

















Splitless Liners for Varian 1075/1077 GCs		Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
	trace samples <2μL	2.0 ID 6.3 OD x 74	190010905	20721	20722	20723	
2mm Splitless							
	trace samples >2μL	4.0 ID 6.3 OD x 74	—	20904	20905	20906	
4mm Splitless							
	trace, active samples up to 4μL	4.0 ID 6.3 OD x 74	—	20847	20848	20849	
Double Gooseneck							
	trace, dirty, active samples up to 4μL	4.0 ID 6.3 OD x 74	—	20897	20898	—	
Cyclo Double Gooseneck							

Split Liners for Varian 1075/1077 GCs		Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
	purge & trap inlet splitting or samples <1μL	1.0 ID 6.3 OD x 72	—	20970	20971	—	
1mm Split							
	universal, use with rapid autosamplers	4.0 ID 6.3 OD x 72	190010901	20792	20793	20794	
Splitter w/ Wool							
	high MW compounds	4.0 ID 6.3 OD x 72	190010902	20803	20804	—	
Laminar Cup Splitter							
	high & low MW compounds	4.0 ID 6.3 OD x 72	—	20724	20725	—	
Cup Splitter							
	dirty samples, many injections before cleaning required	4.0 ID 6.3 OD x 72	—	20727	20728	—	
Cycloplitter*							
	dirty samples, non-active compounds	4.0 ID 6.3 OD x 72	190010903	20715	20716	20717	
Frit Splitter							
	compounds with close boiling points	4.0 ID 6.3 OD x 72	190010904	20718	20719	20720	
Baffle Splitter							
	dirty samples, active samples	4.0 ID 6.3 OD x 72	—	21030	21031	—	
Split Precision™ Liner w/ Wool							

DI Liners for Varian 1075/1077 GCs (0.32/0.53mm ID)		Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 72	—	20345	20346	—	
Uniliner*							
	trace, dirty, high MW, active samples, linearity	4.0 ID 6.3 OD x 72	—	20347	20348	—	
Cyclo-Uniliner*							
	trace, dirty, active samples, high recovery & linearity	4.0 ID 6.3 OD x 72	—	20845	20846	—	
Open-top Uniliner* w/ Wool							

SPME Liners for Varian 1075/1077 GCs		Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
	ideal for low-volume SPME applications	0.75 ID 6.30 OD x 74	—	21112	21113	—	
SPME Liner							

*Nominal ID at syringe needle expulsion point.



















All liners are
100%
deactivated

All liners are shipped intermediate polarity (IP)
deactivated unless otherwise requested.

ordering note

For descriptions of liner deactivations, packings, and tools, see pages 141-143.

Supplies for Varian Instruments: Inlet Liners

SPI Liners for Varian GCs	Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 0.5mm SPI	high linearity for 0.25 & 0.32mm ID columns	0.53 ID 4.6 OD x 54	190010906	20775	20776	20777
 Siltek® 0.5mm SPI	high linearity for 0.25 & 0.32mm ID columns	0.53 ID 4.6 OD x 54	—	20775-214.1	20776-214.5	20777-214.25
 0.8mm SPI	high linearity for 0.53mm ID columns	0.80 ID 4.6 OD x 54	190010907	20778	20779	20780
 SPI with Buffer	dirty samples >1µL, fits 0.25, 0.32 & 0.53mm ID columns	2.4 ID 4.6 OD x 54	190010908	20850	20851	20852
Liners for Varian 1177 GCs	Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 4mm Split w/Glass Frit	universal	4.0 ID 6.3 OD x 78.5	—	21045	21046	—
 Siltek® 4mm Split w/Glass Frit	universal	4.0 ID 6.3 OD x 78.5	—	21045-214.1	21046-214.5	—
 4mm Split w/ Wool	universal	4.0 ID 6.3 OD x 78.5	392611934	—	21079	—
 4mm Split Precision™ Liner w/ Wool	dirty samples, trace samples	4.0 ID 6.3 OD x 78.5	—	20759	20762	—
 Low Pressure Drop Precision™ Liner w/ Wool	trace samples <2µL, dirty samples	2.0 ID 6.3 OD x 78.5	—	22421	22422	—
 Laminar Cup Splitter	high MW compounds	4.0 ID 6.3 OD x 78.5	—	20765	20768	—
 2mm Splitless w/ Wool	trace samples <2µL	2.0 ID 6.5 OD x 78.5	392599903	—	21077	—
 Gooseneck Splitless (4mm)	trace samples <2µL	4.0 ID 6.5 OD x 78.5	392611927	21896	21897	—
 Siltek® Gooseneck Splitless (4mm)	trace samples <2µL	4.0 ID 6.5 OD x 78.5	—	21896-214.1	21897-214.5	—
 Gooseneck Splitless (4mm) w/ Wool	trace samples <2µL	4.0 ID 6.5 OD x 78.5	392611936	21896-200.1	21897-200.5	—
 Siltek® Gooseneck Splitless (4mm) w/ Wool	trace samples <2µL	4.0 ID 6.5 OD x 78.5	—	21896-213.1	21897-213.5	—
 Double Gooseneck Splitless (4mm)	trace, active samples <2µL	4.0 ID 6.5 OD x 78.5	—	21891	21892	—
DI Liners for Varian 1177 GCs (For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses	ID*/OD & Length (mm)	Similar to Varian part #	cat.# ea.	cat.# 5-pk.	
 Drilled Uniliner® (hole near top)	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	21470	21471	
 Drilled Uniliner® (hole near bottom)	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	21468	21469	










