T-5/0.63C	002981	1	-	-
23	0.63	50	Cone	6.5	-	SK-10F-C/T-5/0.63C	002971	6	-	-
23	0.63	50	Cone	6.5	✓	10F-C/T-GT-5/0.63C	002987	1	-	031803
23	0.63	50	Cone	6.5	✓	SK-10F-C/T-GT-5/0.63C	002972	6	-	031803
22	0.72	50	Side-Hole	6.5	✓	10F-CTC-GT-5/0.72H	002983	1	-	0318921
<b>10 µL Removable Needle</b>										
26	0.47	50	Cone	6.5	-	10R-C/T-5/0.47C	002982	1	037785	-
26	0.47	50	Cone	6.5	✓	10R-C/T-GT-0.47C	002985	1	037785	0318121
23	0.63	50	Cone	6.5	-	10R-C/T-0.63C	002984	1	037787	-
23	0.63	51.5	Cone	6.5	✓	10R-C/T-GT-5.15/0.63C	002965	1	037013	0318121
<b>25 µL Fixed Needle</b>										
26	0.47	50	Cone	8	✓	25F-CTC-GT-5/0.47C	003700	1	-	0318921
26	0.47	50	Cone	6.5	-	25F-C/T-0.47C	003980	1	-	-
23	0.63	50	Cone	6.5	✓	25F-C/T-GT-0.63C	003987	1	-	031817
<b>25 µL Removable Needle</b>										
26	0.47	50	Side-Hole	6.5	✓	25R-C/T-GT-0.47H	003988	1	038749	031816
22	0.72	50	Side-Hole	6.5	✓	25R-C/T-GT 0.72H	003989	1	038420	031816
<b>100 µL Fixed Needle</b>										
26	0.47	50	Cone	6.5	✓	100F-CTC-GT-5/0.47C	005700	1	-	0318924
23	0.63	50	Cone	6.5	✓	100F-C/T-GT-0.63C	005335	1	-	0318261
<b>100 µL Removable Needle</b>										
26	0.47	50	Cone	6.5	✓	100R-C/T-GT-0.47C	005333	1	038732	031826
23	0.63	50	Side-Hole	6.5	✓	100R-C/T-GT-0.63H	005337	1	038736	031826
<b>250 µL Fixed Needle</b>										
26	0.47	50	Cone	7.6	✓	250F-CTC-GT-5/0.47C	006700	1	-	0318926
<b>500 µL Fixed Needle</b>										
26	0.47	50	Cone	7.6	✓	500F-CTC-GT-5/0.47C	007700	1	-	0318928
<b>1 mL Fixed Needle Headspace</b>										
26	0.47	56	Side-Hole	7.6	✓	1MF-CTC-GT-HS-5/0.47H	008135	1	-	0318441
23	0.63	56	Side-Hole	7.6	✓	1MF-CTC-GT-HS-5/0.63H	008130	1	-	0318441
<b>2.5 mL Fixed Needle Headspace</b>										
26	0.47	56	Side-Hole	9.7	✓	2.5MF-CTC-GT-HS-5/0.47H	008635	1	-	0318451
23	0.63	56	Side-Hole	9.7	✓	2.5MF-CTC-GT-HS-5/0.63H	008630	1	-	0318451

### 'Performance as Standard' at SGE:

- Borosilicate glass barrel for strength and inertness.
- Stainless steel needles for inertness, strength and corrosion resistance.
- Backing behind the scale aids quick and accurate reading of the syringe scale.
- Metal back flange provides stability and resists fracture.
- Metal needle cap on syringe barrel protects and improves syringe lifetime.
- Syringes are individually tested for quality ensuring reliability and conformance.
- Unique packaging design eliminates possible contamination in the syringe.



### Color Coding for SGE CTC Syringes.

Color	Syringe Volumes	
Yellow		1 mL
Grey	250 µL	2.5 mL
Lime	5 µL	5 mL
Dark Orange	10 µL	

Color	Syringe Volumes	
Green		25 µL
Purple		50 µL
Aqua		100 µL
Light Orange	500 nL (0.5 µL)	500 µL

## SGE Replacement Part Numbers for Hamilton Syringes

The following table is a replacement guide that can be used to determine the SGE equivalent syringe to a Hamilton part number.

Hamilton P/N	SGE Description	SGE P/N
202668	100R-C/T-GT-LC	005330
203043	25F-CTC-GT-5/0.47C	003700
203072	10F-CTC-5/0.47BV	002705
203073	10F-CTC-LC	002710
203074	25F-C/T-0.47C	003980
203075	25F-CTC-GT-LC	003715
203076	100F-CTC-GT-5/0.47C	005700
203077	100F-CTC-GT-LC	005715
203078	250F-CTC-GT-5/0.47C	006700
203079	250F-CTC-GT-LC (0.4)	006720
203080	500F-CTC-GT-5/0.47C	007700
203081	2.5MF-CTC-GT-HS-0.47H	008635
203082	1MF-CTC-GT-HS-0.63H	008130
203083	2.5MR-CTC-GT-LC(0.41)	008620
203084	2.5MF-CTC-GT-HS-0.63H	008630
203085	5MR-CTC-GT-LC(0.41)	008820
203141	1MF-CTC-GT-HS-0.47H	008135
203181	2.5MF-CTC-GT-HS-5/0.47H	008635
203189	5F-CTC-5/0.47C	001700
203194	10F-CTC-GT-LC	002715
203205	10F-CTC-5/0.47C	002700
203235	100F-CTC-GT-LC (0.4)	005720
203274	25F-C/T-LC	003984
203349	500F-CTC-GT-LC (0.4)	007720
203361	10F-C/T-5/0.63C	002981

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