

# Supplies for Agilent Instruments: Inlet Liners

Splitless Liners for Agilent GCs	Benefits/Uses	ID* / OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
	trace samples <2µL	2.0 ID 6.5 OD x 78.5	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	20712	20713	20714
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	210-3003 (ea.) 210-3003-5 (5-pk.)	20772	20773	20774
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	—	20772-214.1	20773-214.5	20774-214.25
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	22400	22401	22402
	trace samples <2µL	2.0 ID 6.5 OD x 78.5	18740-80220 (ea.) 5183-4707 (5-pk.)	20914	20915	—
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	—	20912	20913	—
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	—	22403	22404	—
	trace samples <2µL	2.0 ID 6.5 OD x 78.5	—	20795	20796	20797
	trace samples <2µL	2.0 ID 6.5 OD x 78.5	—	20795-214.1	20796-214.5	20797-214.25
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	20798	20799	20800
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	—	20798-214.1	20799-214.5	20800-214.25
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	22405	22406	22407
	trace samples >2µL	4.0 ID 6.5 OD x 78.5	—	22405-213.1	22406-213.5	22407-213.25
	trace, active samples >2µL	4.0 ID 6.5 OD x 78.5	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	20784	20785	20786
	trace, active samples >2µL	4.0 ID 6.5 OD x 78.5	—	20784-214.1	20785-214.5	20786-214.25
	trace, active, dirty samples <2µL	2.0 ID 6.5 OD x 78.5	—	20907	20908	—
	trace, active, dirty samples >2µL	4.0 ID 6.5 OD x 78.5	—	20895	20896	20997
	trace, active, dirty samples >2µL	4.0 ID 6.5 OD x 78.5	—	20895-214.1	20896-214.5	20997-214.25
	base easily packs with wool for dirty samples <2µL	2.0 ID 6.5 OD x 78.5	—	20980	20981	20982
	base easily packs with wool for dirty samples >2µL	4.0 ID 6.5 OD x 78.5	—	20983	20984	20985
	base easily packs with wool for dirty samples >2µL	4.0 ID 6.5 OD x 78.5	—	20983-214.1	20984-214.5	20985-214.25
	base easily packs with wool for dirty samples >2µL	4.0 ID 6.5 OD x 78.5	—	22408	22409	22410
	trace, active samples >2µL	4.0 ID 6.5 OD x 78.5	—	20986	20987	20988

\*Nominal ID at syringe needle expulsion point.

\*\*Use with two-hole ferrule for dual-column analysis.

†Use this liner for increased sensitivity.

All liners are  
**100%**  
deactivated

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

# Supplies for Agilent Instruments: Inlet Liners

COLUMN THIS END

Split Liners for Agilent GCs	Benefits/Uses	ID*/OD & Length (mm)	Similar to Agilent part#	ea.	cat.# 5-pk.	25-pk.
1mm Split**	for purge & trap inlet splitting or sample <1µL	1.0 ID 6.3 OD x 78.5	18740-80200 (ea.) 5183-4709 (5-pk.)	20972	20973	—
4mm Split w/ Wool	universal, use with Agilent 7673 autosampler	4.0 ID 6.3 OD x 78.5	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	20781	20782	20783
Siltek® 4mm Split w/ Wool	universal, use with Agilent 7673 autosampler	4.0 ID 6.3 OD x 78.5	—	20781-213.1	20782-213.5	20783-213.25
Laminar Cup Splitter	high MW compounds	4.0 ID 6.3 OD x 78.5	—	20801	20802	—
mini-Lam Split	high MW compounds	4.0 ID 6.3 OD x 78.5	—	20990	20991	—
Cup Splitter	high & low MW compounds	4.0 ID 6.3 OD x 78.5	18740-80190 (ea.) 5183-4699 (5-pk.)	20709	20710	—
Siltek® Cup Splitter	high & low MW compounds	4.0 ID 6.3 OD x 78.5	—	20709-214.1	20710-214.5	—
Cyclosplitter®	dirty samples, many injections before cleaning required	4.0 ID 6.3 OD x 78.5	—	20706	20707	20708
2mm Split Precision™ Liner w/ Wool	dirty samples, trace samples	2.0 ID 6.3 OD x 78.5	—	20823	20824	—
4mm Split Precision™ Liner w/ Wool	dirty samples, trace samples	4.0 ID 6.3 OD x 78.5	210-4004-5 (5-pk.)	21022	21023	20979
Siltek® 4mm Split Precision™ Liner w/ Wool	dirty samples, trace samples	4.0 ID 6.3 OD x 78.5	—	21022-213.1	21023-213.5	20979-213.25
4mm Gooseneck Precision™ Liner	dirty samples, trace samples	4.0 ID 6.3 OD x 78.5	210-4022-5 (5-pk.)	22983	22984	22985
<b>new!</b>						
Split/Splitless Liners for Agilent GCs	Benefits/Uses	ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
Low Pressure Drop Liner w/ Wool	universal, use with Agilent 6890 GCs	4.0 ID 6.3 OD x 78.5	5183-4647 (ea.) 5183-4701 (5-pk.)	21032	21033	—
Low Pressure Drop Liner w/ Wool	universal, use with Agilent 6850 GCs	4.0 ID 6.3 OD x 78.5	5183-4711 (ea.) 5183-4712 (5-pk.) 5183-4713 (25-pk.)	20994	20995	20996
PTV Liners for Agilent GCs	Benefits/Uses:	ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
PTV On-Column Liner	allows on-column injection with a 0.53mm ID column	1.7 ID 3.0 OD x 71	new!	24976	24977	—
CIS4 and PTV Liners for Agilent GCs	Benefits/Uses	ID*/OD & Length (mm)	Similar to Agilent part #	cat.# 10-pk.		
Straight Glass	general use	2.0 ID 3.0 OD x 71	5183-2036		21157	
Baffled Glass	active compounds, drugs, pesticides	1.5 ID 3.0 OD x 71	5183-2037		21704	
Siltek® Baffled Glass	active compounds, drugs, pesticides	1.5 ID 3.0 OD x 71	—		21704-214.10	
Glass w/ Wool	large volume injections	2.0 ID 3.0 OD x 71	5183-2038		21156	
SPME Liners for Agilent GCs	Benefits/Uses	ID*/OD & Length (mm)	cat.# ea.	cat.# 5-pk.		
SPME Liner	ideal for low-volume SPME applications	0.75 ID 6.35 OD x 78.5		21110	21111	

\*Nominal ID at syringe needle expulsion point.

\*\*Use this liner for increased sensitivity.

# Supplies for Agilent Instruments: Inlet Liners

DI Liners for Agilent GCs (For 0.32/0.53mm ID Columns)	Benefits/Uses	ID*/OD & Length (mm)	cat.# ea.	cat.# 5-pk.
	trace, active samples, samples <1µL	1.0 ID 6.3 OD x 78.5	21052	21053
	trace, active samples, samples <1µL	1.0 ID 6.3 OD x 78.5	21052-214.1	21053-214.5
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	20335	20336
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	20335-214.1	20336-214.5
	trace, dirty, high MW active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	20337	20338
	trace, dirty, high MW active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	20337-214.1	20338-214.5
	trace, dirty, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	20843	20844
	trace, dirty, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	20843-213.1	20844-213.5

100%  
deactivated

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

DI Liners for Agilent GCs (For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses***	ID*/OD & Length (mm)	Similar to Agilent part #	cat.# ea.	cat.# 5-pk.	25-pk.
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	21054	21055	20998
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	21054-214.1	21055-214.5	20998-214.25
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	G1544-80730	20756	20771	—
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	20508	20509	—
	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	G1544-80700	20954	20989	—
	trace, active samples, high recovery & linearity	1.0 ID 6.3 OD x 78.5	—	21390-214.1	21391-214.5	—

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

\*Nominal ID at syringe needle expulsion point.

\*\*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

### Drilled Uniliner® Liners

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® 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.



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

## Supplies for Agilent Instruments: O-Rings, Liner Seals, & Septa

### Viton® O-Rings for Agilent GCs

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

Description	Max. temp.	Similar to 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!

Description	Max. temp.	Similar to Agilent part #	10-pk. cat.#	50-pk. 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

Description	Max. temp.	Similar to Agilent part #	Similar to Gerstel part #	qty.	cat.#
Liner Seals for CIS4 and PTV	450°C	5182-9749	007541-005-00	5-pk.	22684



### HANDY septum size chart

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

### Septa for Agilent GCs

- Preconditioned and ready to use.
- Packaged in precleaned glass jars.