*Nominal ID at syringe needle expulsion point.



All liners are
100%
deactivated

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested.

ordering note

For descriptions of liner deactivations, packings, and tools, see pages 141-143.

Liners for Varian 1078/1079 GCs	Benefits/Uses:	ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 1078/1079 Split w/ Frit	dirty samples, non-active compounds	3.4 ID 5.0 OD x 54	392611946	21708	21709	—
 Siltek® 1078/1079 Split w/ Frit	dirty samples, non-active compounds	3.4 ID 5.0 OD x 54	—	21708-214.1	21709-214.5	—
 1078/1079 Splitless	trace samples <2µL	2.0 ID 5.0 OD x 54	392611947	21711	21712	—
 Siltek® 1078/1079 Splitless	trace samples <2µL	2.0 ID 5.0 OD x 54	—	21711-214.1	21712-214.5	—
 Open 0.5mm ID	trace samples <1µL	0.5 ID 5.0 OD x 54	392611949	20992	20993	—
 1078/1079 Split-No Frit	active samples	3.4 ID 5.0 OD x 54	392611945	20859	20901	20909
 Siltek® 1078/1079 Split-No Frit	active samples	3.4 ID 5.0 OD x 54	—	20859-214.1	20901-214.5	20909-214.25
 Open 0.75mm ID	trace, low volume samples	0.75 ID 5.0 OD x 54	392611948	21714	21715	21716
 1078/1079 Split Precision™ Liner w/ Wool	dirty samples, trace samples	3.4 ID 5.0 OD x 54	—	21024	21025	—

DI Liners for Varian 1078/1079 GCs (For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses	ID*/OD & Length (mm)	Similar to Varian part #	cat.# ea.	cat.# 5-pk.
 Drilled Uniliner® (hole near top)	trace, active samples, high recovery & linearity	3.5 ID 5.0 OD x 54	—	24974	24975 new!
 Drilled Uniliner® (hole near bottom)	trace, active samples, high recovery & linearity	3.5 ID 5.0 OD x 54	—	22280	22281

*Nominal ID at syringe needle expulsion point.

tech tip

Drilled Uniliner® Liners

Use the Drilled Uniliner® liner with the hole near the bottom for semivolatiles analysis or when compounds of interest could be affected by a tailing solvent peak. Use the Drilled Uniliner® liner with the hole near the top for chlorinated pesticides analysis, aqueous injections, as well as for analysis in which the compounds of interest elute away from the solvent peak.

Siltek® Treated Metal Inlet Liners for Varian GCs

- Won't crack, chip or break like glass liners.
- Inertness equivalent to glass liners.
- Excellent response for pesticides, phenols, and other active compounds.



Liner Type (3.8mm ID x 5.0mm OD x 54mm)	qty.	cat.#
Split/Splitless	5-pk.	20711
Splitless Gooseneck	5-pk.	21002

Supplies for Varian Instruments: Liner Seals, Septa, Septum Nuts



Inlet Liner Seals for Varian 1177 Injectors

- Meets or exceeds manufacturer's performance.

Description	Max. temp.	Similar to Varian part #	10-pk. cat.#	50-pk. cat.#
6.35mm ID Graphite O-rings for split liners	450°C	—	20296	20297
6.5mm ID Graphite O-rings for splitless liners	450°C	39-26119-40	20298	20299



Liner Seals for Varian 1078/1079

Description	Max. temp.	Similar to Varian part #	qty.	cat.#
5mm Graphite Liner Seals for Varian 1078/1079 GCs	450°C	392611919 392534201	10-pk.	22683

Now precision molded!

Septa for Varian GCs

- Precision molding assures consistent, accurate fit.
- Preconditioned and ready to use.
- Do not adhere to hot metal surfaces.
- Packaged in precleaned glass jars.

