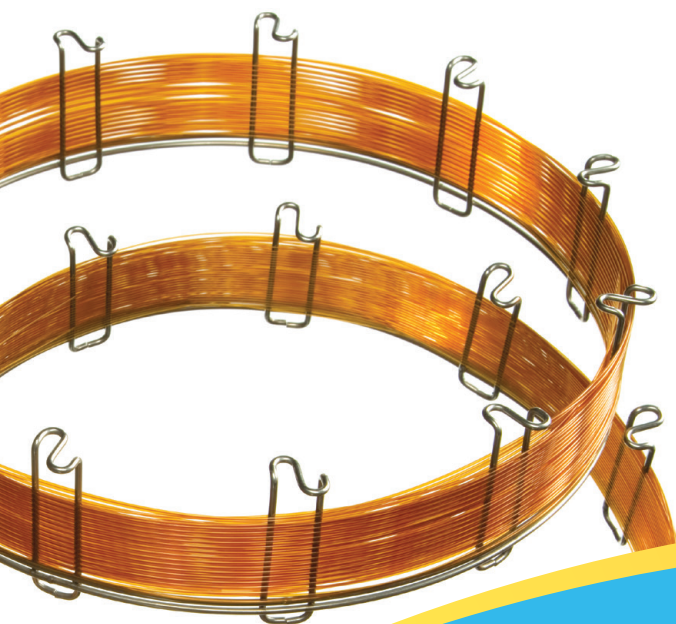




This issue's featured applications:

- PCB Congeners
- Pesticides
- PAHs
- Cannabinoids
- Residual Solvents
- Terpenes

— PAGE 6 —



NEW Raptor™ FluoroPhenyl Phase:

The Power of
HILIC and RP
Modes in One
LC Column

Raptor™
LC Columns
Selectivity Accelerated

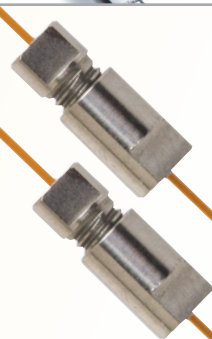
— PAGE 2 —



A Full Selection of GC Column Connectors

Universal Fit, Defined Fit,
Permanent Connection —
Restek Has Them All!

— PAGE 8 —



ALSO IN THIS ISSUE:



Resprep® PPT3
96-Well Plates



Air Canisters with
RAVE™ Valve



EXP® Fittings for
HPLC & UHPLC

Raptor™

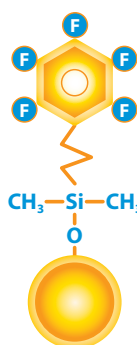
LC Columns



Selectivity Accelerated

New Raptor™ FluoroPhenyl Phase: Get the Power of HILIC and RP Modes in One LC Column

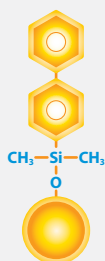
- Capable of both reversed-phase and HILIC separations.
- Ideal for increasing sensitivity and selectivity in LC-MS analyses.
- Offers increased retention for charged bases.
- Increased retention and selectivity for basic and hydrophilic compounds compared to a C18.



Raptor™ FluoroPhenyl LC Columns (USP L43)

Length	2.1 mm cat.#	3.0 mm cat.#	4.6 mm cat.#
2.7 μm Columns			
30 mm	9319A32	9319A3E	9319A35
50 mm	9319A52	9319A5E	9319A55
100 mm	9319A12	9319A1E	9319A15
150 mm	9319A62	9319A6E	9319A65
5 μm Columns			
30 mm	—	931953E	—
50 mm	9319552	931955E	9319555
100 mm	9319512	931951E	9319515
150 mm	9319562	931956E	9319565
250 mm	—	—	9319575

The Raptor™ Suite of Innovative Reversed-Phase Columns



Time-Tested Restek® Biphenyl Phase:

The established choice for bioanalytical testing since 2005.



Acid-Resistant Restek® ARC-18 Phase:

Ahead of the curve for large, multiclass lists by mass spec.



General-Purpose Restek® C18 Phase:

Raptor™ speed, efficiency, and ruggedness is now in C18.

TIME IS RUNNING OUT!

Order any two stock Raptor™ LC columns and get a **FREE Raptor™ bag**



Raptor™

LC Columns

Selectivity Accelerated

Learn how to get your free bag at www.restek.com/raptorbag

Raptor™ EXP® Guard Columns: The Ultimate in Column Protection

To further extend the life of our already-rugged Raptor™ LC columns, we mated our new superficially porous particles with patent-pending EXP® guard columns developed by Optimize Technologies. These guards withstand 600 bar (2.7 µm) / 400 bar (5 µm) operating pressures.

