



Restek GC

Minimize Maintenance Time with Finger-Tight GC Fittings

- Speed up column installation with Hot Swap column nuts.
 - *No waiting for the injector to cool.*
 - *No cumbersome wrenches.*
 - *And no burned fingers!*
- Improve data consistency—finger-tight gauges help you set insertion distances quickly and accurately.

Now available
for most major
GC models!



RESTEK

Pure Chromatography

www.restek.com



CHROMATOGRAPHIC SPECIALTIES INC.

1-800-267-8103 • chromspec.com • tech@chromspec.com



Simplify and Speed Up Maintenance for All Your GCs with Finger-Tight Fittings

Reduce Instrument Downtime with Quicker Connections

Spending too much time on column installation and maintenance? Finger-tight GC fittings are faster and easier to install than traditional fittings, and they give you leak-tight connections with much less effort. Switch today to increase sample throughput and improve lab productivity.

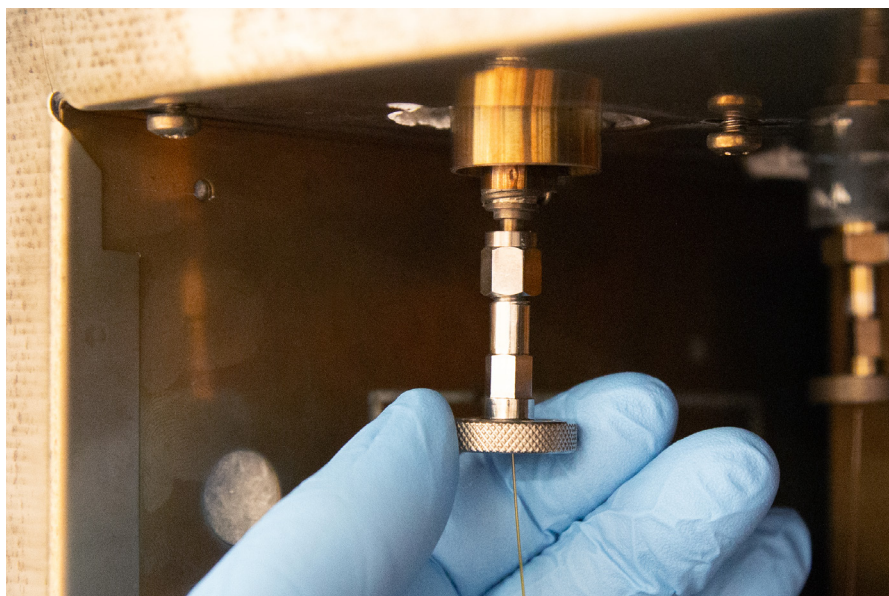
Finger-tight GC fittings simply twist into place—no more time-consuming, cumbersome wrench work!



Now available for Agilent, PerkinElmer, Shimadzu, and Thermo GCs, so you can streamline operations and ordering for all your instruments.

