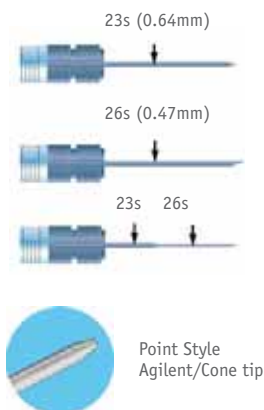


Autosampler Syringes



Needle Termination Codes	
Hamilton	
ASN	Autosampler Cemented Needle
ASRN	Autosampler Removable Needle
SGE	
F	Fixed Needle
R	Removable Needle



Ordering Information				
Volume, Code, Gauge, Length, Point Style	QTY	OEM No.	Agilent No.	Part No.
Hamilton Syringes				
5µL, ASRN, 23s, 42mm, Cone	1	87957	5182-0834	24-87957
5µL, ASN, 23s, 42mm, Cone	1	87987	9301-0892	24-87987
5µL, ASN, 23s, 42mm, Cone	6	87990	5182-0875	24-87990
5µL, ASN, 23s, GAS-TIGHT, 42mm, Cone	1	80074		24-80074
5µL, ASN, 26s, 42mm, Cone	1	87988	9301-0891	24-87988
5µL, ASN, 26s, 42mm, Cone	6	87989		24-87989
5µL, ASRN, 23s-26s, 42mm, Cone	1	87959	5182-0835	24-87959
5µL, ASN, 23s-26s, 42mm, Cone	1	87993	5181-1273	24-87993
5µL, ASN, 23s-26s, 42mm, Cone	6	87994		24-87994
10µL, ASRN, 23s, 42mm, Cone	1	80357		24-80357
10µL, ASN, 23s, 42mm, Cone	1	80387	9301-0713	24-80387
10µL, ASN, 23s, 42mm, Cone	6	80390	9301-0725	24-80390
10µL, ASRN, 26s, 42mm, Cone	1	80358		24-80358
10µL, ASN, 23s, GAS-TIGHT, 42mm, Cone	1	80080	5181-8809	24-80080
10µL, ASRN, 23s, GAS-TIGHT, 42mm, Cone	1	80087	5181-8813	24-80087
10µL, ASRN, 26s, GAS-TIGHT, 42mm, Cone	1	80088		24-80088
10µL, ASN, 26s, 42mm, Cone	1	80388	9301-0714	24-80388
10µL, ASN, 26s, 42mm, Cone	6	80389		24-80389
10µL, ASRN, 23s-26s, 42mm, Cone	1	80359	5181-3321	24-80359
10µL, ASRN, 23s-26s, GAS-TIGHT, 42mm, Cone	1	80089		24-80089
10µL, ASN, 23s-26s, 42mm, Cone	1	80393	5181-1267	24-80393
10µL, ASN, 23s-26s, 42mm, Cone	6	80391	5181-3360	24-80391
Needles 5-10µL, 23s, 42mm, Cone	6	7786-01	5181-8811	24-7786-01
Needles 5-10µL, 26s, 42mm, Cone	6	7786-02		24-7786-02
Needles 5-10µL, 23s-26s, 42mm, Cone	6	7785-01	5181-3319	24-7785-01
SGE Syringes				
5µL, R, 23s, 42mm, Cone	1	001815	5182-0834	21-001815
5µL, F, 23s, 42mm, Cone	1	001810	9301-0892	21-001810
5µL, F, 23s, 42mm, Cone	6	001814	5182-0875	21-001814
5µL, F, 26s, 42mm, Cone	1	001800	9301-0891	21-001800
5µL, F, 26s, 42mm, Cone	6	001804		21-001804
5µL, R, 23s-26s, 42mm, Cone	1	001825	5182-0835	21-001825
5µL, F, 23s-26s, 42mm, Cone	1	001821	5181-1273	21-001821
5µL, F, 23s-26s, 42mm, Cone	6	001822		21-001822
10µL, R, 23s, 42mm, Cone	1	002815		21-002815
10µL, F, 23s, 42mm, Cone	1	002810	9301-0713	21-002810
10µL, F, 23s, 42mm, Cone	6	002814	9301-0725	21-002814
10µL, F, 23s, GAS-TIGHT, 42mm, Cone	1	002812	5181-8809	21-002812
10µL, R, 23s, GAS-TIGHT, 42mm, Cone	1	002818	5181-8813	21-002818
10µL, R, 26s, 42mm, Cone	1	002805		21-002805
10µL, F, 26s, 42mm, Cone	1	002800	9301-0714	21-002800
10µL, F, 26s, 42mm, Cone	6	002804		21-002804
10µL, R, 23s-26s, 42mm, Cone	1	002825	5181-3321	21-002825
10µL, F, 23s-26s, 42mm, Cone	1	002821	5181-1267	21-002821
10µL, F, 23s-26s, 42mm, Cone	6	002822	5181-3360	21-002822
10µL, R, 23s-26s, GAS-TIGHT, 42mm, Cone	1	002819		21-002819
25µL, R, 23s, 42mm, Cone	1	003665		21-003665
50µL, R, 23s, 42mm, Cone	1	004665		21-004665
100µL, R, 23s, 42mm, Cone	1	005665		21-005665
Needles 5µL, 23s, 42mm, Cone	2	036720		21-036720
Needles 10µL, 23s, 42mm, Cone	2	037717	5181-8811	21-037717
Needles 10µL, 26s, 42mm, Cone	2	037715		21-037715
Needles 25-100µL, 23s, 42mm, Cone	2	038717		21-038717