Patented Titanium Hybrid Ferrules

Can be installed repeatedly without compromising high-pressure seal.

Free-Turn® Architecture

Allows you to change cartridges without breaking inlet/outlet fluid connections—and without tools.

Auto-Adjusting Connection

Provides ZDV (zero dead volume) connection to any 10-32 female port.

Flexible Design

Replace nut with longer or even tool-free EXP® options to best suit your needs.

EXP® Direct Connect Holder

Description	qty.	cat.#
EXP Direct Connect Holder for EXP Guard Cartridges (includes hex-head fitting & 2 ferrules)	ea.	25808

Maximum holder pressure: 20,000 psi (1,400 bar)



Unidirectional Raptor™ Cartridge

Raptor™ EXP® Guard Column Cartridges

Description	Particle Size	qty.	5 x 2.1 mm cat.#	5 x 3.0 mm cat.#	5 x 4.6 mm cat.#
Raptor ARC-18 EXP Guard Column Cartridge	2.7 µm	3-pk.	9314A0252	9314A0253	9314A0250
Raptor ARC-18 EXP Guard Column Cartridge	5 µm	3-pk.	931450252	931450253	931450250
Raptor Biphenyl EXP Guard Column Cartridge	2.7 µm	3-pk.	9309A0252	9309A0253	9309A0250
Raptor Biphenyl EXP Guard Column Cartridge	5 µm	3-pk.	930950252	930950253	930950250
Raptor C18 EXP Guard Column Cartridge	2.7 µm	3-pk.	9304A0252	9304A0253	9304A0250
Raptor C18 EXP Guard Column Cartridge	5 µm	3-pk.	930450252	930450253	930450250
Raptor FluoroPhenyl EXP Guard Column Cartridges	2.7 µm	3-pk.	9319A0252	9319A0253	9319A0250
Raptor FluoroPhenyl EXP Guard Column Cartridges	5 µm	3-pk.	931950252	931950253	931950250

Hybrid Ferrule U.S. Patent No. 8201854, Optimize Technologies. Optimize Technologies EXP Holders are Patent Pending. Other U.S. and Foreign Patents Pending. The EXP, Free-Turn, and the Opti- prefix are registered trademarks of Optimize Technologies, Inc.

EXP® Fittings

Reusable fittings for easy, yet reliable HPLC & UHPLC connections

www.restek.com/exp



couplers



hex head



hand tight

EXP® Reusable Fittings for HPLC & UHPLC for 10-32 fittings and 1/16" tubing

Description	qty.	cat.#
EXP Hand-Tight Fitting (Nut w/Ferrule)	ea.	25937
EXP Hand-Tight Fitting (Nut w/Ferrule)	10-pk.	25938
EXP Hand-Tight Nut (w/o Ferrule)	ea.	25939

Description	qty.	cat.#
EXP Hand-Tight Coupler (2 Nuts, 2 Ferrules, 1/16" x 0.005" ID Tubing)	ea.	25940

Description	qty.	cat.#
EXP Titanium Hybrid Ferrule	ea.	25935
EXP Titanium Hybrid Ferrule	10-pk.	25936

Description	qty.	cat.#
EXP Std. Hex-Head Fitting (Nut w/Ferrule)	ea.	25926
EXP Std. Hex-Head Fitting (Nut w/Ferrule)	10-pk.	25927
EXP Short Hex-Head Fitting (Nut w/Ferrule)	ea.	25928
EXP Short Hex-Head Fitting (Nut w/Ferrule)	10-pk.	25929
EXP Long Hex-Head Fitting (Nut w/Ferrule)	ea.	25930
EXP Long Hex-Head Fitting (Nut w/Ferrule)	10-pk.	25931
EXP Std. Hex-Head Nut (w/o Ferrule)	ea.	25932
EXP Short Hex-Head Nut (w/o Ferrule)	ea.	25933
EXP Long Hex-Head Nut (w/o Ferrule)	ea.	25934

Preventative Maintenance Kits for Waters ACQUITY UPLC® Systems

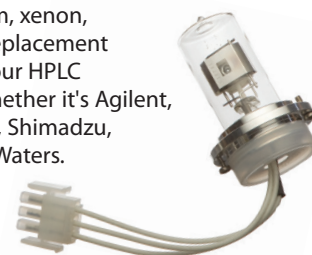
Simplify routine maintenance with these handy kits. They offer significant savings over instrument manufacturer prices.

