

Autosampler Syringes



Ordering Information

Volume, Code, Gauge, Length, Point Style	QTY	OEM No.	Shimadzu No.	Part No.
Hamilton Syringes for AOC-9				
5μL, N, 26s, 51mm, #2	1	87900		24-87900
5μL, RN, 26s, 51mm, #2	1	87930		24-87930
10μL, RN, 26s, 51mm, #2	1	80330		24-80330
Needles, 26s, 51mm, #2	6	7758-02		24-7758-02
SGE Syringes for AOC-14/17/20/20i				
0.5μL, R, 23s, 42mm, Cone	1	000445		21-000445
0.5μL, R, 26s, 42mm, Cone	1	000440		21-000440
5μL, F, 23s, 42mm, Cone	1	001988		21-001988
5μL, F, 26s, 42mm, Cone	1	001987		21-001987
10μL, R, 23s, 42mm, Cone	1	002898		21-002898
10μL, R, 26s, 42mm, Cone	1	002897		21-002897
10μL, R, GT, 23s, 42mm, Cone	1	002902		21-002902
250μL, F, GT, 26s, 42mm, Cone	1	006682		21-006682
Needles, 23s, 42mm, Cone for 0.5μL syringes	1	033745		21-033745
Needles, 26s, 42mm, Cone for 0.5μL syringes	1	033738		21-033738
Needles, 23s, 42mm, Cone for 10μL syringes	2	037747		21-037747
Needles, 26s, 42mm, Cone for 10μL syringes	2	037745		21-037745

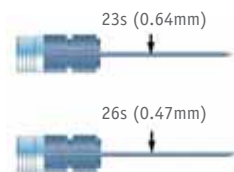
Needle Termination Codes

Hamilton

N	Cemented Needle
RN	Removable Needle

SGE

F	Fixed Needle
R	Removable Needle
GT	Gas-Tight



Point Style #2
Beveled needle tip



Point Style Cone
Cone tip

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 Shimadzu 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 23-gauge needles for on-column injections.
- Made of high-quality stainless steel.

Ordering Information

Description	QTY	Shimadzu No.	Part No.
Septum Nut for Shimadzu 17A, 2010, and 2014 GCs			
Septum Nut (for 23-Gauge Needles)	1	221-41286-00	066B-0011

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.

- **BT0® - 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

Specification					
Septa	Temp Max	Color	Injections	Durometer*	Low Bleed
BT0	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

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

Ordering Information			
Description	QTY	Shimadzu No.	Part No.
Shimadzu All Models			
BT0 plug	50	CS298735	066C-0018
Marathon plug	50	CS239498	066C-0028
Advanced Green plug	50	CS246424	066C-0038



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	Shimadzu No.	Part No.
14A/15A/16(SPL-14)					
Split/Splitless, FocusLiner 3.4mmID, 5.0mmOD, 99mmLength		trace analytes	5		066G-0015
		> 2µL	25		066G-0017
Split/Splitless, FocusLiner, Tapered 3.4mmID, 5.0mmOD, 99mmLength		trace analytes	5		066G-0025
		> 2µL	25		066G-0027
Split/Splitless, Middle Gooseneck 3.4mmID, 5.0mmOD, 99mmLength		trace analytes	5		066G-0035
		> 2µL	25		066G-0037
Split/Splitless, Tapered 3.4mmID, 5.0mmOD, 99mmLength		trace analytes	5	221-32544-01	066G-0045
		< 2µL	25		066G-0047
Spitless, Direct, Wire Bore 3.4mmID, 5.0mmOD, 139mmLength		trace analytes	5		066G-0055
		> 2µL	25		066G-0057
17A(SP-17) & 2010/2014(SPL-2010)					
Split/Splitless, FocusLiner 3.4mmID, 5.0mmOD, 95mmLength		trace analytes	5	092062SH	066G-0065
		> 2µL	25		066G-0067
Split/Splitless, FocusLiner, Tapered 3.4mmID, 5.0mmOD, 95mmLength		trace analytes	5	092068SH	066G-0075
		> 2µL	25		066G-0077
Split/Splitless, Recessed ooseneck, 3.4mmID, 5.0mmOD, 95mmLength		trace analytes	5	092061SH	066G-0085
		> 2µL	25		066G-0087
Split, Straight-Though 3.4mmID, 5.0mmOD, 95mmLength		trace analytes	5	221-41444-00	066G-0095
		> 2µL	25		066G-0097
Split/Spitless, Middle Gooseneck 3.4mmID, 5.0mmOD, 95mmLength		trace analytes	5	221-41444-01	066G-0105
		> 2µL	25		066G-0107
Split, Straight-Though 2.6mmID, 5.0mmOD, 95mmLength		trace analytes	5	221-41544-00	066G-0115
		> 2µL	25		066G-0117
Direct for 0.53mm ID Column 2.6mmID, 5.0mmOD, 95mmLength		trace analytes	5	220-94768-00	066G-0125
		> 2µL	25		066G-0127
SPME Liner 0.75mmID, 5.0mmOD, 95mmLength		trace analytes	5	220-94769-00	066G-0135
		> 2µL	25		066G-0137
Split/Splitless, Tapered 3.4mmID, 5.0mmOD, 95mmLength		trace analytes	5	221-48335-01	066G-0145
		> 2µL	25		066G-0147
Liner O-Rings					
Viton O-rings for 2010 (SPL 2010) and 2014 Liners			10		066G-0156
Graphite O-rings for 14/15/16 (SPL 14) Liners			10		066G-0166
Graphite O-rinas for 17A (SPL 17) Liners			10		066G-0176

