

Genuine Restek Replacement Parts For Agilent 5890 GCs



Don't Let it Go to Waste.

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AUSTRALIAN Distributors **ECHnology** www.chromtech.net.au

RESTEK

Chromatography Products

www.restek.com

The Answer to Turning Your Trash to Treasure!

Dear Colleague,

Just when you thought you may be forced to put your Agilent 5890 in the garbage because you can't get the parts you need, Restek has the answer. Why be forced to spend thousands on a new instrument when Restek replacement parts will keep your 5890 producing reliable data for years to come. In this catalog you will find a full range of key replacement products, developed by Restek chemists and engineers, to support Agilent 5890 GCs.

In addition to replacement parts, Restek offers a complete line of GC and HPLC columns, accessories, and consumables. We stock a full range of GC columns including: capillary, packed, micropacked, and PLOT columns. Our HPLC line includes conventional and specialty phases—many available on $<2\mu\text{m}$ UHPLC silica. We also carry analytical reference standards, sample prep materials, gas supplies, vials, syringes, and many handy tools designed to simplify lab work.

Every product we sell is backed with our Plus One customer service policy and extensive technical support. Call us to order a catalog or discuss your application. We look forward to helping you!

The Restek GC Accessories Marketing Team



Donna Lidgett



Sue Benes



Kelli Steindl

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contact us
today!



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Make Life Easier (MLE) Capillary Tool Kits, Inlet and FID Maintenance Kits for Agilent GCs

- 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.

Make Life Easier (MLE) Capillary Tool Kit Includes:

- capillary installation gauge for Agilent GCs
- injector wrench for Agilent GCs
- septum nut removal tool
- 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/insertor tool
- 4-inch tapered needle file
- swivel head flashlight
- mini hand drill set
- 15cm compact steel ruler
- pocket magnifier
- high temperature string (1 meter)
- pipe cleaner (12-inch)
- cotton tip swabs (pk. of 25)



MLE Capillary Tool Kit for Agilent GCs



Inlet Kit



FID Kit for Agilent 5890 GCs

new!

Inlet and FID kits have been updated with new tools!

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.

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

Septa

Septa for Agilent GCs

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



Septum Diameter	25-pk.	50-pk.	100-pk.
Thermolite® Septa (usable to 340°C inlet temp.)			
5mm (2/16")	27120	27121	27122
9.5mm (3/8")	27135	27136	27137
10mm	27138	27139	27140
11mm (7/16")	27141	27142	27143
IceBlue™ Septa (usable to 250°C inlet temp.)			
9.5mm (3/8")		27158	27159
10mm		27160	27161
11mm (7/16")		27162	27163
BTO® Septa (usable to 400°C inlet temp.)			
5mm CenterGuide™		27100	27101
9.5mm (3/8")		27106	27107
10mm		27108	27109
11mm (7/16") CenterGuide™		27110	27111

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.

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.



Remove septum without damaging an expensive weldment.



Dislodge a stuck ferrule quickly and easily—without scoring the fitting.

