

GC ACCESSORIES QUARTERLY

Spotlight

2011.4



Sky[™]
Inlet Liners

Get True Blue
Performance

on page 2

RESTEK

Innovative Chromatography Products

www.restek.com 800-356-1688 • 814-353-1300

True Blue Performance

- Increase accuracy and reproducibility with state-of-the-art deactivation.
- Achieve lower detection limits for a wide range of active compounds.
- Use wool with confidence—new quartz wool is deactivated after packing, preventing the loss of sensitive analytes.

The innovative deactivation used for Sky™ liners results in exceptional inertness for a wide range of analyte chemistries. By reducing active sites and enhancing analyte transfer to the column, these liners increase accuracy and precision, allowing lower detection limits for many active compounds. In addition to improved data quality, you'll benefit from fewer liner changes and less downtime for maintenance.

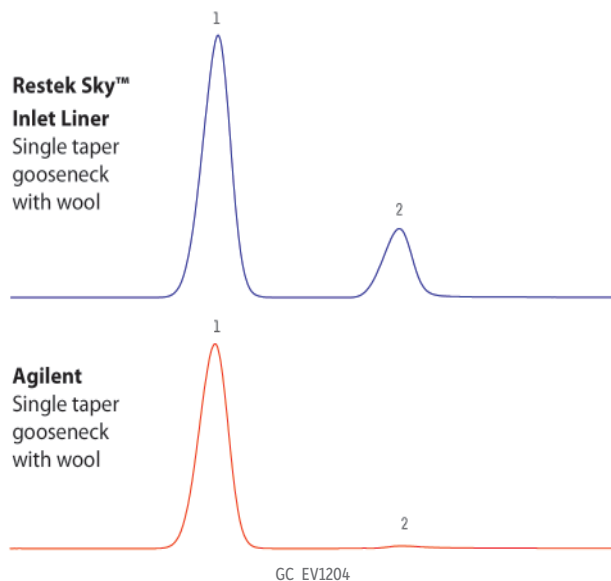


Visit us at www.restek.com/sky

Greater Inertness Results in Higher Analyte Response

A common probe used to illustrate inertness is 2,4-dinitrophenol (2,4-DNP), which functions as an indicator of acid compound interactions. It is used to monitor system suitability in semivolatiles methods, which benefit from the use of wool to assist in sample vaporization. As shown in Figure 1, the response of 2,4-DNP with the Sky™ inlet liner, even at low concentrations, is superior to a competitor's liner. The Agilent liner with wool has active sites that adsorb 2,4-DNP and reduce its response. In contrast an excellent response is achieved using the Sky™ liner, even in the presence of wool.

Figure 2 The state-of-the-art deactivation used for Sky™ liners with wool results in higher responses for active acid compounds, such as 2,4-DNP.



**Increase the response of
active analytes with inert
Sky™ inlet liners!**












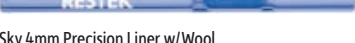






	2,4-DNP Response Factor
Restek	0.28
Agilent	0.02

- Peaks**
1. Acenaphthene (IS)
 2. 2,4-DNP

Column Rxi®-5Sil MS, 15 m, 0.25 mm ID, 0.25 µm (cat.# 13620); **Sample** 10 µg/mL each 2,4-dinitrophenol and acenaphthene standard in methylene chloride; **Injection** Inj. Vol.: 1 µL splitless (hold 1 min.); **Liner:** Comparison of Sky™ Single Taper Gooseneck Inlet Liner with Wool (cat.# 23303.5) and Agilent Single Taper Gooseneck Inlet Liner with Wool (cat.# 5062-3587); **Inj. Temp.:** 250 °C; **Detector:** FID @ 300 °C.