Preventive Maintenance (PM) Kits

Description	Model #	Similar to Waters Part #	qty.	cat.#
ACQUITY BSM Pump Kit	ACQUITY UPLC BSM	201000173	kit	25797
ACQUITY I2V BSM Pump Kit	ACQUITY UPLC I2V BSM	201000197	kit	25798
ACQUITY H-Class QSM Pump Kit	ACQUITY H-CLASS QSM	201000233	kit	25799

Detector Lamps

We offer a full selection of deuterium, xenon, and other replacement lamps for your HPLC system—whether it's Agilent, PerkinElmer, Shimadzu, Thermo, or Waters.





Protein and Particulate Removal That's Fast, Painless, and Effective

Resprep® PPT³ 96-Well Plates

Prepare serum, plasma, and other biological samples using the name you trust for quality, cleanliness, and performance.



- Highly efficient >99% protein removal.
- Drip free for 24 hours—no fear of backflushing or contamination.
- 2.0 mL deep well—suitable for mixing by vortex or pipette.
- 3-way versatility for filtration—compatible with all common devices:
 - Vacuum manifold
 - Positive pressure manifold
 - Centrifugation

Resprep® PPT³ 96-Well Plates

Description	Well Shape	qty.	cat.#
Resprep PPT ³ 96-well plate	2 mL square	2-pk.	26489.2
Resprep PPT ³ 96-well plate	2 mL square	5-pk.	26489.5

Syringe Filters with Luer Lock Inlet

- Luer lock inlet offers leak-tight syringe connection.
- Variety of filter types, porosities, and diameters.

Universal Sealing Mats

Chemically resistant silicone mats protect contents and prevent carryover with preslit cap mats.

Description	qty.	cat.#
Universal Sealing Mat	10-pk.	26499
Universal Sealing Mat	case of 50	26498



Sample Filtration That's Economical, Eco-Friendly, and Fast

Easy-to-use vials require only a squeeze of your fingers.



Thomson SINGLE StEP® eXtreme Filter Vials

Multilayer filtration for viscous samples and samples with up to 30% solid particulates.

Porosity	Color	qty.	cat.#
Nylon			
0.2 µm	black preslit cap	100-pk.	25878
0.45 µm	pink preslit cap	100-pk.	25879
PES (polyethersulfone)			
0.2 µm	grey preslit cap	100-pk.	25880
PTFE (polytetrafluoroethylene)			
0.2 µm	green preslit cap	100-pk.	25874
0.45 µm	blue preslit cap	100-pk.	25875
PVDF (polyvinylidene fluoride)			
0.2 µm	red preslit cap	100-pk.	25876
0.45 µm	yellow preslit cap	100-pk.	25877

Also available in standard, low-evaporation, and nano versions at www.restek.com/singlestep

Well Plates

Ideal for use as collection plates when paired with Resprep® PPT³ 96-well plates.



Description	Well Shape	Well Bottom	qty.	cat.#
0.45 mL 96-Well Plates	round	conical	20-pk.	26497
0.45 mL 96-Well Plates	round	conical	case of 120	26496
1.3 mL 96-Well Plates	round	round	5-pk.	26495
1.3 mL 96-Well Plates	round	round	case of 50	26494
2.0 mL 96-Well Plates	round	round	5-pk.	26493
2.0 mL 96-Well Plates	round	round	case of 60	26492



Build a Rock-Solid Analytical Foundation with Restek® Organic Certified Reference Materials (CRMs)

Calibration, Surrogate, and Spiking Reference Standards

Restek routinely stocks multiple independently produced lots of our most popular calibration standards. You can purchase primary and secondary standards from one reliable source—and have them ship out within 24 hours.

Featured Standards:

Environmental: Semivolatiles

Revised B/N Surrogate Mix (4 components)

1,000 µg/mL each in methylene chloride, 1 mL/ampul cat.# 31887 (ea.)

Acid Surrogate Mix (4/89 SOW) (3 components)

2,000 µg/mL each in methanol, 1 mL/ampul cat.# 31025 (ea.)

10,000 µg/mL each in methanol, 1 mL/ampul cat.# 31063 (ea.)

10,000 µg/mL each in methanol, 5 mL/ampul cat.# 31087 (ea.)

