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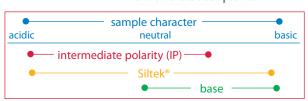
Inlet Liner Deactivation

All Restek Liners Are Deactivated for Superior Inertness

All liners are 100% deactivated

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

Restek uses unique procedures for deactivating all of our liners. Each liner is evaluated with an endrin breakdown analysis to ensure inertness. Should you need the highest level of inertness for a demanding application such as pesticide analyses, try Siltek® our proprietary deactivation. Our base deactivation is ideal for analyzing amines and other basic compounds.



Inlet Liner Deactivations Intermediate Polarity (IP) Deactivation

- Phenylmethyl-deactivated surface for better recovery of polar and nonpolar compounds.
- · Compatible with most common solvents.
- Our standard deactivation—every Restek liner is IP deactivated unless otherwise requested.

Base Deactivation

- · Excellent inertness for basic compounds.
- Recommended for use with Rtx®-5 Amine, Rtx®-35 Amine, and Stabilwax®-DB columns.



Siltek® Deactivation

- Revolutionary proprietary deactivation for difficult matrices and reactive compounds.
- · Inertness retained over a wide pH range.
- · Minimal bleed.
- Ideal for chlorinated pesticide analysis; lowers endrin breakdown to less than 1%.
- Recommended for use with Rtx®-CLPesticides, Stx™-CLPesticides, Stx™-1HT, and Rtx®-TNT columns.

For Siltek® deactivated inlet liners, add the corresponding suffix number to the liner catalog number.

			Siltel	k® Liner with	Siltek®	Liner with
qty.	qty. Siltek® Liner		Wool		CarboFrit™	
each	-214.1	addl. cost	-213.1	addl. cost	-216.1	addl. cost
5-pk.	-214.5	addl. cost	-213.5	addl. cost	-216.5	addl. cost
25-pk.	-214.25	addl. cost	-213.25	addl. cost	-216.25	addl. cost

For base-deactivated inlet liners, add the corresponding suffix number to the liner catalog number.

qty. Base-Deactivated Liner		Base-Deactivated Liner w/ Base-Deactivated Wool		Base Deactivated Liner w/CarboFrit™		
each	-210.1	addl. cost	-211.1	addl. cost	-229.1	addl. cost
5-pk.	-210.5	addl. cost	-211.5	addl. cost	-229.5	addl. cost
25-pk.	-210.25	addl. cost	-211.25	addl. cost	-229.25	addl. cost



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Inlet Liner Packing Materials

Deactivated Wool

This deactivated wool is more inert than our traditional fused silica wool, yet it is as flexible as our traditional borosilicate glass wool.



Description	qty.	cat.#
Deactivated Wool	10 grams	24324

Base-Deactivated Wool

Ideal for amines and other basic compounds.

Description	qty.	cat.#	
Base-Deactivated Wool	10 grams	20999	

Why Use Deactivated Wool for a Liner Packing?

tech

- · Ensure uniform vaporization in split or splitless liners.
- · Prolong column life by trapping septum particles.
- · Recommended for autosamplers with fast injection rates.

Mini Wool Puller/Inserter

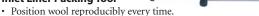
Insert and remove wool plugs easily. Order a spare pack so you'll always have one available.





Description	qty.	cat.#
Mini Wool Puller/Inserter	2-pk.	20114

Inlet Liner Packing Tool



Accurate to a specific, measured depth.

Description	qty.	cat.#
Inlet Liner Packing Tool	ea.	20339

Recommended for inlet liners with an ID ≥2mm.

Prepacked Inlet Liners

Let Restek do the work! Just add the appropriate suffix to the liner catalog number. Charge is in addition to liner cost.

qty.	Wool	FS Beads	CarboFrit [™] *	
ea.	-200.1	-201.1	-209.1	
5-pk.	-200.5	-201.5	-209.5	
25-pk.	-200.25	-201.25	-209.25	

^{*}Please note: Liners with IDs <3.5mm are difficult to pack. We will pack them on a custom basis (minimum neck ID of 2mm is required).

Injector Maintenance

tip

Approximately ninety percent of "bad" chromatography is traceable to problems in the injection port. These problems include contaminated carrier gas, incorrect injector flows, active or dirty sites on inlet seals and liners, improper use of wool, leaks, backflash, discrimination. incorrect injector temperature, poor column installation, and use of the wrong injection technique. To minimize injection port problems, set up a routine maintenance schedule and be sure to investigate the injector first when troubleshooting.



Australian Distributors

Inlet Liner Packing Materials

CarboFrit™ Inlet Liner Packing Material

- · Highly inert.
- · Extends analytical column lifetime.
- · Enhances reproducibility of split and splitless injection.
- · Uniform pore size and consistent packing density guarantee consistent flow through the liner.
- · Easy to install in any liner with an ID >3.5mm when using puller-inserter tool listed below.

Poplacoment CarboErit™ Incorte

neplacement carbornt	ilisei ts		
Description	qty.	cat. #	
Frits for liner ID ≤4mm	10-pk.	20295	
Frits for liner ID >4mm	10-pk.	20294	

For inlet liners prepacked with CarboFrit™ inserts, see page 4.

CarboFrit™ Puller/Inserter Tool

- Hook end for removing CarboFrit[™] inserts.
- Bent end (90°) for inserting CarboFrit™

miserts.			
Description	qty.	cat.#	
CarboFrit™ Puller/Inserter Tool	ea.	21642	

Deactivated Fused Silica Beads

- · Increase sample vaporization surface and minimize splitter discrimination to improve quantitation of compounds having dissimilar boiling points.
- · Trap nonvolatile or inorganic residue to prevent column inlet contamination.
- · Deactivated, heat-treated, and tested to ensure complete inertness.



Description	Mesh	qty.	cat.#	
Deactivated Fused Silica Beads	60-80	25 grams	20791	

Inlet Liner Removal Tool

- · Easily remove liner from injector—no more burned fingers.
- Made from high-temperature silicone.
- · Won't chip or crack the liner.



tech tip

Use of Packings with Splitless Liners

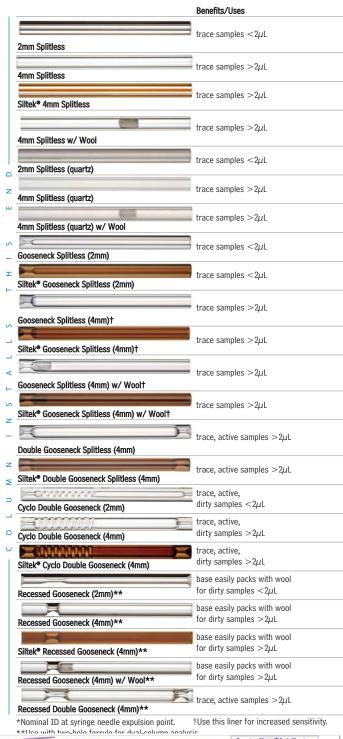
We recommend using an injection port liner with wool or CarboFrit[™] packing when making splitless injections with an autosampler. If there is no packing material in the liner, the solvent droplets act like water on a hot iron: they bounce around until vaporized (Leidenfrost phenomenon). Because autosamplers make rapid injections, samples can be incompletely vaporized, leading to nonreproducible peak response and tailing. You can prevent this by using wool or CarboFrit™ packing material in the splitless liner, to provide a surface for the solvent droplets to "sit" on until the heat from the injector vaporizes them.



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Inlet Liners for Agilent GCs

Splitless Liners



 deactivated 100%

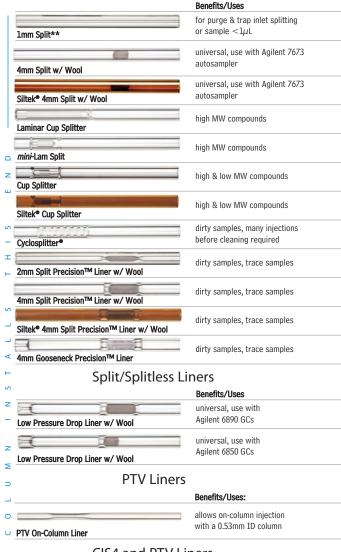
All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

10070					
	ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
	2.0 ID 6.5 OD x 78.5	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	20712	20713	20714
	4.0 ID 6.5 OD x 78.5	210-3003 (ea.) 210-3003-5 (5-pk.)	20772	20773	20774
	4.0 ID 6.5 OD x 78.5	_	20772-214.1	20773-214.5	20774-214.25
	4.0 ID 6.5 OD x 78.5	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	22400	22401	22402
	2.0 ID 6.5 OD x 78.5	18740-80220 (ea.) 5183-4707 (5-pk.)	20914	20915	_
	4.0 ID 6.5 OD x 78.5	_	20912	20913	_
	4.0 ID 6.5 OD x 78.5	_	22403	22404	_
	2.0 ID 6.5 OD x 78.5	_	20795	20796	20797
	2.0 ID 6.5 OD x 78.5	_	20795-214.1	20796-214.5	20797-214.25
	4.0 ID 6.5 OD x 78.5	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	20798	20799	20800
	4.0 ID 6.5 OD x 78.5	_	20798-214.1	20799-214.5	20800-214.25
	4.0 ID 6.5 OD x 78.5	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	22405	22406	22407
	4.0 ID 6.5 OD x 78.5	_	22405-213.1	22406-213.5	22407-213.25
	4.0 ID 6.5 OD x 78.5	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	20784	20785	20786
	4.0 ID 6.5 OD x 78.5	_	20784-214.1	20785-214.5	20786-214.25
	2.0 ID 6.5 OD x 78.5	_	20907	20908	_
	4.0 ID 6.5 OD x 78.5	_	20895	20896	20997
	4.0 ID 6.5 OD x 78.5	_	20895-214.1	20896-214.5	20997-214.25
	2.0 ID 6.5 OD x 78.5	_	20980	20981	20982
	4.0 ID 6.5 OD x 78.5	_	20983	20984	20985
	4.0 ID 6.5 OD x 78.5	_	20983-214.1	20984-214.5	20985-214.25
	4.0 ID 6.5 OD x 78.5	_	22408	22409	22410
	4.0 ID 6.5 OD x 78.5	_	20986	20987	20988



Inlet Liners for Agilent GCs

Split Liners



CIS4 and	l PTV Liners
	Benefits/Uses
Straight Glass	general use
Baffled Glass	active compounds, drugs, pesticides
Siltek® Baffled Glass	active compounds, drugs, pesticides
Glass w/ Wool	large volume injections

^{*}Nominal ID at syringe needle expulsion point.

^{**}Use this liner for increased sensitivity.



deactivated 100% All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg deactivated unless otherwise requested. See pg. 3.

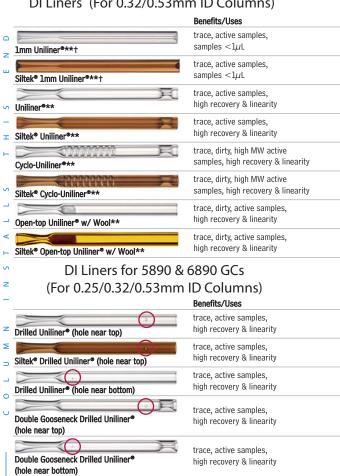
100	/U dedetivates	u unicos otner	Misc requeste	u. occ pg. o.
ID*/OD & Length (mm)	Similar to Agilent part#	ea.	cat.# 5-pk.	25-pk.
1.0 ID 6.3 OD x 78.5	18740-80200 (ea.) 5183-4709 (5-pk.)	20972	20973	
4.0 ID 6.3 OD x 78.5	19251-60540 (ea.) 5183-4691 (5-pk.)	20781	20782	20783
4.0 ID 6.3 OD x 78.5	5183-4692 (25-pk.)	20781-213.1	20782-213.5	20783-213.25
4.0 ID 6.3 OD x 78.5		20801	20802	_
4.0 ID 6.3 OD x 78.5	_	20990	20991	_
4.0 ID 6.3 OD x 78.5	18740-80190 (ea.) 5183-4699 (5-pk.)	20709	20710	_
4.0 ID 6.3 OD x 78.5		20709-214.1	20710-214.5	_
4.0 ID 6.3 OD x 78.5	_	20706	20707	20708
2.0 ID 6.3 OD x 78.5	_	20823	20824	_
4.0 ID 6.3 OD x 78.5	210-4004-5 (5-pk.)	21022	21023	20979
4.0 ID 6.3 OD x 78.5	_	21022-213.1	21023-213.5	20979-213.25
4.0 ID 6.3 OD x 78.5	210-4022-5 (5-pk.)	22983 n e	ew ! ²²⁹⁸⁴	22985
ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
4.0 ID 6.3 OD x 78.5	5183-4647 (ea.) 5183-4701 (5-pk.)	21032	21033	_
4.0 ID 6.3 OD x 78.5	5183-4711 (ea.) 5183-4712 (5-pk.) 5183-4713 (25-pk.)	20994	20995	20996
ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
1.7 ID 3.0 OD x 71	_	24976	24977 ew !	_
ID*/OD & Length (mm)	Similar to Agilent part#		cat.# 10-pk.	
2.0 ID 3.0 OD x 71	5183-2036		21157	
1.5 ID 3.0 OD x 71	5183-2037		21704	
1.5 ID 3.0 OD x 71	_		21704-214.10	
2.0 ID 3.0 OD x 71	5183-2038		21156	

Inlet Liners for Agilent GCs

SPME Liners

Benefits/Uses ideal for low-volume SPME applications SPME Liner

DI Liners (For 0.32/0.53mm ID Columns)



Hole in Drilled Uniliner® makes direct injection possible with EPC-equipped 6890 GCs!

trace, active samples, high recovery & linearity

*Nominal ID at syringe needle expulsion point.