Description	qty.	cat.#
Septum Puller	ea.	20117

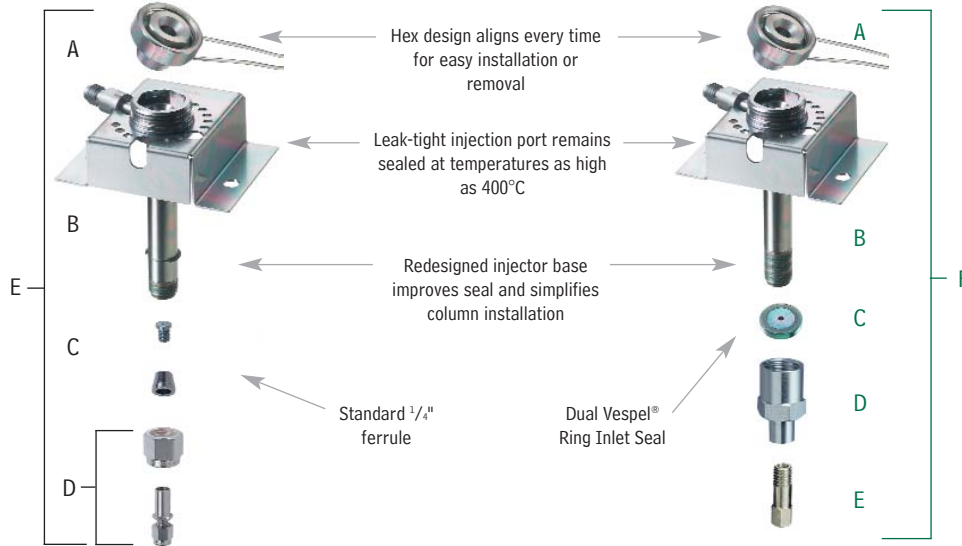


restek
exclusive!

SureFit Split/Splitless Injection Ports for Agilent 5890 GCs

Uses Restek Enhanced Base Fitting
(cat.# 22323)

Uses Manufacturer-Style Inlet Seal and
Reducing Nut (cat.# 22326)



SureFit Split/Splitless Injection Ports for Agilent 5890 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, 1/16" and 1/4" stainless steel nuts, 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): 1/4" dual-taper Vespel®/graphite	10-pk.	20290
Ferrules for splitless liners (6.5mm OD): 1/4" dual-taper Vespel®/graphite	10-pk.	20291
C) Siltek® Base Screws for Restek Injection Port for 5890/6890	10-pk. 50-pk.	21631 21632
Gold-Plated Base Screws for Restek Injection Port for 5890/6890	2-pk. 10-pk.	21629 21630
Autosampler & PTV Septum Nut (for 23-gauge needles)	ea.	20631
D) Base Fitting for Restek Injection Port for 5890/6890	ea.	21626

Uses Manufacturer-Style Inlet Seal and Reducing Nut

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	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): 1/4" dual-taper Vespel®/graphite	10-pk.	20290
Ferrules for splitless liners (6.5mm OD): 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. 10-pk.	21242 21243

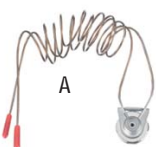


please note

Special dual-taper, 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).

*Complete injection port assembly does not include inlet liner, 1/16" capillary ferrule, or split/splitless liner ferrules. Order separately.

Injection Port Parts and Leak Detector



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

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

Description	Similar to Agilent part #	qty.	cat.#
C) Replacement Weldment with EPC	G1544-60575	ea.	22674
Siltek® Weldment with EPC**	G1544-60575	ea.	22672
D) Replacement Weldment*	19251-60575	ea.	20265
Siltek® Weldment**	19251-60575	ea.	20267
E) Replacement Shell Weldment	G1544-80570	ea.	22673
Siltek® Shell Weldment**	G1544-80570	ea.	22671
F) 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.#
G) Optional Split Vent Trap Assembly for Agilent 6890/6850 GCs	G1544-60610	kit	23031
H) Replacement Traps (2) and O-rings (4)	G1544-80530	kit	23032
I) O-rings for Agilent Trap Fittings	5180-4181	25-pk.	22064

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.

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.



Small, compact unit—easy to hold and operate.



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
I) Weldment for Agilent 5890 GCs	ea.	22666

For Agilent GCs with OI Purge and Trap Systems

Description	qty.	cat.#
J) 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



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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.

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 OEM performance.

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



did you know?

Restek offers a full line of Agilent instrument replacement parts for the 6890, 6850, and 7890, as well as Varian, Shimadzu, Thermo Scientific, and PerkinElmer instruments. Visit us at www.restek.com for a complete product listing.



- 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)



Dual Vespel Ring Inlet Seals

restek
innovation!



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



Dual Vespel® Ring Inlet Seal 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 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.

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



Patented.

