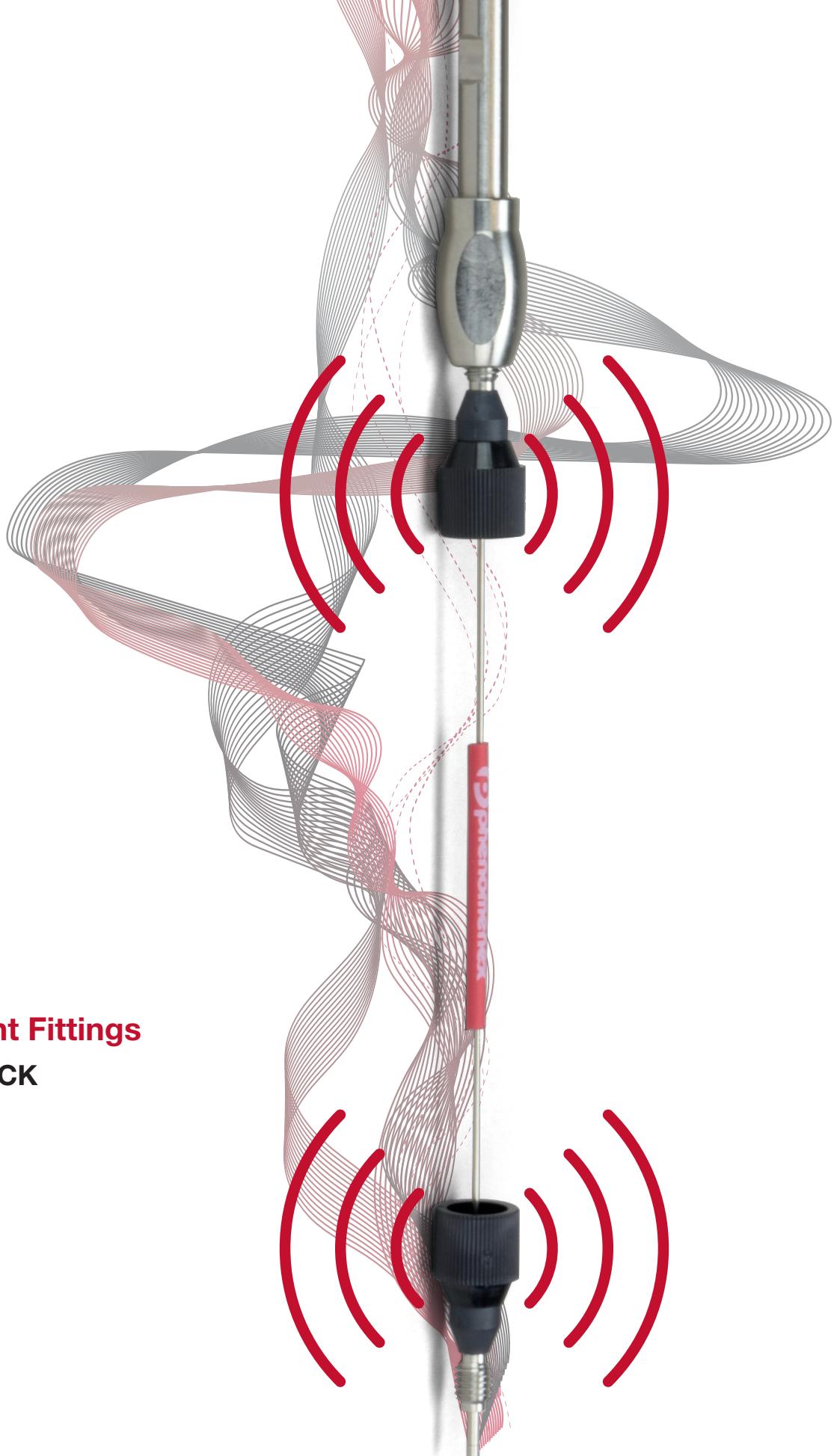




SecurityLINK UHPLC Fingertight Fittings

Connections in a **CLICK**

- No Tools Required
- Zero Dead-Volume Connection
- Torque Limiting Technology
- UHPLC and HPLC Compatibility



 **phenomenex**[®]
...breaking with traditionSM



www.phenomenex.com/SecurityLINK



Table of Contents

SecurityLINK: How it Works	3
SecurityLINK vs. Poorly Connected Conventional Fittings	4
SecurityLINK Lifetime	5
Compatibility with Column Vendors	6
System Connection Points	7
Installation Instructions	9
Product Specifications and Tubing Options	10
Ordering Information	11