Siltek® 1mm Drilled Uniliner® (hole near top)

- **These Uniliner® liners are for split/splitless injection ports.
- †This liner for use with 0.25, 0.32, or 0.53mm ID columns.

tech tip

Use the Drilled Uniliner® liner with the hole near the bottom for semivolatile 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.



deactivated 100%

ID*/0D &

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

cat.#

cat.#

Length (mm)	ea.	5-pk.	
0.75 ID 6.35 OD x 78.5	21110	21111	
ID*/OD & Length (mm)	cat.# ea.	cat.# 5-pk.	
1.0 ID 6.3 OD x 78.5	21052	21053	
1.0 ID 6.3 OD x 78.5	21052-214.1	21053-214.5	
4.0 ID 6.3 OD x 78.5	20335	20336	
4.0 ID 6.3 OD x 78.5	20335-214.1	20336-214.5	
4.0 ID 6.3 OD x 78.5	20337	20338	
4.0 ID 6.3 OD x 78.5	20337-214.1	20338-214.5	
4.0 ID 6.3 OD x 78.5	20843	20844	
4.0 ID 6.3 OD x 78.5	20843-213.1	20844-213.5	

	OD &	Similar to		cat.#	0E =L
4.0	h (mm)) ID) x 78.5	Agilent part # —	ea. 21054	5-pk. 21055	25-pk. 20998
) ID) x 78.5	_	21054-214.1	21055-214.5	20998-214.25
) ID) x 78.5	G1544-80730	20756	20771	_
) ID) x 78.5	_	20508	20509	_
) ID) x 78.5	G1544-80700	20954	20989	_
) ID) x 78.5	_	21390-214.1	21391-214.5	_

Siltek® Metal Inlet Liners for Agilent GCs

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

E		
_		

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/Wool	21700	21701



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O-Rings, Liner Seals & Septa

Viton® O-Rings for Agilent GCs

• Fit split (6.3mm OD) or splitless (6.5mm OD) liners.



	Max.	Similar to			
Description	temp.	Agilent part #	qty.	cat.#	
Viton® O-Rings for Agilent GCs	250°C	5180-4182	25-pk.	20377	

Graphite O-Rings for Agilent and Varian 1177 GCs

 Excellent thermal stability at injection port temperatures up to 450°C!

	Max.	Similar to	10-pk.	50-pk.
Description	temp.	Agilent part #	cat.#	cat.#
6.35mm ID Graphite				
O-rings for split liners	450°C	5180-4168	20296	20297
6.5mm ID Graphite				
O-rings for splitless liners	450°C	5180-4173	20298	20299

Liner Seals for CIS4 and PTV

	Max.	Similar to			
Description	temp.	Agilent part #*	qty.	cat.#	
Liner Seals for CIS4 and PTV	450°C	5182-9749	5-pk.	22684	

^{*}Similar to Gerstel part # 007541-005-00.

Thermolite® Septa for Agilent GCs

• Usable to 340°C inlet temperature.



Septum Diameter	25-pk.	50-pk.	100-pk.
5mm (3/16")	27120	27121	27122
9.5mm (3/8")	27135	27136	27137
10mm	27138	27139	27140
11mm (⁷ / ₁₆ ")	27141	27142	27143

IceBlue™ Septa for Agilent GCs

• Usable to 250°C inlet temperature.



Septum Diameter	50-pk.	100-pk.
9.5mm (3/8")	27158	27159
10mm	27160	27161
11mm (⁷ / ₁₆ ")	27162	27163

BTO® Septa for Agilent GCs

• Usable to 400°C inlet temperature.



Septum Diameter	50-pk.	100-pk.
5mm CenterGuide™	27100	27101
9.5mm (³ / ₈ ")	27106	27107
10mm	27108	27109
11mm (⁷ / ₁₆ ") CenterGuide™	27110	27111

did you know?

All Restek septa are precision molded to ensure a consistent, accurate fit.



Agilent Instrument	Septum Diameter (mm)
5880A, 5890, 6890, 6850, 7890, P	PTV 11
5700, 5880	9.5/10
On-Column Injection	5



Septum Nuts and Tools

Septum Puller

- · Keep several on hand in your laboratory—can be used in many different ways.
- Use hooked end for removing septa and O-rings; pointed end works well for removing stuck ferrules or fragments.

Description	qty.	cat.#
Septum Puller	ea.	20117

Knurled Septum Nuts for Agilent 5890/6890/6850/7890 GC Split/Splitless Injectors

- · Tighten easily without the use of a wrench.
- · Ensure a leak-tight injection port, increase septum lifetime, and decrease maintenance requirements.
- Thread design and needle guide allow easy penetration and prevent premature septum coring.
- · High-quality stainless steel construction.

Description	qty.	cat.#
Autosampler (for 23-gauge needles)	ea.	21479
Manual Injection (for 26-gauge needles)	ea.	21478

Septum Nuts for use with Agilent 5890/6890/6850/7890 Split/Splitless Injectors

- · Ensure a leak-tight injection port, increase septum lifetime, and decrease maintenance requirements.
- · Thread design and needle guide allow easy penetration and prevent premature septum coring.
- · Manual injection septum nut allows use of 26-gauge needles for on-column injections.
- · Made of high-quality stainless steel.

Agilent part #	qty.	cat.#
18740-60835	ea.	20631
18740-60835	ea.	21309
	18740-60835	18740-60835 ea.

Septum Nut Removal Tool for Agilent 5890/6890/6850/7890 GCs

- · Easily remove the septum nut without touching the heated nut—no more burned fingers!
- · Unique, ergonomic handle—easy to grip.

Description	qty.	cat.#
Septum Nut Removal Tool for Agilent		
5890/6890/6850/7890 GCs	ea.	24918





Injection Port Tools

Injector Wrench for Agilent 5890/6890/6850 GCs

- · Use to remove the septum nut and weldments during GC maintenance.
- · High-quality stainless steel construction.
- · Meets original equipment performance.

Description	Similar to Agilent part #	qty.	cat.#	
Injector Wrench for Agilent				
5890/6890/6850 GCs	19251-00100	ea.	22065	

Injection Port Repair Tool for Agilent Split/Splitless **Injection Ports**

- · Remove contaminants, achieve a better seal.
- · Resurface critical inlet seal areas.

Description	-iddee	qty.	cat.#
Injection Port Repair Tool for Agilent Split/Splitless			
Injection Ports		ea.	21393
Replacement Sanding Disks (5 fine & 5 medium)		10-pk.	22689
Replacement Bore Brushes (one 6.5mm & one 7mm	1)	2-pk.	21353

Rethreading Tool

- · Repair worn or damaged threads in injection ports, fittings, etc.
- · Built-in guide to prevent cross-threading.

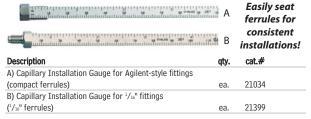


Make your injection port threads like new!

Description	qty.	cat.#
Rethreading Tool for 1/4" compression fittings		
(Agilent split/splitless injection ports)	ea.	23018

Capillary Installation Gauge

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



^{*}Recommended for use with graphite ferrules.

See pages 59-61 for ferrule selection.



Column Nuts

Capillary Column Nuts for Agilent 5890/6890/7890 GCs

Available in brass or stainless steel.





for use with "compact" Agilent-style ferrules



Description	Similar to Agilent part #	qty.	cat.#	
For use with "compact" Agilent-style ferrules.		.,,		
Stainless Steel Capillary Column Nut	5181-8830	2-pk.	21884	
Brass Capillary Column Nut	5181-8830	2-pk.	21878	
For use with standard 1/16"-type ferrules.	.*			
Stainless Steel Capillary Column Nut	05921-21170	2-pk.	20883	
Brass Capillary Column Nut	05921-21170	2-pk.	21879	
+D:				

^{*}Designed to fit a wider variety of 1/16" ferrules

Capillary Column Nuts for Agilent 6850 GCs

- · Meet or exceed original equipment performance.
- · High-quality stainless steel.

,	1	
ıty.	cat.#	
-nk	21882	

	Similar to			
Description	Agilent part #	qty.	cat.#	
Capillary Column Nuts for Agilent 6850 GCs	5183-4732	2-pk.	21882	

Finger-Tight Capillary Column Nuts

- Rapidly tighten without wrenches; avoid stripped threads.
- Either version can be used with 0.25, 0.32, or 0.53mm ID columns.



Description	qty.	cat.#	
For use with "compact" Agilent-style ferrules.			
Finger-Tight Capillary Column Nut	ea.	21311	
For use with standard ferrules.			
Finger-Tight Capillary Column Nut	ea.	21312	

Finger-Tight Capillary Column Nuts

- · Allow wrench-free column installations.
- Work with standard or compact (Agilent-style) ferrules.
- Made from high-quality stainless steel.





	Similar to			
Description	Agilent part #	qty.	cat.#	
For use with "compact" Agilent-style				
ferrules.	5020-8293			
A) Finger-Tight Capillary Column Nuts	5020-8292	2-pk.	21040	
For use with standard 1/16"-type ferrules.	5020-8293			
B) Finger-Tight Capillary Column Nuts	5020-8292	2-pk.	21041	
For use with standard 1/16"				
compression fittings.				
C) Finger-Tight Capillary Column Nuts		2-pk.	21042	



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Inlet Seals

Dual Vespel® Ring Inlet Seals for Agilent GCs

· Vespel® ring embedded in bottom surface eliminates need for washer.

restek innovation!

- · Vespel® ring embedded in top surface reduces operator variability by requiring minimal torque to seal.
- · Prevents oxygen from permeating into the carrier gas, increasing column lifetime.

In Agilent split/splitless injection ports, it can be difficult to make and maintain a good seal with a conventional metal inlet disk. The metal-tometal seal dictates that you apply considerable torque to the reducing nut, and, based on our testing, this does not ensure a leak-tight seal. Over the course of oven temperature cycling,





metal seals are prone to leaks, which ultimately can degrade the capillary column and cause other analytical difficulties.

Our patented Dual Vespel® Ring Inlet Seal greatly improves injection port performance—it stays sealed, even after repeated temperature cycles, without retightening the reducing nut! This seal features two soft Vespel® rings, one embedded in its top surface and the other embedded in its bottom surface. These rings eliminate the need for a washer, and ensure very little torque is needed to make a leak-tight seal. The rings will not harm the critical seal in the injector body, or any other surface, and are outside the sample flow path.

Why trust a metal-to-metal seal when you can make leak-tight seals quickly and easily—and more reliably—without a washer, with a Restek Dual Vespel® Ring Inlet Seal. Use a stainless steel seal for analyses of unreactive compounds. To reduce breakdown and adsorption of active compounds, use a gold-plated or Siltek®-treated seal. The gold surface offers better inertness than untreated stainless steel; Siltek® treatment provides inertness similar to that of a fused silica capillary column.

Dual Vespel® Ring Inlet Seals are available in gold plating, stainless steel, and Siltek® treated.







Patented.

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

Dual Vespel® Ring Cross-Disk Inlet Seals for Agilent GCs

· Ideal for high-flow split applications.

· Washerless, leak-tight seals.

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0.8mm ID Dual Vespel®		
Ring Cross-Disk Inlet Seal	2-pk.	10-pk.
Gold-Plated	22083	22084
Siltek® Treated	22085	22086
Stainless Steel	22087	22088





Inlet Seals

Replacement Inlet Seals with Washers

- · Special grade of stainless steel that is softer and deforms more easily, creating a better seal.
- · Increases column lifetime because oxygen cannot permeate into the carrier gas.
- · Reduced noise benefits high-sensitivity detectors (e.g., ECDs, MSDs).
- · Siltek® treatment provides inertness similar to fused silica.
- All seals include washers.

Replacement Inlet Seals for Agilent GCs

The inlet seal at the base of the Agilent 5890/6890 GC injection port contacts the sample and must be changed frequently to prevent adsorption of active compounds. In addition, septum fragments and sample residue accumulate on the disk surface, requiring disk replacement.

Single-Column Installation (0.8mm Opening)	Similar to Agilent part #	2-pk.	10-pk.
Gold-Plated	18740-20885	21317	21318
Siltek® Treated		21319	21320
Stainless Steel	18740-20880	21315	21316
0.25/0.32mm ID Dual-Column Installation (1.2mm Opening)		2-pk.	10-pk.
Gold-Plated		21305	21306
Siltek® Treated		21307	21308
Stainless Steel		20390	20391
0.53mm ID Dual-Column Installation (1/16-inch Opening)		2-pk.	10-pk.
Stainless Steel		20392	20393

Note: The 1.2mm inlet seal is recommended for use with Vespel®/graphite ferrules or when installing two columns using a two-hole ferrule.

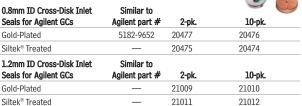
Replacement Inlet Seal Washers

	Similar to	C		
Description	Agilent part #	qty.	cat.#	
Replacement Inlet Seal Washers	5061-5869	15-pk.	21710	

Cross-Disk Inlet Seals for Agilent GCs

· Ideal for high-flow split applications on Agilent 5890 GCs.

· All seals include washers.



Silver PTV Seals for Agilent 6890 GCs

	Similar to		0	
Description	Agilent part #	qty.	cat.#	
Silver PTV Seals for Agilent 6890 GCs	5182-9763	5-pk.	21409	

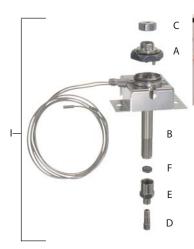


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Injection Ports

EZ Twist Top™ Split/Splitless Injection Port for Agilent GCs

- · Eliminates kinked or broken gas lines.
- · Change inlet liners faster, easier, and eliminate touching hot surfaces.
- · Excellent for Agilent 5890/6890/6850 GCs; especially advantageous with Agilent GCs equipped with autosamplers.