Septum Diameter	25-pk.	50-pk.	100-pk.
Thermolite® Septa (usable to 340°C inlet temp.)			
9mm	27132	27133	27134
9.5mm (9/16")	27135	27136	27137
10mm	27138	27139	27140
11mm (7/16")	27141	27142	27143

IceBlue™ Septa (usable to 250°C inlet temp.)			
9mm	—	27156	27157
9.5mm (9/16")	—	27158	27159
10mm	—	27160	27161
11mm (7/16")	—	27162	27163

BTO® Septa (usable to 400°C inlet temp.)			
9mm CenterGuide™	—	27104	27105
9.5mm (9/16")	—	27106	27107
10mm	—	27108	27109
11mm (7/16") CenterGuide™	—	27110	27111

HANDY septum size chart

Injector Type	Septum Diameter (mm)
Packed Column	9.5/10
Split/Splitless 1078/1079	10/11
1177	9
1075/1077	11

Stainless Steel Septum Nuts for Varian GCs

- Maintain a sharper knife edge longer than the original equipment aluminum design.
- Greatly minimize septum fragmentation and increase septum lifetime.

Description	Similar to Varian part #*	qty.	cat.#
26 Gauge Needle Guide Septum Nut	03-949666-01	ea.	21310
Standard Stainless Steel Septum Nut	03-949666-01	ea.	21304

*Similar to Varian part # 03-949666-01, except Restek nuts are not equipped with remote-start capabilities.



Capillary Nuts for Varian GCs

- Choose brass (<200°C) or stainless steel (>200°C) replacement nuts.



Description	Similar to Varian part #	qty.	cat.#
Brass Capillary Nuts	03-949551-00	2-pk.	20881
Stainless Steel Capillary Nuts	03-949551-00	2-pk.	20882

Siltek® Treated Inlet Support Springs for Varian 1075/1077 Split Injectors

- Siltek® treated to eliminate sample adsorption.



Description	Similar to Varian part #	qty.	cat.#
Siltek® Treated Inlet Support Springs for Varian	03-949786-00	3-pk.	21690

Capillary Installation Gauge for Varian GCs for use with 1/16" ferrules

- Seats ferrule* onto column for consistent installations.
- Prevents crushed column ends.
- Made from high-quality stainless steel.



Description	qty.	cat.#
Capillary Installation Gauge for Varian GCs for use with 1/16" ferrules	ea.	22335

*Recommended for use with graphite ferrules.

Make Life Easier (MLE) Capillary Tool Kit for Varian GCs

Includes:

- capillary installation gauge for Varian GCs
- 1/8", 3/16", and 1/4" nylon brushes
- 1/4", 3/8", and 3/16" stainless steel wire tube brushes
- stainless steel surface brush
- 6 stainless steel jet reamers (0.25–0.65mm OD)
- 1/4" x 3/16" open end wrench
- 3/8" x 7/16" open end wrench
- 7/16" x 1/2" open end wrench
- 1/2" x 9/16" open end wrench
- rubber-tipped slide-lock tweezers
- scoring wafers with handles
- inlet liner removal tool
- septum puller
- mini wool puller/insertor tool
- 4-inch tapered needle file
- swivel head flashlight
- mini hand drill set
- 15cm compact steel ruler
- pocket magnifier
- high temperature string (1 meter)
- pipe cleaner (12-inch)
- cotton tip swabs (pk. of 25)



Everything you need
in one complete kit!



Eberhardt Kuhn
Sales & Distribution
Manager for Asia,
Pacific, and India
3+ years of service!

Description	qty.	cat.#
MLE Capillary Tool Kit for Varian GCs	kit	22184

restek
innovation!

Change columns in minutes—without venting!

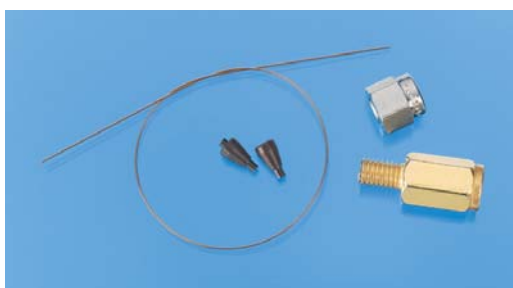
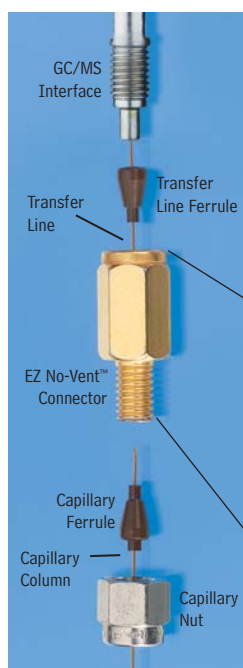
EZ No-Vent™ GC Column-Mass Spectrometer Connector

- Change GC/MS columns in minutes without venting—100µm transfer line throttles vacuum and prevents venting.
- Easy to install and maintain—no special tools or plumbing required.
- Gold-plated body for inertness.
- Deactivated transfer line keeps analytes focused; high-temperature polyimide ferrules eliminate leaks at the problematic transfer line fitting.
- Lower cost than other “no-vent” fittings.
- For Varian Saturn 2000 Series Mass Spectrometers.