Septum Diameter	25-pk.	50-pk.	100-pk.
<b>Thermolite® Septa (usable to 340°C inlet temp.)</b>			
5mm ( $\frac{3}{16}$ "")	27120	27121	27122
9.5mm ( $\frac{3}{8}$ ")	27135	27136	27137
10mm	27138	27139	27140
11mm ( $\frac{7}{16}$ ")	27141	27142	27143
<b>IceBlue™ Septa (usable to 250°C inlet temp.)</b>			
9.5mm ( $\frac{3}{8}$ ")	27158	27159	
10mm	27160	27161	
11mm ( $\frac{7}{16}$ ")	27162	27163	
<b>BTO® Septa (usable to 400°C inlet temp.)</b>			
5mm CenterGuide™	27100	27101	
9.5mm ( $\frac{3}{8}$ ")	27106	27107	
10mm	27108	27109	
11mm ( $\frac{7}{16}$ ) CenterGuide™	27110	27111	

Now precision  
molded!



Thermolite® Septa



IceBlue™ Septa



BTO® Septa

### also available

See page 134 for Merlin  
Microseal Septa.



### 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

# Supplies for Agilent Instruments: Septum Nuts, Injection Tools



## tech tip

Always use the Manual Injection Septum Nut (for 26-gauge needles) for on-column injections.



Make your injection port threads like new!

### 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.#
Knurled Septum Nut, Autosampler (for 23-gauge needles)	ea.	21479
Knurled Septum Nut, 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.

#### Description

	Similar to Agilent part #	qty.	cat.#
Autosampler & PTV Septum Nut (for 23-gauge needles)	18740-60835	ea.	20631
Manual Injection Septum Nut (for 26-gauge needles)	18740-60835	ea.	21309

### 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

### 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.



Use the smaller end to remove the septum nut.



Use the larger end to tighten the split/splitless weldment nut.

#### 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

	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)	2-pk.	21353

### Rethreading Tool

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



- Worn & damaged threads can allow oxygen into the system—compromising analytical results and destroying columns.
- Screw the tool completely onto the injection port in a clockwise direction. Unscrew the tool and inspect the threads, repeat as necessary. When done, wipe threads with methanol to remove any debris.

#### Description

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

# Supplies for Agilent Instruments: Column Nuts, Installation Gauge

## Capillary Column Nuts for Agilent 5890/6890/7890 GCs

Available in brass or stainless steel.



Description	Similar to Agilent part #	qty.	cat.#
<b>For use with "compact" Agilent-style ferrules.</b>			
Stainless Steel Capillary Column Nut	5181-8830	2-pk.	21884
Brass Capillary Column Nut	5181-8830	2-pk.	21878
<b>For use with standard <math>\frac{1}{16}</math>"-type ferrules.*</b>			
Stainless Steel Capillary Column Nut	05921-21170	2-pk.	20883
Brass Capillary Column Nut	05921-21170	2-pk.	21879

\*Designed to fit a wider variety of  $\frac{1}{16}$ " ferrules



for use with "compact" Agilent-style ferrules



for use with standard ferrules

## Capillary Column Nuts for Agilent 6850 GCs

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

Description	Similar to 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.#
<b>For use with "compact" Agilent-style ferrules.</b>		
Finger-Tight Capillary Column Nut	ea.	21311

### For use with standard ferrules.

Finger-Tight Capillary Column Nut	ea.	21312
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cat.# 21312

## also available

### Ferrules

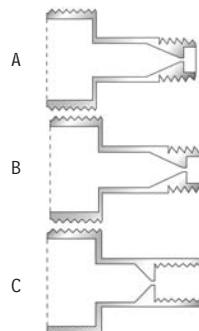
See pages 217-219 for our complete listing of ferrules.



## Finger-Tight Capillary Column Nuts

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

Description	Similar to Agilent part #	qty.	cat.#
<b>For use with "compact" Agilent-style ferrules.</b>			
A) Finger-Tight Capillary Column Nuts	5020-8293	2-pk.	21040
<b>For use with standard <math>\frac{1}{16}</math>"-type ferrules.</b>			
B) Finger-Tight Capillary Column Nuts	5020-8293	2-pk.	21041
<b>For use with standard <math>\frac{3}{16}</math>" compression fittings</b>			
C) Finger-Tight Capillary Column Nuts	5020-8292	2-pk.	21042



## Capillary Installation Gauge

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



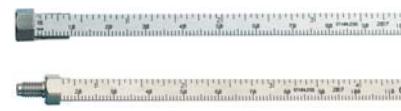
Thread...



...tighten...



...done.



Easily seat ferrules for consistent installations!

Description	qty.	cat.#
A) Capillary Installation Gauge for Agilent-style fittings (compact ferrules)	ea.	21034
B) Capillary Installation Gauge for $\frac{1}{16}$ " fittings ( $\frac{1}{16}$ " ferrules)	ea.	21399

\*Recommended for use with graphite ferrules

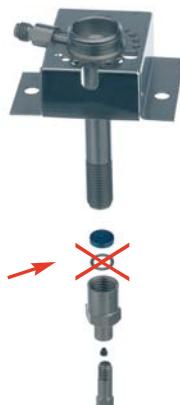
## Supplies for Agilent Instruments: Dual Vespel® Ring Inlet Seals

**restek  
innovation!**

Vespel® ring seal on top and bottom surfaces!



A Dual Vespel® Ring Inlet Seal eliminates the need for a washer!



### Dual Vespel® Ring Inlet Seals for Agilent GCs

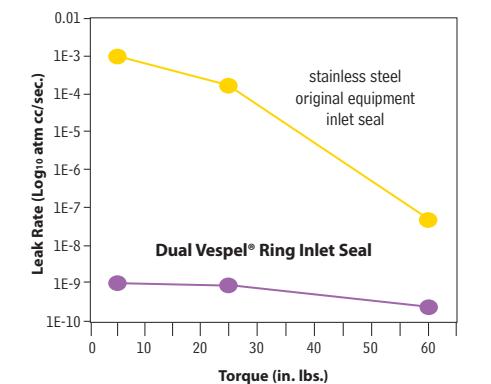
- Vespel® ring embedded in bottom surface eliminates need for washer.
- Vespel® ring embedded in top surface reduces operator variability by requiring minimal torque to seal.
- Prevents oxygen from permeating into the carrier gas, increasing column lifetime.

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-to-metal 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. Tests using a high sensitivity helium leak detector show Dual Vespel® Ring Inlet Seals will seal equally effectively at torques from 5 in. lb. to 60 in. lb. (Figure 1).

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.

**Figure 1** The Dual Vespel® Ring Inlet Seal achieves leak-tight seals even at low torque, reducing the chance of leak-related problems.



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
Stainless Steel	21244	21245

**new!**



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

- Ideal for high-flow split applications.
- Washerless, leak-tight seals.

#### 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

## Supplies for Agilent Instruments: 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.

The Restek inlet seal design increases column lifetime because oxygen cannot permeate into the carrier gas. Detector noise also is reduced with high-sensitivity detectors (e.g., ECDs or MSDs). To reduce breakdown and adsorption of active compounds, use Siltek® or gold-plated seals.

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

#### Single-Column Installation (0.8mm Opening)

Replacement Inlet Seal	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)

Replacement Inlet Seal	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)

Replacement Inlet Seal	2-pk.	10-pk.
Stainless Steel	20392	20393

All seals include washers.

### Replacement Inlet Seal Washers

Description	Similar to 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.

