

Autosampler Syringes



064A-1011

064A-2031

Ordering Information

Volume, Code, Gauge, Length, Point Style	QTY	OEM No.	PerkinElmer No.	Part No.
Hamilton Syringes				
5µL, ASN, 23s, 70mm, #3	1	88035	N6101390	24-88035
5µL, ASN, 26s, 70mm, #3	1	88040	N6101380	24-88040
SGE Syringes				
0.5µL, R, 23s, 70mm, Cone	1	000478	N6101252	21-000478
0.5µL, R, 26s, 70mm, Cone	1	000475		21-000475
5µL, F, 23s, 70mm, Cone	1	001954	N6101390	21-001954
5µL, F, 23s, GT, 70mm, Cone	1	001957		21-001957
5µL, F, 26s, 70mm, Cone	1	001953	N6101380	21-001953
5µL, F, 26s, GT, 70mm, Cone	1	001955		21-001955
50µL, F, 23s, 70mm, Cone	1	004670	N6101760	21-004670
Needles & Plunger 0.5µL, 23s, 70mm, Cone	1	037765	N6101469	21-037765
Needles & Plunger 0.5µL, 26s, 70mm, Cone	1	037750		21-037750

Needle Termination Codes

Hamilton

ASN Autosampler
Cemented Needle

SGE

F Fixed Needle
R Removable Needle
GT Gas-Tight



23s (0.64mm)



26s (0.47mm)



Point Style #3
Blunt needle tip



Point Style Cone
Cone tip

PerkinElmer Supplies/Parts

Septum Nut

Septum nut provides consistent septum tightness, fewer bent needles, and easy leak detection. The nut contains a needle guide, ensuring that the needle consistently penetrates the septum in the same place, prolonging septum life. The guide also prevents the needle from striking the edge of the column or bending during insertion.



Septum Nuts for PerkinElmer GC

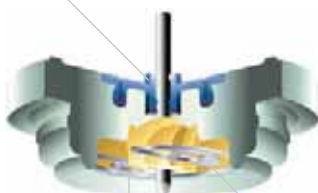
- Ensure a leak-tight injection port, increase septum lifetime, and decrease maintenance requirements.
- Needle guide allows easy penetration and prevents septum coring.
- Manual injection septum nut allows use of 23-gauge needles for on-column injections.
- Made of high-quality stainless steel.

Ordering Information

Description	QTY	PerkinElmer No.	Part No.
Septum Nut for PerkinElmer			
Septum Nut (for 23-Gauge Needles)	1	N6100153	064B-0011

Merlin Microseal™ Kit

O-ring seals needle during injection



Duckbill opens easily, seals reliably

Spring

The Merlin Microseal™ Septum is a long-life replacement for the standard septum on the Capillary Inlet System or the Purged-Packed Inlet System of PerkinElmer GC (not useable with the non-purged packed column inlet system). The Merlin Microseal™ is a patented dual-seal inlet assembly featuring an O-ring and “duckbill” seal. Because the syringe needle does not pierce any septum material, seal lifetime is typically greater than one year with normal GC use. Complete Kit includes the nut, two Microseal™ septa, and a PTFE liner.

Microseal™ Septa has a lifetime of more than 2,000 injections depending on samples and operating condition. The Microseal™ Septum last longest when a syringe needle with a truncated cone shaped tip is used. It may also be used with the standard 0.63mm diameter (0.026”, 23-gauge) needle. A sharp pointed or beveled syringe needle should not be used as it will cut or pierce the duckbill seal. Pressure ranges from 0 to 100 psi and injection port temperature up to 325 °C. Easy installation on PerkinElmer GCs.



Ordering Information

Description	QTY	PerkinElmer No.	Part No.
Microseal Septa Kit, PerinElmer Auto SYS™ XL			
Standard kit (nut and 2 septa)	1	N9303344	064B-0021
Replacement septum	1	N9303345	064B-0031

Septa



064C-0018



064C-0028



064C-0038

Premium CenterGuide™ Septa

Premium CenterGuide™ septa are premium silicone rubber precision molded for a more accurate fit in the injection port than inferior stamped septa. A small recess, the “CenterGuide”, is added in the center of the disk, as well as a small indentation around the outside diameter. The CenterGuide focuses the needle to the same point for each injection providing easy penetration, reduced needle bending and minimizing coring. The proprietary cleaning process after molding is used to provide lowest bleed. Premium septa offer the longest average injection lifetime at the highest injection port temperatures. Septa are carefully processed, then packaged in glass vials.