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.

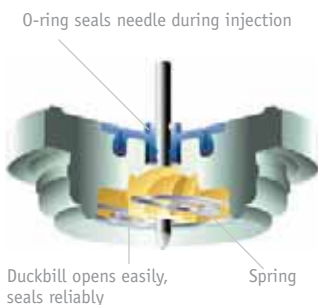
Septum Nuts for Agilent 5890/6850/6890/7890 GCs

- 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 26-gauge needles for on-column injections.
- Made of high-quality stainless steel.

Ordering Information

Description	QTY	Agilent No.	Part No.
Septum Nut for Agilent 5890/6850/6890/7890			
Autosampler & PTV Septum Nut	1	18740-60835	062B-0011
Manual Injection Septum Nut	1	18740-60835	062B-0021

Merlin Microseal™ Kit



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 Agilent 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.

The Merlin Microseal™ system can be used manually with Agilent / HP 5700, 5830, 5840, 5880, 5890, 5890 Series II and 6890 gas chromatographs. However, for autosampler use it is compatible only with the Agilent 7673 / 7683.

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 recommended for use with the HP 7673 Autosampler for many years. A sharp pointed or beveled syringe needle should not be used as it will cut or pierce the duckbill seal.



Nut

Septum

Ordering Information

Description	QTY	Agilent No.	Part No.
Microseal Septa Kit, 30psi			
Standard kit (nut and 2 septa)	1	5181-8833	062B-0031
Standard kit (nut and 1 septum)	1	5181-8816	062B-0041
Replacement septum	1	5181-8815	062B-0051
Replacement nut	1	5182-3445	062B-0061
Microseal Septa Kit, 100psi			
Standard kit (nut and 2 septa)	1		
Standard kit (nut and 1 septum)	1	5182-3442	062B-0071
Replacement septum	1	5182-3444	062B-0081
Replacement nut	1	5182-3445	062B-0061

Septa



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.