0.8mm ID Cross-Disk Inlet Seal for Agilent GCs	Similar to Agilent part #	2-pk.	10-pk.
Gold-Plated	5182-9652	20477	20476
Siltek® Treated	—	20475	20474
1.2mm ID Cross-Disk Inlet Seal for Agilent GCs	Similar to Agilent part #	2-pk.	10-pk.
Gold-Plated	—	21009	21010
Siltek® Treated	—	21011	21012



### Silver PTV Seals for Agilent 6890 GCs

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



## Supplies for Agilent Instruments: Injection Ports

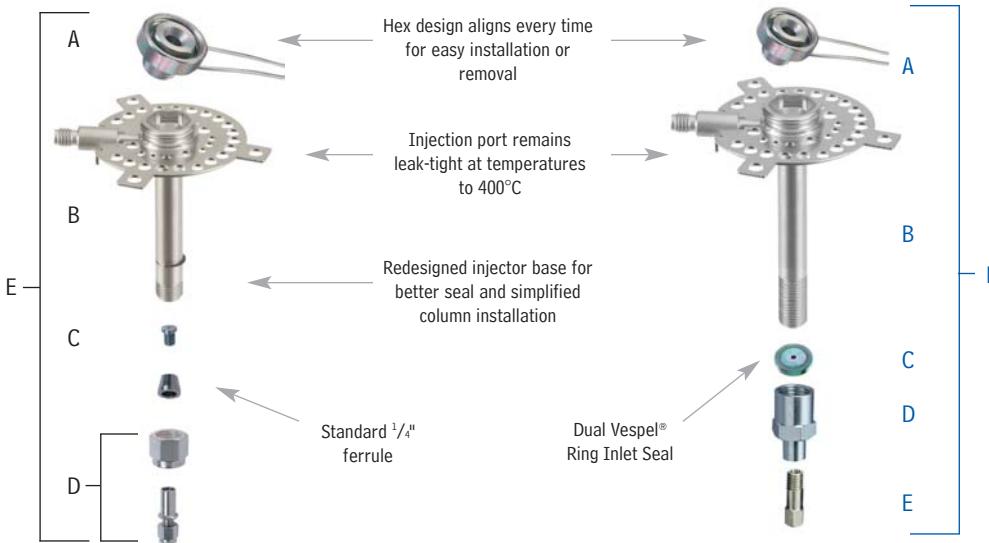
**restek  
exclusive!**

### SureFit Split/Splitless Injection Ports for Agilent 6890 GCs

#### Uses Restek Enhanced Base Fitting

(cat.# 23046)

#### Uses Manufacturer's-Style Inlet Seal and Reducing Nut (cat.# 23049)



### SureFit Split/Splitless Injection Ports for Agilent 6890 GCs

#### Uses Restek Enhanced Base Fitting

##### Description

##### qty. cat.#

##### E) Injection Port Assembly Kit

includes: \* Siltek® split/splitless weldment, Siltek® shell weldment, base fitting, Siltek® base screw, septum nut,  $\frac{1}{16}$ " and  $\frac{1}{4}$ " stainless steel nuts,  $\frac{1}{4}$ " graphite ferrule

kit 23046

A) Siltek® Split/Splitless Weldment for Restek Injection Port for 6890

ea. 23047

B) Siltek® Shell Weldment for Restek Injection Port for 6890

ea. 23048

Optional Siltek® Split/Splitless Weldment for Restek Injection Port for 6890

ea. 23051

Ferrules for split liners (6.3mm OD):  $\frac{1}{4}$ " dual-taper Vespel®/graphite

10-pk. 20290

Ferrules for splitless liners (6.5mm OD):  $\frac{1}{4}$ " dual-taper Vespel®/graphite

10-pk. 20291

C) Siltek® Base Screws for Restek Injection Port for 5890/6890

10-pk. 21631

Gold-Plated Base Screws for Restek Injection Port for 5890/6890

50-pk. 21632

Gold-Plated Base Screws for Restek Injection Port for 5890/6890

2-pk. 21629

Autosampler & PTV Septum Nut (for 23-gauge needles)

10-pk. 21630

D) Base Fitting for Restek Injection Port for 5890/6890

ea. 21626

#### Uses Manufacturer's-Style Reducing Nut and Inlet Seal

##### Description

##### qty. cat.#

##### F) Injection Port Assembly Kit

includes: \* Siltek® split/splitless weldment, Siltek® shell weldment, septum nut, Siltek® Dual Vespel® Ring Inlet Seal, Agilent-style stainless steel reducing nut, Agilent-style stainless steel capillary nut

kit 23049

A) Siltek® Split/Splitless Weldment for Restek Injection Port for 6890

ea. 23047

B) Siltek® Shell Weldment for Restek Injection Port for 6890 (uses standard Agilent inlet seals)

ea. 23050

Optional Siltek® Split/Splitless Weldment for Restek Injection Port for 6890

ea. 23051

Ferrules for split liners (6.3mm OD):  $\frac{1}{4}$ " dual-taper Vespel®/graphite

10-pk. 20290

Ferrules for splitless liners (6.5mm OD):  $\frac{1}{4}$ " dual-taper Vespel®/graphite

10-pk. 20291

Autosampler & PTV Septum Nut (for 23-gauge needles)

ea. 20631

D) Reducing Nut

ea. 22078

E) Stainless Steel Capillary Column Nut

2-pk. 21884

C) Siltek® 0.8mm ID Dual Vespel® Ring Inlet Seal

2-pk. 21242

10-pk. 21243



#### please note

Special dual-taper,  $\frac{1}{4}$ -inch ID Vespel®/graphite ferrules fit over split liners (6.3mm OD) (cat.# 20290). Ferrules with slightly enlarged ID, required for splitless liners (6.5mm OD) also available (cat.# 20291).

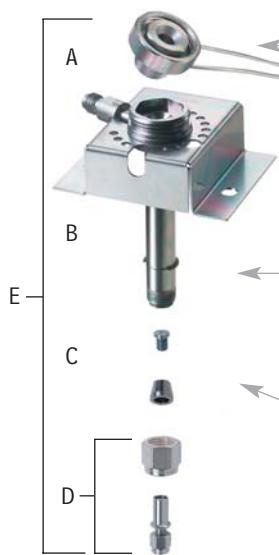
\*Injection port assembly kit does not include inlet liner,  $\frac{1}{16}$ " capillary ferrule, or split/splitless liner ferrules. Order separately.

# Supplies for Agilent Instruments: Injection Ports

## SureFit Split/Splitless Injection Ports for Agilent 5890 GCs

### Uses Restek Enhanced Base Fitting

(cat.# 22323)



Hex design aligns every time  
for easy installation or  
removal

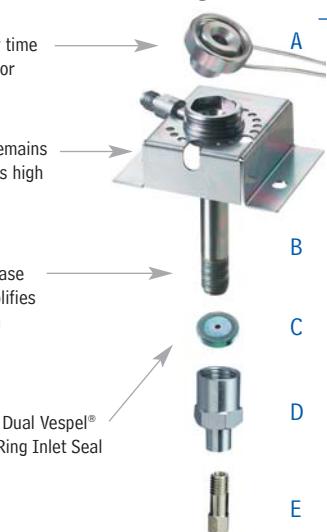
Leak-tight injection port remains  
sealed at temperatures as high  
as 400°C

Redesigned injector base  
improves seal and simplifies  
column installation

Standard  $\frac{1}{4}$ "  
ferrule

### Uses Manufacturer's-Style Inlet Seal and Reducing Nut

(cat.# 22326)



Dual Vespel®  
Ring Inlet Seal

**restek**  
**exclusive!**



**Donna Lidgett**  
GC Accessories Product  
Marketing Manager  
21+ years of service!

## SureFit Split/Splitless Injection Ports for Agilent 5890 GCs

### Uses Restek Enhanced Base Fitting

Description	qty.	cat.#
E) <b>Injection Port Assembly Kit</b> includes: * Siltek® split/splitless weldment, Siltek® shell weldment, base fitting, Siltek® base screw, septum nut, $\frac{1}{16}$ " and $\frac{1}{4}$ " stainless steel nuts, $\frac{1}{4}$ " graphite ferrule	kit	22323
A) Siltek® Split/Splitless Weldment for Restek 5890 Injection Port	ea.	22324
B) Siltek® Shell Weldment for Restek 5890 Injection Port	ea.	22325
Ferrules for split liners (6.3mm OD): $\frac{1}{4}$ " dual-taper Vespel®/graphite	10-pk.	20290
Ferrules for splitless liners (6.5mm OD): $\frac{1}{4}$ " dual-taper Vespel®/graphite	10-pk.	20291
C) Siltek® Base Screws for Restek Injection Port for 5890/6890	10-pk.	21631
Gold-Plated Base Screws for Restek Injection Port for 5890/6890	50-pk.	21632
Autosampler & PTV Septum Nut (for 23-gauge needles)	2-pk.	21629
D) Base Fitting for Restek Injection Port for 5890/6890	10-pk.	21630
Autosampler & PTV Septum Nut (for 23-gauge needles)	ea.	20631
D) Base Fitting for Restek Injection Port for 5890/6890	ea.	21626



### please note

Special dual-taper,  $\frac{1}{4}$ -inch ID Vespel®/graphite ferrules fit over split liners (6.3mm OD) (cat.# 20290). Ferrules with slightly enlarged ID, required for splitless liners (6.5mm OD) also available (cat.# 20291).