Gas lines are attached to the shell weldment, under the GC cover, and are not disturbed during maintenance.

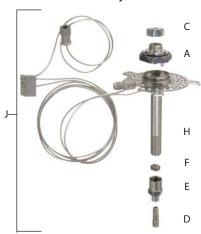


EZ Twist Top™ Split/Splitless Injection Port for Agilent 5890 GCs

Description	qty.	cat.#
I) Injection port assembly kit includes: split/		
splitless weldment, shell weldment, 2 weldment O-rings,		
Siltek® Dual Vespel® Ring inlet seal, septum nut, reducing		
nut, stainless steel capillary nut and weldment tool	kit	22725
Siltek® injection port assembly kit includes:		
Siltek® split/splitless weldment, Siltek® shell weldment,		
2 weldment O-rings, Siltek® Dual Vespel® Ring inlet seal,		
septum nut, reducing nut, stainless steel capillary nut		
and weldment tool	kit	22726
A) Split/Splitless Weldment for Agilent 5890/6890/6850 GCs		
(2 weldment O-rings are installed on the weldment)	ea.	22724
Siltek® Split/Splitless Weldment for Agilent 5890/6890/6850 GCs		
(2 weldment O-rings are installed on the weldment)	ea.	22732
B) Shell Weldment for Agilent 5890 GCs	ea.	22727
Siltek® Shell Weldment for Agilent 5890 GCs	ea.	22731
Weldment O-rings	10-pk.	22729
C) Autosampler & PTV Septum Nut (for 23-gauge needles)	ea.	20631
D) Stainless Steel Capillary Column Nut		
(for use with standard 1/16" ferrules)	2-pk.	20883
E) Reducing Nut	ea.	22078
	2-pk.	21242
F) Siltek® 0.8mm ID Dual Vespel® Ring Inlet Seal	10-pk.	21243
G) Weldment Removal Tool for Agilent 5890/6890/6850 GCs	ea.	22728

EZ Twist Top™ products not available in Germany or Japan.

Injection Ports



please note

The EZ Twist Top[™] is not compatible with the Agilent 7890 Series GC.



EZ Twist Top™ Split/Splitless Injection Port for Agilent 6890/6850 GCs

Description	qty.	cat.#
J) Injection port assembly kit includes: split/		
splitless weldment, shell weldment, 2 weldment O-rings,		
Siltek® Dual Vespel® Ring inlet seal, septum nut, reducing		
nut, stainless steel capillary nut and weldment tool	kit	22721
Siltek® injection port assembly kit includes:		
Siltek® split/splitless weldment, Siltek® shell weldment,		
2 weldment O-rings, Siltek® Dual Vespel® Ring inlet seal,		
septum nut, reducing nut, stainless steel capillary nut		
and weldment tool	kit	22722
A) Split/Splitless Weldment for Agilent 5890/6890/6850 GCs		
(2 weldment O-rings are installed on the weldment)	ea.	22724
Siltek® Split/Splitless Weldment for Agilent 5890/6890/6850 GCs		
(2 weldment O-rings are installed on the weldment)	ea.	22732
H) Shell Weldment for Agilent 6890/6850 GCs	ea.	22723
Siltek® Shell Weldment for Agilent 6890/6850 GCs	ea.	22730
Weldment O-rings	10-pk.	22729
C) Autosampler & PTV Septum Nut (for 23-gauge needles)	ea.	20631
D) Stainless Steel Capillary Column Nut		
(for use with standard 1/16" ferrules)	2-pk.	20883
E) Reducing Nut	ea.	22078
	2-pk.	21242
F) Siltek® 0.8mm ID Dual Vespel® Ring Inlet Seal	10-pk.	21243
G) Weldment Removal Tool for Agilent 5890/6890/6850 GCs	ea.	22728

tech tip

Dagovintion

Which EZ Twist Top™ should you buy?

The type of split vent trap you have connected to the EPC module/block on your 6890/6850 Agilent GC determines which EZ Twist Top™ Injection Port you need to buy.

Simply lift up the top panel on the GC and see if you have the small (pencil type) split vent filter (cat.# 22820) or if you have the large canister type filter (cat.# 23031) coming off the 3rd line of the EPC module/block. If you have the small (pencil type) split vent filter, you need the EZ Twist Top™ Injection Port for Agilent 6890/6850 GCs (cat.# 22721 or 22722). If you have the large canister filter, you'll need the EZ Twist Top™ with Optional Split Vent for Agilent 6890/6850 GCs, for use with large canister type filters (cat.# 22735 or 22736).



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Injection Ports



EZ Twist Top™ products not available in Germany or Japan.

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

Description	qty.	cat.#
Injection port assembly kit includes: split/splitless weldment, shell weldment, 2 weldment 0-rings, Siltek® Dual		
Vespel® Ring inlet seal, septum nut, reducing nut, stainless		
steel capillary nut and weldment tool	kit	22735
Siltek® injection port assembly kit includes:		
Siltek® split/splitless weldment, Siltek® shell weldment,		
2 weldment O-rings, Siltek® Dual Vespel® Ring inlet seal,		
septum nut, reducing nut, stainless steel capillary nut		
and weldment tool	kit	22736
Optional Split/Splitless Shell Weldment		
(for use with large canister type filter)	ea.	22733
Siltek® Optional Split/Splitless Shell Weldment		
(for use with large canister type filter)	ea.	22734

Replacement Viton® O-Rings for use with the Agilent Flip Top Inlet Sealing System



	Similar to			
Description	Agilent part #	qty.	cat.#	
Replacement Viton® O-Rings for use with				
the Agilent Flip Top Inlet Sealing System	5188-5366	10-pk.	22336	

Replacement Chemical Traps for Agilent GCs

- · Easy to install.
- · Attach to same fittings as original equipment.
- Built-in frits retain fine particles; adsorbents remove both moisture and hydrocarbons.





Injection Ports

Direct Replacement and Siltek® Treated Split/Splitless **Injection Ports for Agilent GCs**

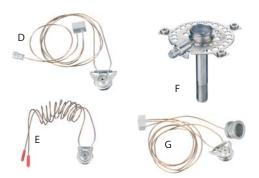
Would you like better performance from your injector? Our Siltek® treated split/splitless injector is a direct replacement for Agilent 5890 and 6890/6850 GCs, but Siltek® treatment passivates the metal surface to ensure an inert pathway for the sample, delivering increased performance. The injector is manufactured from high-quality stainless steel and meets or exceeds Agilent original equipment performance.





Direct Replacement and Siltek® Treated Split/Splitless Injection Port for Agilent 5890 GCs

	Similar to			
Description	Agilent part #	qty.	cat.#	
A) Replacement Weldment*	19251-60575	ea.	20265	
Siltek® Weldment**	19251-60575	ea.	20267	
B) Replacement Shell Weldment	19251-80570	ea.	20266	
Siltek® Shell Weldment**	19251-80570	ea.	20268	



Direct Replacement and Siltek® Treated Split/Splitless Injection Port for Agilent 6890/6850 GCs

Cimilanta			
	Similar to		
Description	Agilent part #	qty.	cat.#
D) Replacement Weldment with EPC	G1544-60575	ea.	22674
Siltek® Weldment with EPC**	G1544-60575	ea.	22672
E) Replacement Weldment*	19251-60575	ea.	20265
Siltek® Weldment**	19251-60575	ea.	20267
F) Replacement Shell Weldment	G1544-80570	ea.	22673
Siltek® Shell Weldment**	G1544-80570	ea.	22671
G) Optional Split/Splitless Weldment			
(for use with large canister type filter)	G1544-60585	ea.	22686
Siltek® Optional Split/Splitless			
Weldment** (for use with large			
canister type filter)	G1544-60585	ea.	22670
Siltek® Optional Split/Splitless Weldment** (for use with large			

^{*}For use with manual flow or EPC on Agilent 5890 GCs. For use with manual flow only on Agilent 6890/6850 GCs.

^{**}Treated with Restek's exclusive Siltek® treatment for increased inertness.



Injection Port Replacement Parts

Injection Port Weldments for Agilent GCs for use with Purge and Trap Systems

Easily attach your purge and trap with pre-installed low dead volume fittings.



For Agilent GCs with Tekmar Purge and Trap Systems

Description	qty.	cat.#
Weldment for Agilent 6890 GCs	ea.	22664
Weldment for Agilent 6890 GCs with optional canister filter	ea.	22668
A) Weldment for Agilent 5890 GCs	ea.	22666

For Agilent GCs with OI Purge and Trap Systems

Description	qty.	cat.#
B) Weldment for Agilent 6890 GCs	ea.	22665
Weldment for Agilent 6890 GCs with optional canister filter	ea.	22669
Weldment for Agilent 5890 GCs	ea.	22667

tech tip

Installing a New Weldment

To eliminate possible leaks and damage to the weldment, always replace the split vent line, nut, and ferrule when installing a new shell weldment.

EPC Test Kit for Agilent 6890 GCs

 Kit includes 3 O-rings, 2 plugs, 1 mounting screw and 1 test block.



	Similar to		y. cat.#	0
Description	Agilent part #	qty.	cat.#	
EPC Test Kit for Agilent 6890 GCs	G1530-60960*	kit	24323	

^{*}Similar to, but not exact equivalent. Kits differ in parts.

Heater Cartridge & PRT Sensor for Agilent 5890 GCs

- · Use with 5890 FID and split/splitless weldments.
- · Meets or exceeds manufacturer's performance.

A	В

	Similar to		-
Description	Agilent part #	qty.	cat.#
A + B) Injector/FID Heater +			
Injector/FID PRT Sensor	05890-61140	ea.	22068
A) Injector/FID Heater	19231-60620	ea.	22069
B) Injector/FID PRT Sensor	19231-60660	ea.	23035

Heat Sink for Agilent 5890 GC Split/Splitless Injector

• Meets or exceeds manufacturer's performance.

	Similar to		
Description	Agilent part #	qty.	cat.#
Heat Sink for Agilent 5890 GCs	18740-20940	ea.	20409

Website NEW: www.chromalytic.net.au E-mail: info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA



Replacement Parts

Heater Block Retaining Nuts for Agilent GC Split/Splitless Injectors

- · Aluminum construction.
- · Meet or exceed manufacturer's performance.



	Similar to			
Description	Agilent part #	qty.	cat.#	
Heater Block Retaining Nut				
for Agilent 5890 GCs	19251-20620	ea.	22080	
Heater Block Retaining Nut				
for Agilent 6890/6850 GCs	G1544-20590	ea.	23042	

Oven Temp Sensor Assembly





	Similar to		
Description	Agilent part #	qty.	cat.#
A) Oven Temp Sensor for Agilent 5890 GC	05890-61030	ea.	23040
B) Oven Temp Sensor for Agilent 6890 GC	G1530-61030	ea.	23039

60psig Backpressure Regulator Kit

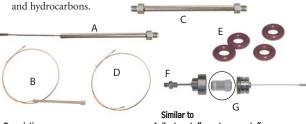
Increase the versatility of your Agilent 5890/6890 GC by replacing the existing 30psig (207kPa) backpressure regulator and gauge with our 60psig (414kPa) regulator. Enables you to use longer 60m and 105m columns as well as shorter 10m columns. Includes complete instructions.



	Similar to			
Description	Agilent part #	qty.	cat.#	
Backpressure Regulator Kit	19246-60630	kit	20634	

Replacement Chemical Traps for Agilent GCs

- · Easy to install.
- Attach to same fittings as original equipment.
- Built-in frits retain fine particles; adsorbents remove both moisture and hydrocarbons



	Similar to	(3
Description	Agilent part #	qty.	cat.#
A) Replacement Split Vent Trap			
for Agilent 6890/6850 GCs	G1544-80550	ea.	22820
B) Replacement Chemical Trap			
for Agilent 5890 GCs	05890-61260	ea.	21610
C) Replacement Chemical Trap			
for Agilent 5880 GCs	19362-60500	ea.	21158
D) Split Vent Line for Agilent GCs (32-	19251-80525		
inch) (Includes all installation hardware.)	G1544-20620	2-pk.	22800
E) O-rings for Agilent Trap Fittings	5180-4181	25-pk.	22064
F) Optional Split Vent Trap Assembly			
for Agilent 6890/6850 GCs	G1544-60610	kit	23031
G) Replacement Traps (2) and O-rings (4)	G1544-80530	kit	23032



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GC/MS Accessories

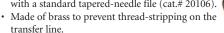
MSD Conversion Fitting

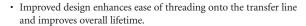
- · A flat, soft aluminum sealing ring deforms and butt-seals against the MSD interface.
- · A standard Vespel® ferrule seals the column and 1/16-inch stainless steel nut.
- · Fitting is constructed of nickel-plated brass for longevity and softness.
- Use any standard Vespel® or Vespel®/graphite 1/16-inch ferrule.
- · Includes a 1/16-inch stainless steel nut and two replacement sealing rings. Order ferrules separately.

Description	qty.	cat.#	
MSD Conversion Fitting	ea.	21314	
Replacement Ring Seal for MSD Conversion Fitting	2-pk.	21313	

MSD Source Nut

· 1.2mm nut bore permits easy removal of ferrules with a standard tapered-needle file (cat.# 20106).





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

Capillary Installation Gauge for Agilent 5973/5975 MS

- · Seats ferrules onto column for consistent installations.
- Made from high-quality stainless steel.



Description	Similar to Agilent part #	qty.	cat.#
Capillary Installation Gauge for			
Agilent 5973/5975 MS	G1099-20030	ea.	21894

Gold Tip Transfer Line

- · For use with Agilent 5971/5972 MS Systems.
- · Gold-plated for inertness.
- Meets or exceeds manufacturer's performance.