Sky™ Inlet Liners for Agilent GCs

COLUMN INSTALLS THIS END



Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
 Sky 2mm Splitless	2.0mm 6.5mm x 78.5mm	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	23313.1	23313.5	23313.25
 Sky 2mm Splitless w/Wool	2.0mm 6.5mm x 78.5mm		23314.1	23314.5	23314.25
 Sky 2mm Single Taper Gooseneck	2.0mm 6.5mm x 78.5mm		23315.1	23315.5	23315.25
 Sky 2mm Single Taper Gooseneck w/Wool	2.0mm 6.5mm x 78.5mm		23316.1	23316.5	23316.25
 Sky 4mm Straight	4.0mm 6.3mm x 78.5mm	210-3003 (ea.) 210-3003-05 (5-pk.)	23301.1	23301.5	23301.25
 Sky 4mm Straight w/Wool	4.0mm 6.3mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	23300.1	23300.5	23300.25
 Sky 4mm Single Taper Gooseneck	4.0mm 6.5mm x 78.5mm	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	23302.1	23302.5	23302.25
 Sky 4mm Single Taper Gooseneck w/Wool	4.0mm 6.5mm x 78.5mm	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	23303.1	23303.5	23303.25
 Sky 4mm Double Taper Gooseneck	4.0mm 6.5mm x 78.5mm	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	23308.1	23308.5	23308.25
 Sky 4mm Cyclo Double Taper Gooseneck	4.0mm 6.5mm x 78.5mm		23310.1	23310.5	23310.25
Split Liners for Agilent GCs	ID OD x Length	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
 Sky 4mm Straight w/Wool	4.0mm 6.3mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	23300.1	23300.5	23300.25
 Sky 4mm Precision Liner w/Wool	4.0mm 6.3mm x 78.5mm	210-4004-5 (5-pk.)	23305.1	23305.5	23305.25
 Sky 4mm Cycloplitter	4.0mm 6.3mm x 78.5mm		23312.1	23312.5	23312.25
Split/Splitless Liners for Agilent GCs	ID OD x Length	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
 Sky 4mm Straight w/Wool	4.0mm 6.3mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	23300.1	23300.5	23300.25
 Sky Low Pressure Drop Precision Liner w/Wool	4.0mm 6.3mm x 78.5mm		23309.1	23309.5	
Direct Injection Liners for Agilent GCs (for 0.25/0.32/0.53mm ID Columns)	ID OD x Length	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
 Sky Drilled Uniliner (hole near bottom)	4.0mm 6.3mm x 78.5mm	G1544-80730 (ea.)	23306.1	23306.5	
 Sky Drilled Uniliner (hole near bottom) w/Wool	4.0mm 6.3mm x 78.5mm		23307.1	23307.5	
 Sky Drilled Uniliner (hole near top)	4.0mm 6.3mm x 78.5mm		23311.1	23311.5	23311.25



Sky™ Inlet Liners

Sky™ Inlet Liners for PerkinElmer GCs




PSS Liners for PerkinElmer GCs	ID OD x Length	Similar to PE part #	ea.	cat.# 5-pk.	25-pk.
 Sky Auto SYS XL PSS Split/Splitless w/Wool	2.0mm 4.0mm x 86.2mm	N6121004	23317.1	23317.5	23317.25



Sky™ Inlet Liners for Shimadzu GCs

Split Liners for Shimadzu 17A, 2010, and 2014 GCs	ID OD x Length	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
 Sky 3.5mm Split	3.5mm 5.0mm x 95mm	221-41444-01	23318.1	23318.5	23318.25
 Sky 3.5mm Split w/Wool	3.5mm 5.0mm x 95mm		23319.1	23319.5	23319.25
 Sky 3.5mm Precision Liner w/Wool	3.5mm 5.0mm x 95mm		23320.1	23320.5	




Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs	ID OD x Length	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
 Sky 3.5mm Single Taper Gooseneck	3.5mm 5.0mm x 95mm	221-48335-01	23321.1	23321.5	23321.25
 Sky 3.5mm Single Taper Gooseneck w/Wool	3.5mm 5.0mm x 95mm		23322.1	23322.5	


Sky™ Inlet Liners for Thermo Scientific GCs

Split Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL	ID OD x Length	Similar to TS part #	ea.	cat.# 5-pk.	25-pk.
 Sky 5mm Straight	5.0mm 8.0mm x 105mm	453 20030	23323.1	23323.5	23323.25
 Sky 5mm Straight w/Wool	5.0mm 8.0mm x 105mm		23324.1	23324.5	23324.25
 Sky 5mm Precision Liner w/Wool	5.0mm 8.0mm x 105mm		23327.1	23327.5	

Splitless Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL	ID OD x Length	Similar to TS part #	ea.	cat.# 5-pk.	25-pk.
 Sky 5mm Splitless	5.0mm 8.0mm x 105mm	453 20033	23325.1	23325.5	23325.25
 Sky 5mm Splitless w/Wool	5.0mm 8.0mm x 105mm		23326.1	23326.5	23326.25

