

SGE Syringes | General purpose

Product specifications and part numbers

0.5 μ L to 5 μ L NanoVolume syringes

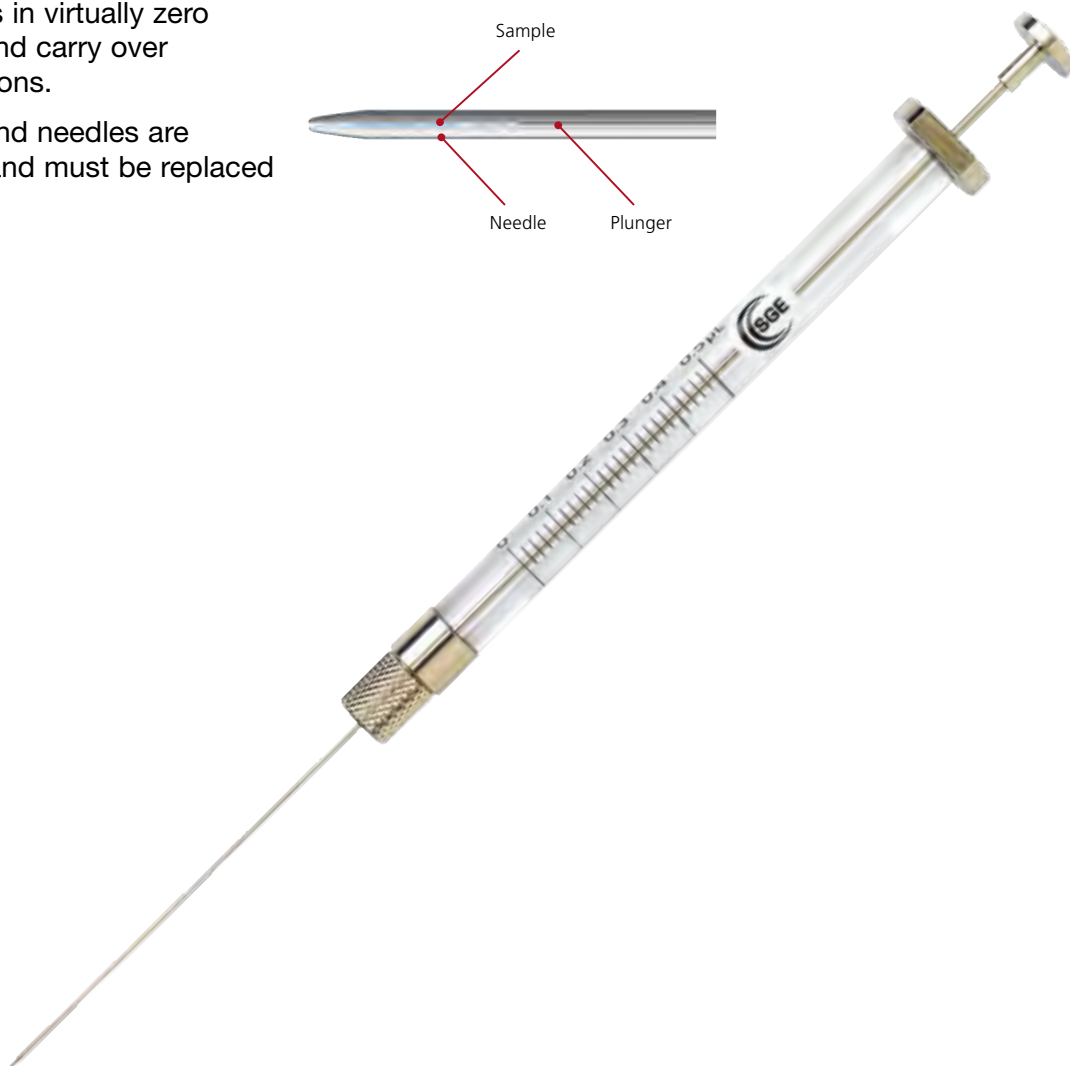
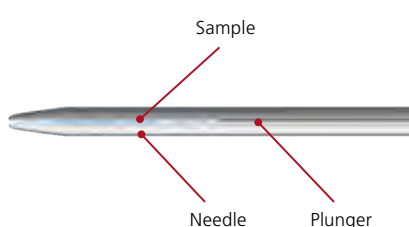
Specifications			
Accuracy and reproducibility	$\pm 2\%$ (dispensed volume)	Scale length	0.5 μ L and 1 μ L = 54.1 mm 5 μ L = 48.7 mm
Borosilicate glass barrel outer diameter (OD)	0.5 μ L to 5 μ L = 8 mm (except part numbers 000300, 000301, 000303, 000303, 000350, 000353 = 6.5 mm)	International standards traceability	✓