- **Ultrasep® 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	
Agilent	Diameter
4890	11mm
5700	9.5mm
5790 OCI	5mm
5800	9.5mm
5880	11mm
5880 OCI	5mm
5890	11mm
5900	9.5mm
5890 OCI	5mm
6850	11mm
6890	11mm
7620 OCI	5mm
7890	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	
Ultrasep 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	Agilent No.	Part No.
Agilent 4890/5880/5890/6850/6890/7890			
BTO 11mm(7/16")	50	5183-4757	062C-0018
Marathon 11mm(7/16")	50	5183-4761	062C-0028
Advanced Green 11mm(7/16")	50	5183-4759	062C-0038
Ultrasep R 11mm(7/16")	50	5080-8896-50	062C-0048
Economy Blue 11mm(7/16")	50	5181-1263-50	062C-0058
Agilent 7620/5790/5880/5890 with OCI			
BTO 5mm(3/16")	50	5183-4758	062C-0068
Marathon 5mm(3/16")	50	5183-4762	062C-0078
Advanced Green 5mm(3/16")	50	5183-4760	062C-0088
Agilent 5700/5800/5900			
BTO 9.5mm(3/8")	50		062C-0098
Marathon 9.5mm(3/8")	50		062C-0108
Advanced Green 9.5mm(3/8")	50		062C-0118
Ultrasep R 9.5mm(3/8")	50	5080-8728-50	062C-0128
Economy Blue 9.5mm(3/8")	50	5181-1283-50	062C-0138



Inlet Seals



062E-0032



062E-0012



062E-0052



062E-0072



062E-0106

Inlet seals are gold-plated and stainless steel for the Agilent 7890/6890/68500 GC systems. Two different types are available Splitless Single Groove and Split Double Groove (Cross), for high-flow split applications. Both are supplied with washers.

Inlet seals should be changed often because they come in contact with the sample. You will want to prevent absorption of active compounds and the buildup of sample residue and septum fragments on the disc surface.

By using inlet seals, oxygen is unable to pass into the carrier gas, which will increase the capillary column lifetime. Inlet seals also reduce detector noise of high-sensitivity detectors. We recommend using the gold-plated inlet seal to reduce the absorption of active compounds. Also, the gold-plated inlet seal is ideal for Mass Spec, trace level analyses and for use in toxicology and drugs of abuse labs.

Ordering Information			
Description	QTY	Agilent No.	Part No.
Splitless Single Groove Inlet Seals 0.8mm for Agilent			
Gold-plated with Gold-plated washers	2	5188-5367	062E-0012
Gold-plated with Gold-plated washers	10	5190-2209	062E-0026
Stainless Steel with Stainless Steel washers	2	18740-20880	062E-0032
Stainless Steel with Stainless Steel washers	10		062E-0046
Split Double Groove Inlet Seals 0.8mm for Agilent			
Gold-plated with Gold-plated washers	2	5182-9652	062E-0052
Gold-plated with Gold-plated washers	10	5182-9652	062E-0066
Stainless Steel with Stainless Steel washers	2		062E-0072
Stainless Steel with Stainless Steel washers	10		062E-0086
Replacement Washers			
Gold-plated washers	10		062E-0096
Stainless Steel washers	10	5061-5869	062E-0106



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.