Keep Cool with Hot Swap Technology

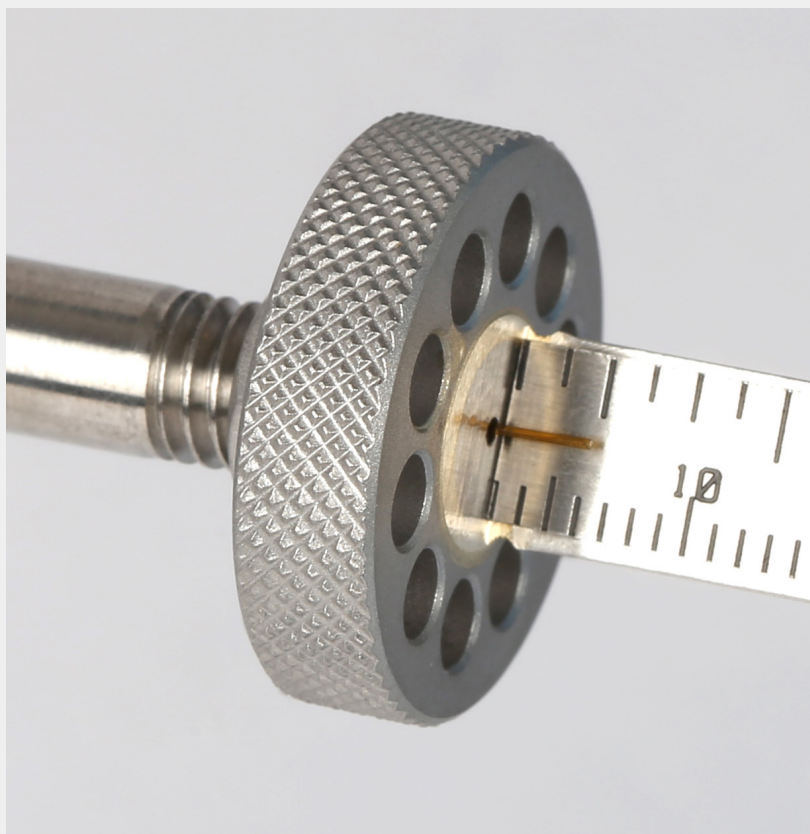
The heat-dissipating design of Hot Swap finger-tight column nuts lets you save time by changing the column while the injector is still hot. With Hot Swap column nuts, you can finish maintenance faster without burning your fingers or waiting for the instrument to cool down.



Quick-cooling Hot Swap column nuts mean no burnt fingers and no downtime for cooling.

Ensure Better Data Quality with Finger-Tight Gauges

Consistent column insertion distance is the key to stable chromatographic performance and reliable results. Reduce user variation, poor peak shape, and low response by using finger-tight capillary gauges to quickly seat ferrules in exactly the right place for every installation.



Get consistent insertion distances quickly and accurately with finger-tight capillary gauges.

Switch to Finger-Tight Fittings to Speed Up and Simplify Maintenance for All Your GCs!

Agilent GCs (except Intuvo)

For Agilent GCs, use 1/16" graphite or 60:40 Vespel:graphite ferrules to ensure a proper seal. Visit www.restek.com our full selection!



22347

Hot Swap Capillary Column Nuts

Catalog No.	Product Name	Units
22347	Hot Swap Capillary Column Nut for Agilent Standard 1/16" Ferrules, for Agilent and Thermo TRACE 1300/1310, 1600/1610 GCs	ea.
22348	Hot Swap Capillary Column Nut for Agilent Compact Ferrules, for Agilent and Thermo TRACE 1300/1310, 1600/1610 GCs	ea.



21317

Inlet Seals

Catalog No.	Product Name	Units
21317	Replacement Inlet Seals, 0.8 mm, Gold-Plated, for Agilent GCs, 2-pk.	2-pk.
21319	Replacement Inlet Seals, 0.8 mm, Siltek Treated, for Agilent GCs, 2-pk.	2-pk.
21315	Replacement Inlet Seals, 0.8 mm, Stainless Steel, for Agilent GCs, 2-pk.	2-pk.
21240	Dual Vespel Ring Inlet Seals, 0.8 mm, Gold-Plated, for Agilent GCs, 2-pk.	2-pk.
21242	Dual Vespel Ring Inlet Seals, 0.8 mm, Siltek Treated, for Agilent GCs, 2-pk.	2-pk.
21238	Dual Vespel Ring Inlet Seals, 0.8 mm, Stainless Steel, for Agilent GCs, 2-pk.	2-pk.



22078

Reducing Nut

Catalog No.	Product Name	Units
22078	Direct Replacement Reducing Nut, for Agilent 5890/6850/6890/7890/8890 GCs	ea.

Installation Gauge

Catalog No.	Product Name	Units
27228	Finger-Tight Column Installation Gauge with Agilent-Style GC Inlet Fitting for Agilent GCs (except Intuvo); PerkinElmer Clarus 590/690 and GC2400 GCs; Thermo TRACE 1300/1310 and 1600/1610 GCs	ea.

Ceramic Wafer

Catalog No.	Product Name	Units
20116	Ceramic Scoring Wafer Tool	5-pk.