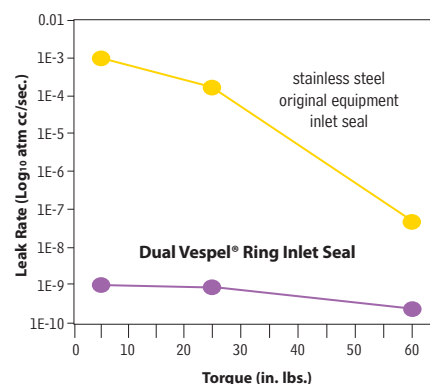
0.8mm ID Dual Vespel® Ring Inlet Seal

	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

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 Cross-Disk Inlet Seals for Agilent GCs

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

new!

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

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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 5890/6890 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.

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 (1/8-inch Opening)

Replacement Inlet Seal	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.

All seals include washers.

Replacement Inlet Seal Washers

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



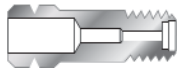
Cross-Disk Inlet Seals for Agilent GCs

- Ideal for high-flow split applications on Agilent 5890 GCs.
- All seals include washers.

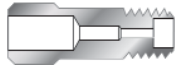
0.8mm ID Cross-Disk Inlet Seal for Agilent GCs	Similar to Agilent part #	2-pk.	10-pk.
Gold-Plated	5182-9652	20477	20476
Siltek® Treated	—	20475	20474
1.2mm ID Cross-Disk Inlet Seal for Agilent GCs	Similar to Agilent part #	2-pk.	10-pk.
Gold-Plated	—	21009	21010
Siltek® Treated	—	21011	21012



Column Nuts and Capillary Installation Gauge



for use with "compact" Agilent-style ferrules



for use with standard ferrules

Capillary Column Nuts for Agilent 5890/6890/7890 GCs

Available in brass or stainless steel.



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

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

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.

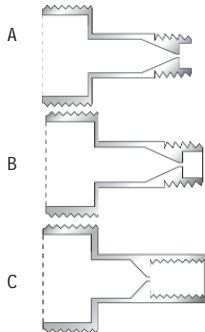


cat. # 21312

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.



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

Easily seat ferrules for consistent installations!

Capillary Installation Gauge

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



A



B



Thread . . .



. . .tighten . . .



. . .done.

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

*Recommended for use with graphite ferrules.



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

tech tip

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

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.

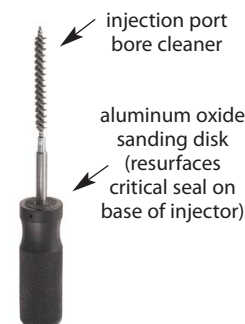


Use the larger end to tighten the split/splitless weldment nut.

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



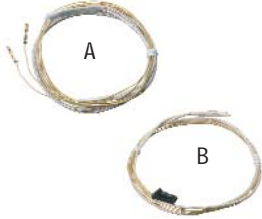
Miscellaneous Replacement Parts



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

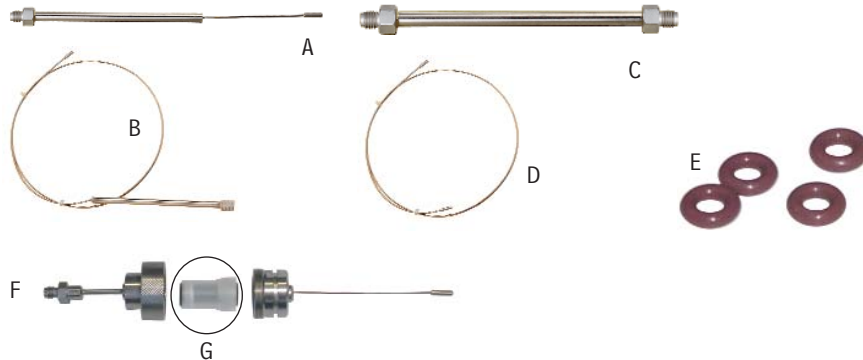
Increase the versatility of your Agilent 5890/6890 GC by replacing the existing 30psig (207kPa) backpressure regulator and gauge with our 60psig (414kPa) regulator. Enables you to use longer 60m and 105m columns as well as shorter 10m columns. Includes complete instructions.

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 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



did you know?

Restek offers a full line of chemical and moisture traps for gas purification. Visit us at www.restek.com for a complete product listing.



