

GC ACCESSORIES QUARTERLY

Spotlight

2011.3

Accurate Results
Start With Reliable
Equipment



ProFLOW 6000
Electronic Flowmeter
See back cover.



Restek Electronic
Leak Detector
See page 5.

RESTEK

Chromatography Products

www.restek.com

True Blue Performance

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

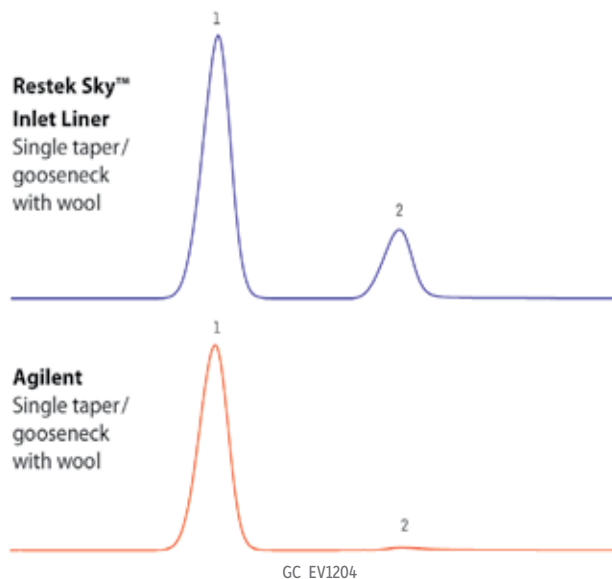
The innovative deactivation used for Sky™ liners results in exceptional inertness for a wide range of analyte chemistries. By reducing active sites and enhancing analyte transfer to the column, these liners increase accuracy and precision, allowing lower detection limits for many active compounds. In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



Greater Inertness Results in Higher Analyte Response

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

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



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






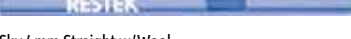












	2,4-DNP Response Factor
Restek	0.28
Agilent	0.02

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

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

Sky™ Inlet Liners for Agilent GCs

COLUMN INSTALLS THIS END




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

Sky™ Inlet Liners



Sky™ Inlet Liners for PerkinElmer GCs

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




Sky™ Inlet Liners for Shimadzu GCs

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

Splitless Liners for Shimadzu 17A, 2010, and 2014 GCs

	ID OD x Length	Similar to Shimadzu part #	ea.	cat.# 5-pk.	25-pk.
 Sky 3.5mm Single Taper / Gooseneck	3.5mm 5.0mm x 95mm	221-48335-01	23321.1	23321.5	23321.25
 Sky 3.5mm Single Taper / Gooseneck w/Wool	3.5mm 5.0mm x 95mm		23322.1	23322.5	






Sky™ Inlet Liners for Thermo Scientific GCs

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

Splitless Liners for Thermo TRACE, 8000, 8000 TOP, and Focus SSL

	ID OD x Length	Similar to TS part #	ea.	cat.# 5-pk.	25-pk.
 Sky 5mm Splitless	5.0mm 8.0mm x 105mm	453 20033	23325.1	23325.5	23325.25
 Sky 5mm Splitless w/Wool	5.0mm 8.0mm x 105mm		23326.1	23326.5	23326.25

Sky™ Inlet Liners for Varian GCs

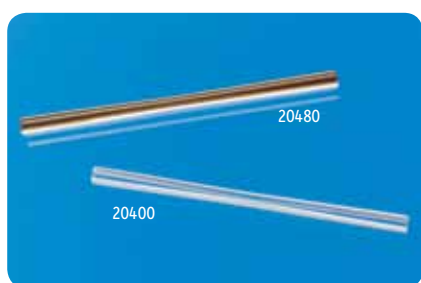
Liners for Varian 1177 S/SL Injection Ports	ID OD x Length	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 Sky 4mm Split Liner w/Glass Frit	4.0mm 6.3mm x 78.5mm		23330.1	23330.5	
 Sky 4mm Precision Liner w/Wool	4.0mm 6.3mm x 78.5mm		23328.1	23328.5	
 Sky 4mm Single Taper / Gooseneck	4.0mm 6.5mm x 78.5mm	392611927	23331.1	23331.5	
 Sky 4mm Single Taper / Gooseneck w/Wool	4.0mm 6.5mm x 78.5mm	392611936	23332.1	23332.5	
Liners for Varian 1078/1079 Injection Ports	ID OD x Length	Similar to Varian part #	ea.	cat.# 5-pk.	25-pk.
 Sky 3.4mm Split-No Frit	3.4mm 5.0mm x 54mm	392611945	23329.1	23329.5	23329.25