8270 Matrix Spike Mix (76 components)

200 µg/mL each in methanol:methylene chloride (80:20), 5 mL/ampul* cat.# 31687 (ea.)

*3-methylphenol and 4-methylphenol concentration is 100 µg/mL.

8270 MegaMix® Standard (76 components)

1,000 µg/mL each in methylene chloride, 1 mL/ampul* cat.# 31850 (ea.)

*3-methylphenol and 4-methylphenol concentration is 500 µg/mL.

8270 Benzidines Mix (3 components)

2,000 µg/mL each in methylene chloride, 1 mL/ampul cat.# 31852 (ea.)

SV Internal Standard Mix (6 components)

2,000 µg/mL each in methylene chloride, 1 mL/ampul cat.# 31206 (ea.)

4,000 µg/mL each in methylene chloride, 1 mL/ampul cat.# 31006 (ea.)

Environmental: Volatiles

8260 Internal Standard Mix (4 components)

2,500 µg/mL each in P&T methanol, 1 mL/ampul cat.# 30074 (ea.)

8260A Surrogate Mix (4 components)

2,500 µg/mL each in P&T methanol, 1 mL/ampul cat.# 30240 (ea.)

8260A Internal Standard Mix (3 components)

2,500 µg/mL each in P&T methanol, 1 mL/ampul cat.# 30241 (ea.)

8260B Acetate Mix (Revised) (7 components)

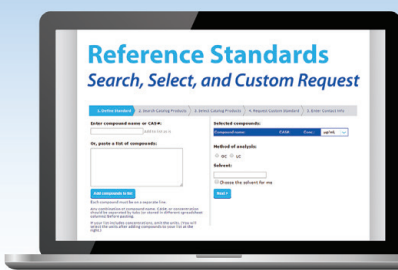
2,000 µg/mL each in P&T methanol, 1 mL/ampul cat.# 30489 (ea.)

8260B MegaMix® Calibration Mix (76 components)

2,000 µg/mL each in P&T methanol, 1 mL/ampul cat.# 30633 (ea.)

2-Chloroethyl Vinyl Ether

2,000 µg/mL in P&T methanol, 1 mL/ampul cat.# 30265 (ea.)



Less Waiting and Lower Cost

This new tool will help you immediately determine whether a catalog reference standard will suit your needs. If so, a click will add it to your order or quote; if not, you can simply proceed through the form to request a custom reference standard for some or all of your compounds of interest.

Try it now at www.restek.com/solutions

Drinking Water Standards

EPA Method 524.3

Description	Conc. in Solvent and Volume	cat.#
524.3 VOA MegaMix	2,000 µg/mL each in P&T methanol, 1 mL/ampul	30013
524.3 Gas Calibration Mix	2,000 µg/mL each in P&T methanol, 1 mL/ampul	30014
524.3 Internal Standard Mix	2,000 µg/mL each in P&T methanol, 1 mL/ampul	30015
524.3 Surrogate Standard	2,000 µg/mL each in P&T methanol, 1 mL/ampul	30016
524.3 Internal Standard/ Surrogate Mix	2,000 µg/mL each in P&T methanol, 1 mL/ampul	30017

EPA Method 525.3

Just Released! A full set of 525.3 Reference Standards

Order now at www.restek.com or contact your local Restek® representative.

Quantity Discounts Available—Buy More and Save!

- Buy 3 Standards, Get 10% Off
- Buy 5 Standards, Get 20% Off

Not available for all standards. Contact your local Restek® representative for details.





Leverage the outstanding inertness, low bleed, and high reproducibility of Rxi® 3-in-1 technology to gain:

- Accurate Data
- The Right Results Fast
- Maximized Instrument Uptime

Featured Rxi® Phases:

For Pesticides

Rxi®-5ms Columns

Extremely robust, industry-standard column for GC-MS and GC-MS/MS analysis of pesticides in food and environmental matrices.

Description	temp. limits	qty.	cat.#
30 m, 0.25 mm ID, 0.25 µm	-60 to 330/350 °C	ea.	13423
30 m, 0.25 mm ID, 0.25 µm	-60 to 330/350 °C	6-pk.	13423-600

For PCB Congeners

Rxi®-XLB Columns

Unique selectivity separates PCB congeners, including 31 and 28.

Description	temp. limits	qty.	cat.#
30 m, 0.25 mm ID, 0.25 µm	30 to 340/360 °C	ea.	13723

For PAHs

Rxi®-PAH Columns

Separate all EFSA PAH4 priority compounds: benz[a]anthracene, chrysene, benzo[b]fluoranthene, and benzo[a]pyrene.