- **BTO® - Bleed and Temperature Optimized** - For highest temperature use, with lowest bleed and outstanding injection life. Ideal for use with “Mass Spec” capillary columns.
- **Marathon™** - For long injection life, minimal coring. Soft, 45 durometer, easy on autosampler
- **Advanced Green 3™** - Long life, plasma coating eliminates sticking in the injection port

General Purpose Septa

General Purpose Septa are made from an enhanced injection-molded silicone rubber material. The septa material is specified to withstand over 200 automatic injections.

- **Ultresep® R** septa are good low-bleed with a temperature setpoint of 350°C.
- **Economy Blue** Septa are designed for non-demanding, routine applications. Maximum temperature setpoint is 250°C.

Selection Guide	
Perkin Elmer	Diameter
Sigma series	11mm
8000 series	11mm
AutoSytem	11mm
AutoSystem XL	11mm
Clarus	11mm

Specification						
Septa	Temp Max	Color	Injections	Durometer*	Low Bleed	
BTO	400°C	Red	>300	50-55	Excellent	
Marathon	350°C	Brick red	>400	45-50	Good	
Advanced Green 3	350°C	Green	>350	55-60	Very good	
Ultresep R	350°C	Red	>200	45-55	Good	
Economy Blue	250°C	Blue	>200	40-45	Good	

* Durometer : Hardness of the silicone material. The lower the number, the softer the material.

Ordering Information			
Description	QTY	PerkinElmer No.	Part No.
Perkin Elmer Sigma/8000/AutoSytem/Clarus			
BTO 11mm(7/16")	50	N9302972	064C-0018
Marathon 11mm(7/16")	50		064C-0028
Advanced Green 11mm(7/16")	50	N6621028	064C-0038
Ultresep R 11mm(7/16")	50		064C-0048
Economy Blue 11mm(7/16")	50	54019985	064C-0058



Liners



Vertical® GC Liners

The Vertical® GC liners are made of borosilicate glass and designed to obtain the maximum performance to ensure no loss of sample and accurate quantitation of thermally labile or reactive compounds.

- Wide selection ranges
- Fit standard instrument manufacturer's inlets
- High temperature deactivation to ensure inertness

SGE® FocusLiner™ GC Liners

The SGE® FocusLiner™ overcomes the quartz wool shifting problem. The quartz wool is held in the correct position by means of two tapered sections in the liner. The tapered sections are located to ensure that the needle tip penetrates the secured quartz wool plug wiping any residue liquid sample from the needle tip while providing sufficient surface area for volatilisation. With the SGE FocusLiner™, a good RSD is easily achievable showing the effectiveness of the secured quartz wool.

Liner O-Rings

- Viton O-rings can be used to 200°C with low bleed and good durability.
- Graphite O-rings can be used to 450°C with non bleed and superb durability.
- Silicone O-rings can be used to 230°C with medium bleed and moderate durability.

Ordering Information						
Description, ID, OD and Length	Diagram	Application	QTY	PerkinElmer No.	Part No.	
Vertical® GC Liners						
Split, Baffle 3.5mmID, 5mmOD, 100mmLength		general analytes	5	N6502008	064G-0015	
			25		064G-0017	
Splitless, Taper 2mmID, 5mmOD, 100mmLength		trace analytes	5		064G-0025	
		< 2µL	25		064G-0027	
Split, Baffle, w/Wool 4mmID, 6.2mmOD, 92.1mmLength		general analytes	5		064G-0035	
			25		064G-0037	
Split, Cup Splitter 4mmID, 6.2mmOD, 92.1mmLength		high and low MW compounds	5		064G-0045	
			25		064G-0047	
Splitless, 2mmID, 6.2mmOD, 92.1mmLength		trace analytes	5	N6121021	064G-0055	
		< 2µL	25		064G-0057	
SGE® FocusLiner™ GC Liners						
Split, w/Wool 4mmID, 6.2mmOD, 92.1mmLength		trace analytes	5	N6121020	064G-0065	
		dirty samples	25		064G-0067	
Splitless, Taper, w/Wool 4mmID, 6.2mmOD, 92.1mmLength		trace analytes	5	N6502003	064G-0075	
		> 2µL	25		064G-0077	
Split/Splitless, PSS, w/Wool 2mmID, 4.0mmOD, 86.2mmLength		general analytes	5	N6121004	064G-0085	
			25		064G-0087	
Liner O-Rings						
Viton O-rings for Split (6.3mmOD) or Splitless (6.5mmOD) Liners			10	N6101751	064G-0096	
Graphite O-rings for Split (6.3mmOD) Liners			10	N6101747	064G-0106	
Graphite O-rings for Splitless (6.5mmOD) Liners			10	N6101374	064G-0116	