Sky™ Inlet Liners for Varian GCs

Liners for Varian 1177 S/SL Injection Ports	ID OD x Length	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 Sky 4mm Split Liner w/Glass Frit	4.0mm 6.3mm x 78.5mm		23330.1	23330.5	
 Sky 4mm Precision Liner w/Wool	4.0mm 6.3mm x 78.5mm		23328.1	23328.5	
 Sky 4mm Single Taper Gooseneck	4.0mm 6.5mm x 78.5mm	392611927	23331.1	23331.5	
 Sky 4mm Single Taper Gooseneck w/Wool	4.0mm 6.5mm x 78.5mm	392611936	23332.1	23332.5	

Liners for Varian 1078/1079 Injection Ports	ID OD x Length	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 Sky 3.4mm Split-No Frit	3.4mm 5.0mm x 54mm	392611945	23329.1	23329.5	23329.25

COLUMN INSTALLS THIS END

Measures Volumetric Flow for Gases Across a Range of 0.5-500 mL/min.

Restek ProFLOW 6000 Electronic Flowmeter

State-of-the-art features include:

- NIST traceable calibration.
- Ex rating (electrical apparatus for explosive gas atmospheres) for hydrogen and related gas types.
- Accuracy of $\pm 2\%$ of flow reading or ± 0.2 mL/min., whichever is greater.
- Over range warning indicator.
- Auto shut-off feature.
- Use as a bench-top or hand-held unit.
- Ergonomic design and side grips for comfort.
- Measures most gas types.*
- Convenient carrying/storage case included.
- Uses 2-AA batteries (included).
- Data output via USB port.
- 1-year warranty.
- Recalibration service available.

Flowmeter Facts:
 Type of flowmeter: volumetric
 Battery: 2AA
 Operating Temp. Range: 32-120°F (0-48°C)
 Warranty: one year
 Certifications: CE, Ex
 Compliance: WEEE, RoHS



Units available for immediate delivery!

Description	qty.	cat.#
Restek ProFLOW 6000 Electronic Flowmeter with Hard-Sided Carrying Case	ea.	22656
ProFLOW 6000 Recalibration Service	ea.	22656-R

*The flowmeter is designed to measure clean, dry, non-corrosive gases.

restek recommends

Recalibrate your ProFLOW 6000 Flowmeter once every year. Prolonged failure to recalibrate your unit may result in increased error. To always get the most accurate flow measurements, send in your flowmeter for recalibration (cat.# 22656-R).

Protect Your GC Column!

Restek Electronic Leak Detector

High temperature GC methods are extremely sensitive to carrier gas impurities, such as water and oxygen. Make sure you have clean carrier gas and frequently check connections and injection system fittings for leaks using a Restek electronic leak detector.

Leak Detector Facts

Detectable gases: helium, nitrogen, argon, carbon dioxide, hydrogen	Operating Temp. Range: 32°-120°F (0°-48°C)
Battery: Rechargeable Ni-MH internal battery pack (6 hours normal operation)	Humidity Range: 0-97%
	Warranty: one year
	Certifications: CE, Ex, Japan
	Compliance: WEEE, RoHS

Description	qty.	cat.#
Leak Detector with Hard-Sided Carrying Case and Universal Charger Set (US, UK, European, Australian)	ea.	22839
Leak Detector Routine Maintenance Review†	ea.	22839-R

†Routine maintenance includes inspection of the probe tip, internal/external tubing and a battery replacement.



Optional soft-side storage case is ideal for transporting or storing your flowmeter or leak detector in smaller spaces, such as your tool box.

Description	qty.	cat.#
Soft-Side Storage Case	ea.	22657

Replacement Parts

Reliably Detect VOCs With PID Lamps



Features	Benefits
Longer life.	More for your money with each lamp.
Model 108-BTEX has 33% more output than older models.	Operate continuously at 1 ma and 250 °C for 6 months and still have better than 50% of the initial output.
Lamps individually tested.	Your lamp will work to specifications.
Variety of models.	Among the best lamps for most instrumentation.

Description	eV Rating	Base	qty.	cat. #
PID Lamp, Model 103 C	10.2	1.375"	ea.	20676
PID Lamp, Model 108	10.0/10.6	0.781"	ea.	20675
PID Lamp, Model 108-BTEX	10.0/10.6	0.781"	ea.	23020
PID Lamp Polishing Kit (contains iron oxide cleaning compound, swabs, and instructions)			kit	20674

Did You Know That Restek Carries a Complete Line of ETP Electron Multipliers for Mass Spectrometry?