Description	temp. limits	qty.	cat.#
40 m, 0.18 mm ID, 0.07 µm	to 350/360 °C	ea.	49316

For Cannabinoids

Rxi®-35Sil MS Columns

Achieve full resolution for all cannabinoids in 3 minutes with an economical column suited for hydrogen carrier gas.

Description	temp. limits	qty.	cat.#
15 m, 0.25 mm ID, 0.25 µm	50 to 340/360 °C	ea.	13820

For Residual Solvents & Terpenes

Rxi®-624Sil MS Columns

Fully separate residual solvents and 38 terpenes via headspace analysis without interference.

Description	temp. limits	qty.	cat.#
30 m, 0.25 mm ID, 1.40 µm	-20 to 300/320 °C	ea.	13868

Put Rxi® columns to work in your lab.

Visit www.restek.com/rxi and order yours today.

Speed Up and Simplify GC Method Development with

Restek's EZGC® Online Suite

- Model chromatograms
- Get column recommendations
- Translate methods
- Calculate flows



Try it now at

www.restek.com/ezgc

Rxi® Guard/Retention Gap Columns

Highly inert Rxi® guards/retention gaps employ the same 3-in-1 technology, so they are an ideal supplement to Rxi® analytical columns.

Nominal ID	5-Meter cat.#	5-Meter/6-pk. cat.#	10-Meter cat.#
0.25 mm	10029	10029-600	10059
0.32 mm	10039	10039-600	10064
0.53 mm	10054	10054-600	10073



Get Guaranteed Method Performance with MXT®-1HT SimDist Columns

- Lowest bleed for longest column lifetime.
- Reliably meet all ASTM D2887, D6352, D7169, D7213, and D7500 specifications.
- Individually tested for guaranteed performance.

Description	temp. limits	qty.	cat.#
5 m, 0.53 mm ID, 0.10 µm	-60 to 430/450 °C	ea.	70112
5 m, 0.53 mm ID, 0.20 µm	-60 to 430 °C	ea.	70115
10 m, 0.53 mm ID, 0.21 µm	-60 to 430 °C	ea.	70118
5 m, 0.53 mm ID, 0.88 µm	-60 to 400/430 °C	ea.	70131
10 m, 0.53 mm ID, 0.88 µm	-60 to 400/430 °C	ea.	70134
10 m, 0.53 mm ID, 1.00 µm	-60 to 380/400 °C	ea.	70130
10 m, 0.53 mm ID, 1.20 µm	-60 to 380/380 °C	ea.	70119
10 m, 0.53 mm ID, 2.65 µm	-60 to 380/400 °C	ea.	70132
10 m, 0.53 mm ID, 5.00 µm	-60 to 380/400 °C	ea.	70133

For more MXT® column options, visit www.restek.com/MXT

Advanced Technology for Volatile Amine Analysis

Rtx®-Volatile Amine GC Column

- Unique selectivity for baseline resolution of all volatile amines.
- Excellent inertness assures accuracy and sensitivity for volatile amines, including free ammonia.
- Highly robust phase withstands repeated water injections, resulting in longer column lifetime.
- High temperature stability (290 °C) ensures elution of amines up to C16 and allows contaminants to be removed by "baking out" the column.

ID	temp. limits	15-Meter cat.#	30-Meter cat.#	60-Meter cat.#
0.32 mm	-60 to 270/290 °C	18076	18077	18078

Strong as Steel, Inert as Glass

Put the Power of Restek® Packed Columns to Work for You

- SilcoSmooth® tubing provides the inertness of glass and the durability of stainless steel, so you get accurate results for a wide range of active compounds without column breakage.
- Stable bonded stationary phases mean short conditioning times, low bleed, and long column lifetimes.
- Excellent retention time reproducibility delivers reliable, predictable results.

Let Restek make your packed columns and bonded phase packing materials, whether custom or stock. Order today at www.restek.com/packedGC

Restek's PLOT Column Family — The Benchmark for Performance!

- Innovative bonding process minimizes particle release, reducing column blockage and protecting instrument parts.
- More consistent flow means stable retention times in Deans and related flow switching techniques.
- Outstanding peak symmetry improves impurity analysis for gases, solvents, and hydrocarbons.

www.restek.com/PLOT

Make a Strong and Lasting Connection in Your GC with Restek

Universal Press-Tight® Connectors

One connector works with 0.1–0.53 mm ID Restek® columns (0.33–0.74 mm OD). Available in standard, deactivated, and Siltek® deactivated versions.