We designed the EZ No-Vent™ GC column-mass spectrometer connector to be simple and easy to use. A critical orifice in the EZ No-Vent™ connector minimizes the amount of oxygen allowed into the MS source, eliminating the need for purge gas and enabling you to skip the lengthy vent and pump-down cycle otherwise required when you make a column change. This can save nearly a day of downtime with each column change. The EZ No-Vent™ connector easily attaches to the MS source without special tools or extra plumbing.



Kelli Steindl
GC Accessories Associate
Product Marketing
Manager
3+ years of service!



Kit installs easily,
without special tools
or plumbing.

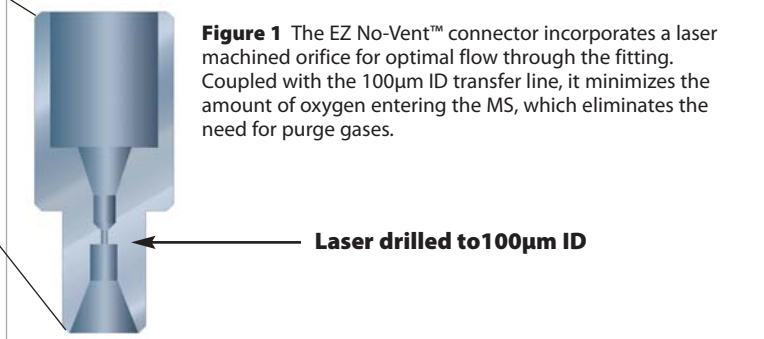


Figure 1 The EZ No-Vent™ connector incorporates a laser machined orifice for optimal flow through the fitting. Coupled with the 100µm ID transfer line, it minimizes the amount of oxygen entering the MS, which eliminates the need for purge gases.

Description	qty.	cat.#
EZ No-Vent™ Connector Kit for Varian Saturn 2000 Series MSs Kit includes: EZ No-Vent™ Connector, two 0.4mm ID ferrules for capillary column, two 0.4mm ID ferrules for transfer line, 100µm deactivated transfer line (3 ft.), column plug, column nut.	kit	22423
Replacement ferrules for connecting capillary column to EZ No-Vent™ Connector: 0.4mm ID (Polyimide)	2-pk.	21015
0.5mm ID (Polyimide)	2-pk.	21016
Replacement ferrules for connecting transfer line to EZ No-Vent™ Connector: 0.4mm ID	2-pk.	21043
Replacement 100µm deactivated transfer line	3 ft.	21018
Replacement EZ No-Vent™ Column Nut	5-pk.	21900
Replacement EZ No-Vent™ Plug	2-pk.	21915
Open-End Wrenches (1/4" x 3/8")	2-pk.	20110

Capillary Inlet Guide Kit for Varian GCs

- Use as a replacement for Varian 1075 and 1077 split/splitless injectors.
- Use inexpensive 1/16-inch fittings instead of a nonstandard nut.
- Quick and simple installation.
- Ideal for two-hole ferrule installation.

Two 0.25 or 0.32mm ID capillary columns can be inserted into a standard 1/16-inch type capillary fitting. The two-hole ferrule positions the column squarely inside 2 or 4mm ID splitless liners. (Use recessed-taper double-gooseneck liners for dual column analysis.) Complete kit includes splitter guide, 1/4-inch nut, 1/4-inch Vespel®/graphite ferrule, and a 1/16-inch nut and ferrule.



Save time and money with Restek's inlet splitter guide for Varian GCs!

Description	Similar to Varian part #	qty.	cat.#
Inlet Guide Kit	03-908358-00	kit	20502

Low-Volume Injector for Varian Split/Splitless Inlets

- Attaches to the GC inlet without cutting existing injection port lines.
- Allows injections from a syringe onto the column for purge & trap troubleshooting or calibration.
- Siltek® treatment eliminates adsorption of active compounds.
- Order capillary ferrules separately—see pages 217-219.

Description	qty.	cat.#
Low-Volume Injector for Varian Split/Splitless GC Inlets	kit	21693



Rethreading Tool

- Repair worn or damaged threads.
- Multiple uses (injection ports, fittings, etc.).
- Built-in guide to prevent cross-threading.



Description	qty.	cat.#
Rethreading Tool for 7/16" compression fitting (Varian injection ports)	ea.	23019
Rethreading Tool for 1/4" Varian-style capillary column fittings	ea.	21893



Make your injection port threads like new!

also available

Looking for autosampler syringes?

Restek carries a full line of autosampler syringes for Varian instruments from both Hamilton and SGE. See [page 282](#) or visit www.restek.com and search on syringes.