	Similar to			
Description	Agilent part #	qty.	cat.#	
Gold Tip Transfer Line	05971-20305	ea.	24699	

did you know?

Restek's line of Super-Clean™ gas filters and base plates are compatible with Agilent's Super-Clean™ gas filter system?

Visit www.restek.com for more information.



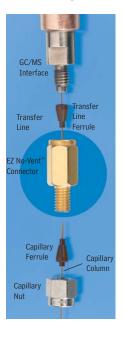


EZ No-Vent™ GC/MS Connector

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

Change columns in minutes—without venting!



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 pumpdown 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.

restek innovation!



Kit installs easily, without special tools or plumbing.

Description	qty.	cat.#
EZ No-Vent [™] Connector Kit for Agilent 5971/5972, 5973		
or 5975 GC/MS 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	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	5-pk.	21900
Replacement EZ No-Vent [™] Plug	2-pk.	21915
Open-End Wrenches (1/4" x 5/16")	2-pk.	20110

new!

Agilent GCs

Electron Multipliers

ETP Electron Multipliers for Mass Spectrometry

- · Proprietary specialized surface material resulting in very high secondary electron emission.
- · Air stable.
- · 2 year shelf life guarantee.
- · Discrete dynode design results in extended operating life.



The electron multipliers manufactured by ETP use a proprietary dynode material. This material has a number of properties that make it very suitable for use in an electron multiplier. It has very high secondary electron emission, which allows exceptional gain to be achieved from each dynode. This material is also very stable in air. In fact, an ETP multiplier can be stored for years before being used. As a direct

result of the high stability of the active materials used in ETP multipliers, they come with a 2 year shelf life warranty (stored in original sealed package). Many testing laboratories take advantage of this long shelf life by keeping a replacement ETP multiplier on hand, ready for immediate installation. This keeps the instrument down time to a minimum.

For a typical ETP electron multiplier for GC/MS, the total active dynode surface area is ~1000mm². This can be compared to a standard continuous dynode multiplier that has a total channel surface area of only around 160mm² (for a channel with 1mm diameter and 50mm length). This increased surface area spreads out the work-load of the electron multiplication process over a larger area, effectively slowing the aging process and improving operating life and gain stability.

Description	qty.	cat.#
Electron Multipliers for Agilent GC-MS and LC-MS		
For Agilent 5970 GC-MS	ea.	23072
For Agilent 5971, 5972, GCD 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
For Agilent LC-MSD		
(includes mount for initial installation)*†	ea.	23076

^{*}Note: The electron multipliers have been specifically developed to retrofit the original manufacturer's equipment. The detector incorporates a modular design to facilitate ease of replacement and additional innovations intended to enhance performance. First time installation requires a mount which includes the mechanical housing. After initial installation, only the replacement electron multiplier is required.

†This unit is designed for use in the 5975, 5973 GC and the LC/MSD.

Tool Kits

Make Life Easier (MLE) Capillary Tool Kits

Inlet and FID Maintenance Kits

- Include the most common consumable GC supplies and tools.
- · All parts meet or exceed performance by instrument manufacturer's parts.

· Parts list makes reordering easy.

Inlet kit includes:

- 0.4, 0.5, and 0.8mm ID graphite ferrules. Viton® O-rings.
- · Capillary nuts.
- · Inlet seals. · Reducing nut.
- · Scoring wafer.
- · 11mm Thermolite® septa.
- · 4.0mm single gooseneck liner.
- · 4.0mm split liner with wool.
- · Capillary column caps.
- 1/4" x 5/16" wrench.
- · Septum puller.
- · Installation gauge.
- · Wire cleaning brush.
- · Jet reamers/ferrule removers.
- · Inlet liner removal tool.
- · Septa nut removal tool.

FID kits include:

- 1/4", 0.4, 0.5, and 0.8mm ID graphite ferrules.
- FID/NPD capillary adaptor.
- · Capillary nuts.
- · Jet reamers/ferrule removers.
- 1/4" nut.
- · Scoring wafer.
- · Capillary column caps.
- · Ignitor for either Agilent 5890 or 6890/6850/7890 GCs.
- · FID flow measuring adaptor.
- 1/4" x 5/16" wrench.
- · Installation gauge.
- · Wire cleaning brush.
- · High-performance Siltek® treated FID jet for either Agilent 5890 (adaptable jet) or 6890/6850/7890 (dedicated jet)
- GCs. · Spanner wrench.
- · FID jet removal tool.



cat.# 22179

MLE Capillary Tool Kit includes:

- 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 5/16" open end wrench
- 3/8" x 7/16" open end wrench
- · rubber-tipped slide-lock tweezers
- · scoring wafers with handles
- · inlet liner removal tool
- · septum puller
- · mini wool puller/inserter 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)
- · capillary installation gauge for Agilent GCs
- · injector wrench for Agilent GCs
- · septum nut removal tool
- 7/16" x 1/2" open end wrench
- 1/2" x 9/16" open end wrench



cat.# 22186

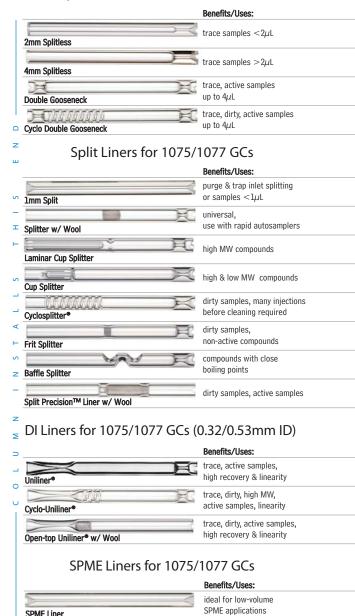
Description	qty.	cat.#
Inlet Maintenance Kit		
for Agilent 5890/6850/6890/7890 GCs	kit	22181
FID Maintenance Kit for Agilent 5890 GCs	kit	22180
FID Maintenance Kit for Agilent 6850/6890/7890 GCs	kit	22179
MLE Capillary Tool Kit for Agilent GCs	kit	22186



Australian Distributors

Inlet Liners for Varian GCs

Splitless Liners for 1075/1077 GCs



^{*}Nominal ID at syringe needle expulsion point.



All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
2.0 ID 6.3 OD x 74	190010905	20721	20722	20723
4.0 ID 6.3 OD x 74	_	20904	20905	20906
4.0 ID 6.3 OD x 74	_	20847	20848	20849
4.0 ID 6.3 OD x 74	_	20897	20898	_
ID*/OD &	Similar to		cat.#	
Length (mm)	Varian part #	ea.	5-pk.	25-pk.
1.0 ID 6.3 OD x 72	_	20970	20971	_
4.0 ID 6.3 OD x 72	190010901	20792	20793	20794
4.0 ID 6.3 OD x 72	190010902	20803	20804	_
4.0 ID 6.3 OD x 72	_	20724	20725	_
4.0 ID 6.3 OD x 72	_	20727	20728	_
4.0 ID 6.3 OD x 72	190010903	20715	20716	20717
4.0 ID 6.3 OD x 72	190010904	20718	20719	20720
4.0 ID 6.3 OD x 72	_	21030	21031	_
ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
4.0 ID 6.3 OD x 72	——————————————————————————————————————	20345	20346	
4.0 ID 6.3 OD x 72	_	20347	20348	_
4.0 ID 6.3 OD x 72	_	20845	20846	_
ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
0.75 ID 6.30 OD x 74	<u>-</u>	21112	21113	_

Inlet Liners for Varian GCs

SPI Liners for Varian GCs

Benefits/Uses: high linearity for 0.25 & 0.32mm ID columns 0.5mm SPI high linearity for 0.25 & 0.32mm ID columns Siltek® 0.5mm SPI high linearity for 0.53mm ID columns 0.8mm SPI dirty samples $>1\mu$ L, fits 0.25, 0.32 & 0.53mm ID columns SPI with Buffer Liners for 1177 GCs Benefits/Uses: universal 4mm Split w/Glass Frit universal Siltek® 4mm Split w/Glass Frit universal 4mm Split w/ Wool dirty samples, trace samples 4mm Split Precision™ Liner w/ Wool trace samples $< 2\mu L$, dirty samples Low Pressure Drop Precision™ Liner w/ Wool high MW compounds Laminar Cup Splitter trace samples < 2µL 2mm Splitless w/ Wool trace samples $< 2\mu L$ Gooseneck Splitless (4mm) trace samples < 2µL Siltek® Gooseneck Splitless (4mm) trace samples $< 2\mu L$ Gooseneck Splitless (4mm) w/ Wool trace samples $<2\mu L$ Siltek® Gooseneck Splitless (4mm) w/ Wool trace, active samples < 2µL Double Gooseneck Splitless (4mm) DI Liners for 1177 GCs

DI Liners for 1177 GCs (For 0.25/0.32/0.53mm ID Columns)

	Benefits/Uses
Drilled Uniliner® (hole near top)	trace, active samples, high recovery & linearity
Drilled Uniliner® (hole near bottom)	trace, active samples, high recovery & linearity

^{*}Nominal ID at syringe needle expulsion point.

tech tip

Use the Drilled Uniliner® liner with the hole near the bottom for semivolatile 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.



ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
0.53 ID 4.6 OD x 54	190010906	20775	20776	20777
0.53 ID 4.6 OD x 54	_	20775-214.1	20776-214.5	20777-214.25
0.80 ID 4.6 OD x 54	190010907	20778	20779	20780
2.4 ID 4.6 OD x 54	190010908	20850	20851	20852
ID*/OD & Length (mm)	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
4.0 ID 6.3 OD x 78.5	_	21045	21046	_
4.0 ID 6.3 OD x 78.5	_	21045-214.1	21046-214.5	_
4.0 ID 6.3 OD x 78.5	392611934	_	21079	_
4.0 ID 6.3 OD x 78.5	_	20759	20762	_
2.0 ID 6.3 OD x 78.5	_	22421	22422	_
4.0 ID 6.3 OD x 78.5	_	20765	20768	_
2.0 ID 6.5 OD x 78.5	392599903	_	21077	_
4.0 ID 6.5 OD x 78.5	392611927	21896	21897	_
4.0 ID 6.5 OD x 78.5	_	21896-214.1	21897-214.5	_
4.0 ID 6.5 OD x 78.5	392611936	21896-200.1	21897-200.5	
4.0 ID 6.5 OD x 78.5	_	21896-213.1	21897-213.5	_
4.0 ID 6.5 OD x 78.5	_	21891	21892	_

ID*/OD & Length (mm)	Similar to Varian part #	cat.# ea.	cat.# 5-pk.	
4.0 ID 6.3 OD x 78.5	_	21470	21471	
4.0 ID 6.3 OD x 78.5	_	21468	21469	

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

ordering note

For descriptions of liner deactivations, packings, and tools, see pages 3-5.



Australian Distributors

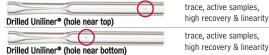
Inlet Liners for Varian GCs

Liners for 1078/1079 GCs

dirty samples, non-active compounds 1078/1079 Split w/ Frit dirty samples, non-active compounds Siltek® 1078/1079 Split w/ Frit trace samples $<2\mu L$ 1078/1079 Splitless trace samples < 2µL Siltek® 1078/1079 Splitless trace samples $<1\mu$ L Open 0.5mm ID active samples 1078/1079 Split-No Frit active samples Siltek® 1078/1079 Split-No Frit trace, low volume samples Open 0.75mm ID dirty samples, trace samples 1078/1079 Split Precision™ Liner w/ Wool DI Liners for 1078/1079 GCs

(For 0.25/0.32/0.53mm ID Columns)

Benefits/Uses



trace, active samples,

^{*}Nominal ID at syringe needle expulsion point.



All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

tech tip

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Use the Drilled Uniliner® liner with the hole near the bottom for semivolatile 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

				-	
	ID*/OD &	Similar to		cat.#	
L	ength (mm)	Varian part #	ea.	5-pk.	25-pk.
	3.4 ID	200/3304/	21708	21709	
5	5.0 OD x 54	392611946			_
	3.4 ID		21708-214.1	21709-214.5	
5	i.0 OD x 54	_			_
	2.0 ID	200/11047	21711	21712	
5	i.0 OD x 54	392611947			_
	2.0 ID		21711-214.1	21712-214.5	
5	5.0 OD x 54	_			_
	0.5 ID	200733040	20992	20993	
5	i.0 OD x 54	392611949			_
	3.4 ID	200/33045	20859	20901	20909
5	5.0 OD x 54	392611945			
	3.4 ID		20859-214.1	20901-214.5	20909-214.25
5	i.0 OD x 54	_			
	0.75 ID	200/33040	21714	21715	21716
5	i.0 OD x 54	392611948			
	3.4 ID		21024	21025	
5	5.0 OD x 54	_			_

ID*/OD & Length (mm)	Similar to Varian part #	cat.# ea.	cat.# 5-pk.	
3.5 ID 5.0 OD x 54	_	24974	24975	new!
3.5 ID 5.0 OD x 54	_	22280	22281	

ordering **note**

For descriptions of liner deactivations, packings, and tools, see pages 3-5.

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

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



Varian GCs

Septa, Nuts, and Springs

Septa for Varian GCs

Precision molding assures consistent, accurate fit.



Septum Diameter	25-pk.	50-pk.	100-pk.
Thermolite® Septa	(Usable to 340°C inlet	temperature)	
9mm	27132	27133	27134
9.5mm (3/8")	27135	27136	27137
10mm	27138	27139	27140
11mm (⁷ / ₁₆ ")	27141	27142	27143
IceBlue™ Septa	(Usable to 250°C inlet	temperature)	
9mm	_	27156	27157
9.5mm (³ / ₈ ")	_	27158	27159
10mm	_	27160	27161
11mm (⁷ / ₁₆ ")	_	27162	27163
BTO® Septa	(Usable to 400°C inlet	temperature)	
9mm CenterGuide™	<u> </u>	27104	27105
9.5mm (3/8")	_	27106	27107
10mm	<u> </u>	27108	27109
11mm (⁷ / ₁₆ ") CenterG	uide™ —	27110	27111

Injector Type

HANDY		
septum	size	chart

	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.