COLUMN INSTALLS THIS END

Get a Leak-Tight Seal Between Fused Silica Capillary Columns

Use a Press-Tight® Connector

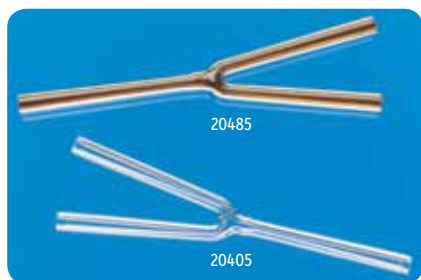
- Deactivated Press-Tight® connectors maintain complete inertness for the GC flow path.
- Siltek® treated connectors are ideal for organochlorine pesticides analysis.
- Fit column ODs from 0.33–0.74 mm (Restek 0.1 mm–0.53 mm ID).



Universal Press-Tight® Connectors

- Connect a guard column to an analytical column.
- Repair a broken column.
- Connect a column outlet to a transfer line.

Description	5-pk.	25-pk.	100-pk.
Universal Press-Tight Connectors	20400	20401	20402
Universal Press-Tight Connectors, Deactivated	20429	20430	
Universal Press-Tight Connectors, Siltek Treated	20480	20449	



Universal "Y" Press-Tight® Connectors

An alternative method of performing dual-column confirmational analyses!

- Split sample flow onto two columns.
- Split a single column flow to two detectors—perform confirmation analysis with a single injection.

Description	ea.	3-pk.
Universal "Y" Press-Tight Connector	20405	20406
Universal "Y" Press-Tight Connector, Deactivated	20405-261	20406-261
Universal "Y" Press-Tight Connector, Siltek Treated	20485	20486

Need a different type of connector? You'll find it at www.restek.com



Protect your data and analytical column!

Restek Electronic Leak Detector

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

Leak Detector with Hard-Sided Carrying Case and Universal Charger Set (US, UK, European, Australian)

Cat.# 22839

www.restek.com/leakdetector



Stock Your Lab With High-Quality, Easy-to-Use Supplies



24385

24383

2.0 mL Crimp-Top Vials, 12 x 32 mm, 11 mm

Description	Volume	Color	Material	100-pk.	1000-pk.
Vial w/White Graduated Marking Spot	2.0mL	Clear	Glass	24383	24384
Vial w/White Graduated Marking Spot	2.0mL	Amber	Glass	24385	24386
Vial without Graduated Marking Spot	2.0mL	Clear	Glass	21152	21153



21724

2.0 mL, 11 mm Aluminum Crimp Seals with Septa

Seal Color	Septa Material	100-pk.	500-pk.	1000-pk.
Silver	PTFE/Natural Rubber	21174	—	21175
Blue	PTFE/Red Rubber	24351	—	24352
Green	PTFE/Red Rubber	24353	—	24354
Red	PTFE/Red Rubber	24355	—	24356
Yellow	PTFE/Red Rubber	24357	—	24358
Mixed	PTFE/Rubber	—	21724	—
Silver	PTFE/Silicone	24359	—	24360
Blue	PTFE/Silicone	24361	—	24362
Green	PTFE/Silicone	24363	—	24364
Red	PTFE/Silicone	24365	—	24366
Yellow	PTFE/Silicone	24367	—	24368
Mixed	PTFE/Silicone	—	21725	—
Silver	PTFE/Silicone/PTFE	24369	—	24370



Crimper

Safer than removing caps with pliers, knives, or screwdriver blades!



