

# MICROVOLUME

## FULL DISPLACEMENT SYRINGES

### INTRODUCTION

With the ability to inject down to a volume of 0.01 $\mu$ L with high precision and accuracy, SGE microvolume (plunger-in-needle) syringes are perfect for capillary chromatography injection. Using microvolume syringes for split injection results increased reproducibility and decreased discrimination by reducing the

injection volume. Microvolume syringes are also ideal for small volume on-column injection. The capacity for these syringes is so small that the entire sample is contained within the needle portion of the syringe. The plunger extends to the tip of the needle displacing the full sample during injection. A sheath and guide tube protect

the plunger wire during the injection stroke. A seal between the plunger and needle permits high pressure injection.

A feature of these syringes is an adjustable plunger length, enabling easy field removal and refitting of the needle and plunger for cleaning or replacement.



### ORDERING INFORMATION

Volume	Length (mm)	Gauge	OD (mm)	Tip Style	Syringe Codes	Part No.
<b>6.5mm OD barrel</b>						
0.5 $\mu$ L	50	23	0.63	Cone	0.5BNR-5	000300
Spare Needle and Plunger Kit						033010
	50	23	0.63	Bevel	0.5BNR-5BV	000301
Spare Needle and Plunger Kit						033011
<b>8.0mm OD barrel</b>						
0.5 $\mu$ L	70	23	0.63	Cone	0.5BR-7	000310
Spare Needle and Plunger Kit						033057
	70	23	0.63	Bevel	0.5BR-7BV	000311
Spare Needle and Plunger Kit						033060
1 $\mu$ L	50	23	0.63	Cone	1BR-5	000500
Spare Needle and Plunger Kit						034055
	50	23	0.63	Bevel	1BR-5BV	000501
Spare Needle and Plunger Kit						034056
	70	23	0.63	Cone	1BR-7	000505
Spare Needle and Plunger Kit						034057
	70	23	0.63	Bevel	1BR-7BV	000506
Spare Needle and Plunger Kit						034060
	70	26	0.47	Cone	1BR-7/0.47	000570
Spare Needle and Plunger Kit						034610
5 $\mu$ L	70	23	0.63	Cone	5BR-7	000802
Spare Needle and Plunger Kit						035057

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Volume	Length (mm)	Gauge	OD (mm)	Tip Style	Syringe Codes	Part No.
<b>0.5µL with repeating adaptor - 8.0mm OD barrel</b>						
	70	23	0.63	Cone	0.5BR-7-RA8	000355
Spare Needle and Plunger Kit						033057
<b>1µL with repeating adaptor - 8.0mm OD barrel</b>						
	50	23	0.63	Cone	1BR-5-RA8	000550
Spare Needle and Plunger Kit						034055
	70	23	0.63	Cone	1BR-7-RA8	000553
Spare Needle and Plunger Kit						034057

Repeating adaptors are available for field fitting to these syringes. Fitting of a repeated adaptor is recommended for applications requiring the highest user

reproducibility. Order P/N 031923 for 6.5mm OD barrel syringes and P/N 031927 for 8mm OD barrel syringes.

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