Septum

	Similar to		
Description	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.



	Similar to		
Description	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



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Varian GCs

Tools

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.



^{*}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 ⁵/¹₅" 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/inserter 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!

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

Rethreading Tool

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



Make your injection port threads like new!







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



Australian Distributors Importers & Manufacurers
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Varian GCs

Replacement Parts

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.



Complete kit includes splitter guide, 1/4-inch Vespel®/graphite ferrule, and a 1/16-inch nut and ferrule.

	Similar to			
Description	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.



also available

Looking for autosampler syringes?

Restek carries a full line of autosampler syringes for Varian instruments from both Hamilton and SGE

Visit www.restek.com and search on syringes.



Varian GCs



EZ No-Vent™ GC/MS Connector

EZ No-Vent™ GC Column-Mass Spectrometer Connector

- Change GC/MS columns in minutes without venting—100 μ m 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.

Change columns in minutes without venting!



Kit installs easily, without special tools or plumbing.

Description	qty.	cat.#
EZ No-Vent TM Connector Kit for Varian Saturn 2000 Series MSs Kit includes: EZ No-Vent TM Connector, two 0.4mm ID ferrules for capillary column, two 0.4mm ID ferrules for transfer line, 100 μ m deactivated transfer line (3 ft.),		
column plug, column nut.	kit	22423
Replacement ferrules for connecting capillary column to EZ No-Vent $^{\rm TM}$ 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 TM Plug	2-pk.	21915
Open-End Wrenches (1/4" x 5/16")	2-pk.	20110

Inlet Liners for Shimadzu GCs

Split Liners for 14A GCs

	Benefits/Uses:
Split	universal, for most common analyses
Cyclosplitter®	dirty samples, many injections before cleaning required
Laminar Cup Splitter	igh MW compounds
Splitless Liners for	
	Benefits/Uses: trace samples
2 3.5mm Splitless DI Liners for 14A	\ GCs
(For 0.25/0.32/0.53mm	ID Columns) Benefits/Uses
- Uniliner®	trace, active samples, high recovery & linearity
Cyclo-Uniliner®	trace, dirty, high MW active samples, high recovery & linearity
Split Liners for 17A, 2010	0, & 2014 GCs
_	Benefits/Uses:
1mm Split	purge & trap, fast GC
3.5mm Split	universal, for most common analyses
 Z Split Precision™ Liner w/ Wool 	dirty samples, trace samples
Cyclosplitter*	dirty samples, many injections before cleaning required
Splitless Liners for 17A, 20	
3.5mm Splittess	Benefits/Uses: universal, trace samples
O Double Gooseneck	reduces backflash and catalytic decomposition
Single Gooseneck	reduces backflash, also operates in DI mode
Split/Splitless Liners for 17A,	2010, & 2014 GCs
	Benefits/Uses:
Split/Splitless w/ Wool	universal, for most common analyses
Siltek® Split/Splitless w/ Wool	universal, for most common analyses

^{*}Nominal ID at syringe needle expulsion point.

ordering **note**

For descriptions of liner deactivations, packings, and tools, see pages 3-5.



ID*/OD & Length (mm)	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
3.5 ID 5.0 OD x 99	221-32544-01	20860	20861	20862
3.5 ID 5.0 OD x 99	_	20870	20871	_
3.5 ID 5.0 OD x 99	_	20868	20869	_
ID*/OD & Length (mm)	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
3.5 ID 5.0 OD x 99	221-32544-00	20863	20864	20865
ID*/0D &	Similar to		cat.#	
Length (mm)	Shimadzu part #	ea.	5-pk.	25-pk.
3.5 ID 5.0 OD x 99	_	20876	20877	_
3.5 ID 5.0 OD x 99	_	20893	20894	_
ID*/OD & Length (mm)	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
1.0 ID 5.0 OD x 95	_	20976	20977	20978
3.5 ID 5.0 OD x 95	221-41444-01	22283	22284	22285
3.5 ID 5.0 OD x 95	_	21020	21021	_
3.5 ID 5.0 OD x 95	_	22072	22073	_
ID*/OD & Length (mm)	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
3.5 ID 5.0 OD x 95	221-48335-01	22286	22287	_
3.5 ID 5.0 OD x 95	_	20958	20959	20960
3.5 ID 5.0 OD x 95	_	20961	20962	20963
ID*/OD & Length (mm)	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
3.5 ID 5.0 OD x 95	221-41444-00	20955	20956	20957
3.5 ID		20955-213.1	20956-213.5	20957-213.25

100% deactivated

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.



Australian Distributors

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Inlet Liners for Shimadzu GCs

SPME Liner for 17A, 2010, & 2014 GCs

Benefits/Uses

ideal for low volume SPME applications SPME Liner DI Liners for 17A, 2010, & 2014 GCs (For 0.25/0.32/0.53mm ID Columns) Renefits/Hses trace, dirty, high MW active samples, high recovery & linearity Uniliner® w/ Wool trace, active samples, high recovery & linearity Open-top Drilled Uniliner® (hole near top) trace, active samples, high recovery & linearity Open-top Drilled Uniliner® (hole near bottom) trace, active samples, high recovery & linearity Gooseneck Drilled Uniliner® (hole near top) trace, active samples, high recovery & linearity Gooseneck Drilled Uniliner® (hole near bottom)

ordering **note**

For descriptions of liner deactivations, packings, and tools, see pages 3-5.

Liners for 17A PTV GCs



All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

Benefits/Uses trace, dirty, high & low MW active samples

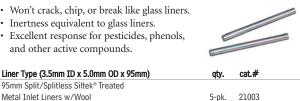
tech tip

DI Liners for Shimadzu GCs

Use the Drilled Uniliner® liner with the hole near the bottom for semivolatile 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 Shimadzu GCs

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





¹⁷A PTV Liner w/ Wool *Nominal ID at syringe needle expulsion point.

ID*/OD &	Similar to	cat.#		
Length (mm)	Shimadzu part #	ea.	5-pk.	25-pk.
.75 ID		22278	22279	
5 0 OD v 95	_			

ID*/OD &	Similar to		cat.#	
Length (mm)	Shimadzu part #	ea.	5-pk.	25-pk.
3.5 ID		21713	21719	
5.0 OD x 95	_			_
3.5 ID	_	21285	21286	_
5.0 OD x 95				
3.5 ID		21287	21288	
5.0 OD x 95	_			_
3.5 ID	_	21289	21290	_
5.0 OD x 95				
3.5 ID		21291	21292	
5.0 OD x 95	_			_
ID*/OD &	Similar to		cat.#	
Length (mm)	Shimadzu part #	ea.	5-pk.	25-pk.
1.6 ID		21705	21706	21707
4.0 OD x 95	225-09212-01			

5mm Ferrules for Shimadzu 17A GCs

- · For use with packed columns.
- · Graphite composition.



Description	qty.	cat.#
5mm Ferrules for Shimadzu 17A GCs	10-pk.	21121

Viton® O-Rings for Shimadzu 17A, 2010, and 2014 GCs



	Max.	Similar to		
Description	temp.	Shimadzu part #	qty.	cat.#
Viton® O-Rings for Shimadzu				
17A, 2010, and 2014 GCs	250°C	036-11203-84	10-pk.	21477

Graphite O-Rings for Shimadzu 17A, 2010, and 2014 GCs



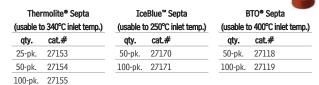
Description	Max. temp.	Similar to Shimadzu part #	qty.	cat.#	
Graphite O-Rings					
for Split Liners	450°C	221-48393-91	5-pk.	20243	
Graphite O-Rings					
for Splitless Liners	450°C	221-47222-91	5-pk.	20244	



Shimadzu GCs

Inlet Supplies

Plug Septa for Shimadzu GCs



Septum Nut for Shimadzu 17A, 2010, and 2014 GCs

· One piece design for ease of installation and removal.

· Made of clear anodized aluminum and high-quality stainless steel.

•	(P	
	VIII		1
	400		Her

	Jillilai W			
Description	Shimadzu part #	qty.	cat.#	
Septum Nut for Shimadzu 17A, 2010,	221-41286-00			
and 2014 GCs	221-44584-00	ea.	22079	

Injector Nut Kit for Shimadzu 17A, 2010, and 2014 GCs

· Includes 17A injector nut, 0.4mm graphite ferrule, and 1/16-inch stainless steel capillary nut.



Description	qty.	cat.#
Injector Nut Kit for Shimadzu 17A, 2010, and 2014 GCs	kit	21895
Siltek® Treated Injector Nut Kit for Shimadzu 17A, 2010,		
and 2014 GCs	kit	22331

Capillary Nut for Shimadzu 17A, 2010, and 2014 GCs

· Meets manufacturer's performance.



	Similar to		
Description	Shimadzu part #	qty.	cat.#
Capillary Nut for Shimadzu 17A, 2010,			
and 2014 GCs	221-41533-00	2-pk.	22688

Restek Enhanced Capillary Nut for Shimadzu 17A, 2010, and 2014 GCs

· Restek's design eliminates the slot, increasing lifetime and durability.



· Meets or exceeds manufacturer's performance.

Description	Similar to Shimadzu part #	qty.	cat.#
Restek Enhanced Capillary Nut for			
Shimadzu 17A 2010 and 2014 GCs	221-41533-00	2-pk.	20375

5mm Stainless Steel Uniliner® Liner Adaptor Fitting for Shimadzu Packed Column GCs

This specially-designed fitting allows a Shimadzu packed column injection port



to accept 0.53mm ID columns. Use a Shimadzu 5mm nut and ferrule to install the adaptor fitting into the injection port. Includes a 1/16-inch nut and 0.8mm ID graphite ferrule.

Description	qty.	cat.#
5mm Stainless Steel Uniliner® Liner Adaptor Fitting for		
Shimadzu Packed Column GCs	ea.	20312



Shimadzu GCs

Tools

Injector Wrench for Shimadzu 17A, 2010, and 2014 GCs

- Designed specifically for removing Shimadzu injection ports.
- High-quality stainless steel construction.



	Similar to			
Description	Shimadzu part #	qty.	cat.#	
Injector Wrench for Shimadzu 17A,				
2010, and 2014 GCs	221-46977-00	ea.	21159	

Capillary Installation Gauge for Shimadzu 17A, 2010, & 2014 GCs

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



Open-End Wrench Set for use with Shimadzu 17A, 2010, and 2014 Capillary Installation Gauge



Description	qty.	cat.#	
1/4" x 5/16" and 10mm x 11mm Open-End Wrench Set			
for use with Shimadzu 17A, 2010, and 2014			
Capillary Installation Gauge	ea.	22334	

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

Includes:

- capillary installation gauge for Shimadzu GCs
- · injector wrench for Shimadzu 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 5/16" open end wrench
- 3/8" x 7/16" open end wrench
- 6mm x 7mm open end wrench
- 8mm x 10mm open end wrench
- ullet 16mm x 17mm open end wrench
- · rubber-tipped slide-lock tweezers
- scoring wafers with handlesinlet liner removal tool
- · septum puller
- · mini wool puller/inserter 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)





Website NEW: www.chromalytic.net.au E-mail: info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA



Inlet Liners for PerkinElmer GCs

Split Liners

	Benefits/Uses:
Baffle Splitter	universal, for most common analyses
Cup Splitter	high & low MW compounds
Cyclosplitter®	dirty samples, many injections before cleaning required
Auto SYS™ Splitter w/ Wool	universal for most common analyses
Siltek® Auto SYS™ Splitter w/ Wool	universal for most common analyses
Auto SYS™ Cup Splitter	high & low MW compounds
Auto SYS™ Cyclosplitter®	dirty samples, many injections before cleaning required
Auto SYS™ Laminar Cup Splitter	high MW compounds
Auto SYS™ Split Precision™ Liner w/ Wool	dirty samples, trace samples
Splitless Line	rs
	Benefits/Uses:
Splitless (2mm ID)	trace samples
Auto SYS™ Splitless	headspace & purge & trap
Auto SYS™ Splitless w/ Wool (2mm ID)	trace samples
Siltek® Auto SYS™ Splitless w/ Wool (2mm ID)	trace samples
Auto SYS™ Double Gooseneck	trace, active samples up to $4\mu L$
Auto SYS™ Cyclo Double Gooseneck	trace, dirty, active samples, up to $4\mu L$
PSS Liners	
	Benefits/Uses:
PSS Split/Splitless (1mm ID)	trace samples
Auto SYS™ XL PSS Split/Splitless w/ Wool	most common analyses
PSS Drilled Uniliner® (hole near top)	trace, active samples, high recovery & linearity
PSS Drilled Uniliner® (hole near bottom)	trace, active samples, high recovery & linearity

^{*}Nominal ID at syringe needle expulsion point.

ordering **note**

For descriptions of liner deactivations, packings, and tools, see pages 3-5.