Ordering Information						
Description, ID, OD and Length	Diagram	Application	QTY	Agilent No.	Part No.	
Vertical® GC Liners						
Splitless, Straight 2mmID, 6.5mmOD, 78.5mmLength		trace analytes < 2µL	5	5183-4703	062G-0015	
			25	5183-4704	062G-0017	
Splitless, Straight 4mmID, 6.5mmOD, 78.5mmLength		trace analytes > 2µL	5	210-3003-5	062G-0025	
			25		062G-0027	
Splitless, Straight, w/Wool 4mmID, 6.5mmOD, 78.5mmLength		trace analytes > 2µL	5	5183-4691	062G-0035	
			25	5183-4692	062G-0037	
Splitless, Taper 4mmID, 6.5mmOD, 78.5mmLength		trace analytes > 2µL	5	5183-4695	062G-0045	
			25	5183-4696	062G-0047	
Splitless, Taper, w/Wool 4mmID, 6.5mmOD, 78.5mmLength		trace analytes > 2µL	5	5183-4693	062G-0055	
			25	5183-4694	062G-0057	
Splitless, Double Taper 4mmID, 6.5mmOD, 78.5mmLength		trace analytes > 2µL	5	5183-4705	062G-0065	
			25	5183-4706	062G-0067	
Split, Cup Splitter 4mmID, 6.3mmOD, 78.5mmLength		high and low MW analytes	5	5183-4699	062G-0075	
			25	5183-4700	062G-0077	
Split, Cup Splitter, w/Wool 4mmID, 6.3mmOD, 78.5mmLength		high and low MW analytes	5	5183-4697	062G-0085	
			25	5183-4798	062G-0087	
Split/Splitless, Taper, w/Wool 4mmID, 6.3mmOD, 78.5mmLength		universal	5	5183-4701	062G-0095	
		Agilent 6890	25	5183-4702	062G-0097	
SGE® FocusLiner™ GC Liners						
Split/Splitless, Straight 4mmID, 6.3mmOD, 78.5mmLength		trace analytes > 2µL	5	210-4004-5	062G-0105	
			25		062G-0107	
Split/Splitless, Taper 4mmID, 6.3mmOD, 78.5mmLength		trace analytes > 2µL	5	210-4022-5	062G-0115	
			25		062G-0117	
Split/Splitless, Fast 2.3mmID, 6.3mmOD, 78.5mmLength		trace analytes < 2µL	5		062G-0125	
			25		062G-0127	
Split/Splitless, Taper, Fast 2.3mmID, 6.3mmOD, 78.5mmLength		trace analytes < 2µL	5		062G-0135	
			25		062G-0137	
Liner O-Rings						
Viton O-rings for Split (6.3mmOD) or Splitless (6.5mmOD) Liners			10	5180-4182	062G-0146	
Graphite O-rings for Split (6.3mmOD) Liners			10	5180-4168	062G-0156	
Graphite O-rings for Splitless (6.5mmOD) Liners			10	5180-4173	062G-0166	

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



Reducing ferrules

Ordering Information

Description	QTY	Agilent No.	Part No.
Graphite Ferrules			
1/16" to 0.4mm, short, for 0.25mmID columns	10	500-2114	062M-1016
1/16" to 0.5mm, short, for 0.32mmID columns	10	5080-8853	062M-1026
1/16" to 0.8mm, short, for 0.53mmID columns	10	500-2118	062M-1036
1/16" to 1.0mm, short, for 0.65mmID columns	10	5080-8773	062M-1046
1/16" 2-hole, 0.5mm, for 0.32mmID columns	10		062M-1056
1/16" ID Straight	10	0100-1326	062M-1066
1/8" ID Straight	10	0100-1325	062M-1076
1/4" ID Straight	10	0100-1324	062M-1086
1/8" Reducing to 1/16" for 1/16"OD columns	10		062M-1096
1/4" Reducing to 1/16", for 1/16"OD tubing	10		062M-1106
1/4" Reducing to 1/8", for 1/8"OD tubing	10		062M-1116
1/16" Blank, no holes	10		062M-1126
1/8" Blank, no holes	10		062M-1136
1/4" Blank, no holes	10		062M-1146
85% Vespel, 15% Graphite Ferrules			
1/16" to 0.3mm Short, for 0.18mmID columns	10		062M-2016
1/16" to 0.4mm Short, for 0.25mmID columns	10	5181-3323	062M-2026
1/16" to 0.5mm Short, for 0.32mmID columns	10	5062-3514	062M-2036
1/16" to 0.8mm Short, for 0.53mmID columns	10	5062-3512	062M-2046
1/16" to 0.3mm, for 0.18mmID columns	10	5062-3507	062M-2056
1/16" to 0.4mm, for 0.25mmID columns	10	5062-3508	062M-2066
1/16" to 0.5mm, for 0.32mmID columns	10	5062-3506	062M-2076
1/16" to 0.8mm, for 0.53mmID columns	10	5062-3538	062M-2086
1/16" to 1.0mm, for 0.65mmID columns	10		062M-2096
1/16" to 1.2mm, for 0.75mmID columns	10		062M-2106
1/16" 2-hole, 0.4mm, for 0.25mmID columns	10	5062-3580	062M-2116
1/16" 2-hole, 0.5mm, for 0.32mmID columns	10	5062-3518	062M-2126
1/16" Straight	10		062M-2136
1/8" Straight	10		062M-2146
1/4" Straight	10	0100-1332	062M-2156
1/8" Reducing to 0.4mm, for 0.25mmID columns	10	0100-1331	062M-2166
1/8" Reducing to 0.5mm, for 0.32mmID columns	10		062M-2176
1/8" Reducing to 0.8mm, for 0.53mmID columns	10		062M-2186
1/8" Reducing to 1/16" for 1/16"OD columns	10	0100-1344	062M-2196
1/8" Reducing to 2-hole, 0.5mm, for 0.32mmID columns	10		062M-2206
1/4" Reducing to 0.5mm, for 0.32mmID columns	10		062M-2216
1/4" Reducing to 6mm, for 16mm OD tubing	10		062M-2226
1/4" Reducing to 0.8mm, for 0.53mmID columns	10		062M-2236
1/4" Reducing to 1/16", for 1/16"OD tubing	10		062M-2246
1/4" Reducing to 1/8", for 1/8"OD tubing	10		062M-2256
1/16" Blank, no holes	10	5181-3308	062M-2266
1/8" Blank, no holes	10		062M-2276
1/4" Blank, no holes	10		062M-2286