Decapper

NEW!

Easy Grip Manual Crimpers and Decappers

Our new Easy Grip Crimpers and Decappers feature tough, light glass-filled plastic bodies with curved handles, which improve hand comfort during use. The bottom-pull handle allows for a steadier hold than top-push handles. An easily viewed adjustment knob is located at the head of the product. The clearly shown + and - symbols, along with directional arrows, simplify adjusting the intensity of the crimp/decap needed. The knob is also designed to indicate when the crimp setting has been reached, when it fully contacts the body of the product.

Description	Size	qty.	cat.#
Crimper	11mm	ea.	23396
Decapper	11mm	ea.	23397
Crimper	20mm	ea.	23398
Decapper	20mm	ea.	23399



22433



22435

NEW!

Interlock Vials

Interlock limited volume vials offer the performance and convenience of a one piece microvial for a fraction of the cost. A 300 µL insert is fused into a 12 x 32 mm clear or amber glass vial. This one piece design reduces the potential for contamination.

Description	Type	Volume	Color	Material	100-pk.	500-pk.
Interlock Vial	9mm Thread	300µL	Clear	Glass	22433	22434
Interlock Vial	9mm Thread	300µL	Amber	Glass	22435	22436
Interlock Vial	11mm Crimp or Snap Ring	300µL	Clear	Glass	22437	22438
Interlock Vial	11mm Crimp or Snap Ring	300µL	Amber	Glass	22439	22440

Gas Generators from Restek

Affordable, Reliable, and Safe

Hydrogen, Zero Air,
Nitrogen, and LC/MS Generators
as well as FID Gas Stations!

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Hamilton syringes
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Increase the Accuracy and Reproducibility of Manual Injections

- NIST traceability assures accurate injections.
- Fixed volume reduces sampling error.
- Saves time—no need to transfer to autosampler vials.
- Prevents bent syringe plungers.
- Fits Agilent-style (ball-end plunger) autosampler syringe with either fixed or removable, 23 or 26 gauge needle.
- Five injection volumes available.*

Merlin MicroShot™ Injector

Description	Merlin cat.#	qty.	cat.#
0.1µL injection volume	701-01	ea.	22226
0.2µL injection volume	701-02	ea.	22227
0.5µL injection volume	701-05	ea.	22228
1.0µL injection volume	701-10	ea.	22229
2.0µL injection volume	701-20	ea.	22230

*Syringe not included. Requires Agilent-style (ball-end plunger) autosampler syringe.



Order yours at www.restek.com/microshot

Extend Instrument Lifetime With Super-Clean Gas Filters

- High-purity output ensures 99.9999% pure gas (at max. flow of 2 L/min.).
- “Quick connect” fittings for easy, leak-tight cartridge changes.

Description	qty.	cat.#
Carrier Gas Cleaning Kit Includes: mounting base plate, 1/8" inlet/outlet fittings, and oxygen/moisture/hydrocarbon Triple Gas Filter	kit	22019
Fuel Gas Purification Kit Includes: mounting base plate, 1/8" inlet/outlet fittings, and hydrocarbon/moisture Fuel Gas Filter	kit	22021
Helium-Specific Carrier Gas Cleaning Kit Includes: mounting base plate, 1/8" inlet/outlet fittings, and oxygen/moisture/hydrocarbon Helium-Specific Filter	kit	21983

Visit www.restek.com/gas for our complete filter offering.