Description	qty.	cat. #
Electron Multipliers for Agilent GC/MS and LC/MS		
For Agilent 5970 GC/MS	ea.	23072
For Agilent 5971, 5972, GC GC/MS	ea.	23073
For Agilent 5973 & 5975 GC/MS (includes mount for initial installation)	ea.	23074
For Agilent 5973 & 5975 GC/MS and LC/MSD (Replacement Multiplier)	ea.	23075
Electron Multiplier for Applied Biosystems (Sciex)		
For API 300, 3000 & 4000 Applied Biosystems	ea.	23077
Electron Multiplier for Thermo Finnigan GC/MS		
For Thermo TRACE DSQ, DSQII, and Polaris-Q GC/MS	ea.	23081

Other ETP Electron Multipliers are available upon request. Call us or your Restek distributor if you do not see your instrument listed.

Convenient, Complete Injection Ports for Agilent GCs



restek innovation!

No more damaged gas lines!

Not available in Germany or Japan.

EZ Twist Top® Split/Splitless Injection Port for Agilent 7890 GCs

Description	qty.	cat.#
Injection Port Assembly Kit	kit	22177
Injection Port Assembly Kit, Siltek Treated	kit	22178

EZ Twist Top® Split/Splitless Injection Port for Agilent 6890/6850 GCs (for use with large canister type filter)

Description	qty.	cat.#
Injection Port Assembly Kit	kit	22735
Injection Port Assembly Kit, Siltek Treated	kit	22736

EZ Twist Top® Split/Splitless Injection Port for Agilent 6890/6850 GCs with Pencil Traps

Description	qty.	cat.#
Injection Port Assembly Kit	kit	22721
Injection Port Assembly Kit, Siltek Treated	kit	22722

EZ Twist Top® Split/Splitless Injection Port for Agilent 5890 GCs

Description	qty.	cat.#
Injection Port Assembly Kit	kit	22725
Injection Port Assembly Kit, Siltek Treated	kit	22726

Injection Port Assembly Kits include: weldment, shell weldment, 2 weldment O-rings, Siltek Dual Vespel Ring inlet seal, septum nut, reducing nut, stainless steel capillary nut for use with 1/16" ferrules, and weldment removal tool.

Injection Port Assembly Kit, Siltek Treated Kits include: weldment, Siltek shell weldment, 2 weldment O-rings, Siltek Dual Vespel Ring inlet seal, septum nut, reducing nut, stainless steel capillary nut for use with 1/16" ferrules, and weldment removal tool.

For more information on the EZ Twist Top® injector port and replacement parts, visit www.restek.com and search for EZ Twist Top.

Reversible Flip Seal™ Inlet Seals *Last Twice as Long* for the Same Price!

restek
innovation!
Patented



- Reversible design allows twice as many uses as other seals, at the same price.
- Vespel® ring embedded in top and bottom surface eliminates need for a washer.
- Highly inert gold and Siltek®-deactivated seals reduce breakdown and adsorption of active compounds, maximizing component transfer to GC column.
- Very little torque required to make seal—reduces operator variability.

0.8mm ID Flip Seal Dual Vespel Ring Inlet Seal	2-pk.	10-pk.
Gold-Plated	23407	23409
Siltek Deactivated	23408	23410
1.2mm ID Flip Seal Dual Vespel Ring Inlet Seal	2-pk.	10-pk.
Gold-Plated	23411	23413
Siltek Deactivated	23412	23414
Flip Seal Dual Vespel Ring Inlet Seal Kit	qty.	cat.#
Includes: gold-plated 0.8mm ID inlet seal, reducing nut adaptor, 1/16" SS nut	kit	23406

Note: The Flip Seal™ inlet seal requires a special reducing nut adaptor fitting, which is included in the kit. The Flip Seal™ Adaptor can be used with standard 1/16" ferrules.

For a complete product listing, visit www.restek.com/flip

Upgrade to Silcosteel® Regulators for Exceptional Inertness and Corrosion Resistance

Single and dual stage regulators are available with Silcosteel® surface treatment. This proprietary passivation process, developed by SilcoTek™, provides excellent inertness for sulfur and mercury calibration standards and improved corrosion resistance over bare 316L stainless steel or other more expensive alloys.