Dual-Column mini-Lam Direct Injection Tee for 1/4-Inch Packed Column Inlets

The *mini-Lam* Direct Injection Liner is designed to fit 1/4-inch packed column injectors. A Press-Tight® taper in each outlet leg makes a perfect, dead-volume-free connection with each analytical column (OD ranging from 0.4 to 0.8mm) and allows visual confirmation of the column connection. The open-top design makes it easy to pack with glass wool to keep 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 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



Oven Flapper Assemblies for Agilent 5890/6890 GCs

new!

- 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 5890/6890 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



Fittings and Ferrules



For use with
0.25/0.32mm ID
columns.

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.

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



For use with 0.53mm
ID columns.

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.

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.	Vespe!®/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.

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

RESTEK

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.



Make your injection port threads like new!

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", 3/16", 1/4").
- Stainless steel surface brush.
- Stainless steel jet reamers.
- Emery cloth.

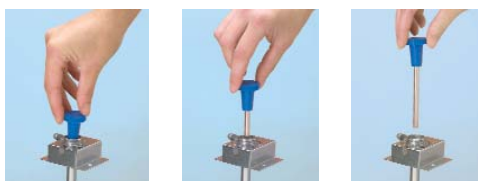
Use Restek's Cleaning Kit with ANY injection port!



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

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.



No more burned fingers!

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

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



FID Collector Housing Kits for Agilent GCs

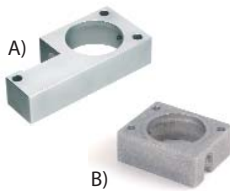
- Meets or exceeds manufacturer’s performance.



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

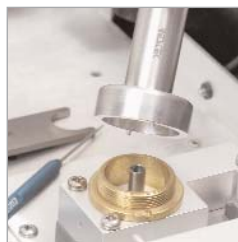
Note: 6890 GC connections to EPC modules are not compatible with the 7890 EPC modules.

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



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

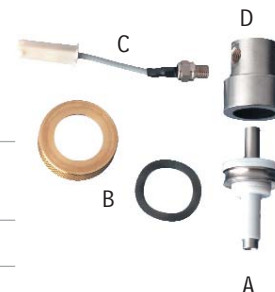


Replacement FID Parts for Agilent 5890 GCs

- Meets or exceeds manufacturer’s performance.

Description	Similar to Agilent part #	qty.	cat.#
A) FID Collector (includes insulators)	19231-20970 19231-20960 19231-20950 19231-20940	ea.	21138
B) FID Collector Nut and Washer	5181-3311	set	21136
C) FID Ignitor*	19231-60680	ea.	21001
D) FID Ignitor Castle	19231-20910	ea.	21137
Siltek® FID Ignitor Castle	—	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



FID Gauge Pack for Agilent 5890 GCs

Pressure regulators and gauges for air & hydrogen. The 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



AGILENT 5890 | REPLACEMENT INSTRUMENT SUPPLIES



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**

0.011-Inch ID Tip	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
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

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

0.018-Inch ID Tip	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
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

0.030-Inch ID Tip	Similar to Agilent part #	qty.	cat.#	qty.	cat.#
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

- 0.018-inch ID jets: Used for most general-purpose packed column applications.
- 0.030-inch ID jets: For packings that exhibit high bleed and that frequently clog the tip of smaller 0.018-inch jets.

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.



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



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.
- 1/16-inch nut uses standard graphite or Vespel®/graphite ferrules.
- Wrench pad won't turn when installing a capillary column.
- Includes 1/4- and 1/16-inch stainless steel nuts, and 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.