Lengt	/OD & th (mm)	Similar to PE part #		ea.	cat.# 5-pk.	25-pk.
3.	5 ID D x 100	N6502008		20736	20737	_
	5 ID D x 100	_		20739	20740	_
	5 ID D x 100	_		20745	20746	_
	0 ID D x 92.1	N6502009		20832	20833	20834
	0 ID D x 92.1	N6502010		20832-213.1	20833-213.5	20834-213.25
	0 ID D x 92.1	N6502011		20835	20836	_
	0 ID D x 92.1	N6502012		20910	20911	_
	0 ID D x 92.1	_		20827	20828	_
	0 ID D x 92.1	N6121020		21026	21027	_
	/OD & th (mm)	Similar to PE part #		ea.	cat.# 5-pk.	25-pk.
2.	0 ID D x 100	N6502007		20730	20731	20732
	0 ID D x 92.1	N6502006		21272	21273	21274
	0 ID D x 92.1	N6121021		20829	20830	20831
6.2 0		N6121021 N6502004		20829 20829-213.1	20830 20830-213.5	20831 20831-213.25
6.2 0 2. 6.2 0 4.	D x 92.1 0 ID					
6.2 0 2. 6.2 0 4. 6.2 0	D x 92.1 0 ID D x 92.1 0 ID	N6502004		20829-213.1	20830-213.5	
6.2 0 2. 6.2 0 4. 6.2 0 4. 6.2 0	D x 92.1 0 ID D x 92.1	N6502004 N6502003 N6502005 Similar to		20829-213.1	20830-213.5 20854 20900	
6.2 0 2. 6.2 0 4. 6.2 0 4. 6.2 0 1D* Leng	D x 92.1 0 ID D x 92.1	N6502004 N6502003 N6502005		20829-213.1 20853 20899	20830-213.5 20854 20900	20831-213.25
6.2 0 2. 6.2 0 4. 6.2 0 4. 6.2 0 ID* Leng 1. 4.0 0	D x 92.1 0 ID D x 92.1 0 ID D x 92.1 0 ID D x 92.1 /OD & th (mm) 0 ID	N6502004 N6502003 N6502005 Similar to PE part #		20829-213.1 20853 20899	20830-213.5 20854 20900 cat.# 5-pk.	20831-213.25
6.2 0 2. 6.2 0 4. 6.2 0 4. 6.2 0 ID* Leng 1. 4.0 0 2. 4.0 0	D x 92.1 0 ID D x 92.1 0 ID D x 92.1 0 ID D x 92.1 /OD & th (mm) 0 ID D x 86.2 0 ID	N6502004 N6502003 N6502005 Similar to PE part # N6121006 N6121004	new!	20829-213.1 20853 20899 ea. 20738	20830-213.5 20854 20900 cat.# 5-pk. 20741	20831-213.25



All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.



Inlet Liners for PerkinElmer GCs

Zero Dilution Liners

For PerkinElmer Auto SYS™ and Clarus GCs	Benefits/Uses:
Zero Dilution Inner Liner	headspace analysis
Zero Dilution Outer Liner	headspace analysis
For PerkinElmer GCs with PSS Inlets	Benefits/Uses:
Zero Dilution Inner Liner	headspace analysis
Zero Dilution Outer Liner	headspace analysis
PTV Liners	
	Benefits/Uses:
	high linearity for
PTV Press-Tight®	0.25, 0.32, & 0.53mm ID columns
TV Injector	high linearity
DI Liners (0.32/0.53	mm ID)
	Benefits/Uses:
	trace, active samples,
Jniliner®	high recovery & linearity
yclo-Uniliner®	trace, dirty, active samples, high linearity
auto SYS™ Open-top Uniliner® w/ Wool	trace, dirty, active samples, high recovery & linearity
auto SYS™ Cyclo-Uniliner®	trace, dirty, high MW active samples, high linearity
DI Liners (For 0.32/0.53mr	n ID Columns)
·	Benefits/Uses
	trace, active samples,
	high recovery & linearity
luto SYS' ^M Drilled Uniliner [®] (hole near top)	
uto SYS™ Drilled Uniliner® (noie near top)	trace, active samples,
0	trace, active samples, high recovery & linearity
	high recovery & linearity
Auto SYS TM Drilled Unilliner® (hole near bottom) Auto SYS TM Gooseneck Drilled Unilliner®	
Auto SYS TM Drilled Uniliner® (hole near top) Auto SYS TM Drilled Uniliner® (hole near bottom) Auto SYS TM Gooseneck Drilled Uniliner® (hole near top)	high recovery & linearity trace, active samples,

tech tip

DI Liners for PerkinElmer GCs

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



ID*/OD &	Similar to		cat.#	e= :
Length (mm)	PE part #	ea.	5-pk.	25-pk.
1.0 ID 2.0 OD x 73	N1011446	22990	22991	_
2.5 ID 6.2 OD x 90	N1011445	22992	22993	_
ID*/OD & Length (mm)	Similar to PE part #	ea.	cat.# 5-pk.	25-pk.
1.0 ID 2.0 OD x 73	N1011446	22990	22991	_
2.5 ID 4.2 OD x 83	N1011447	new ! 24978	24979	_
ID*/OD & Length (mm)	Similar to PE part #	ea.	cat.# 5-pk.	25-pk.
1.0 ID 2.0 OD x 88		20733	20734	20735
1.0 ID 2.0 OD x 88	_	20742	20743	20744
ID*/OD & Length (mm)	Similar to PE part#	ea.	cat.# 5-pk.	25-pk.
3.5 ID 5.0 OD x 100	N6502018	20855	20856	_
3.5 ID 5.0 OD x 100	N6502019	20857	20858	_
4.0 ID 6.2 OD x 92.1	N6502016	20837	20838	_
4.0 ID 6.2 OD x 92.1	N6502017	20839	20840	_
ID*/OD &	Similar to	cat.#	cat.#	
Length (mm)	PE part #	ea.	5-pk.	
4.0 ID 6.2 OD x 92.1	N6121022	20819	20822	
4.0 ID 6.2 OD x 92.1	N6502013	21293	21294	
4.0 ID 6.2 OD x 92.1	N6502014	21295	21296	
4.0 ID 6.2 OD x 92.1	N6502015	21297	21298	

All liners are 100% deactivated

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

PerkinElmer GCs

Inlet Supplies

Graphite O-Rings for PerkinElmer

Auto SYS™ XL PSS	Max.	Similar to PE		,
Description	temp.	part #	qty.	cat.#
Graphite O-Rings for Perkin				
Elmer Auto SYS™ XL PSS	450°C	N610-1751	10-pk.	21475
Graphite O-Rings for Perkin				

450°C

Silicone O-Rings for PerkinElmer

Elmer Auto SYS™ XL PSS

Auto SYS™ GCs	Max.	Similar to PE		50
Description	temp.	part #	qty.	cat.#
Silicone O-Rings for				
PerkinElmer Auto SYS™ GCs	250°C	N6101374	10-pk.	20262

N610-1751

25-pk.

21476

Viton® O-Rings for PerkinElmer PSS

					-
	Max.	Similar to PE			
Description	temp.	part #	qty.	cat.#	
Viton® O-Rings for					
PerkinElmer PSS	250°C	N6101747	10-pk.	20366	

11mm Septa for PerkinElmer GCs



Septum Cap for PerkinElmer Auto SYS™ XL

- · Made of clear anodized aluminum and high-quality stainless steel.
- · Meets or exceeds manufacturer's performance.

Description	Similar to PE part #	qty.	cat.#
Septum Cap for PerkinElmer			
Auto SYS™ XL	N6100153	ea.	22322

Injector Adaptor for PerkinElmer Auto SYS™ XL

- · Made of high-quality stainless steel.
- Meet or exceed manufacturer's performance.
- · Siltek® treated version available for increased inertness.

	Similar to		
Description	PE part #	qty.	cat.#
For use with PE style capillary nuts			
A) Injector Adaptor for PerkinElmer			
Auto SYS™ XL	N6100157	ea.	22318
B) Siltek® Treated Injector Adaptor for			
PerkinElmer Auto SYS™ XL	_	ea.	22320
For use with 1/16" compression style nuts			
C) Injector Adaptor for PerkinElmer			
Auto SYS™ XL	_	ea.	22319
D) Siltek® Treated Injector Adaptor for			
DarkinElmar Auto SVSTM XI	_	69	22321



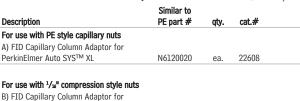
Australian Distributors Website NEW: www.chromalytic.net.au E-mail: info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

PerkinElmer GCs

FID Parts & Tools

FID Capillary Column Adaptor for PerkinElmer Auto SYS™ XL

- · Made of high-quality stainless steel.
- · Meet or exceed manufacturer's performance.



FID Replacement Parts for PerkinElmer Auto SYS™ XL and Clarus 500

· Made of high-quality stainless steel.

PerkinElmer Auto SYS™ XL

• Meet or exceed manufacturer's performance.

Description	Similar to PE part #	aty.	cat.#
FID Jet for PerkinElmer Auto SYS™ XL and	r z parc n	49.	oda,,
Clarus 500	N6100361	ea.	23038
Auto-Ignite FID Replacement Part Kit for PerkinElmer Auto SYS TM XL and Clarus 500	N6103167 N6103175 N6101085 N6001204 09912223	kit	23061
Nozzle Insulator for PerkinElmer Auto SYS TM XL and Clarus 500	N6101085	ea.	23062
FID Body for PerkinElmer Auto SYS™ XL and Clarus 500	N6100364	ea.	23063

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

Includes:

- 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 5/16" 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/inserter 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 vou need in one kit!



22609

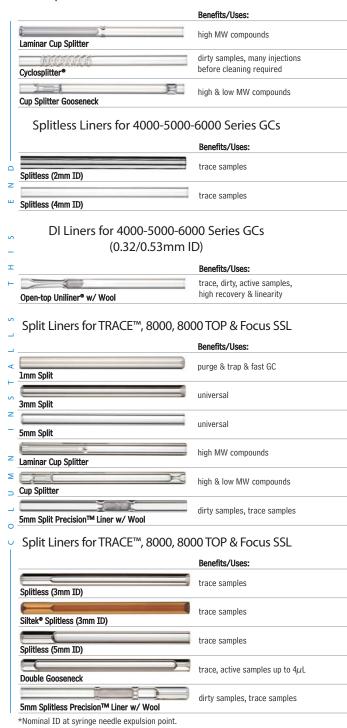
ea

Description	qty.	cat.#
MLE Capillary Tool Kit for PerkinElmer GCs	kit	22185



Inlet Liners for Thermo Scientific GCs

Split Liners for 4000-5000-6000 Series GCs



deactivated 100%

All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested. See pg. 3.

ID*/OD & Length (mm)	Similar to TF part #	ea.	cat.# 5-pk.	25-pk.
4.0 ID 5.4 OD x 79.5	_	20809	20810	_
4.0 ID 5.4 OD x 79.5	_	20817	20818	_
4.0 ID 5.4 OD x 79.5	_	20885	20886	_

ID*/OD &	Similar to		cat.#	
Length (mm)	TF part #	ea.	5-pk.	25-pk.
2.0 ID 5.4 OD x 79.5	_	20811	20812	20813
4.0 ID 5.4 OD x 79.5	_	20814	20815	20816

ID*/OD &	Similar to		cat.#	
Length (mm)	TF part #	ea.	5-pk.	25-pk.
4.0 ID 5.4 OD x 79.5	_	20841	20842	_

ID*/OD &	Similar to		cat.#	
Length (mm)	TF part #	ea.	5-pk.	25-pk.
1.0 ID 8.0 OD x 105	453 20075	20916	20917	_
3.0 ID 8.0 OD x 105	453 20030	20936	20937	20938
5.0 ID 8.0 OD x 105	453 20031	20939	20940	20941
4.0 ID 8.0 OD x 105	_	20948	20949	_
4.0 ID 8.0 OD x 105	_	20950	20951	_
5.0 ID 8.0 OD x 105	_	22288	22289	_

ID*/OD & Length (mm)	Similar to TF part #	ea.	cat.# 5-pk.	25-pk.
3.0 ID 8.0 OD x 105	453 20032	20942	20943	20944
3.0 ID 8.0 OD x 105	_	20942-214.1	20943-214.5	20944-214.25
5.0 ID 8.0 OD x 105	453 20033	20945	20946	20947
4.0 ID 8.0 OD x 105	_	20952	20953	_
5.0 ID 8.0 OD x 105	_	21028	21029	_



Inlet Liners for Thermo Scientific GCs

Split Liners for TRACE™ PTV

	Benefits/Uses:
Imm ID Glass Liner	trace samples, high recovery & linearity
✓ 2mm ID Glass Liner	universal
± Baffle Liner	trace samples
Siltek® Baffle Liner	trace samples
□	
 Split Liners for TRACE™, 8000, 8000 (0.32 & 0.53mm ID Color 	
E	
(0.32 & 0.53mm ID Colu	umns)
(0.32 & 0.53mm ID Col	umns) Benefits/Uses: trace, active samples,
(0.32 & 0.53mm ID Colo	Benefits/Uses: trace, active samples, high recovery, & linearity trace, active samples,

^{*}Nominal ID at syringe needle expulsion point.

tech tip

DI Liners for Thermo ScientificTRACE™, 8000, 8000 TOP & Focus SSL

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

Siltek® Treated Metal Inlet Liners for Thermo Scientific 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 (5.0mm ID x 8.0mm OD x 105mm)	ea.	5-pk.
5mm ID Split/Splitless Siltek® Treated Metal Inlet Liners		
w/Wool	_	21004
Liner Type (2.75mm OD x 120mm)	ea.	5-pk.
1mm ID Split/Splitless Siltek® Treated Metal Inlet Liners*	21080	21081
2mm ID Split/Splitless Siltek® Treated Metal Inlet Liners*	21082	21083
Liner Type (0.8mm ID x 2.75mm OD x 120mm)	ea.	5-pk.
SPME Siltek® Treated Metal Inlet Liner		
for TRACE™ 2000 GCs & PTV Inlets	22598	22599

^{*}Works with PTV injectors.