Silcosteel® treated sampling and transfer systems allow oil and gas exploration companies, chemical and petrochemical plants, and refineries to obtain accurate sulfur and mercury data every time with no delay, sample errors, or false readings, down to part-per-billion (ppb) levels. Analysts charged with monitoring sulfur and mercury levels in process streams can save thousands of dollars in improved yields, better test cycle times, and improved system reliability.



Applications:

- CEM Continuous Emission Monitoring
- Environmental Stack and Gas Emission Standards
- Low level sulfur and mercury analysis
- Reactive or corrosive gases
- Off-shore platform systems
- Corrosive and salt water exposure

Outlet pressure: 0 to 100 psig

Outlet gauge: 30" – 0 to 200 psig

Inlet gauge: 0 to 4000 psig

Outlet assembly: diaphragm valve, 1/4" tube fitting

Description	qty.	cat.#
Single-Stage Regulator		
CGA 330 (H ₂ S and other reduced sulfurs)	ea.	21361-5
CGA 350 (H ₂ , P ₂)	ea.	21361-6
CGA 660 (NO, NO ₂ , SO ₂)	ea.	21361-11
Dual-Stage Regulator		
CGA 330 (H ₂ S and other reduced sulfurs)	ea.	21360-2
CGA 350 (H ₂ , P ₂)	ea.	21360-7
CGA 660 (NO, NO ₂ , SO ₂)	ea.	21360-12

Our complete line of regulators can be found at
www.restek.com/regulators



21140

Agilent Compatible!

Ideal for Agilent 7673, 7683, and 7693 & other autosamplers that process 12 x 32 mm crimp-top vials.



24668



22856



23082

23084

23086

23088



23090

23094

These Vials Offer The Security of a Crimp-Top Vial With the Convenience of a Screw-Thread Vial

- Fit all 2.0 mL, 12 x 32 mm, crimp-top vial based autosamplers.
- Shorter screw cap allows the robotic autosampler to function properly.
- Wider opening prevents syringe problems.
- Dimensions are effectively identical to the crimp-top vial.

2.0 mL, 9 mm Short-Cap, Screw-Thread Vials (vial only)

Description	Volume	Color	100-pk.	1000-pk.
Short-Cap Vial w/White Graduated Marking Spot	2.0mL	Clear	21140	21141
Short-Cap Vial w/White Graduated Marking Spot	2.0mL	Amber	21142	21143
Short-Cap Vial without Graduated Marking Spot	2.0mL	Clear	21154	21155

2.0 mL, 9 mm Short-Cap, Screw-Vial Closures (Polypropylene, preassembled)

Cap Color	Liner Material	100-pk.	500-pk.	1000-pk.
Blue	PTFE/Red Rubber	24473	—	24474
Mixed	PTFE/Red Rubber	—	24668	—
Blue	PTFE/Silicone	24485	—	24486
Green	PTFE/Silicone	24487	—	24488
Yellow	PTFE/Silicone	24493	—	24494
Mixed	PTFE/Silicone	—	24669	—
Blue	PTFE/Silicone/PTFE	24497	—	24498
Black	PTFE/Silicone/PTFE	24495	—	24496
Natural	PTFE/Silicone/PTFE	24501	—	24502
Red	PTFE/Silicone/PTFE	24503	—	24504
Yellow	PTFE/Silicone/PTFE	24505	—	24506
Mixed	PTFE/Silicone/PTFE	—	24670	—

Don't Forget the Rack!

- Racks feature alphanumeric indexing for easier vial identification.
- Racks can be stacked for efficient storage.
- Fits most 2.0 mL, 12 x 32 mm vials (vials sold separately).

2.0 mL Sample Vial Racks

Description	Capacity	qty.	cat.#	qty.	cat.#
Polypropylene Storage Rack for 12 x 32mm Vials	50 vials, 5 x 10	ea.	22856	5-pk.	22857

Choose Screw-Thread Headspace Vials for Your Gerstel or CTC/LEAP Samplers

- 10 and 20 mL screw-top vials available with 18 mm screw-thread finish.
- Compatible with Gerstel and CTC/LEAP Technologies headspace samplers when used with magnetic closures.