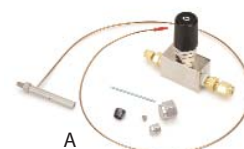
Description	Similar to Agilent part #	qty.	cat.#
FID/NPD Capillary Adaptor Fitting	19244-80610	ea.	22077



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, 1/4" nut and ferrule, 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, 1/4" nut and ferrule, 1/16" nut, 0.4mm ID graphite ferrule		kit	21324
C) ECD/FID Replacement Fitting Kit with Flow Manifold Connection Includes: replacement fitting, 1/4" nut, Vespel®/graphite ferrule, 1/16" nut, 0.4mm ID graphite ferrule, Siltek® treated guide		kit	21301
Replacement ECD Siltek® Metal Liner		2-pk.	21302
Replacement ECD Fused Silica Liner	19233-20625	ea.	27192
		5-pk.	27193
Replacement Micro ECD Liner	G2397-20540	ea.	27190
		5-pk.	27191



did you know?

Restek now carries electron multipliers. Visit us at www.restek.com for a complete product listing.

Replacement Cables

did you know?

Restek provides pin schematics.

Replacement Cables for Agilent GCs, Integrators, & Autosamplers

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



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



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.	22692



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









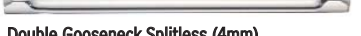





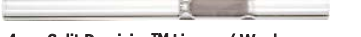
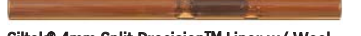








AGILENT5890 | REPLACEMENT INSTRUMENT SUPPLIES



Inlet Liners for Agilent GCs



Splitless Liners for Agilent GCs	Benefits/Uses	ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
 2mm Splitless	trace samples $2\mu\text{L}$	2.0 ID 6.5 OD x 78.5	5181-8818 (ea.) 5183-4703 (5-pk.) 5183-4704 (25-pk.)	20712	20713	20714
 4mm Splitless	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	210-3003 (ea.) 210-3003-5 (5-pk.)	20772	20773	20774
 Siltek® 4mm Splitless	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	—	20772-214.1	20773-214.5	20774-214.25
 4mm Splitless w/ Wool	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	22400	22401	22402
 Gooseneck Splitless (4mm)†	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	5181-3316 (ea.) 5183-4695 (5-pk.) 5183-4696 (25-pk.)	20798	20799	20800
 Siltek® Gooseneck Splitless (4mm)†	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	—	20798-214.1	20799-214.5	20800-214.25
 Gooseneck Splitless (4mm) w/ Wool†	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	22405	22406	22407
 Siltek® Gooseneck Splitless (4mm) w/ Wool†	trace samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	—	22405-213.1	22406-213.5	22407-213.25
 Double Gooseneck Splitless (4mm)	trace, active samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	5181-3315 (ea.) 5183-4705 (5-pk.) 5183-4706 (25-pk.)	20784	20785	20786
 Cyclo Double Gooseneck (4mm)	trace, active, dirty samples >math>2\mu\text{L}</math>	4.0 ID 6.5 OD x 78.5	—	20895	20896	20997
Split Liners for Agilent GCs	Benefits/Uses	ID*/OD & Length (mm)	Similar to Agilent part#	ea.	cat.# 5-pk.	25-pk.
 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
 Cup Splitter	high & low MW compounds	4.0 ID 6.3 OD x 78.5	18740-80190 (ea.) 5183-4699 (5-pk.)	20709	20710	—
 Cyclo splitter®	dirty samples, many injections before cleaning required	4.0 ID 6.3 OD x 78.5	—	20706	20707	20708
 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.) new!	22983	22984	22985
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
DI Liners for Agilent GCs (For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses	ID*/OD & Length (mm)	Similar to Agilent part #	ea.	cat.# 5-pk.	25-pk.
 Drilled Uniliner® (hole near top)	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	21054	21055	20998
 Siltek® Drilled Uniliner® (hole near top)	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	—	21054-214.1	21055-214.5	20998-214.25
 Drilled Uniliner® (hole near bottom)	trace, active samples, high recovery & linearity	4.0 ID 6.3 OD x 78.5	G1544-80730	20756	20771	—

*Nominal ID at syringe needle expulsion point.