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 Deactivated	20480	20449	—

Defined PressFit Connectors

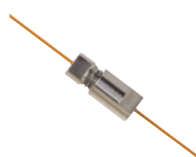
ID-specific ends for better sealability; color coded for easy identification. Deactivated borosilicate glass.

Fits Column ID	Color	5-pk. cat.#	25-pk. cat.#
For 0.18/0.25 mm to 0.18/0.25 mm ID Columns	Red to Red (end codes)	22159	22160
For 0.18/0.25 mm to 0.32 mm ID Columns	Red to Black (end codes)	22161	22162
For 0.18/0.25 mm to 0.53 mm ID Columns	Red to Blue (end codes)	22163	22164
For 0.32 mm to 0.32 mm ID Columns	Black to Black (end codes)	22165	22166
For 0.32 mm to 0.53 mm ID Columns	Black to Blue (end codes)	22167	22168
For 0.53 mm to 0.53 mm ID Columns	Blue to Blue (end codes)	22169	22170



Permanent SilTite® μ-Union Connectors

Easy installation and a permanent leak-tight connection. Deactivated metal is stable at extreme temps; great for pressure cycling and mass spec.



Description	Fits Column ID	qty.	cat.#
SilTite μ-Union Connector Kit	0.32 mm to 0.32 mm	kit	23882
SilTite μ-Union Connector Kit	0.32 mm to 0.53 mm	kit	23883
SilTite μ-Union Connector Kit	0.53 mm to 0.53 mm	kit	23884
SilTite μ-Union Connector Kit	0.18/0.25 mm to 0.18/0.25 mm	kit	23885
SilTite μ-Union Connector Kit	0.18/0.25 mm to 0.32 mm	kit	23886
SilTite μ-Union Connector Kit	0.18/0.25 mm to 0.53 mm	kit	23887

Ceramic Scoring Wafer

Cuts fused silica tubing and MXT® metal capillary columns. Millimeter markings assist in measuring column insertion distances.

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



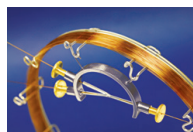
Vu2 Union® Connectors



Join columns and transfer lines or repair broken columns with the connector that combines the simplicity of a Press-Tight® union with the strength of a metal union.

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

SeCure® “Y” Connector Kits



Get the simplicity and security of a Vu2 Union® connector for your dual-column or dual-detector installations.

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

Universal “Y” Press-Tight® Connectors

Split column or sample flow with these Y-shaped, universal-fit connectors, available in standard, deactivated, and Siltek® deactivated versions.



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 Deactivated	20485	20486

Super Clean® Filters: High-Purity Gas and Fast Cartridge Changeouts

NEW!

Control Your Routine Gas Filter Maintenance Schedule with Electronic Maintenance Indicators



- Audiovisual warning system ensures maintenance is done on time.
- Progressively displays gas filter status, preventing unplanned downtime for maintenance.
- Can be custom configured to your replacement/maintenance schedule.

Electronic Maintenance Indicators for Gas Filters

Description	qty.	cat.#
Electronic Indicator for Standard Super Clean Gas Filters	ea.	22645
Electronic Indicator for Click-On In-Line Super Clean Gas Filters	ea.	22646
Electronic Indicator for Click-On In-Line Super Clean Big Trap Gas Filters	ea.	22647

Choose the Gas Filter Kit That's Best for Your Application



- High-purity output ensures 99.9999% pure gas.
- Use hydrocarbon or triple gas trap for carrier gas; fuel gas trap for FID fuel gases; or helium-specific triple gas trap for GC-MS.

Restek® Super Clean® Gas Filter Kits

- Designed for easy, hassle-free cartridge changes.
- Glass inside to prevent diffusion; polycarbonate housing outside for safety.
- Maximum flow of 2 L/min.