### Uses Manufacturer's-Style Inlet Seal and Reducing Nut

Description	qty.	cat.#
F) <b>Injection Port Assembly Kit</b> includes: * Siltek® split/splitless weldment, Siltek® shell weldment, septum nut, Siltek® Dual Vespel® Ring Inlet Seal, Agilent-style stainless steel reducing nut, Agilent-style stainless steel capillary nut	kit	22326
A) Siltek® Split/Splitless Weldment for Restek 5890 Injection Port	ea.	22324
B) Siltek® Split/Splitless Shell Weldment for Restek Injection Port for 5890/6890 (uses standard Agilent inlet seals)	ea.	22327
Ferrules for split liners (6.3mm OD): $\frac{1}{4}$ " dual-taper Vespel®/graphite	10-pk.	20290
Ferrules for splitless liners (6.5mm OD): $\frac{1}{4}$ " dual-taper Vespel®/graphite	10-pk.	20291
Autosampler & PTV Septum Nut (for 23-gauge needles)	ea.	20631
D) Reducing Nut	ea.	22078
E) Stainless Steel Capillary Column Nut	2-pk.	21884
C) Siltek® 0.8mm ID Dual Vespel® Ring Inlet Seal**	2-pk.	21242
	10-pk.	21243

\*Injection port assembly kit does not include inlet liner,  $\frac{1}{16}$ " capillary ferrule, or split/splitless liner ferrules. Order separately.

\*\*For more inlet seals, refer to pages 150-151.

## Supplies for Agilent Instruments: 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

Description	Similar to 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
C) O-rings for Agilent Trap Fittings	5180-4181	25-pk.	22064

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

Description	Similar to 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

\*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.

### 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.

Description	Similar to Agilent part #	qty.	cat.#
H) Optional Split Vent Trap Assembly for Agilent 6890/6850 GCs	G1544-60610	kit	23031
I) Replacement Traps (2) and O-rings (4)	G1544-80530	kit	23032

### also available

#### Looking for autosampler syringes?

Restek carries a full line of autosampler syringes for Agilent instruments from both Hamilton and SGE. See **pages 278 to 280** or visit [www.restek.com](http://www.restek.com) and search on syringes.



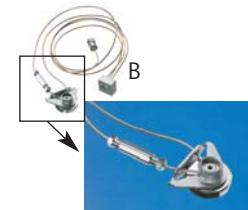
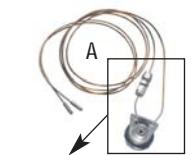
## Supplies for Agilent Instruments: Injection Port Replacement Parts

### 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.

Description	Similar to 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.

Description	Similar to 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.

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



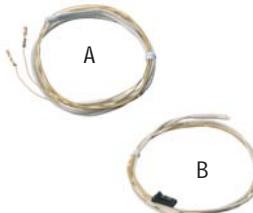
## Supplies for Agilent Instruments: Replacement Parts

### Heater Block Retaining Nuts for Agilent GC Split/Splitless Injectors

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



Description	Similar to 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

Description	Similar to 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

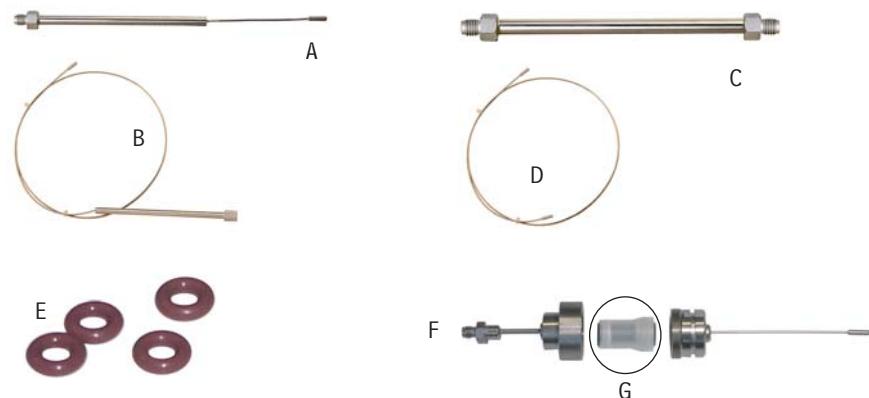
Increase the versatility of your Agilent 5890/6890 GC by replacing the existing 30psig (207kPa) backpressure regulator and gauge with our 60psig (414kPa) regulator. Enables you to use longer 60m and 105m columns as well as shorter 10m columns. Includes complete instructions.

Description	Similar to 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.

Description	Similar to 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-inch) (Includes all installation hardware.)	19251-80525		
E) O-rings for Agilent Trap Fittings	G1544-20620	2-pk.	22800
F) Optional Split Vent Trap Assembly for Agilent 6890/6850 GCs	5180-4181	25-pk.	22064
G) Replacement Traps (2) and O-rings (4)	G1544-60610	kit	23031
	G1544-80530	kit	23032



## Supplies for Agilent Instruments: Replacement Parts

### Dual-Column *mini-Lam* Direct Injection Tee

(for 1/4-inch packed column inlets)

The inverted cup design offers complete sample vaporization and permits larger sample volumes. It incorporates a Press-Tight® taper in each outlet leg, to make a perfect, dead-volume-free connection to each analytical column (ODs ranging from 0.4 to 0.8mm). Allows visual confirmation of the column connection. The open-top design makes it easy to pack with glass wool, keeping sample residue from contaminating the cup.

Description	qty.	cat.#
<i>mini-Lam</i> DI Tee Kit (Includes all fittings and ferrules)	kit	20436
Replacement 4mm <i>mini-Lam</i> DI Tee	ea.	20435



### Low-Volume Injector for Agilent Split/Splitless Injectors

- 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.



Our low-volume injector can be installed in a matter of minutes. Remove the septum nut or splitless weldment and insert the Restek low-volume injector through the split injector. Tighten the base nut and you're ready! Includes a 1/16-inch nut, a 1/16-inch ferrule, a base nut and 1/4-inch Vespel®/graphite ferrule, a 1/16-inch capillary nut, a 5-pack of low-bleed plug septa, and a low-mass septum nut. Order appropriate capillary ferrules separately.

Description	qty.	cat.#
Low-Volume Injector for Agilent Split/Splitless Injectors	kit	21692

### Siltek® Septum Packed Purge Port Weldment for Agilent 5890 GCs

Siltek® treatment eliminates adsorption of sensitive compounds (e.g., DDT and endrin). Order Viton® O-rings (below) and appropriate septa (page 147) separately.

Description	Similar to Agilent part #	qty.	cat.#
Siltek® Septum Packed Purge Port Weldment for Agilent 5890 GCs	19243-80570	ea.	21691
Viton® Replacement O-rings	5080-8898	10-pk.	21685



### tech tip

#### Minimizing Injector Discrimination

When an injected sample is not completely vaporized, lower percentages of compounds that are less volatile (i.e., compounds with high boiling points or high molecular weights) are transferred into the analytical column. As a result, these later-eluting compounds will have progressively decreased peak areas. You can minimize injector discrimination by reducing injector flows, increasing the injector temperature, using pressure pulse injection or a fast autosampler, or using an injector liner that aids in vaporization (e.g., a laminar cup splitter or a liner packed with wool).

## Supplies for Agilent Instruments: Replacement Parts and Tool Kits



**new!**

### Oven Flapper Assemblies

- Ensure even and consistent column heating, run after run, by replacing the oven flapper assembly when the insulation becomes damaged or worn.
- Replacement Insulation Gasket and Hardware Kit includes the insulation gasket, 2 screws and 2 nuts.
- Meets or exceeds manufacturer's performance.
- Insulation is replaceable, using Restek's Oven Flapper Assemblies.

Description	Similar to Agilent part #	qty.	cat.#
Oven Flapper Assembly for Agilent 5890 GCs	05890-80560	ea.	22994
Oven Flapper Assembly for Agilent 6890 GCs	G1530-80560	ea.	22995
Replacement Insulation Gasket and Hardware Kit*		kit	22996

\*Fits Restek's Oven Flapper Assembly only.



### Air Diverter for Agilent GCs

- Divert GC exhaust heat away from the lab bench.
- Meets or exceeds manufacturer's performance.
- Easy to install—no tools required.