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

†Use this liner for increased sensitivity

Agilent Part #	Page #	Restek Cat.#	Description
03394-60540	20	20655	Cable: Agilent 3396 Intg Remote Start
03394-60540	20	20656	Cables: Agilent 3396 Intg Remote Start, 2-pk.
03394-60560	20	20654	Cable: Agilent 5890GC to 3396 Remote Start
05890-60800	20	20652	Cable: Agilent 5890GC to Strip Chart/Intg
05890-60800	20	20653	Cables: Agilent 5890GC to Strip Chart/Intg, 2-pk.
05890-61030	12	23040	Oven Temp Sensor
05890-61080	20	20657	Cable: Agilent 5890GC Remote Start Cable
05890-61140	7	22068	Injector/FID Heater + Injector/FID PRT Sensor
05890-61260	12	21610	Replacement Chemical Trap
05890-61525	21	22343	Parking Post
05890-80560	13	22994	Oven Flapper Assembly
05921-21170	4, 10	20883	Stainless Steel Capillary Column Nut, 2-pk.
05921-21170	10	21879	Brass Capillary Column Nut, 2-pk.
07673-21140	21	21237	Injector Mounting Post
07673-60605	21	22855	Turret Tray Assembly
07673-60810	21	22337	Injector Turret Motor
07673-60890	21	22693	Carriage Motor
07673-61275	21	22695	Autosampler Plunger Carrier Belt
1500-0676	21	22692	Carriage Motor Belt
1500-0803	21	22332	Z-Belt
18597-60805	21	21236	Injector Mounting Post
18710-20119	18	21694	FID Jet, Standard, 0.018-Inch ID Tip
18710-20119	18	21695	FID Jet, Standard, 0.018-Inch ID Tip, 3-pk.
18710-20119	18	21696	FID Jet, Siltek® Treated, 0.018-Inch ID Tip
18710-20119	18	21697	FID Jet, Siltek® Treated, 0.018-Inch ID Tip, 3-pk.
18740-20800	4, 5, 14	22078	Reducing Nut
18740-20880	9	21316	1.2mm Opening Replacement Inlet Seal, 2-pk.
18740-20880	9	21315	0.8mm Opening Replacement Inlet Seal, 2-pk.
18740-20885	9	21318	1.2mm Opening Replacement Inlet Seal, 2-pk.
18740-20885	9	21317	0.8mm Opening Replacement Inlet Seal, 2-pk.
18740-20940	7	20409	Heat Sink
18740-60835	4, 5, 11	20631	Autosampler & PTV Septum Nut
18740-60835	11	21309	Manual Injection Septum Nut
18740-80190	22	20709	Cup Splitter Liner
18789-80070	18	21686	FID Jet, Siltek® Treated, 0.030-Inch ID Tip
18789-80070	18	21687	FID Jet, Siltek® Treated, 0.030-Inch ID Tip, 3-pk.
18789-80070	18	21688	FID Jet, Standard, 0.030-Inch ID Tip
18789-80070	18	21689	FID Jet, Standard, 0.030-Inch ID Tip, 3-pk.
19231-00130	16	22329	Spanner Wrench for FID Collector Assembly
19231-20910	17	21137	FID Ignitor Castle
19231-20920	16	23037	FID Collector Housing Kit
19231-20930	16	23036	FID Collector Mount
19231-20940	17	21136	FID Collector Nut and Washer, set
19231-20950	17	21138	FID Collector (includes insulators)
19231-20960	17	21138	FID Collector (includes insulators)
19231-20970	17	21138	FID Collector (includes insulators)
19231-60620	7	22069	Injector/FID Heater
19231-60660	7	23035	Injector/FID PRT Sensor
19231-60680	17	21001	FID Ignitor
19231-60690	17	23010	FID Collector Assembly Kit (includes insulators)
19231-80580	16	23041	FID Base Weldment
19233-20625	19	27192, 27183	Replacement ECD Fused Silica Liner
19243-80570	13	21691	Siltek® Septum Packed Purge Port Weldment
19244-80560	18	20670	FID Jet, Standard, 0.011-Inch ID Tip
19244-80560	18	20671	FID Jet, Standard, 0.011-Inch ID Tip, 3-pk.
19244-80560	18	20672	FID Jet, Siltek® Treated, 0.011-Inch ID Tip
19244-80560	18	20673	FID Jet, Siltek® Treated, 0.011-Inch ID Tip, 3-pk.
19244-80610	19	22077	FID/NPD Capillary Adaptor Fitting
19246-60630	12	20634	Backpressure Regulator Kit
19247-60510	13	22076	Air Diverter
19251-00100	11, 15	22065	Injector Wrench
19251-20620	12	22080	Heater Block Retaining Nut
19251-60540	22	22400	4mm Splitless Liner w/ Wool
19251-60540	22	20781	4mm Split Liner w/ Wool
19251-60575	6	20265	Replacement Weldment
19251-60575	6	20267	Siltek® Weldment
19251-80525	12	22800	Split Vent Line (32-inch), 2-pk.
19251-80570	6	20266	Replacement Shell Weldment
19251-80570	6	20268	Siltek® Shell Weldment
19301-60660	17	21000	FID Flow Measuring Adaptor
19362-60500	12	21158	Replacement Chemical Trap
210-3003	22	20772	4mm Splitless Liner
210-3003-5	22	20773	4mm Splitless Liner, 5-pk.
210-4004-5	22	21023	4mm Split Precision™ Liner w/ Wool, 5-pk.
210-4022-5	22	22984	4mm Gooseneck Precision™ Liner, 5-pk.
35900-60610	20	20650	Cable: Agilent 5890GC to 3396 Integrator
35900-60610	20	20651	Cables: Agilent 5890GC to 3396 Integrator, 2-pk.
35900-60630	20	20658	Cable: Agilent 3396 Intg to Generic GC
35900-60630	20	20659	Cables: Agilent 3396 Intg to Generic GC, 2-pk.