27224

For Use with Flip Seal Dual Vespel Ring Inlet Seals

Hot Swap Capillary Column Nuts

Catalog No.	Product Name	Units
27224	Hot Swap Column Nut for 1/16" Fittings	ea.

Flip Seal Inlet Seals

Catalog No.	Product Name	Units
23411	Flip Seal Dual Vespel Ring Inlet Seals, 1.2 mm, Gold-Plated, 2-pk.	2-pk.
23412	Flip Seal Dual Vespel Ring Inlet Seals, 1.2 mm, Siltek Treated, 2-pk.	2-pk.



23406

Reducing Nut

Catalog No.	Product Name	Units
23406	Flip Seal Dual Vespel Ring Inlet Seal Kit (includes: gold-plated inlet seal, reducing nut adaptor, 1/16" SS nut)	kit

Installation Gauge

Catalog No.	Product Name	Units
27227	Capillary Installation Gauge, for 1/16" Fittings	ea.

PerkinElmer Clarus 590/690 GCs and GC2400 GCs

For PerkinElmer GCs, use 1/16" graphite or 60:40 Vespel:graphite ferrules to ensure a proper seal. Visit www.restek.com our full selection!

Hot Swap Capillary Column Nuts

Catalog No.	Product Name	Units
22347	Hot Swap Capillary Column Nut for Agilent Standard 1/16" Ferrules, for Agilent and Thermo TRACE 1300/1310, 1600/1610 GCs	ea.
22348	Hot Swap Capillary Column Nut for Agilent Compact Ferrules, for Agilent and Thermo TRACE 1300/1310, 1600/1610 GCs	ea.



22348

Inlet Seals

Catalog No.	Product Name	Units
21317	Replacement Inlet Seals, 0.8 mm, Gold-Plated, for Agilent GCs, 2-pk.	2-pk.
21319	Replacement Inlet Seals, 0.8 mm, Siltek Treated, for Agilent GCs, 2-pk.	2-pk.
21315	Replacement Inlet Seals, 0.8 mm, Stainless Steel, for Agilent GCs, 2-pk.	2-pk.
21240	Dual Vespel Ring Inlet Seals, 0.8 mm, Gold-Plated, for Agilent GCs, 2-pk.	2-pk.
21242	Dual Vespel Ring Inlet Seals, 0.8 mm, Siltek Treated, for Agilent GCs, 2-pk.	2-pk.
21238	Dual Vespel Ring Inlet Seals, 0.8 mm, Stainless Steel, for Agilent GCs, 2-pk.	2-pk.



21319

Reducing Nut

To use Hot Swap capillary column nuts with PerkinElmer GCs, you must first replace the original reducing nut with this compatible reducing nut.

Catalog No.	Product Name	Units
22078	Direct Replacement Reducing Nut, for Agilent 5890/6850/6890/7890/8890 GCs	ea.

Installation Gauge

Catalog No.	Product Name	Units
27228	Finger-Tight Column Installation Gauge with Agilent-Style GC Inlet Fitting for Agilent GCs (except Intuvo); PerkinElmer Clarus 590/690 and GC2400 GCs; Thermo TRACE 1300/1310 and 1600/1610 GCs	ea.



20116

Ceramic Wafer

Catalog No.	Product Name	Units
20116	Ceramic Scoring Wafer Tool	5-pk.

For Use with Flip Seal Dual Vespel Ring Inlet Seals

Hot Swap Capillary Column Nuts

Catalog No.	Product Name	Units
27224	Hot Swap Column Nut for 1/16" Fittings	ea.



23411

Flip Seal Inlet Seals

Catalog No.	Product Name	Units
23411	Flip Seal Dual Vespel Ring Inlet Seals, 1.2 mm, Gold-Plated, 2-pk.	2-pk.
23412	Flip Seal Dual Vespel Ring Inlet Seals, 1.2 mm, Siltek Treated, 2-pk.	2-pk.