Description	Similar to Agilent part #	qty.	cat.#
Air Diverter for Agilent 5890/6890 GCs	19247-60510 G1530-80650	ea.	22076

Everything you need  
in one complete kit!

### Make Life Easier (MLE) Capillary Tool Kit for Agilent GCs

#### Includes:

- capillary installation gauge for Agilent GCs
- injector wrench for Agilent GCs
- septum nut removal tool
- $\frac{1}{8}$ " ,  $\frac{3}{16}$ " , and  $\frac{1}{4}$ " nylon brushes
- $\frac{1}{8}$ " ,  $\frac{3}{8}$ " , and  $\frac{3}{16}$ " stainless steel wire tube brushes
- stainless steel surface brush
- 6 stainless steel jet reamers (0.25–0.65mm OD)
- $\frac{1}{4}$ " x  $\frac{5}{16}$ " open end wrench
- $\frac{3}{8}$ " x  $\frac{7}{16}$ " open end wrench
- $\frac{7}{16}$ " x  $\frac{1}{2}$ " open end wrench
- $\frac{1}{2}$ " x  $\frac{9}{16}$ " 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)



Description	qty.	cat.#
MLE Capillary Tool Kit for Agilent GCs	kit	22186

## Supplies for Agilent Instruments: Inserts, Liners

### **Direct Injection (DI) Inserts and Liner Adaptor for 1/4-Inch Packed Column Injection Ports (for 0.25, 0.32, & 0.53mm ID columns)**

#### **DI Glass Inserts for Agilent 5890 Packed Column GC**

- Tolerances closely controlled.
- Can be removed from the septum nut weldment.

Description	Similar to Agilent part #	qty.	cat.#
DI Glass Inserts for Agilent 5890 Packed Column GC (1.7mm ID x 3.0mm OD x 93mm)	5181-3382 5080-8732	5-pk.	20967

All liners are  
**100%**  
deactivated

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

**SILTEK®**  
version available.

#### **DI Uniliner® Liners for Agilent 5890 Packed Column GC**

- Press-Tight® taper forms dead-volume-free connection to column.
- Minimizes solvent and peak tailing.
- Use with 0.25, 0.32, and 0.53mm ID capillary columns.
- Can be removed from the septum nut weldment.



Description	Fits same liner adaptor as Agilent part #	qty.	cat.#
DI Uniliner® Liner for Agilent 5890 Packed Column GC (1.7mm ID x 3.0mm OD x 93mm)	5181-3382 5080-8732	ea.	20964
DI Uniliner® Liners for Agilent 5890 Packed Column GC (1.7mm ID x 3.0mm OD x 93mm)	5181-3382 5080-8732	5-pk.	20965
DI Uniliner® Liners for Agilent 5890 Packed Column GC (1.7mm ID x 3.0mm OD x 93mm)	5181-3382 5080-8732	25-pk.	20966

#### **DI Liner Adaptor for Agilent 5890 Packed Column GC**

- Uses standard 1/16-inch capillary nut and ferrules.
- Convenient wrench pad at base.
- Includes 1/4-inch graphite ferrule and stainless steel nut.
- Use with Agilent or Restek DI glass inserts or Restek DI Uniliner® liners for an Agilent 5890 packed column GC.

Description	Similar to Agilent part #	qty.	cat.#
DI Liner Adaptor for Agilent 5890 Packed Column GC	19244-80540	ea.	21303



**also available**

#### **Looking for autosampler vials?**

Restek carries a full line of autosampler vials for all of Agilent's autosamplers. See pages 259 to 275 or visit [www.restek.com](http://www.restek.com) and search on autosampler vial.

## Supplies for Agilent Instruments: Column Inlets, Ferrules, Tees

### **1/16-Inch Capillary Inlet Adaptor Fitting Kit**

(Split/splitless fitting for 0.25 or 0.32mm ID capillary columns)

We have specially engineered a high-precision,  $1/16$ -inch split/splitless fitting that accepts standard, two-hole capillary ferrules. Our design makes it easier to install capillary columns because the nut protrudes farther from the insulated injection port chamber. The column insertion depth is the same as the original equipment.

Kit includes adaptor fitting, capillary nut, stainless steel inlet seal, washer, and one 0.4mm ID ferrule.



For use with 0.25/0.32mm ID columns.

Description	qty.	cat.#
$1/16$ -Inch Capillary Inlet Adaptor Fitting Kit	kit	20633
0.25/0.32mm ID Dual-Column Installation (1.2mm Opening)		
Replacement Inlet Seal	2-pk.	20390
0.25/0.32mm ID Dual-Column Installation (1.2mm Opening)		
Replacement Inlet Seal	10-pk.	20391

### **1/8-Inch Capillary Inlet Adaptor Fitting Kit**

(Split/splitless fitting for 0.53mm ID capillary columns)

Our specially engineered high-precision,  $1/8$ -inch split/splitless fitting accepts standard two-hole capillary ferrules and a standard  $1/8$ -inch nut. This design makes column installation easy because the nut protrudes farther from the insulated injection port chamber. The column insertion depth is the same as the original equipment.

Kit includes adaptor fitting, capillary nut, stainless steel inlet seal, washer, and one 0.8mm ID two-hole ferrule.



For use with 0.53mm ID columns.

Description	qty.	cat.#
$1/8$ -Inch Capillary Inlet Adaptor Fitting Kit	kit	20645
0.53mm ID Dual-Column Installation ( $1/16$ -inch opening)		
Replacement Inlet Seal	2-pk.	20392
0.53mm ID Dual-Column Installation ( $1/16$ -inch opening)		
Replacement Inlet Seal	10-pk.	20393

### **Direct Replacement Reducing Nut**

- Made from high-quality stainless steel.
- Meets original equipment performance.



Description	Similar to Agilent part #	qty.	cat.#
Reducing Nut	18740-20800	ea.	22078

### **Replacement Ferrules for Dual-Column Confirmational Analysis**

Use  $1/16$ -inch, two-hole ferrules with the  $1/16$ -Inch Capillary Inlet Adaptor Fitting Kit (cat.# 20633); and  $1/8$ -inch, two-hole ferrules with the  $1/8$ -Inch Capillary Inlet Adaptor Fitting Kit (cat.# 20645).



Two-Hole Ferrule Size	Fits Nut	Fits Column ID	qty.	Vespel®/Graphite cat.#
0.4mm ( $1/16$ "")	$1/16$ "	0.25/0.28mm	5-pk.	20241
0.5mm ( $1/16$ "")	$1/16$ "	0.32mm	5-pk.	20242
0.8mm ( $1/8$ "")	$1/8$ "	0.45/0.53mm	5-pk.	20246

### **Dual-Column Direct Injection Tee**

(for  $1/4$ -inch packed column inlets)

The tee is designed with a glass spiral to promote sample vaporization and to provide even sample distribution to the two columns. The glass spiral also traps sample residue and minimizes the need for guard columns. A Press-Tight® taper in each outlet leg facilitates a perfect dead-volume-free connection to each analytical column (OD 0.4 to 0.8mm) and allows visual confirmation of the column connection.



DI Tee Kit

Description	qty.	cat.#
DI Tee Kit (includes all fittings/ferrules)	kit	20412
Replacement Tee	ea.	20411

# Supplies for Agilent Instruments: Cool 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.



Use the smaller end to remove the septum nut.



Use the larger end to tighten the split/splitless weldment nut.



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

## Rethreading Tool

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



- 1) Worn & damaged threads can allow oxygen into the system—compromising analytical results and destroying columns.
- 2) Screw the tool completely onto the injection port in a clockwise direction. Unscrew the tool and inspect the threads, repeat as necessary. When done, wipe threads with methanol to remove any debris.

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

## FID/Injector Cleaning Kit

The FID/Injector Cleaning Kit includes:

- Nylon tube brushes (1/8", 3/16", 1/4").
- Pipe cleaner.
- Stainless steel tube brushes (3/8", 5/16", 1/4").
- Stainless steel surface brush.
- Stainless steel jet reamers.
- Emery cloth.



Description	qty.	cat.#
FID/Injector Cleaning Kit	kit	20120



Make your injection port threads like new!

Use Restek's Cleaning Kit with ANY injection port!

## 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.



Description	qty.	cat.#
Inlet Liner Removal Tool	3-pk.	20181



No more burned fingers!