Agilent Part #	Page #	Restek Cat.#	Description
35900-60700	20	20660	Cable: Remote Start Agilent 7673A/35900C
35900-60700	20	20661	Cables: Remote Start Agilent 7673A/35900C, 2-pk.
5020-8292	10	21040	Finger-Tight Capillary Column Nuts for Compact Ferrules, 2-pk.
5020-8292	10	21041	Finger-Tight Capillary Column Nuts for Standard 1/16" Ferrules, 2-pk.
5020-8293	10	21040	Finger-Tight Capillary Column Nuts for Compact Ferrules, 2-pk.
5020-8293	10	21041	Finger-Tight Capillary Column Nuts for Standard 1/16" Ferrules, 2-pk.
5020-8294	19	21883	Detector Plug Nut, 2-pk.
5061-5869	9	21710	Replacement Inlet Seal Washers, 15-pk.
5062-3580	14	20241	Replacement Ferrules for Dual-Column Confirmational Analysis, 5-pk.
5062-3581	14	20242	Replacement Ferrules for Dual-Column Confirmational Analysis, 5-pk.
5062-3587	22	22405	Gooseneck Splitless Liner (4mm) w/ Wool
5080-8898	13	21685	Viton® Replacement O-rings, 10-pk.
5180-4165	16	23064	Silicone Washers for FID Collector Housing, 12-pk.
5180-4181	6, 12	22064	O-rings for Agilent Trap Fittings, 25-pk.
5181-3311	17	21136	FID Collector Nut and Washer, set
5181-3315	22	20784	Double Gooseneck Splitless Liner (4mm)
5181-3316	22	20798	Gooseneck Splitless Liner (4mm)
5181-8818	22	20712	2mm Splitless Liner
5181-8830	5, 10	21884	Stainless Steel Capillary Column Nut, 2-pk.
5181-8830	10	21878	Brass Capillary Column Nut, 2-pk.
5182-9652	9	20476	0.8mm ID Cross-Disk Inlet Seal, 10-pk.
5182-9652	9	20477	0.8mm ID Cross-Disk Inlet Seal, 2-pk.
5183-4647	22	21032	Low Pressure Drop Liner w/ Wool
5183-4691	22	22401	4mm Splitless Liner w/ Wool, 5-pk.
5183-4691	22	20782	4mm Split Liner w/ Wool, 5-pk.
5183-4692	22	22402	4mm Splitless Liner w/ Wool, 25-pk.
5183-4692	22	20783	4mm Split Liner w/ Wool, 25-pk.
5183-4693	22	22406	Gooseneck Splitless Liner (4mm) w/ Wool, 5-pk.
5183-4694	22	22407	Gooseneck Splitless Liner (4mm) w/ Wool, 25-pk.
5183-4695	22	20799	Gooseneck Splitless Liner (4mm), 5-pk.
5183-4696	22	20800	Gooseneck Splitless Liner (4mm), 25-pk.
5183-4699	22	20710	Cup Splitter Liner, 5-pk.
5183-4701	22	21033	Low Pressure Drop Liner w/ Wool, 5-pk.
5183-4703	22	20713	2mm Splitless Liner, 5-pk.
5183-4704	22	20714	2mm Splitless Liner, 25-pk.
5183-4705	22	20785	Double Gooseneck Splitless Liner (4mm), 5-pk.
5183-4706	22	20786	Double Gooseneck Splitless Liner (4mm), 25-pk.
5183-4711	22	20994	Low Pressure Drop Liner w/ Wool, 5-pk.
5183-4712	22	20995	Low Pressure Drop Liner w/ Wool, 5-pk.
5183-4713	22	20996	Low Pressure Drop Liner w/ Wool, 25-pk.
G1530-60930	20	20929	Cable: Automatic Liquid Sampler Stop/Start Cable