Ferrules

Ferrule Properties

Material	Temp Limit	Advantages	Limitations
Graphite (100%)	450°C	<ul style="list-style-type: none"> Recommended for high temperature and cool on-column application 	<ul style="list-style-type: none"> Not for MS Easily deformed Possible system contamination
Vespel/Graphite (85%/15%)	350°C	<ul style="list-style-type: none"> Excellent sealing Recommended for MS 	<ul style="list-style-type: none"> Must re-tighten frequently Flows at elevated temperature
Vespel (100%)	280°C	<ul style="list-style-type: none"> Durable, Long lifetime Leak-tight 	<ul style="list-style-type: none"> For isothermal analysis only Must re-tighten frequently



Graphite ferrules



2-hole ferrules



Straight ferrules



Vespel ferrules

Ordering Information

Description	QTY	PerkinElmer No.	Part No.
Graphite Ferrules			
1/16" to 0.4mm, short, for 0.25mmID columns	10		064M-1016
1/16" to 0.5mm, short, for 0.32mmID columns	10	09903700	064M-1026
1/16" to 0.8mm, short, for 0.53mmID columns	10	09920141	064M-1036
1/16" to 1.0mm, short, for 0.65mmID columns	10		064M-1046
1/16" 2-hole, 0.5mm, for 0.32mmID columns	10	N9306001	064M-1056
1/16" ID Straight	10	02450972	064M-1066
1/8" ID Straight	10	09903915	064M-1076
1/4" ID Straight	10	09920140	064M-1086
1/8" Reducing to 1/16" for 1/16"OD columns	10		064M-1096
1/8" Reducing to 1.0mm for for 0.53mmID columns	10	09903394	064M-1106
1/8" Reducing to 0.5mm for for 0.32mmID columns	10	09903981	064M-1116
1/4" Reducing to 1/16", for 1/16"OD tubing	10		064M-1126
1/4" Reducing to 1/8", for 1/8"OD tubing	10		064M-1136
1/16" Blank, no holes	10		064M-1146
1/8" Blank, no holes	10		064M-1156
1/4" Blank, no holes	10		064M-1166
85% Vespel, 15% Graphite Ferrules			
1/16" to 0.4mm, for 0.25mmID columns	10	09920104	064M-2016
1/16" to 0.5mm, for 0.32mmID columns	10	09920105	064M-2026
1/16" to 0.8mm, for 0.53mmID columns	10	09920107	064M-2036
1/16" 2-hole, 0.4mm, for 0.25mmID columns	10	04972392	064M-2046
1/16" 2-hole, 0.5mm, for 0.32mmID columns	10		064M-2056
1/16" Straight	10	09920127	064M-2066
1/8" Straight	10	N9302081	064M-2076
1/4" Straight	10	09903739	064M-2086
1/8" Reducing to 0.4mm, for 0.25mmID columns	10		064M-2096
1/8" Reducing to 0.5mm, for 0.32mmID columns	10		064M-2106
1/8" Reducing to 0.8mm, for 0.53mmID columns	10		064M-2116
1/8" Reducing to 2-hole, 0.8mm, for 0.53mmID columns	10		064M-2126
1/16" Blank, no holes	10		064M-2136
1/8" Blank, no holes	10		064M-2146
Vespel Ferrules			
1/8" ID Straight	10	N9301360	064M-4016
1/4" ID Straight	10	N9301361	064M-4026

PerkinElmer Supplies/Parts

Capillary Adaptors



Ordering Information			
Description	QTY	PerkinElmer No.	Part No.
SilTite Ferrules Kit : 10 Ferrules, 2 Nuts			
For detectors, PerkinElmer style	1	N6120020	064M-8011
For detectors, Swagelog style	1		064M-8021
For injectors, PerkinElmer style	1	N6100157	064M-8031
For injectors, Swagelog style	1		064M-8041

SilTite Ferrules

- Metal ferrules for fused silica GC columns and tubing
- Ideal for GC/MS
- Eliminate contamination from vespel or graphite
- Eliminate annoying leaks
- Reduce air background
- No more retightening of Vespel ferrules after temperature cycling
- Reduce GC and MS down time



SilTite nuts and ferrules

Ordering Information			
Description	QTY	PerkinElmer No.	Part No.
SilTite Ferrules Kit : 10 Ferrules, 2 Nuts			
For MSD, 0.10 to 0.25mmID Columns	1		064M-6011
For MSD, 0.32mmID Columns	1		064M-6021
For MSD, 0.45 to 0.53mmID Columns	1		064M-6031
Replacement			
SilTite Ferrules 0.4mm for 0.1 to 0.25mmID Columns	10		064M-6046
SilTite Ferrules 0.5mm for 0.32mmID Columns	10		064M-6056
SilTite Ferrules 0.8mm for 0.53mmID Columns	10		064M-6066
SilTite Nuts	5		064M-6075