## Flashlight with Swivel Head

- Ideal for tight spaces—like inside a GC oven.
- Uses two AA batteries (included).

Description	qty.	cat.#
Flashlight with Swivel Head	ea.	22187



## Injection Port Split/Splitless Weldment Retaining Ring Pliers

- Easily removes snap ring on split/splitless weldment assemblies.
- Use with Agilent 5890/6890/6850 GCs.

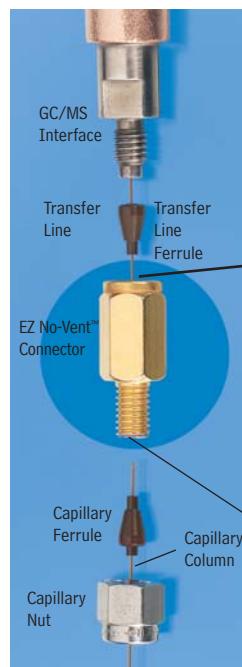
Description	qty.	cat.#
Injection Port Split/Splitless Weldment Retaining Ring Pliers	ea.	26186



## Supplies for Agilent Instruments: EZ No-Vent™ GC/MS Connector

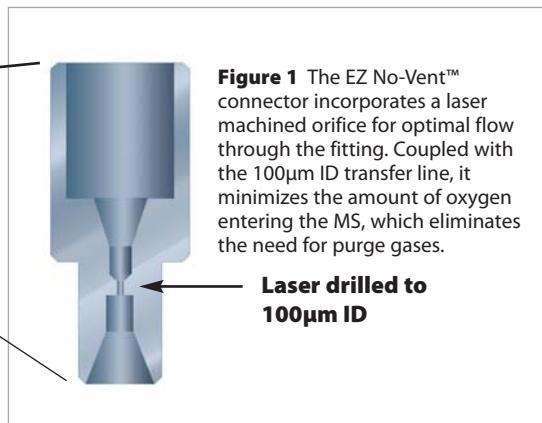
### EZ No-Vent™ GC Column-Mass Spectrometer Connector

- Change GC/MS columns in minutes without venting—100 $\mu\text{m}$  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.
- Available for Agilent GCs with 5971/5972, 5973, or 5975 GC/MS.



Change columns in minutes—without venting!

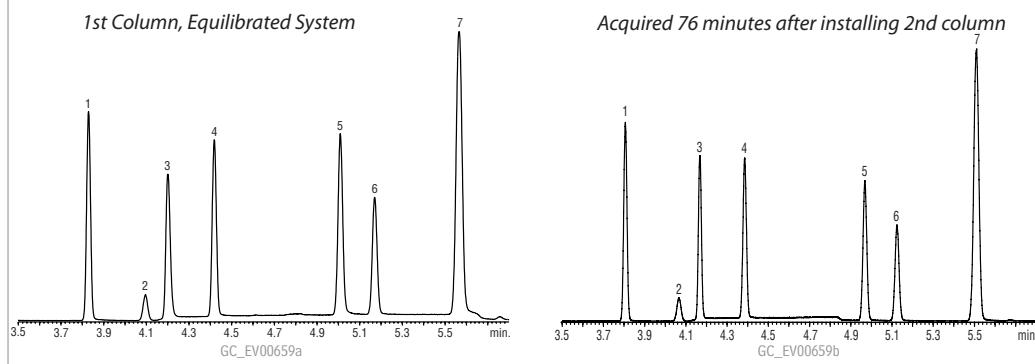
Kit installs easily, without special tools or plumbing.



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

Laser drilled to  
100 $\mu\text{m}$  ID

**Figure 2** Sharp, symmetric peaks for gases show the EZ No-Vent™ connector does not add dead volume and allows rapid column changes.



Rtx®-624, 60m, 0.25mm ID, 1.4 $\mu\text{m}$  (cat# 10969), column direct to source.

Rtx®-624, 60m, 0.25mm ID, 1.4 $\mu\text{m}$  (cat# 10969) using EZ No-Vent™.

1. dichlorodifluoromethane
2. 1,2-dichlorotetrafluoroethene (Freon® 114)
3. chloromethane
4. vinyl chloride
5. bromomethane
6. chloroethane
7. trichlorofluoromethane

Sample: Volatile Gas Mix 502.2  
Calibration Mix#1 (gases)  
cat# 30042  
Inj.: Purge & Trap  
GC Agilent 6890  
Inj. temp.: 300°C  
Carrier gas: helium, constant flow  
Flow rate: 1.0mL/min.

Oven temp.: 60°C isothermal  
Det: Agilent 5973 GC/MS  
Transfer line temp.: 280°C  
Scan range: 35-550amu  
Tune: BFB  
Ionization: EI

#### Description

EZ No-Vent™ Connector Kit for Agilent 5971/5972 and 5973 GC/MS Kit includes: EZ No-Vent™ Connector, two 0.4mm ID ferrules for capillary column, two 0.4mm ID ferrules for transfer line, 100 $\mu\text{m}$  deactivated transfer line (3 ft.), column plug, column nut.

qty. cat.#

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 100 $\mu\text{m}$  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

## Supplies for Agilent Instruments: GC/MS Accessories

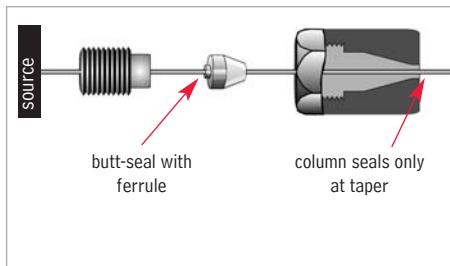
### MSD Conversion Fitting

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

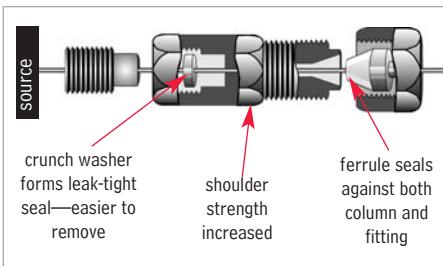


Agilent's MSD interface uses a butt-seal to simultaneously seal the MSD source to the capillary column. This system is prone to leakage. Restek's MSD conversion fitting is designed with two separate seals to reduce the chance of leaks: a crunch washer seals the MSD conversion fitting to the source; a ferrule seals the capillary tubing to the conversion fitting.

**Agilent Design**



**Improved Restek Design**



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).
- Made of brass to prevent thread-stripping on the transfer line.
- Improved design enhances ease of threading onto the transfer line and improves overall lifetime.

Improved design!



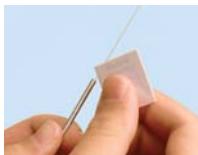
Description	Similar to Agilent part #	qty.	cat.#
(Detector) MSD Source Nut	05988-20066	2-pk.	20643

### Capillary Installation Gauge for Agilent 5973/5975 MS

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



Install the nut and ferrule onto the column, then insert the column through the installation tool, exposing several centimeters at the exit end. Tighten the nut.



Score and remove the exposed end of the column, then loosen the nut.



The ferrule will be properly seated and should remain in place when light force is applied. Install the column into the GC/MS interface.



**Tom Kane**  
Product Development Manager

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.



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

## Supplies for Agilent Instruments: GC/MS Accessories

### Replacement Interface with Bellows for Agilent 5971/5972 MS

- Meets or exceeds manufacturer's performance.
- Made of high-quality stainless steel.



Description	Similar to Agilent part #	qty.	cat.#
Replacement Interface with Bellows for Agilent 5971/5972 MS	05971-60302	ea.	22659

### Replacement Interface Guide Tube for Agilent 5971/5972 MS

- Meets or exceeds manufacturer's performance.
- Made of high-quality stainless steel.



Description	Similar to Agilent part #	qty.	cat.#
Replacement Interface Guide Tube for Agilent 5971/5972 MS	05971-20307	ea.	22660

### Replacement Cold Sensor for Agilent 5971/5972 MS Diffusion Pump

- Meets or exceeds manufacturer's performance.
- Made of high-quality stainless steel.