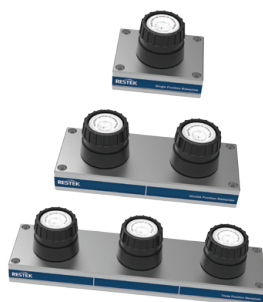
Restek® Super Clean® Gas Filter Kits and Replacements

Description	qty.	cat.#
Carrier Gas Cleaning Kit Includes: mounting baseplate, 1/8" inlet/outlet fittings, and oxygen/moisture/hydrocarbon triple gas filter	kit	22019
Fuel Gas Purification Kit Includes: mounting baseplate, 1/8" inlet/outlet fittings, and hydrocarbon/moisture fuel gas filter	kit	22021
Ultra-High Capacity Hydrocarbon Filter	ea.	22030
Ultra-High Capacity Moisture Filter	ea.	22028
Ultra-High Capacity Oxygen Filter	ea.	22029
Replacement Triple Gas Filter (removes oxygen, moisture, and hydrocarbons)	ea.	22020
Replacement Fuel Gas Filter (removes moisture and hydrocarbons)	ea.	22022
Helium-Specific Carrier Gas Cleaning Kit Includes: mounting base plate, 1/8" inlet/outlet fittings, and oxygen/moisture/hydrocarbon helium-specific filter	kit	21983
Replacement Helium-Specific Gas Filter (removes oxygen, moisture, and hydrocarbons)	ea.	21982
Gas Filter Bundle Kit Includes: one triple gas filter (cat.# 22020) and two fuel gas filters (cat.# 22022)	kit	22031

Restek® Filter Base Plates

Available in single-position, 2-position, and 3-position units, our base plates fit all stand alone Super Clean® gas filters we offer. Choose end fittings in brass or stainless steel.

	Brass		Stainless Steel	
Description	qty.	cat.#	qty.	cat.#
Filter Base Plate, Single-Position	ea.	22025	ea.	22344
Filter Base Plate, 2-Position	ea.	22026	ea.	22345
Filter Base Plate, 3-Position	ea.	22027	ea.	22346



Replacement O-Rings for Cartridge Base Plates



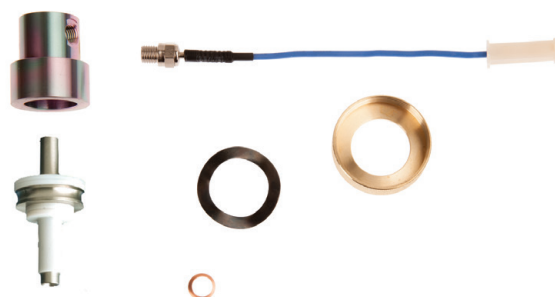
Pack includes 10 large O-rings and 10 small O-rings.

Description	qty.	cat.#
Replacement O-Rings for Cartridge Base Plates	20-pk.	22023

For FID Maintenance, Look No Further

FID Collector Assembly Kits for Agilent GCs

- Constructed of high-quality stainless steel.
- Meets or exceeds original manufacturer's performance.
- Kits available with or without Siltek® ignitor castle.
- Individual replacement parts available.



For Agilent 5890 GCs

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
FID Collector (includes insulators)	19231-20970, 19231-20960, 19231-20950	ea.	21138
FID Collector Nut and Washer	19231-20940, 5181-3311	set	21136
FID Ignitor*	19231-60680	ea.	21001
FID Ignitor Castle	19231-20910	ea.	21137
Siltek FID Ignitor Castle	—	ea.	21135

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

For Agilent 6850/6890/7890 GCs

Description	Similar to Agilent Part #	qty.	cat.#
FID Collector Assembly Kit (includes insulator)	G1531-60690	kit	21699
FID Collector Assembly Kit w/Siltek Ignitor Castle	—	kit	21132
FID Collector (includes insulators)	G1531-20690, G1531-20700	ea.	21139
FID Collector Nut and Washer	19231-20940, 5181-3311	set	21136
FID Ignitor*	19231-60680	ea.	21001
FID Ignitor Castle	19231-20910	ea.	21137

FID Maintenance Kits

Our FID maintenance kits for Agilent GCs include the most common consumable GC supplies and tools. A parts list makes reordering easy, and all parts meet or exceed the performance of the instrument manufacturer's parts.



Description	qty.	cat.#
FID Maintenance Kit for Agilent 5890 GCs	kit	22180
FID Maintenance Kit for Agilent 6850/6890/7890 GCs	kit	22179

FID Base Weldment

Meets or exceeds original manufacturer's performance. Available for Agilent 5890, 6850, or 6890 GCs.



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

Heater Cartridge & Platinum Resistance Thermometer (PRT) Sensor

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



Description	Similar to Agilent Part #	qty.	cat.#
Injector/FID Heater and Injector/FID PRT Sensor	05890-61140	kit	22068
Injector/FID Heater	19231-60620	ea.	22069
Injector/FID PRT Sensor	19231-60660	ea.	23035

Spanner Wrench

Easily remove the nut from Agilent 5890/6850/6890/7890 FID collectors without damaging the nut. Unique, ergonomic handle is easy to grip.