Vespel ferrules

Ordering Information			
Description	QTY	Agilent No.	Part No.
Vespel Ferrules			
1/16" to 0.4mm, short, for 0.25mmID columns	10	5181-3322	062M-4016
1/16" to 0.5mm, short, for 0.32mmID columns	10	5062-3513	062M-4026
1/16" to 0.8mm, short, for 0.53mmID columns	10	5062-3511	062M-4036
1/16" to 0.4mm, for 0.25mmID columns	10	5182-0740	062M-4046
1/16" to 0.5mm, for 0.32mmID columns	10	5182-0741	062M-4056
1/16" to 0.8mm, for 0.53mmID columns	10	5182-0742	062M-4066
1/16" 2-hold, 0.5mm, for 0.32mmID columns	10		062M-4076
1/16" ID Straight	10		062M-4086
1/8" ID Straight	10		062M-4096
1/4" ID Straight	10	0700-1327	062M-4106
1/8" Reducing to 1/16" for 1/16"OD columns	10		062M-4116
1/4" Reducing to 1/16", for 1/16"OD tubing	10		062M-4126
1/4" Reducing to 1/8", for 1/8"OD tubing	10		062M-4136
1/16" Blank, no holes	10	5021-7133	062M-4146
1/8" Blank, no holes	10		062M-4156
1/4" Blank, no holes	10		062M-4166

Capillary Nuts



Capillary column nuts

Ordering Information			
Description	QTY	Agilent No.	Part No.
Capillary Nuts			
Stainless steel capillary nut for short ferrules	2	5181-8830	062M-5012
Stainless steel capillary nut for standard ferrules	2	05921-21170	062M-5022

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	Agilent No.	Part No.
SilTite Ferrules Kit : 10 Ferrules, 2 Nuts			
For MSD, 0.10 to 0.25mmID Columns	1	5181-8361	062M-6011
For MSD, 0.32mmID Columns	1	5181-8362	062M-6021
For MSD, 0.45 to 0.53mmID Columns	1	5181-8363	062M-6031
For Split/Spliless, 0.10 to 0.25mmID Columns	1		062M-6041
For Split/Spliless, 0.32mmID Columns	1		062M-6051
For Split/Spliless, 0.45 to 0.53mmID Columns	1		062M-6061
SilTite Ferrules Kit : 10 Ferrules, 2 Nuts, 2 Inlet Base Seals			
For Split/Spliless, 0.10 to 0.25mmID Columns	1		062M-6071
For Split/Spliless, 0.32mmID Columns	1		062M-6081
For Split/Spliless, 0.45 to 0.53mmID Columns	1		062M-6091
Replacement			
SilTite Ferrules 0.4mm for 0.1 to 0.25mmID Columns	10	5188-5361	062M-6106
SilTite Ferrules 0.5mm for 0.32mmID Columns	10	5188-5362	062M-6116
SilTite Ferrules 0.8mm for 0.53mmID Columns	10	5188-5363	062M-6126
SilTite Nuts	5		062M-6135