Description	Similar to Agilent part #	qty.	cat.#
Replacement Cold Sensor for Agilent 5971/5972 MS Diffusion Pump	3103-0145	ea.	22661

### Replacement Diffusion Pump Fan Assemblies for Agilent 5971/5972 MS

- 110/120 VAC



Description	Similar to Agilent part #	qty.	cat.#
Replacement Diffusion Pump Fan Assembly for Agilent 5971 MS	05971-60540	ea.	22662
Replacement Diffusion Pump Fan Assembly for Agilent 5972 MS	05972-60540	ea.	22663

### Rough Pump Oil #19 for MSD Pumps, Oil Vacuum Pump

- Formulated from crude oil stocks known for their durability and line lubricating qualities.
- Use in Agilent 5973/5972/5971 and GCD mass spec systems, or in other manufacturers' MSD systems that require rough pump oil.
- Under average use, the oil in the foreline rough pump should be replaced every six months.



Description	qty.	cat.#
Rough Pump Oil for MSD Pumps	1 liter	22687

### Ion Source Cleaning Powder

- Use this aluminium oxide powder to clean surfaces that contact the sample or ion beam when you encounter poor sensitivity and inadequate abundances at high masses.

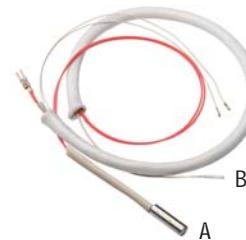


Description	Similar to Agilent part #	qty.	cat.#
Ion Source Cleaning Powder	8660-0791	1 kg.	22685

## Heater Cartridge & PRT Sensor for Agilent 5890 GCs

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

Description	Similar to 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



## FID Collector Housing Kits for Agilent GCs

- Meets or exceeds manufacturer's performance.

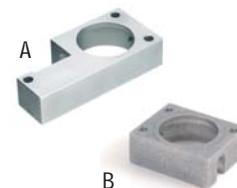
Description	Similar to Agilent part #	qty.	cat.#
FID Collector Housing Kit for Agilent 5890 GCs (includes collector body, spanner nut, and silicone washer—order mount separately)	19231-20920	kit	23037
A) FID Collector Housing Kit for Agilent 6890/7890 GCs (includes collector body, silicone washer, nut, and mount)	G1531-20550	kit	23045
FID Collector Housing for Agilent 6890/7890 GCs	G1531-20740	ea.	23044
B) Replacement Silicone Washers for FID Collector Housing for Agilent 5890/6890/7890 GCs	5180-4165	12-pk.	23064



## FID Collector Mount for Agilent GCs

- Meets or exceeds manufacturer's performance.

Description	Similar to Agilent part #	qty.	cat.#
A) FID Collector Mount for Agilent 5890 GCs	19231-20930	ea.	23036
B) FID Collector Mount for Agilent 6890/7890 GCs	G1531-20550	ea.	23043

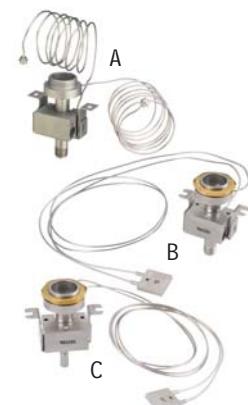


## FID Base Weldment for Agilent GCs

- Meets or exceeds manufacturer's performance.
- Includes brass nut.

Description	Similar to Agilent part #	qty.	cat.#
A) FID Base Weldment for Agilent 5890 GCs	19231-80580	ea.	23041
B) FID Base Weldment, Pack Column FID, for Agilent 6850/6890 GCs	G1531-80580	ea.	23052
C) FID Base Weldment, Capillary Column FID, for Agilent 6850/6890 GCs	G1531-80630	ea.	23053

Note: 6890 GC connections to EPC modules are not compatible with the 7890 EPC modules.



## Spanner Wrench for Agilent 5890/6890/6850/7890 FID Collector Assemblies

- Easily remove the nut from the FID collector without damaging the nut.
- Unique, ergonomic handle—easy to grip.



Remove FID ignitor castle.



Easily loosen the nut by aligning the two pins on the bottom of the wrench with the two open slots on the nut...



...then turn counterclockwise...



...and remove.



Description	Similar to Agilent part #	qty.	cat.#
Spanner Wrench for Agilent 5890/6890/6850/7890 FID Collector Assembly	19231-00130	ea.	22329

## Supplies for Agilent Instruments: Detector Replacement Parts

### Direct Replacement FID Collector Assembly Kit for Agilent 5890 GCs

- Constructed of high-quality stainless steel.
- Meets or exceeds manufacturer's performance.

Description	Similar to Agilent part #	qty.	cat.#
FID Collector Assembly Kit (includes insulators)	19231-60690	kit	23010
FID Collector Assembly Kit w/Siltek® Ignitor Castle	—	kit	21131

### Replacement FID Parts for Agilent 5890 GCs

- Meets or exceeds manufacturer's performance.

Description	Similar to Agilent part #	qty.	cat.#
A) FID Collector (includes insulators)	19231-20970	ea.	21138
B) FID Collector Nut and Washer	19231-20960	set	21136
C) FID Ignitor*	19231-20950	ea.	21001
D) FID Ignitor Castle	19231-20940	ea.	21137
Siltek® FID Ignitor Castle	5181-3311	ea.	21135

\*Also fits OI Analytical 4410 detector (similar to OI part # 191833).



**SILTEK®**  
versions available.

### Direct Replacement FID Collector Assembly Kit for Agilent 6890/6850/7890 GCs

- Constructed of high-quality stainless steel.
- Meets or exceeds manufacturer's performance.

Description	Similar to Agilent part #	qty.	cat.#
FID Collector Assembly Kit (includes insulator)	G1531-60690	kit	21699
FID Collector Assembly Kit w/Siltek® Ignitor Castle	—	kit	21132

### Replacement FID Parts for Agilent 6890/6850/7890 GCs

- Meets or exceeds manufacturer's performance.

Description	Similar to Agilent part #	qty.	cat.#
A) FID Collector (includes insulators)	G1531-20690	ea.	21139
B) FID Collector Nut and Washer	G1531-20700	set	21136
C) FID Ignitor*	19231-20940	ea.	21001
D) FID Ignitor Castle	5181-3311	ea.	21137
Siltek® FID Ignitor Castle	19231-20910	ea.	21135

\*Also fits OI Analytical 4410 detector (similar to OI part # 191833).

### Direct Replacement FID Flow Measuring Adaptor for Agilent 5890/6890/6850/7890 GCs

- Makes setting flows easy.
- Meets or exceeds manufacturer's performance.

Description	Similar to Agilent part #	qty.	cat.#
FID Flow Measuring Adaptor	19301-60660	ea.	21000



Rugged design!

### FID Gauge Pack for Agilent 5890 GCs

Pressure regulators and gauges for air & hydrogen. The  $\frac{1}{8}$ -inch bulkhead allows easy hookup to instrument. Rated for inlet pressures to 250psi (1724kPa), outlet pressures of 0 to 60psi (0-414kPa).

Description	qty.	cat.#
FID Gauge Pack for Agilent 5890 GCs	ea.	22071



# Supplies for Agilent Instruments: Detector Replacement Parts

## FID Replacement Jets

### Standard Version

- Engineered with a fluted tip to guide the capillary column into the jet.
- Threads specially coated for easy installation and removal.
- Special processing ensures the highest degree of cleanliness.

### High-Performance Version

- Similar to the standard version, but Siltek® treated.
- Extremely inert, for use with active compounds.

## Capillary Adaptable FID Replacement Jet for Agilent 5890/6890/6850 GCs

	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
0.011-Inch ID Tip					
Standard, 0.011-Inch ID Tip	19244-80560	ea.	20670	3-pk.	20671
High-Performance Siltek® Treated, 0.011-Inch ID Tip	19244-80560	ea.	20672	3-pk.	20673



## Capillary Dedicated FID Replacement Jet for Agilent 6890/6850/7890 GCs

	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
0.011-Inch ID Tip					
Standard, 0.011-Inch ID Tip	G1531-80560	ea.	21621	3-pk.	21682
High-Performance Siltek® Treated, 0.011-Inch ID Tip	G1531-80560	ea.	21620	3-pk.	21683



## Packed Column FID Replacement Jets for Agilent 5890/6890/6850 GCs

	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
0.018-Inch ID Tip					
Standard, 0.018-Inch ID Tip	18710-20119	ea.	21694	3-pk.	21695
High-Performance Siltek® Treated, 0.018-Inch ID Tip	18710-20119	ea.	21696	3-pk.	21697



	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
0.030-Inch ID Tip					
Standard, 0.030-Inch ID Tip	18789-80070	ea.	21688	3-pk.	21689
High-Performance Siltek® Treated, 0.030-Inch ID Tip	18789-80070	ea.	21686	3-pk.	21687

## tech tip

### Which FID Jet Should I Use?

There are two FID jet configurations for Agilent GCs. The longer "adaptable" jet fits both 5890 and 6890 GCs, and can be used with capillary or packed columns. The shorter "dedicated" jet is for the FID in the 6890 GC that is designed only for use with capillary columns.