G1530-61030	12	23039	Oven Temp Sensor
G1530-80560	13	22995	Oven Flapper Assembly
G1530-80650	13	22076	Air Diverter
G1531-20550	16	23043	FID Collector Mount
G1531-20550	16	23045	FID Collector Housing Kit
G1531-20740	16	23044	FID Collector Housing
G1531-80580	16	23052	FID Base Weldment, Pack Column FID
G1531-80630	16	23053	FID Base Weldment, Capillary Column FID
G1544-20590	12	23042	Heater Block Retaining Nut
G1544-20620	12	22800	Split Vent Line for Agilent GCs (32-inch), 2-pk.
G1544-60575	6	22674	Replacement Weldment with EPC
G1544-60575	6	22672	Siltek® Weldment with EPC
G1544-60585	6	22686	Optional Split/Splitless Weldment
G1544-60585	6	22670	Siltek® Optional Split/Splitless Weldment
G1544-60610	6, 12	23031	Optional Split Vent Trap Assembly
G1544-80530	6, 12	23032	Replacement Traps (2) and O-rings (4)
G1544-80550	12	22820	Replacement Split Vent Trap
G1544-80570	6	22673	Replacement Shell Weldment
G1544-80570	6	22671	Siltek® Shell Weldment
G1544-80730	22	20756	Drilled Uniliner® Liner
G1544-80730	22	20771	Drilled Uniliner® Liner, 5-pk.
G2397-20540	19	27190, 27191	Replacement Micro ECD Liner
G2613-20500	21	21172	Injector Mounting Post

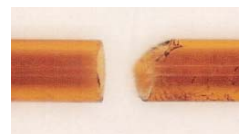


Cool Tools!

Restek Innovations Save You Time and Money

A Clean Square Cut...

The key to obtaining a leak-tight seal in a Press-Tight® connector—or in other connecting devices that make a compression seal with the end of the column—is a clean, square cut at the end of the column. If you use an unsuitable device to cut your columns, you run the risk of angled cuts or chipped or jagged edges that will not seal effectively, or even crushing the end of the column. We offer a selection of scoring tools that will help you properly cut your columns.



Make a square, clean cut for optimum connector performance. The cut on the right will produce a poor seal.

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

Scoring Wafer with Handle

qty.

2-pk.

cat.#

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.



Exert just enough pressure to put a slight arc in the tubing. The tubing should fall off or break with a slight tap of the wafer.



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



Description

Ceramic Scoring Wafers

qty.

5-pk.

cat.#

20116

Sapphire Scribe

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



One quick stroke...



...and just a tap leaves a clean, square end.



Description

Sapphire Scribe

qty.

ea.

cat.#

20182



Lit. Cat.# 580216-INT

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