Shimadzu Supplies/Parts

Ferrules



Graphite ferrules



85% Vespel, 15% Graphite ferrules

Ferrule Properties			
Material	Temp Limit	Advantages	Limitations
Graphite (100%)	450°C	Recommended for high temperature and cool on-column application	- Not for MS - Easily deformed - Possible system contamination
Vespel/Graphite (85%/15%)	350°C	- Excellent sealing - Recommended for MS	- Must re-tighten frequently - Flows at elevated temperature

Ordering Information			
Description	QTY	Shimadzu No.	Part No.
Graphite Ferrules for 14A/17A/2010/2014			
1/16" to 0.5mm, for 0.25-0.32mmID columns	10	221-32126-05	066M-1016
1/16" to 0.8mm, for 0.53mmID columns	10	221-32126-08	066M-1026
5mmOD for packed columns	10	221-15563-91	066M-1036
85% Vespel, 15% Graphite Ferrules For QP-5000-I MS			
1/16" to 0.4mm, for 0.1-0.25mmID columns	10		066M-2016
1/16" to 0.5mm, for 0.32mmID columns	10		066M-2026
85% Vespel, 15% Graphite Ferrules For QP-5000-II MS			
1/16" to 0.4mm, for 0.1-0.25mmID columns	10		066M-2036
1/16" to 0.5mm, for 0.32mmID columns	10		066M-2046
85% Vespel, 15% Graphite Ferrules For 2010 GCMS			
1/16" to 0.4mm, for 0.1-0.25mmID columns	10		066M-2056
1/16" to 0.5mm, for 0.32mmID columns	10		066M-2066
1/16" to 0.8mm, for 0.53mmID columns	10		066M-2076

Capillary Nuts



Capillary Nuts

Ordering Information			
Description	QTY	Shimadzu No.	Part No.
Capillary Nuts			
Nut with Slit	2	221-32705	066M-5012
Nut without Slit	2	221-1635-81	066M-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	Shimadzu No.	Part No.
SilTite Ferrules Kit For QP-5000 MSD, 10 Ferrules, 2 Nuts			
SilTite Kit for 0.10 to 0.25mmID Columns	1		066M-6011
SilTite Ferrule 0.10 to 0.25mmID Columns	10		066M-6026
SilTite Kit for 0.32mmID Columns	1		066M-6031
SilTite Ferrule 0.32mmID Columns	10		066M-6046
SilTite Kit for 0.45-0.53mmID Columns	1		066M-6051
Ferrule for 0.45-0.53mmID Columns	10		066M-6066
SilTite Ferrules Kit For QP2010, 10 Ferrules, 2 Nuts			
SilTite Kit for 0.10 to 0.25mmID Columns	1		066M-6071
SilTite Ferrule 0.10 to 0.25mmID Columns	10		066M-6086
SilTite Kit for 0.32mmID Columns	1		066M-6091
SilTite Ferrule 0.32mmID Columns	10		066M-6106
SilTite Kit for 0.45-0.53mmID Columns	1		066M-6111
SilTite Ferrule for 0.45-0.53mmID Columns	10		066M-6126
Replacement SilTite Nuts			
SilTite Nut For 201/2014 QP-5000 with Jet Separator	5		066M-6135
SilTite Nut For QP-5000 with Direct MS Interface	5		066M-6145