Reducing Nut

Catalog No.	Product Name	Units
23406	Flip Seal Dual Vespel Ring Inlet Seal Kit (includes: gold-plated inlet seal, reducing nut adaptor, 1/16" SS nut)	kit



27227

Installation Gauge

Catalog No.	Product Name	Units
27227	Capillary Installation Gauge, for 1/16" Fittings	ea.

Shimadzu 2010, 2010 Plus and 2030 (and 17A and 2014) GCs

Standard Inlet (SPL Injector)



27230

Hot Swap Column Nut

Catalog No.	Product Name	Units
27230	Hot Swap Capillary Column Nut for Shimadzu 2010, 2010 Plus, 2030, 17A, 2014 GCs	ea.

Installation Gauge



27229

Catalog No.	Product Name	Units
27229	Finger-Tight Column Installation Gauge with Shimadzu-Style GC Inlet Fitting for Shimadzu 2010, 2010 Plus, 2030, 17A, and 2014 GCs	ea.

Ferrules



24827

Catalog No.	Product Name	Units
24827	Ferrules, Capillary, Graphite, Two-Piece, for Shimadzu 17A, 2010, 2014, and 2030 GCs, 0.4 mm ID for ≤ 0.25 mm columns, 10-pk.	10-pk.
24828	Ferrules, Capillary, Graphite, Two-Piece, for Shimadzu 17A, 2010, 2014, and 2030 GCs, 0.5 mm ID for 0.32 mm columns, 10-pk.	10-pk.
24829	Ferrules, Capillary, Graphite, Two-Piece, for Shimadzu 17A, 2010, 2014, and 2030 GCs, 0.8 mm ID for 0.53 mm columns, 10-pk.	10-pk.

For Conversion to Standard $\frac{1}{16}$ " Ferrules

Conversion Kit

Catalog No.	Product Name	Units
27220	Tool-free GC Column Installation Kit, for Shimadzu 17A, 2010, 2014, and 2030 GCs (includes: inlet adaptor, retaining nut, back washer, and hot swap column nut)	kit

Installation Gauge

Catalog No.	Product Name	Units
27227	Capillary Installation Gauge, for $\frac{1}{16}$ " Fittings	ea.

Ceramic Wafer

Catalog No.	Product Name	Units
20116	Ceramic Scoring Wafer Tool	5-pk.

Thermo 1300/1310 and 1600/1610 GCs

For Thermo GCs, use 1/16" graphite or 60:40 Vespel:graphite ferrules to ensure a proper seal. Visit www.restek.com our full selection!

Hot Swap Column Nut

Catalog No.	Product Name	Units
22347	Hot Swap Capillary Column Nut for Agilent Standard 1/16" Ferrules, for Agilent and Thermo TRACE 1300/1310, 1600/1610 GCs	ea.
22348	Hot Swap Capillary Column Nut for Agilent Compact Ferrules, for Agilent and Thermo TRACE 1300/1310, 1600/1610 GCs	ea.



22347

Inlet Seals

Catalog No.	Product Name	Units
21317	Replacement Inlet Seals, 0.8 mm, Gold-Plated, for Agilent GCs, 2-pk.	2-pk.
21319	Replacement Inlet Seals, 0.8 mm, Siltek Treated, for Agilent GCs, 2-pk.	2-pk.
21315	Replacement Inlet Seals, 0.8 mm, Stainless Steel, for Agilent GCs, 2-pk.	2-pk.
21240	Dual Vespel Ring Inlet Seals, 0.8 mm, Gold-Plated, for Agilent GCs, 2-pk.	2-pk.
21242	Dual Vespel Ring Inlet Seals, 0.8 mm, Siltek Treated, for Agilent GCs, 2-pk.	2-pk.
21238	Dual Vespel Ring Inlet Seals, 0.8 mm, Stainless Steel, for Agilent GCs, 2-pk.	2-pk.



21317

Reducing Nut

Catalog No.	Product Name	Units
22078	Direct Replacement Reducing Nut, for Agilent 5890/6850/6890/7890/8890 GCs	ea.