Protect Carrier Gas Purity and Control Outlet Pressure With UHP Regulators

Dual-Stage, Chrome-Plated Brass

Fitting	qty.	cat.#
CGA 580 (N ₂ , He, Ar)	ea.	21667
CGA 350 (H ₂ , P ₂)	ea.	21668
CGA 590 (Air)	ea.	21669

Single-Stage, Chrome-Plated Brass

Fitting	qty.	cat.#
CGA 580 (N ₂ , He, Ar)	ea.	20646
CGA 350 (H ₂ , P ₂)	ea.	20647
CGA 590 (Air)	ea.	20648

Dual-Stage, Stainless Steel

Fitting	qty.	cat.#
CGA 580 (N ₂ , He, Ar)	ea.	20662
CGA 350 (H ₂ , P ₂)	ea.	20663
CGA 590 (Air)	ea.	20664

Single-Stage, Stainless Steel

Fitting	qty.	cat.#
CGA 580 (N ₂ , He, Ar)	ea.	20665
CGA 350 (H ₂ , P ₂)	ea.	20666
CGA 590 (Air)	ea.	20667



Inlet gauge: 0 to 4,000psig (0-27.579kPa)
 Outlet assembly: diaphragm valve, 1/4" tube fitting
 Outlet pressure: 0 to 100psig (0-689kPa)
 Outlet gauge: 30" - 0 to 200psig (0-1379kPa)

Visit www.restek.com/gas for more information on gas regulators.

Compare and SAVE!

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

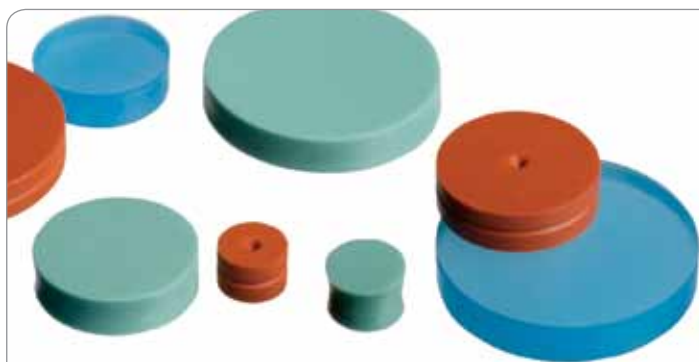


restek
innovation!
Patented

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

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

Note: The Flip Seal requires a special reducing nut adaptor, which is included in the kit.



Super Septa!

All Restek septa feature:

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

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

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

Restek Thermolite® Septa



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

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

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

Make Life Easier in the Lab with an MLE Capillary Tool Kit

- Kits available for Agilent, Thermo Scientific, Shimadzu, PerkinElmer, and Varian GCs.
- Kits include everything you need to perform general maintenance on your GC.
- Parts list makes reordering easy!



22186



22183

Description	qty.	cat.#
MLE Capillary Tool Kit for Agilent GCs	kit	22186
MLE Capillary Tool Kit for PerkinElmer GCs	kit	22185
MLE Capillary Tool Kit for Shimadzu GCs	kit	22182
MLE Capillary Tool Kit for Thermo Scientific GCs	kit	22183
MLE Capillary Tool Kit for Varian GCs	kit	22184

Visit www.restek.com/mletoolkit for a complete listing of consumables included in MLE tool kits.



20202

Restek Offers a Complete Line of Ferrules for Convenient One-Stop-Shopping



20252

Vespel® Ferrules

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

Graphite Ferrules

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

Vespel®/Graphite Ferrules

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

Visit www.restek.com for many more ferrule types and options!

Capillary Ferrules for 1/16-Inch Compression-Type Fittings

Ferrule ID	Fits Column ID	qty.	Vespel	Graphite	Vespel/Graphite
0.3mm		10-pk.	22213	20233	20275
0.4mm	0.10/0.15/0.18/ 0.25/0.28mm	10-pk.	22214	20200	20211
0.4mm	0.10/0.15/0.18/ 0.25/0.28mm	50-pk.	—	20227	20229
0.5mm	0.32mm	10-pk.	22215	20201	20212
0.5mm	0.32mm	50-pk.	—	20228	20231
0.6mm	0.28mm**	10-pk.	—	—	20232
0.8mm	0.45/0.53mm	10-pk.	22216	20202	20213
0.8mm	0.45/0.53mm	50-pk.	—	20224	20230
1.0mm	0.75mm*	10-pk.	22217	21058	24912
1.2mm	0.75mm*	10-pk.	22218	—	—
1.6mm	1.00mm*	10-pk.	—	21060	—

Compact Ferrules for Agilent 5890/6890/6850/7890 GCs

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

*For micropacked columns.