## FID Jet Removal Tool for Agilent 5890/6890/6850/7890 FIDs

- Securely grips jet in socket for easy removal or installation.
- Unique, ergonomic handle—easy to hold.

restek  
**innovation!**



Slip tool  
over FID  
jet...



...loosen  
jet...



...and  
remove.



Description	qty.	cat.#
FID Jet Removal Tool for Agilent 5890/6890/6850/7890 FIDs	ea.	22328

## Torx® Screwdriver Set

- Set includes TR-10, TR-15, and TR-20.
- Ideal for performing routine maintenance on Agilent 6890 and 7890 GCs.

Description	qty.	cat.#
Torx® Screwdriver Set	set	23034



## Supplies for Agilent Instruments: Detector Replacement Parts

### Detector Plug Nut

Use Restek's detector plug nut to cap off a detector for thermal cleaning, to check detector or make-up gas flow rates, or to prevent hydrogen from accidentally diffusing into the oven from an unused detector base.



Description	Similar to Agilent part #	qty.	cat.#
Detector Plug Nut	5020-8294	2-pk.	21883

### FID/NPD Adaptor Fitting

- Easy to use, sturdy, compact stainless steel fitting.
- $\frac{1}{16}$ -inch nut uses standard graphite or Vespel®/graphite ferrules.
- Wrench pad won't turn when installing a capillary column.
- Includes  $\frac{1}{4}$ - and  $\frac{1}{16}$ -inch stainless steel nuts, and  $\frac{1}{4}$ -inch Vespel® and 0.4mm ID graphite ferrules.



Description	qty.	cat.#
FID/NPD Adaptor Fitting	kit	20884

### FID/NPD Capillary Adaptor Fitting for Agilent 5890/6890/6850 GCs

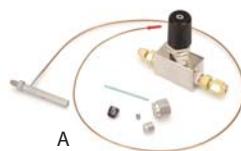
- High-quality stainless steel construction.
- Meets or exceeds manufacturer's performance.



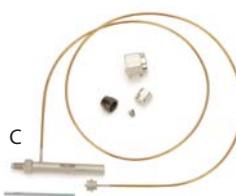
Description	Similar to Agilent part #	qty.	cat.#
FID/NPD Capillary Adaptor Fitting	19244-80610	ea.	22077

### ECD/FID Dual-Purpose Make-Up Gas Kit for Agilent 5890 GCs

Incorporates a better make-up gas flow profile and a straight section of inert Siltek® tubing as the capillary guide. To add make-up gas to an FID, remove the tubing guide and insert an FID jet tail. A direct replacement fitting with a special end connector is available for GCs factory-equipped with make-up gas. A complete kit is available for plumbing GCs that are not factory-equipped with make-up gas.



Description	Similar to Agilent part #	qty.	cat.#
A) ECD/FID Dual-Purpose Make-Up Gas Kit			
Includes: make-up gas fitting, Siltek® treated guide, $\frac{1}{4}$ " nut and ferrule, $\frac{1}{16}$ " nut, 0.4mm ID graphite ferrule, and fine metering valve		kit	21300
B) Replacement Make-up Gas Fitting Kit			
Includes: make-up gas fitting, $\frac{1}{4}$ " nut and ferrule, $\frac{1}{16}$ " nut, 0.4mm ID graphite ferrule		kit	21324
C) ECD/FID Replacement Fitting Kit with Flow Manifold Connection			
Includes: replacement fitting, $\frac{1}{4}$ " nut, Vespel®/graphite ferrule, $\frac{1}{16}$ " nut, 0.4mm ID graphite ferrule, Siltek® treated guide		kit	21301
Replacement ECD Siltek® Metal Liner		2-pk.	21302
<b>new!</b>	19233-20625	ea.	27192
Replacement ECD Fused Silica Liner		5-pk.	27193
<b>new!</b>	G2397-20540	ea.	27190
Replacement Micro ECD Liner		5-pk.	27191



## Supplies for Agilent Instruments: Replacement Cables

### Replacement Cables for Agilent GCs, Integrators, & Autosamplers

- Priced less than original equipment.
- Instructions and wiring diagrams included.
- Manufactured with only the highest-quality components.

**did you know?**

Restek provides  
pin schematics.

Connect an Agilent 5890 GC to an Agilent integrator (for second Inet integrator).

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	35900-60610	6 ft.	ea.	20650
Replacement Cables	35900-60610	6 ft.	2-pk.	20651



Connect an Agilent 5890 GC to an Agilent 3396 integrator to enable remote starts (non-Inet connection from GC to integrator).

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	03394-60560	6 ft.	ea.	20654



Connect an Agilent 3396 integrator to remote-start another piece of equipment or to start the Agilent 3396 integrator from that other piece of equipment.

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	03394-60540	6 ft.	ea.	20655
Replacement Cables	03394-60540	6 ft.	2-pk.	20656



Connect an Agilent 5890 GC to a non-Agilent integrator or standard strip chart recorder.

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	05890-60800	6 ft.	ea.	20652
Replacement Cables	05890-60800	6 ft.	2-pk.	20653



Connect an Agilent 5890 GC to remote-start another piece of equipment or to start the Agilent 5890 GC from that piece of equipment.

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	05890-61080	6 ft.	ea.	20657



Connect an Agilent 3396 integrator to a non-Agilent GC.

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	35900-60630	6 ft.	ea.	20658
Replacement Cables	35900-60630	6 ft.	2-pk.	20659



Connect an Agilent 5890 GC to an Agilent 35900C Interface or to an Agilent 7673A Autosampler to enable remote starts.

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	35900-60700	6 ft.	ea.	20660
Replacement Cables	35900-60700	6 ft.	2-pk.	20661



Automatic liquid sampler stop/start cable for Agilent GCs.

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	G1530-60930	7 ft.	ea.	20929



Connect an Agilent 6890 GC to a PC 9F/9F (RS232).

Description	Similar to Agilent part #	length	qty.	cat.#
Replacement Cable	G1530-60600	6 ft.	ea.	22694



## Supplies for Agilent Instruments: Autosampler Replacement Parts

### Replacement Parts for Agilent Autosamplers

- All parts meet or exceed manufacturer's performance.

#### Injector Mounting Posts and Parking Post for Agilent Autosamplers



Description	Similar to Agilent part #	qty.	cat.#
A) Injector Mounting Post for Agilent 7673 Series Autosamplers for use with 5890 GCs	18597-60805	ea.	21236
B) Injector Mounting Post for Agilent 7673 Series Autosamplers for use with 6890 GCs	07673-21140	ea.	21237
C) Injector Mounting Post for Agilent 7683 Series Autosamplers for use with 6850/6890 GCs	G2613-20500	ea.	21172
D) Parking Post for Agilent 7673/7683 Series Autosamplers for use with 5890/6890/7890 GCs	05890-61525	ea.	22343

#### Turret Tray Assembly for Agilent 5890/6890 GC



- Holds sample, waste and solvent vials.

Description	Similar to Agilent part #	qty.	cat.#
Turret Tray Assembly for Agilent 5890/6890 GC	07673-60605	ea.	22855

#### Autosampler Plunger Carrier Belt



Description	Similar to Agilent part #	qty.	cat.#
Autosampler Plunger Carrier Belt for Agilent 7673A and 7673B	07673-61275	ea.	22695

#### Carriage Motor Belt



Description	Similar to Agilent part #	qty.	cat.#
Carriage Motor Belt for Agilent 7673A and 7673B	1500-0676	ea.	22695

#### Z-Belt for Agilent 7673B Autosampler



Description	Similar to Agilent part #	qty.	cat.#
Z-Belt for Agilent 7673B Autosampler	1500-0803	ea.	22332

#### Carriage Motor



Description	Similar to Agilent part #	qty.	cat.#
Carriage Motor for Agilent 7673A and 7673B	07673-60890	ea.	22693

#### Injector Turret Motor for Agilent 7673A & 7673B Injectors



Description	Similar to Agilent part #	qty.	cat.#
Injector Turret Motor for Agilent 7673A & 7673B Injectors	07673-60810	ea.	22337