With the ability to inject down to 50 nL with high precision and accuracy, SGE NanoVolume syringes are perfect for NanoVolume capillary chromatography injection as well as making accurate standards that require small volumes.

The sample is only drawn into the needle, not the syringe barrel. When the plunger is depressed, the sample is completely dispensed by the NanoVolume plunger that extends to the tip of the needle.

Displacing the full sample during injection results in virtually zero dead volume and carry over between injections.

The plungers and needles are matched sets and must be replaced as a set.



0.5 µL to 5 µL NanoVolume syringes

Part number	Part description and detail	Replacement needle and plunger kit
NanoVolume		
000300	0.5 µL NanoVolume syringe with 5 cm 0.63 mm OD cone tipped needle	033010
000301	0.5 µL NanoVolume syringe with 5 cm 0.63 mm OD bevel tipped needle	033011
000303	0.5 µL NanoVolume syringe with 5 cm 0.47 mm OD cone tipped needle	033012
000310	0.5 µL NanoVolume syringe with 7 cm 0.63 mm OD cone tipped needle	033057
000311	0.5 µL NanoVolume syringe with 7 cm 0.63 mm OD bevel tipped needle	033060
000350	0.5 µL NanoVolume syringe with 5 cm 0.63 mm OD cone tipped needle and repeating adaptor	033010
000353	0.5 µL NanoVolume syringe with 5 cm 0.47 mm OD cone tipped needle and repeating adaptor	033012
000355	0.5 µL NanoVolume syringe with 7 cm 0.63 mm OD cone tipped needle and repeating adaptor	033057
000376	0.5 µL NanoVolume on-column syringe with 7 cm 0.47 mm OD needle	033630
000380	0.5 µL NanoVolume on-column syringe with 7.5 cm 0.23 mm OD needle	033620
000500	1.0 µL NanoVolume syringe with 5 cm 0.63 mm OD cone tipped needle	034055
000501	1.0 µL NanoVolume syringe with 5 cm 0.63 mm OD bevel tipped needle	034056
000505	1.0 µL NanoVolume syringe with 7 cm 0.63 mm OD cone tipped needle	034057
000506	1.0 µL NanoVolume syringe with 7 cm 0.63 mm OD bevel tipped needle	034060
000510	1.0 µL NanoVolume syringe with 11.5 cm 0.63 mm OD bevel tipped needle	034059
000550	1.0 µL NanoVolume syringe with 5 cm 0.63 mm OD cone tipped needle and repeating adaptor	034055
000553	1.0 µL NanoVolume syringe with 7 cm 0.63 mm OD cone tipped needle and repeating adaptor	034057
000570	1.0 µL NanoVolume syringe with 7 cm 0.47 mm OD cone tipped needle	034610
000800	5.0 µL NanoVolume syringe with 5 cm 0.63 mm OD cone tipped needle	035055
000801	5.0 µL NanoVolume syringe with 5 cm 0.63 mm OD bevel tipped needle	035056
000802	5.0 µL NanoVolume syringe with 7 cm 0.63 mm OD cone tipped needle	035057
000803	5.0 µL NanoVolume syringe with 7 cm 0.63 mm OD bevel tipped needle	035058
000804	5.0 µL NanoVolume syringe with 11.5 cm 0.63 mm OD cone tipped needle	-
000850	5.0 µL NanoVolume syringe with 5 cm 0.63 mm OD cone tipped needle and repeating adaptor	035055
000852	5.0 µL NanoVolume syringe with 7 cm 0.63 mm OD cone tipped needle and repeating adaptor	035057

Expert tips

To eliminate carryover between samples, flush the syringe with solvent 5-20 times, remembering to discard the first 2-3 washes.

When replacing the plunger and needle follow the instructions included in the kit – the front cover nut must be loosened before removing the plunger.