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

Restek® Air Valve Excellence

RAVE™ Valves

Now Standard on SilcoCan®
 and TO-Can® Sampling Canisters

- **Proven long life**—engineered to exceed 15,000 cycles.
- **Leak-free performance**—helium leak tested to 1×10^{-6} mL/sec.
- **Effortless operation**—finger turn for full valve closure (only 10 in-lb).
- **Enhanced damage resistance**—valve seats are work hardened; wetted surfaces have no moving parts.

SilcoCan® Air Sampling Canisters with RAVE™ Valve

Description	1 L Volume cat.#	3 L Volume cat.#	6 L Volume cat.#	15 L Volume cat.#
2-Port RAVE Valve	27400	27404	27408	27412
2-Port Siltek-Treated RAVE Valve	27401	27405	27409	27413
3-Port RAVE Valve with Gauge*	27402	27406	27410	27414
3-Port Siltek-Treated RAVE Valve with Gauge*	27403	27407	27411	27415
Without Valve	22090	22091	22092	22093

TO-Can® Air Sampling Canisters with RAVE™ Valve

Description	1 L Volume cat.#	3 L Volume cat.#	6 L Volume cat.#	15 L Volume cat.#
2-Port RAVE Valve	27416	27418	27420	27422
3-Port RAVE Valve with Gauge*	27417	27419	27421	27423
Without Valve	22094	22095	22096	22097

*Range of standard gauge is -30" Hg to 60 psi.

Do not exceed canister maximum pressure of 40 psig (2.75 bar).



Vacuum Pumps — Now Available through Restek

- Quiet, low-vibration units keep disturbances to a minimum.
- Built-in thermal protector automatically shuts off pump if it overheats and then restarts once cool.
- International CE and CSA certification.



Chemker

Description	Flow capacity	Voltage	qty.	cat.#
Chemker 300 PTFE	20 L/min	AC110 V, 60 Hz	ea.	27426
Chemker 300 PTFE	18 L/min	AC220 V, 50 Hz	ea.	27427
Chemker 400 PTFE	38 L/min	AC110 V, 60 Hz	ea.	27428
Chemker 400 PTFE	33 L/min	AC220 V, 50 Hz	ea.	27429
Chemker 410 PTFE	20 L/min	AC110 V, 60 Hz	ea.	27430
Chemker 410 PTFE	18 L/min	AC220 V, 50 Hz	ea.	27431

Rocker

Description	Flow capacity	Voltage	qty.	cat.#
Rocker 300	21 L/min	AC110 V, 60 Hz	ea.	27424
Rocker 300	18 L/min	AC220 V, 50 Hz	ea.	27425
Rocker 300DC	25 L/min	DC Power (12 V)	ea.	27447
Rocker 400	37 L/min	AC110 V, 60 Hz	ea.	27432
Rocker 400	34 L/min	AC220 V, 50 Hz	ea.	27433
Rocker 410	23 L/min	AC110 V, 60 Hz	ea.	27434
Rocker 410	20 L/min	AC220 V, 50 Hz	ea.	27435
Rocker 500	28 L/min	AC110 V, 60 Hz	ea.	27436
Rocker 500	23 L/min	AC220 V, 50 Hz	ea.	27437
Rocker 600	65 L/min	AC110 V, 60 Hz	ea.	27438
Rocker 600	62 L/min	AC220 V, 50 Hz	ea.	27439
Rocker 610	41 L/min	AC110 V, 60 Hz	ea.	27440
Rocker 610	36 L/min	AC220 V, 50 Hz	ea.	27441

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A New Approach for Industrial Hygiene

Designed to meet OSHA and NIOSH requirements, the innovative Aura™ personal air sampler overcomes the limitations of sorbent tubes and badges.



- Broader utility
- Wider effective range
- Does not use solvents or electricity
- No breakthrough

Description

Aura Personal Air Sampler Kit (Includes: 400 cc miniature canister with 1/4" quick-connect stem, quick-connect body, holster and belt, 10-pk. of disposable 8-hour sampler lines, tubing cutter, and lapel clip)

	Electropolished cat.#	Siltek-Treated cat.#
	26484	26485

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- DANI
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- Shimadzu
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- Intermediate polarity
- Base deactivated
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Material:

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