18 mm Headspace Screw-Thread Vials (Vial Only)

Description	Volume	Color	Dimensions	100-pk.	1000-pk.
Headspace Vial	10mL	Clear	22 x 45mm	23084	23085
Headspace Vial	10mL	Amber	22 x 45mm	23088	23089
Headspace Vial	20mL	Clear	22 x 75mm	23082	23083
Headspace Vial	20mL	Amber	22 x 75mm	23086	23087

Caps not included.

18 mm Magnetic Screw-Thread Caps

Description	Septa Material	100-pk.	1000-pk.
Magnetic Caps and Septa	PTFE/Silicone	23090	23091
Magnetic Caps and Septa	PTFE/Silicone for SPME	23092	23093
Magnetic Caps and Septa	PTFE/Red Chlorobutyl	23094	23095

Crimp-Top Vials Also Available



Super Septa!

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

Restek IceBlue® Septa—Usable to 250 °C inlet temperature.

BTO® Septa*—Usable to 400 °C inlet temperature.

* Note: For 17mm injectors, the maximum temperature is 330°C. Due to the injection port temperatures, Restek recommends using only BTO® septa in Thermo Scientific instruments.

Restek Thermolite® Septa*

- Usable to 340 °C inlet temperature.
- Excellent puncturability.
- A Restek exclusive!



Septum Diameter	25-pk.	50-pk.	100-pk.
5mm (1/8")	27120	27121	27122
6mm (1/4")	27123	27124	27125
7mm	27126	27127	27128
8mm	27129	27130	27131
9mm	27132	27133	27134
9.5mm (3/8")	27135	27136	27137
10mm	27138	27139	27140
11mm (7/16")	27141	27142	27143
11.5mm	27144	27145	27146
12.7mm (1/2")	27147	27148	27149
17mm	27150	27151	27152
Shimadzu Plug	27153	27154	27155

Visit www.restek.com/septa for a complete listing.

Eliminate Septum Troubles With Merlin Microseal Septa Kits

Merlin Microseal Septa for Agilent GCs

Microseal High-Pressure Septa, 400 Series (100psi)	Merlin #	Similar to Agilent#	cat.#
Standard kit (nut, 2 septa)	404	Not offered	22810
Starter kit (nut, 1 septum)	405	5182-3442	22811
Nut kit (1 nut, fits 300 & 400 series septa)	403	5182-3445	22809
High-pressure replacement septum (1 septum)	410	5182-3444	22812

Microseal Septa, 300 Series (30psi)	Merlin #	Similar to Agilent#	cat.#
Standard kit (nut, 2 septa)	304	5181-8833	22813
Starter kit (nut, 1 septum)	305	5181-8816	22814
Microseal replacement septum (1 septum)	310	5181-8815	22815

Merlin Microseal Septa for PerkinElmer and Varian GCs

Microseal Septa for PerkinElmer & Varian GCs	Merlin#	Similar to	cat.#
Varian 1078/1079 Kit (septum cap adapter, O-ring, nut, septum)	21-11w	—	22779
Varian 1177 Kit (septum cap adapter, O-ring, nut, spacer ring, septum)	22-11w	—	22780
PerkinElmer Kit (septum cap adapter, O-ring, nut, 2 septa)	51-12w	PE# N9303344	22781
Replacement Septum for Varian and PerkinElmer Kits (1 septum)	21-01w	PE# N9303345	22782



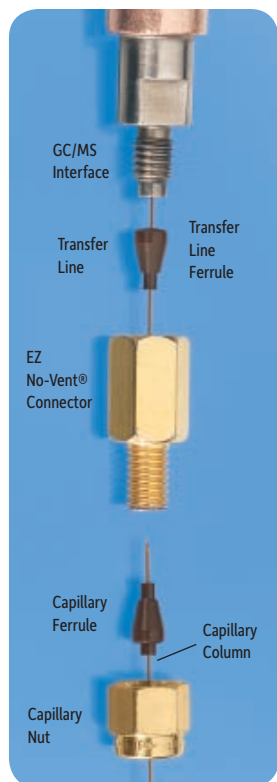
Note: Merlin Microseal septa require a 23-gauge (0.63 mm, 0.025") needle or probe with a blunt, truncated conical tip. Compatible syringes and replacement needles are available at www.restek.com



Repair and Upgrade Your Agilent GC!