	/OD & th (mm)	Similar to TF part #	ea.	cat.# 5-pk.	25-pk.
	0 ID 0D x 120	453 22054	21114	21115	_
 -	0 ID D x 120	453 22045	21116	21117	_
	0 ID 0D x 120	_	22074	22075	_
	0 ID 0D x 120	_	22074-214.1	22075-214.5	_

ID*/OD & Length (mm)	Similar to TF part #	ea.	cat.# 5-pk.	25-pk.
5.0 ID 8.0 OD x 105	_	21005	21006	_
5.0 ID 8.0 OD x 105	_	22411	22412	_
5.0 ID 8.0 OD x 105	_	22413	22414	_

Graphite Sealing Ring for Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL Instruments



	Max.	Similar to TF			
Description	temp.	part #	qty.	cat.#	
Graphite Sealing Ring for					
Thermo Scientific TRACE™,					
8000, 8000 TOP & Focus SSL	450°C	290-334-06	ea.	21898	
Graphite Sealing Rings for					
Thermo Scientific TRACE™,					
8000, 8000 TOP & Focus SSL	450°C	290-334-06	2-pk.	21899	

Inlet Liner Seals for Thermo Scientific TRACE™ PTV



HORCE III	Max.	Similar to TF			
Description	temp.	part #	qty.	cat.#	
Inlet Liner Seals for Thermo					
Scientific TRACE™ PTV	450°C	29013417	2-pk.	21392	

Silver Seals for Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL



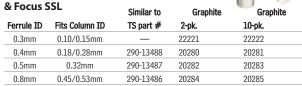


Description	Similar to TF part #	qty.	cat.#
A) Silver Seal for Split/Splitless Injector	29033629	10-pk.	23057
A) Silver Seal for Split/Splitless Injector	29033629	20-pk.	23058
B) Silver Seal for Capillary Detector			
Base Body	29037100	10-pk.	23059
B) Silver Seal for Capillary Detector			
Base Body	29037100	20-pk.	23060



Inlet Supplies

Graphite Ferrules—For M4 Fittings for Thermo Scientific TRACE™, 8000, 8000 TOP



17mm Septa for Thermo Scientific TRACE™ and Focus SSL



Septum Diameter	25-pk.	50-pk.	100-pk.
Thermolite® Septa (usable to 340°C inlet ten	np.)		
9mm	27132	27133	27134
9.5mm (3/8")	27135	27136	27137
17mm	27150	27151	27152
IceBlue™ Septa (usable to 250°C inlet ten	np.)		
9mm	_	27156	27157
9.5mm (3/8")	_	27158	27159
17mm	_	27168	27169
BTO® Septa (usable to 400°C inlet ten	np.)		
9mm CenterGuide™	_	27104	27105
9.5mm (³ / ₈ ")	<u>—</u>	27106	27107
17mm CenterGuide™	_	27116	27117

HANDY septum size chart

Instrument Septum Diameter (mm) Thermo Scientific TRACE[™] GC, GCQ w/TRACE[™], PTV, 8000 series 17 Finnigan (TMQ) GC 9001, GCQ, QCQ™, TRACE™ 2000 9.5

Septum Cap for Split/Splitless Injector on Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL



	Similar to			
Description	TS part #	qty.	cat.#	
Septum Cap for Split/Splitless Injector on				
Thermo Scientific TRACE™ and Focus SSL	350 01 050	ea.	24971	

Septa Holder Kits for Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL



· Includes septum support and holder.

· Made from high-quality stainless steel.

	6	
	qty.	cat.#
5	kit	21299

	Similar to	100	
Description	TS part #	qty.	cat.#
A) Septa Holder for Thermo Scientific	233 030 15		
TRACE™, 8000, 8000 TOP & Focus SSL	350 054 335	kit	21299
B) Silcosteel®-AC Treated Septa Holder for			
Thermo Scientific TRACE™, 8000, 8000 TOP	233 030 15		
& Focus SSL	350 054 33	kit	24972



Replacement Parts

Adapters for Capillary Columns on Thermo Scientific TRACE™ and Focus SSL

- · Use same installation distance as manufacturer's adapters.
- · Made of high-quality stainless steel.









new!

Description		Similar to TS part #	qty.	cat.#
For use with standard 1/16" ferrules.				
A) Adapter for Capillary Column				
on Detector Base		_	ea.	24916
B) Adapter for Capillary Column				
on Split/Splitless Injector		_	ea.	24917
For use with M4 ferrules.				
C) Adapter for Capillary Column	iew!			
on Detector Base		347 25 436	2-pk.	24969
D) Adapter for Capillary Column	ew!			
on Split/Splitless Injector	iew:	347 05 451	ea.	24970

Fixing Nut for Capillary Column for Split/Splitless Injector on Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL

· Made of high-quality stainless steel.

Similar to Description TS part # qty. cat.# Fixing Nut for Capillary Column for Split/Splitless Injector on Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL 350 32 423 5-pk. 24973

Nut for Terminal Fitting for Thermo Scientific TRACE™ GCs



Gold-Plated Liner Cap for Split/Splitless Injector on Thermo Scientific TRACE™, 8000, 8000 TOP &





	Jillilla to			
Description	TS part #	qty.	cat.#	
Gold-Plated Liner Cap for				
Split/Splitless Injector on Thermo				
Scientific TRACE™, 8000, 8000 TOP &				
Focus SSL	290 042 90	ea.	22089	

Cimilar to



Tools

Liner Cap Removing Tool for Thermo Scientific GCs: Focus GC / TRACE™ GC / Ultra/TRACE™ GC x GC

· Easily loosens the liner cap from the injector.

· Unique, ergonomic handle—easy to grip.

Description	Similar to TS part #	qty.	cat.#	
Liner Cap Removing Tool for Thermo				
Scientific GCs	205 070 10	ea.	24937	

Jet Removing Tool for Thermo Scientific GCs: Focus GC / TRACE™ GC / Ultra/TRACE™ GC x GC

· Unique, ergonomic handle—easy to grip.

· Easily loosens the FID jet.

Similar to	-		
TS part #	qty.	cat.#	
205 019 00	ea.	24936	
	TS part #	TS part # qty.	TS part # qty. cat.#

Capillary Installation Gauge for Thermo Scientific TRACE™ and Focus SSL (M4 Ferrules)

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



Metric Wrench Set

High-quality 6 x 7mm, 8 x 10mm, and 16 x 17mm wrenches for tightening a wide variety of fittings.



Description	qty.	cat.#
Metric Wrench Set	set	22997

Metric 9 Piece Ball-Point Hex Key Set

Includes 9 metric hex keys (Allen wrenches): 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm.





Cool Tools and Supplies

Make Life Easier (MLE) Capillary Tool Kit for Thermo Scientific GCs

Includes:

- · capillary installation gauge for Thermo Scientific GCs
- · liner cap removing tool for Thermo Scientific 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 5/16" open end wrench
- 3/8" x 7/16" open end wrench
- 6mm x 7mm open end wrench
- · 8mm x 10mm open end wrench
- · 16mm x 17mm open end wrench
- · rubber-tipped slide-lock tweezers
- · scoring wafers with handles
- · inlet liner removal tool
- · septum puller
- mini wool puller/inserter 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 kit!



Description	qty.	cat.#
MLE Capillary Tool Kit for Thermo Scientific GCs	kit	22183

Transfer Line Reducing Kit for Thermo Scientific TRACE™ and **Focus DSQ Mass Spectrometers**

· Meets or exceeds manufacturer's performance.

Description	Similar to TS part #	qty.	cat.#	
Transfer Line Reducing Kit for Thermo	76458-2014s			
Scientific TRACE™ and Focus DSQ	76458-2009s			
Mass Spectrometers	A0101-03151	kit	22082	

restek innovation

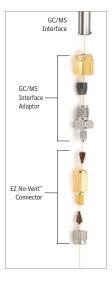
Thermo Scientific GCs

EZ No-Vent™ GC/MS Connector

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 Thermo Scientific Focus DSQ GC 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.

Change columns in minutes without venting!



Kit installs easily, without special tools or plumbing.

Description	qty.	cat.#
EZ No-Vent [™] Connector Kit for Thermo Scientific		
Focus DSQ GC Mass Spectrometers		
Kit includes: EZ No-Vent™ Connector, two 0.4mm ID		
ferrules for capillary column, two 0.4mm ID ferrules		
for transfer line, 100μ m deactivated transfer line (3 ft.),		
column plug, column nut.	kit	22454
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 100μ m 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 5/16")	2-pk.	20110
Open-End Wrenches (3/8" x 7/16")	2-pk.	22455

Ferrules

Vespel® Ferrules

- · 100% high-temperature polyimide.
- · Stable to 350°C.
- · Durable, leak-tight.

Graphite Ferrules

- · Preconditioned to eliminate out-gassing.
- · High-purity, high-density graphite.
- · Smoother surface and cleaner edges than conventional graphite ferrules.
- · Contain no binders that can off-gas or adsorb analytes.
- Stable to 450°C.

Vespel®/Graphite Ferrules

- · 60%/40% Vespel®/graphite blend, offering the best combination of sealing and ease of workability.
- · Seal with minimal torque, reusable, and preferred for vacuum and high-pressure uses.
- · Stable to 400°C.
- Recommended for mass spec transfer lines.

Capillary Ferrules—For 1/16-Inch **Compression-Type Fittings**



Vespel® ferrules



Ferrule ID	Fits Column ID	qty.	Vespel®	Graphite	Vespel®/ Graphite
0.3mm	< 0.18mm	10-pk.	22213	20233	20275
0.4mm	0.18/0.25/0.28mm	10-pk.	22214	20200	20211
0.4mm	0.18/0.25/0.28mm	50-pk.		20227	20229
0.5mm	0.32mm	10-pk.	22215	20201	20212
0.5mm	0.32mm	50-pk.	_	20228	20231
0.6mm	0.28mm**	10-pk.	_	_	20232
0.8mm	0.45/0.53mm	10-pk.	22216	20202	20213
0.8mm	0.45/0.53mm	50-pk.	_	20224	20230
1.0mm	0.75mm*	10-pk.	22217	21058	24912
1.2mm	0.75mm	10-pk.	22218	_	_
1.6mm	1.00mm*	10-pk.	_	21060	_

Encapsulated Ferrules—For 1/16-Inch Compression Fittings

- · Reusable—will not deform and stick in fittings.
- · Less torque needed to seal ferrule.
- Restek's unique blend of graphite minimizes fragmentation and outgassing.





Ferrule ID	Fits Column ID	qty.	cat.#	
0.4mm	0.25mm	10-pk.	21036	
0.5mm	0.32mm	10-pk.	21037	
0.8mm	0.53mm	10-pk.	21038	

Compact Ferrules—For Agilent 5890/6890/6850 GCs





Ferrule ID	Fits Column ID	qty.	Graphite	Vespel®/Graphite
0.4mm	0.25/0.28mm	10-pk.	20250	20238
0.4mm	0.25/0.28mm	50-pk.	20251	20239
0.5mm	0.32mm	10-pk.	21007	20248
0.5mm	0.32mm	50-pk.	21008	20249
0.8mm	0.45/0.53mm	10-pk.	20252	20263
0.8mm	0.45/0.53mm	50-pk.	20253	20264
1.0mm	0.75mm*	10-pk.	21059	21056
1.6mm	1.00mm*	10-pk.	21061	21057

^{*}For micropacked columns.

^{**}For 0.28mm MXT® columns.



Ferrules

Standard Ferrules—For 1/16-, 1/8-, and 1/4-Inch Fittings





Fitting	ng					
Size	Ferrule ID	qty.	Vespel®	Graphite	Vespel®/Graphite	
1/4"	3/ ₁₆ ^{II}	5-pk.	_	_	20258	
1/16"	1/16"	10-pk.	22210	20207	20218	
1/8"	1/8"	10-pk.	22211	20208	20219	
1/8"	reduce to 1/16"	10-pk.	_	20209	20220	
1/4"	1/4"	10-pk.	22212	20210	20221	
1/4"	reduce to 1/8"	10-pk.	22219	20225	20222	
1/4"	reduce to 1/16"	10-pk.	_	20226	20223	

Two-Hole Ferrules—For 1/8-Inch and 1/16-Inch Compression-Type Fittings



Fitting Size	Ferrule ID	Fits Column ID	qty.	Vespel®/Graphite
1/16"	0.4mm	0.25/0.28mm	5-pk.	20241
1/16"	0.5mm	0.32mm	5-pk.	20242
1/8"	0.8mm	0.45/0.53mm	5-pk.	20246

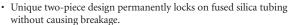
Reducing Ferrules



Fitting					9
Size	Ferrule ID	Fits Column ID	qty.	Graphite	Vespel®/Graphite
1/8"	0.4mm	0.25mm	5-pk.	20205	20254
1/8"	0.5mm	0.32mm	5-pk.	20205	20255
1/8"	0.8mm	0.53mm	5-pk.	20206	20215
1/4"	0.4mm	0.25mm	5-pk.	20203	_
1/4"	0.5mm	0.32mm	5-pk.	20203	20257
1/4"	0.8mm	0.45/0.53mm	5-pk.	20204	20217

Alumaseal™ Ferrules*

- Aluminum construction—will not crack or fragment; no more ferrule fragments in the transfer line.
- No retightening required after temperature cycles—excellent for GC/MS.
- Eliminate out-gassing, make leak-tight seals, for less detector noise.



- · Will not stick in fittings, unlike Vespel® or graphite.
- Stable to 550°C.
- Use with any 1/16" compression-type fitting.

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

^{*}Patent pending.





Ferrules

Teflon® Ferrules

- Upper temperature limit 250°C.
- · 100% Teflon®; completely inert.
- · One-piece design requires no back ferrule.