**For 0.28 mm MXT columns.

Swagelok® Consumables are Trusted Worldwide for Quality and Dependability



Stainless Steel & Brass Fitting Kits

- Includes the most common assortment of 1/8" and 1/4" brass or stainless steel fittings.
- Parts list makes reordering easy.
- Parts come in sturdy tool box for easy and convenient storage.

SAVE by purchasing kits!

Description	qty.	cat.#
Swagelok Fitting Kit, Brass	kit	23141
Swagelok Fitting Kit, Stainless Steel	kit	23197

Shut-Off Gas Valves



Valve Type	1/4" Brass cat.#	1/4" Brass cat.#	1/8" Stainless Steel cat.#	1/4" Stainless Steel cat.#
Toggle	23142	23143	23198	23199
Ball	23144	23145	23200	23201
Plug	23146	23147	23202	23203

Metering Gas Valves

Description	qty.	cat.#
1/8" Brass Metering Valve, straight	ea.	23148
1/4" Brass Metering Valve, straight	ea.	23149
1/8" Stainless Steel Metering Valve, straight	ea.	23204
1/4" Stainless Steel Metering Valve, straight	ea.	23205
Vernier Knob for Metering Valve	ea.	23206

23148



VCO® O-Ring Face Seal Fittings

- Unique design allows easy installation where space is limited.
- Assemblies can be used from high pressure to critical vacuum, across a wide range of temperatures.
- Smooth finish on gland face ensures positive seal.
- Sealing is accomplished with a captive O-ring in the body component.
- Ideal for pipe, tube, and welded systems.



Specifications:

Pressure Ratings	Up to 15,400 psig (1061 bar)
Temperature Ratings	Up to 400 °F (204 °C)



Description	Material	qty.	cat.#
1/4" VCO to 1/4" Tube Adaptor	Stainless Steel	2-pk.	23207
1/4" VCO to 1/4" Tube Adaptor	Siltek Treated	2-pk.	23209
1/4" VCO to 1/4" Tube Fitting	Stainless Steel	2-pk.	23210
1/4" VCO to 1/4" Tube Fitting	Siltek Treated	ea.	23211
1/4" VCO to 1/4" Tube Fitting	Stainless Steel	2-pk.	23215
1/4" VCO to 1/4" Tube Fitting	Siltek Treated	ea.	23216
1/4" VCO Nut	Stainless Steel	2-pk.	23212
1/4" VCO Nut Blind	Stainless Steel	2-pk.	23213
1/4" VCO Body Blind	Stainless Steel	2-pk.	23214
Replacement O-Ring, 70 Durometer Fluorocarbon FKM, VCO 1/4", Size O10		10-pk.	23208



NEW!

ProFLOW 6000 Electronic Flowmeter

State-of-the-art features include:

- Measures volumetric flow for most gases across a range of 0.5-500 mL/min.
- NIST traceable calibration.
- Ex rating (electrical apparatus for explosive gas atmospheres) for hydrogen and related gas types.
- Accuracy of $\pm 2\%$ of flow reading or ± 0.2 mL/min., whichever is greater.
- Data output via USB port.

The new Restek ProFLOW 6000 is the only flowmeter you need for any type of chromatography gas measurement because of its wide range of capabilities. The ProFLOW 6000 is an electronic device capable of measuring volumetric flow for most gases. Real-time measurements can be made for various types of flow paths, including continually changing gas types. This portable unit is designed for easy hand-held use, and the stand adds bench-top convenience.

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

Flowmeter Facts:

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

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

Go to www.restek.com/flowmeter for a list of complete product features.

Available for immediate delivery!

Patent pending

PATENTS & TRADEMARKS

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RESTEK

Lit. Cat.# GNFL1410-INT

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