Did you know that Restek, your trusted source for top-quality GC columns and accessories, also offers a whole line of innovative replacement products for Agilent GCs? From injector to detector, the GC accessory parts you need are at www.restek.com/gcacc

Get Your GC/MS Essentials Here!



EZ No-Vent® GC Column-Mass Spectrometer Connector

for Agilent GCs with 5971/5972, 5973, or 5975 GC/MS

- Change GC/MS columns in minutes without venting—100 µm transfer line maintains vacuum and eliminates the need to vent.
- Easy to install and maintain—no special tools or plumbing required.
- Gold-plated body for inertness.
- High-temperature polyimide ferrules eliminate leaks at the problematic transfer line fitting.
- Lower cost than other “no vent” fittings.

Description	qty.	cat.#
EZ No-Vent Connector Kit includes: EZ No-Vent Connector, two 0.4mm ID adaptor ferrules for capillary column, two 0.4mm ID ferrules for transfer line, 100µm deactivated transfer line (3 ft.), column plug, column nut	kit	21323
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	20-pk.	23100
Replacement EZ No-Vent Plug	5-pk.	23112
Open-End Wrenches, 1/4" x 5/16"	2-pk.	20110

For other instrument specific EZ No-Vent® connectors, visit www.restek.com

Inland 45 Pump Oil

- Recommended for optimum mass spec performance.

Description	Similar to Agilent part #	qty.	cat.#
Inland 45 Pump Oil	6040-0834	1 liter	24819



Alumaseal® Ferrules*

- Aluminum construction.
- Unique two-piece design permanently locks on fused silica tubing without causing breakage.
- Stable to 550 °C.
- Use with any 1/16" compression-type fitting.
- Will not crack or fragment.



Ferrule ID	Fits Column ID	qty.	cat.#
0.4mm	0.25mm	10-pk.	21472
0.5mm	0.32mm	10-pk.	21473
0.8mm	0.53mm	10-pk.	21474

MSD Source Nut

- 1.2 mm nut bore permits easy removal of ferrules with a standard tapered-needle file (cat.# 20106).
- Made of brass to prevent thread-stripping on the transfer line.
- Design enhances ease of threading onto the transfer line and improves overall lifetime.



Description	Similar to Agilent part #	qty.	cat.#
(Detector) MSD Source Nut	05988-20066	2-pk.	20643

GC/MS Cleaning Kit

Poor sensitivity, loss of sensitivity at high masses, or high multiplier gain during an auto tune are all indicators that your mass spectrometer source may need to be cleaned. Restek has assembled all of the necessary components for cleaning and polishing your ion source.



Description	qty.	cat.#
Mass Spec Cleaning Kit with Dremel Tool	kit	27194
Mass Spec Cleaning Kit without Dremel Tool	kit	27195
Mass Spec Cleaning Kit Replacement Parts Kit Includes: cloths, micro mesh sheets, small and large gloves	kit	27196

Scoring Wafers, Inlet Seals & Inlet Liners

Make a Clean Cut and Enhance the Performance of Your GC Column

Ceramic Scoring Wafer

Description	qty.	cat.#
Ceramic Scoring Wafers	5-pk.	20116

Scoring Wafer with Handle

Description	qty.	cat.#
Scoring Wafer with Handle	2-pk.	23015

Capillary Column Caps

- Attach to the column in seconds to form an airtight seal.
- Increase column lifetime—prevent moisture and air from entering the column during storage.

Description	Material	qty.	cat.#
Capillary Column Caps	glass	10-pk.	21044
Capillary Column Caps	silicone	10-pk.	22858



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0.8mm ID Dual Vespel Ring Inlet Seal	2-pk.	10-pk.	50-pk.
Gold-Plated	21240	21241	23418
Siltek Treated	21242	21243	23419
Stainless Steel	21238	21239	23420
1.2mm ID Dual Vespel Ring Inlet Seal	2-pk.	10-pk.	
Gold-Plated	21246	21247	
Siltek Treated	21248	21249	
Stainless Steel	21244	21245	

Learn more at www.restek.com/dvr

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- Excellent response for pesticides, phenols, and other active compounds.

Liner Type (5.2mm ID x 6.3mm OD x 78.5mm)	5-pk.	25-pk.
Cyclo/Single Gooseneck	20974	20975
Single Gooseneck	21702	21703
Cyclosplitter	20726	20729
Split/Splitless w/Deact. Wool	21700	21701



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