Installation Gauge

Catalog No.	Product Name	Units
27228	Finger-tight column installation gauge with Agilent-style GC inlet fitting for Agilent GCs (except Intuvo); PerkinElmer Clarus 590/690 and GC2400 GCs; Thermo TRACE 1300/1310 and 1600/1610 GCs	ea.



27228

Ceramic Wafer

Catalog No.	Product Name	Units
20116	Ceramic Scoring Wafer Tool	5-pk.

For Use with Flip Seal Dual Vespel Ring Inlet Seals

Hot Swap Column Nut

Catalog No.	Product Name	Units
27224	Hot Swap Column Nut for 1/16" Fittings	ea.



27224

Flip Seals

Catalog No.	Product Name	Units
23411	Flip Seal Dual Vespel Ring Inlet Seals, 1.2 mm, Gold-Plated, 2-pk.	2-pk.
23412	Flip Seal Dual Vespel Ring Inlet Seals, 1.2 mm, Siltek Treated, 2-pk.	2-pk.



23406

Reducing Nut

Catalog No.	Product Name	Units
23406	Flip Seal Dual Vespel Ring Inlet Seal Kit (includes: gold-plated inlet seal, reducing nut adaptor, 1/16" SS nut)	kit

Installation Gauge

Catalog No.	Product Name	Units
27227	Capillary Installation Gauge, for 1/16" Fittings	ea.

Thermo TRACE and Focus GCs

For Thermo TRACE and Focus GCs, use 1/16" graphite or 60:40 Vespel:graphite ferrules to ensure a proper seal. Visit www.restek.com our full selection!



24917

Capillary S/SL Injector Adaptor

Catalog No.	Product Name	Units
24917	Adaptor for Capillary Column on Split/Splitless Injector, for Thermo TRACE and Focus SSL, for use w/Standard 1/16" type Ferrules	ea.



27224

Hot Swap Column Nut

Catalog No.	Product Name	Units
27224	Hot Swap Column Nut for 1/16" Fittings	ea.

Installation Gauge

Catalog No.	Product Name	Units
27227	Capillary Installation Gauge, for 1/16" Fittings	ea.

Ceramic Wafer

Catalog No.	Product Name	Units
20116	Ceramic Scoring Wafer Tool	5-pk.

Make Life Easier—Everything You Need in One Convenient Kit!

MLE Kits



22186

Catalog No.	Instrument	Product Name
22186	Agilent	<p>MLE (Make Life Easier) Capillary Tool Kit, for Agilent GCs</p> <p>Includes:</p> <ul style="list-style-type: none"> • Capillary installation gauge for Agilent GCs • Inlet 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/ferrule removers (0.25–0.65 mm 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 • Slide-lock tweezers • Scoring wafers • Inlet liner removal tool • Septum puller • Mini wool puller/insertor tool • 4-inch tapered needle file • Flashlight • Mini hand drill set • 15 cm compact steel ruler • Pocket magnifier • High-temperature string (1 meter) • Pipe cleaner (12-inch) • Cotton tip swabs (pk. of 25)