Ferrule ID	qty.	cat.#	
1/16"	10-pk.	21122	
0.4mm	10-pk.	21123	
0.5mm	10-pk.	21124	
0.8mm	10-pk.	21125	
1/8"	10-pk.	21126	
3/ ₁₆ ^{II}	10-pk.	21127	
1/4"	10-pk.	21128	
	1/12" 0.4mm 0.5mm 0.8mm 1/4"	1/16" 10-pk. 0.4mm 10-pk. 0.5mm 10-pk. 0.8mm 10-pk. 1/8" 10-pk. 1/8" 10-pk. 3/16" 10-pk.	1/12" 10-pk. 21122 0.4mm 10-pk. 21123 0.5mm 10-pk. 21124 0.8mm 10-pk. 21125 1/8" 10-pk. 21126 3/14" 10-pk. 21127

Graphite Ferrules—For M4 Fittings for Thermo Scientific TRACE™, 8000, 8000 TOP & Focus SSL





		Similar to	Graphite	Graphite
Ferrule ID	Fits Column ID	TS part #	2-pk.	10-pk.
0.3mm	0.10/0.15mm	_	22221	22222
0.4mm	0.18/0.28mm	290-13488	20280	20281
0.5mm	0.32mm	290-13487	20282	20283
0.8mm	0.45/0.53mm	290-13486	20284	20285

5mm Ferrules for Shimadzu 17A GCs

- · For use with packed columns.
- · Graphite composition.



Description	qty.	cat.#	
5mm Ferrules for Shimadzu 17A GCs	10-pk.	21121	

Blank Ferrules—For 1/16-Inch Fittings





1/16"	no hole	10-pk.	20240

tech tip

Choosing the Right Ferrule

Although graphite and Vespel®/graphite ferrules each have advantages and disadvantages, the choice of ferrule composition is largely a personal preference. Graphite ferrules are soft, easy to seal, stable to 450°C, and contain no binders that might off-gas. Vespel®/graphite ferrules work better for vacuum and high-pressure applications (e.g., GC/MS) because they will not fragment or allow oxygen to permeate into the system, whereas graphite ferrules will. Because Vespel®/graphite ferrules are made from a harder material, they might require retightening after several temperature cycles. Alumaseal™ ferrules are ideal for GC/MS. They will not crack or fragment and require no retightening after temperature cycles.

Septa

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

Thermolite® Septa

- Usable to 340°C inlet temperature.
- · Excellent puncturability.



Septum Diameter	25-pk.	50-pk.	100-pk.
5mm (3/16")	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
12.5mm (1/2")	27147	27148	27149
17mm	27150	27151	27152
Shimadzu Plug	27153	27154	27155

IceBlue™ Septa

- · Usable to 250°C inlet temperature.
- · General-purpose septa.
- · Excellent puncturability.
- · Ideal for SPME.



Septum Diameter	50-pk.	100-pk.	
9mm	27156	27157	
9.5mm (3/8")	27158	27159	
10mm	27160	27161	
11mm (⁷ / ₁₆ ")	27162	27163	
11.5mm	27164	27165	
12.5mm (1/2")	27166	27167	
17mm	27168	27169	
Shimadzu Plug	27170	27171	

BTO® Septa

- CenterGuide™ design requires less force for initial penetration.
- · Usable to 400°C inlet temperature.
- · Each batch GC-FID tested.
- Bleed and temperature optimized; ideal for demanding GC and GC/MS applications.



Septum Diameter	50-pk.	100-pk.
5mm CenterGuide™	27100	27101
6mm (1/4")	27102	27103
9mm CenterGuide™	27104	27105
9.5mm (3/8")	27106	27107
10mm	27108	27109
11mm (⁷ / ₁₆ ") CenterGuide™	27110	27111
11.5mm CenterGuide™	27112	27113
12.5mm (¹/₂") CenterGuide™	27114	27115
17mm CenterGuide™	27116	27117
Shimadzu Plug	27118	27119



Septa

Merlin Microseal Septa for Agilent GCs

- Allow operation from 2 to 100psi (400 Series) or 2 to 30psi (300 Series).
- Top wiper rib improves resistance to particulate contamination; can be taken apart for cleaning.
- High resistance to wear—greatly reduces shedding of septum particles into the injection port liner, eliminating a major source of septum bleed and ghost peaks.
- Longer life—reduces the risk of septum leaks during extended automated runs.
- Maximum temperature—Agilent 6890, 5890 Series II: 325°C; Agilent 5890A: 300°C.





Microseal High-Pressure Septa,		Similar to	
400 Series (100psi)	Merlin#	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
		Similar to	
Microseal Septa, 300 Series (30psi)	Merlin#	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

tech tip

Tips for Handling Septa

All septa, regardless of composition, puncturability, or resistance to thermal degradation will fail if they are mishandled. Overtightening a septum nut invariably will reduce septum lifetime by increasing coring/splitting. All septa contain volatile materials (e.g., phthalates) that are released when the septum is heated (septum bleed). Because most GCs are equipped with a septum purge, septum bleed generally will disappear within 30 minutes after installing a new septum and exposing it to normal injector temperatures. All Restek septa are conditioned and are ready to use without delay.



looking for gas regulators?

Restek carries ultra-high-purity gas regulators. Please visit www.restek.com.



Leak Detector

Restek Electronic Leak Detector

- · Reliable thermal conductivity leak detector.
- · Responds to leaks in less than 2 seconds.
- · Audible alarm plus LED readout.
- · Auto zeros with the touch of a button.
- · Built-in rechargeable 7.2-volt battery.



Avoid poor chromatography caused by leaks—leak check your GC system with the Restek Electronic Leak Detector, the affordable, reliable tool for detecting leaks. Features include internal battery charge capability, a low-battery indicator, a battery charge indicator light, yellow lights to signal a nitrogen leak, a repositioned on/off switch to eliminate accidentally powering on the unit, and a probe tip design that prevents debris from entering the unit. The leak detector's technology enables high sensitivity in a compact unit, the autozero feature allows instantaneous zeroing with the touch of a button, and the ergonomic design puts all controls at your fingertips, for maximum ease of use.

The Restek Electronic Leak Detector detects minute leaks of any gas with thermal conductivity different from air. The reference gas inlet draws in ambient air for comparison to air drawn into the sample probe. A thermal conductivity difference between the two indicates a leak, and the leak is revealed to the user by both an LED bar graph and an audible tone. The leak detector operates on one rechargeable 7.2-volt Ni-MH battery (included).

Leak Detector Facts

Detectable gases:	helium, nitrogen, argon, carbon dioxide
Battery:	Rechargeable Ni-MH, 7.2-volt
Operating	
Temperature Range:	32°-120°F (0°-48°C)
Humidity Range:	0-97%
CE Approved:	Yes

Description	qty.	cat.#
Leak Detector with 110Volt Battery Charger	ea.	22451
Leak Detector with 220Volt European Battery Charger	ea.	22451-EUR
Leak Detector with 220Volt UK Battery Charger	ea.	22451-UK

Caution: The Restek Electronic Leak Detector is NOT designed for determining leaks of combustible gases. A combustible gas detector should be used for determining combustible gas leaks under any condition. The Restek Electronic Leak Detector may be used for determining trace amounts of hydrogen in a GC environment only.

Leak Detector Accessory Kit

The kit includes an adaptor fitting to detect leaks in hard-to-reach locations, and a mounting bracket that can be affixed to the wall or GC.



Verify hard-to-reach leaks with the adaptor fitting.



Leak Detector is easily accessed when stored in the mounting bracket.

 Description
 qty.
 cat.#

 Leak Detector Accessory Kit (adaptor fitting for probe, mounting bracket)
 kit
 22453





Cutting Tools and Column Caps

Scoring Wafer with Handle

· Ceramic wafer is serrated on one side and straight-edged on the other to cut both fused silica and metal tubing cleanly.



· Unique, ergonomic handle is made of soft, comfortable rubber.



Hold tubing firmly in one hand, allowing about two inches to extend freely. Hold the scoring wafer at a 45° angle to the tubing. Exert just enough pressure to put a slight arc in the tubing. Pull perpendicularly across the tubing.



The tubing should fall off on its own, or it should easily break at the score with a slight tap of the wafer.



Check the cut against the white of the scoring wafer. Look for a clean, square cut.

Make clean, square cuts!

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

Ceramic Scoring Wafers

· Four straight scoring edges for cutting fused silica tubing and four serrated edges for cutting MXT® metal capillary columns.



· Sure-grip handle included.

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

Sapphire Scribe

- · Cuts fused silica tubing.
- · Produces a clean, square cut.

Description	qty.	cat.#
Sapphire Scribe	ea.	20182

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.
- · Color-coded for identifying detector and injector
- · Not recommended for reuse.

Description	qty.	cat.#
Capillary Column Caps	10-pk.	21044



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Press-Tight® Connectors

Universal Press-Tight® and "Y" Connectors

- · Connect a guard column to an analytical column, repair a broken column, or connect a column outlet to a transfer line
- · Universal "Y" connectors allow dualcolumn analysis or split a single column flow to two detectors.
- · Deactivated Press-Tight® connectors assure better recovery of polar and nonpolar compounds.
- Siltek® treated connectors are ideal for organochlorine pesticides analysis.
- Fit column ODs from 0.33-0.74mm (Restek 0.1mm-0.53mm ID).

Description	5-pk.	25-pk.
Universal Press-Tight® Connectors	20400	20401
Deactivated, Universal Press-Tight®		
Connectors	20429	20430
Siltek® Treated Universal Press-Tight®		
Connectors	20480	20449
Description	ea.	3-pk.
Universal "Y" Press-Tight® Connector	20405	20406
Deactivated Universal "Y" Press-Tight®		
Connector	20405-261	20406-261
Siltek® Treated Universal "Y"		
Press-Tight® Connector	20485	20486

Universal Angled Press-Tight® and "Y" Connectors

- Made from inert fused silica.
- · Angle approximates the curvature of a capillary column, reduces strain on column-end connections.
- · Deactivated Press-Tight® connectors assure better recovery of polar and nonpolar compounds.
- · Siltek® treated connectors are ideal for organochlorine pesticides analysis.
- · Fit column ODs from 0.33-0.74mm (Restek 0.1mm-0.53mm ID).





Description	5-pk.	25-pk.
Universal Angled Press-Tight® Connectors	20446	20447
Deactivated Universal Angled		
Press-Tight® Connectors	20446-261	20447-261
Siltek® Treated Universal Angled		
Press-Tight® Connectors	20482	20483
Description	ea.	3-pk.
Universal Angled "Y" Press-Tight®		
Connector	20403	20404
Deactivated Universal Angled "Y"		
Press-Tight® Connector	20403-261	20404-261
Siltek® Treated Universal Angled "Y"		
Press-Tight® Connector	20487	20469

Connectors

Vu2 Union™ Connectors

- · Connect a guard column to an analytical column.
- · Connect a column to a transfer line.
- · Connect two columns in series.
- · Repair a broken column.

Restek's Vu2 Union™ connector combines the simplicity of a Press-Tight® union with the strength of a metal union. The Vu2 Union™ connector reliably couples one



analytical column to another, or to a transfer line or guard column. The columns cannot unexpectedly disconnect, even at temperatures as high

Kits include: Vu2 Union™ body, 2 knurled nuts, 2 Press-Tight® unions, and 4 ferrules

Description	Ferrules Fit Column ID	qty.	cat.#
Vu2 Union™ Connector Kit	0.10/0.15mm	kit	22220
Vu2 Union™ Connector Kit	0.18/0.28mm	kit	21105
Vu2 Union™ Connector Kit	0.32mm	kit	21106
Vu2 Union™ Connector Kit	0.45/0.53mm	kit	21107
Knurled nut		2-pk.	21108

SeCure™"Y" Connector Kits

- · Connect two analytical columns to a transfer line or guard column.
- · Use standard "Y" Press-Tight® connectors and 1/16" graphite ferrules.
- · Reliable seal integrity, will not unexpectedly disconnect during temperature-programmed analyses.
- · Open design allows visual confirmation of the seal for added confidence in the connection.



Combine the simplicity of a "Y" Press-Tight® connector with the strength of a metal union. The ferrules and knurled nuts hold the fused silica tubing in place, which prevents the tubing from unexpectedly disconnecting, even at temperatures as high as 400°C.

Kits include: SeCure™ "Y" connector body, 3 knurled nuts, "Y" Universal Press-Tight® union, 3 ferrules.

Description	Ferrules Fit Column ID	qty.	cat.#
SeCure™ "Y" Connector Kit	0.18/0.25/0.28mm	kit	20276
SeCure™ "Y" Connector Kit	0.32mm	kit	20277
SeCure™ "Y" Connector Kit	0.45/0.53mm	kit	20278
Knurled nut		3-pk.	20279

GETAGRRP!

Genuine Restek Replacement Parts



In addition to the Agilent 5890, Restek offers replacement parts for most manufacturers' instruments. Use our handy Genuine Restek Replacement Parts minicatalogs to help you select the supplies and replacement parts you need for your specific GC. We have customized GRRP minicatalogs for each major instrument manufacturer to simplify your product search. Download these and other pieces from our website at www.restek.com/grrp.

- Genuine Restek Replacement Parts for Agilent GCs (lit. cat.# 59627F)
- Genuine Restek Replacement Parts for **PerkinElmer** GCs (lit. cat.# 580038)
- Genuine Restek Replacement Parts for **Shimadzu** GCs (lit. cat.# 580037)
- Genuine Restek Replacement Parts for Thermo Scientific GCs (lit. cat.# 580039)
- Genuine Restek Replacement Parts for Varian GCs (lit. cat.# 59224A)





Lit. Cat.# GNMC1004-INT

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