Continued

Catalog No.	Instrument	Product Name
22185	PerkinElmer	<p>MLE (Make Life Easier) Capillary Tool Kit, for PerkinElmer GCs</p> <p>Includes:</p> <ul style="list-style-type: none"> • 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/ferrule removers (0.25–0.65 mm 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 • Slide-lock tweezers • Scoring wafers • Inlet liner removal tool • Septum puller • Mini wool puller/insertor tool • 4-inch tapered needle file • Flashlight • Mini hand drill set • 15 cm compact steel ruler • Pocket magnifier • High temperature string (1 meter) • Pipe cleaner (12-inch) • Cotton tip swabs (pk. of 25)
22182	Shimadzu	<p>MLE (Make Life Easier) Capillary Tool Kit, for Shimadzu GCs</p> <p>Includes:</p> <ul style="list-style-type: none"> • Capillary installation gauge for Shimadzu GCs • Inlet wrench for Shimadzu GCs • 1/8", 3/16", and 1/4" nylon brushes • 1/4", 3/8", and 3/16" stainless-steel wire tube brushes • Stainless-steel surface brush • 6 stainless-steel jet reamers/ferrule removers (0.25–0.65 mm OD) • 1/4" x 5/16" open-end wrench • 3/8" x 7/16" open-end wrench • 6 mm x 7 mm open-end wrench • 8 mm x 10 mm open-end wrench • 16 mm x 17 mm open-end wrench • Slide-lock tweezers • Scoring wafers • Inlet liner removal tool • Septum puller • Mini wool puller/insertor tool • 4-inch tapered needle file • Flashlight • Mini hand drill set • 15 cm compact steel ruler • Pocket magnifier • High-temperature string (1 meter) • Pipe cleaner (12 inch) • Cotton tip swabs (pk. of 25)
27216	Thermo	<p>MLE (Make Life Easier) Capillary Tool Kit, for Thermo TRACE 1300/1310, 1600/1610 GCs</p> <p>Includes:</p> <ul style="list-style-type: none"> • Capillary installation gauge for use with M4 ferrules • 1/16" capillary installation tool • 1/8", 3/16", and 1/4" nylon tube brushes • 1/4", 3/8", and 3/16" stainless-steel wire tube brushes • Stainless-steel surface brush • Stainless-steel jet reamers/ferrule removers (0.25–0.65 mm OD) • 1/4" x 5/16" open-end wrench • 3/8" x 7/16" open-end wrench • 6 mm x 7 mm open-end wrench • 8 mm x 10 mm open-end wrench • 16 mm x 17 mm open-end wrench • Slide-lock tweezers • Scoring wafers • Inlet liner removal tool • Septum puller • Mini wool puller/insertor tool • 4-inch tapered needle file • Flashlight • Mini hand drill set; 1 of each size: 0.4/0.5/0.8 mm • 15 cm compact steel ruler • Pocket magnifier • High-temperature string (1 m) • Pipe cleaner (12") • Cotton tip swabs (pk. of 25)



22185

Continued

Catalog No.	Instrument	Product Name
22183	Thermo	<p>MLE (Make Life Easier) Capillary Tool Kit, for older Thermo TRACE GCs, Focus SSL, and PTV injectors (using M4 ferrules)</p> <p>Includes:</p> <ul style="list-style-type: none"> • Capillary installation gauge for older Thermo Scientific TRACE GCs, Focus SSL, and PTV injectors (using M4 ferrules) • Liner cap removing tool for Thermo Scientific GCs • 1/8", 3/16", and 1/4" nylon brushes • 1/4", 3/8", and 3/16" stainless-steel wire tube brushes • Stainless-steel surface brush • 6 stainless-steel jet reamers/ferrule removers (0.25–0.65 mm OD) • 1/4" x 5/16" open-end wrench • 3/8" x 7/16" open-end wrench • 6 mm x 7 mm open-end wrench • 8 mm x 10 mm open-end wrench • 16 mm x 17 mm open-end wrench • Slide-lock tweezers • Scoring wafers • Inlet liner removal tool • Septum puller • Mini wool puller/insertor tool • 4-inch tapered needle file • Flashlight • Mini hand drill set • 15 cm compact steel ruler • Pocket magnifier • High-temperature string (1 m) • Pipe cleaner (12") • Cotton tip swabs (pk. of 25)



22183

Restek Electronic Leak Detector

New and improved! Prevent small leaks from causing big problems with a Restek leak detector.

- Detects a broad range of gases and indicates leak severity with both an LED display and audible tone.
- No more waiting for a full charge—can be operated during charging or used up to 12 hours between charges.
- Charging kit includes both universal AC power adaptor and USB charging cable, so you can charge anywhere, anytime.
- Pinpoint very small gas leaks quickly and accurately before they cause damage and downtime.
- Compact, handheld unit is easy to operate and convenient to use anywhere you need to check for leaks.



28500

Catalog No.	Product Name	Units
28500	Restek Electronic Leak Detector (includes: carrying case, universal AC power adaptor [U.S., UK, Europe, Australia, Japan], 6-ft USB charging cable)	ea.

RESTEK
Pure Chromatography

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