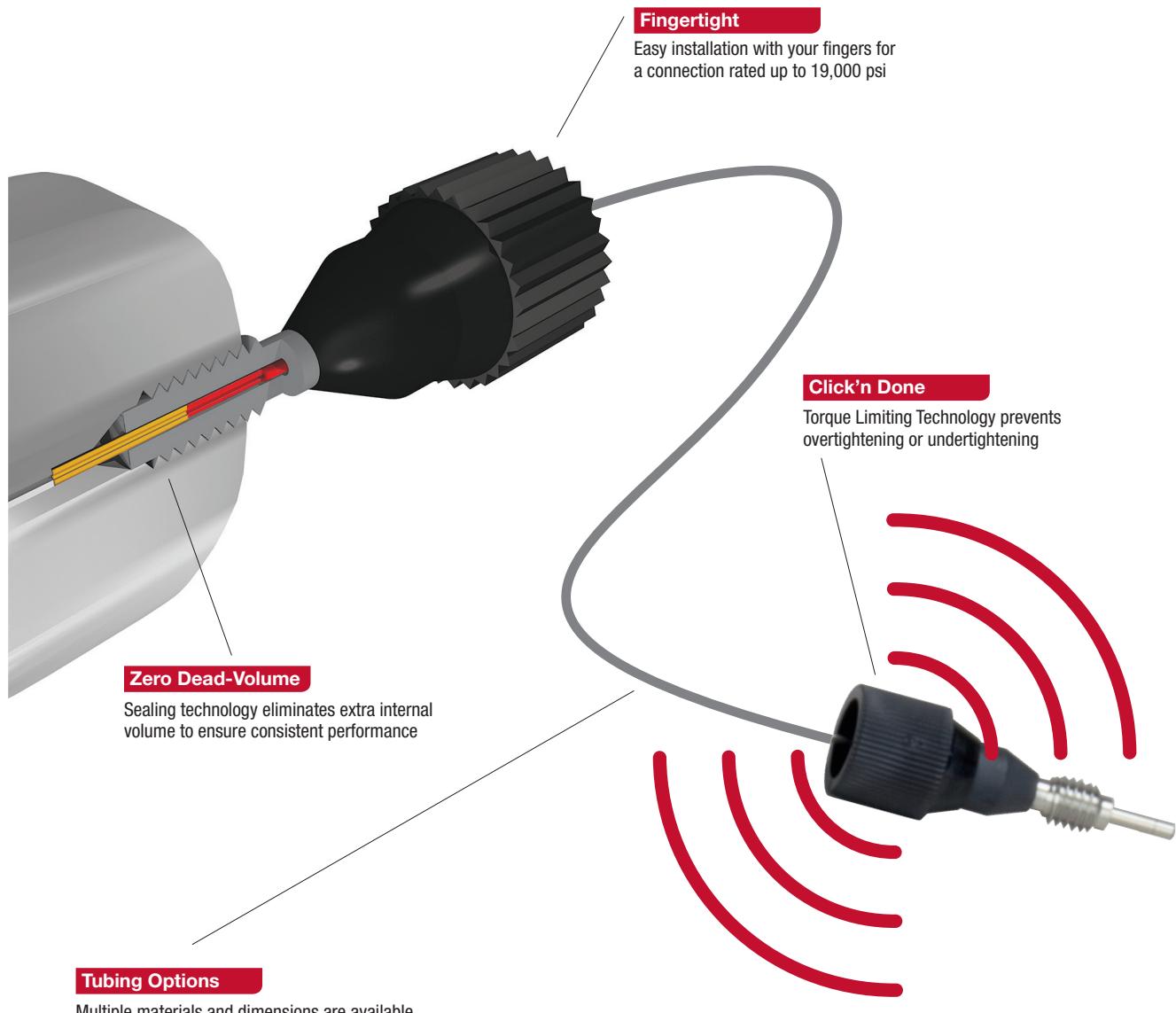
BE-HAPPY™
guarantee

Your happiness is our mission. Take 45 days to try our products. If you are not happy, we'll make it right.

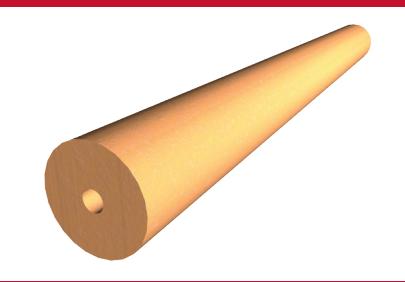
www.phenomenex.com/behappy

Inside SecurityLINK LC Connections

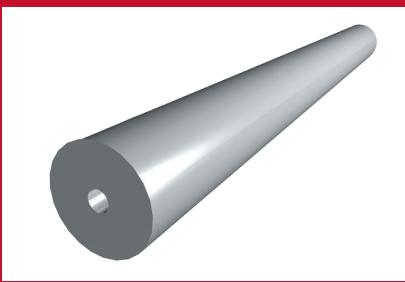
- No tools required for quick and easy installation
- Fitting self-adjusts at column inlet to ensure zero dead-volume for better chromatographic results
- Torque Limiting Technology prevents system and column port damage
- UHPLC and HPLC compatibility: pressure rated to 19,000 psi (1,310 bar)



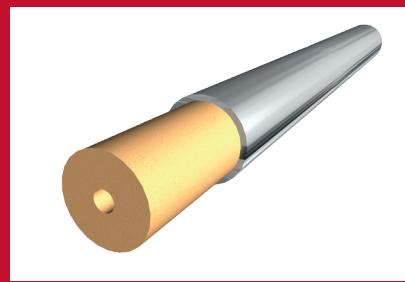
SecurityLINK Fitting System Tubing Options



PEEKsil™



Stainless Steel



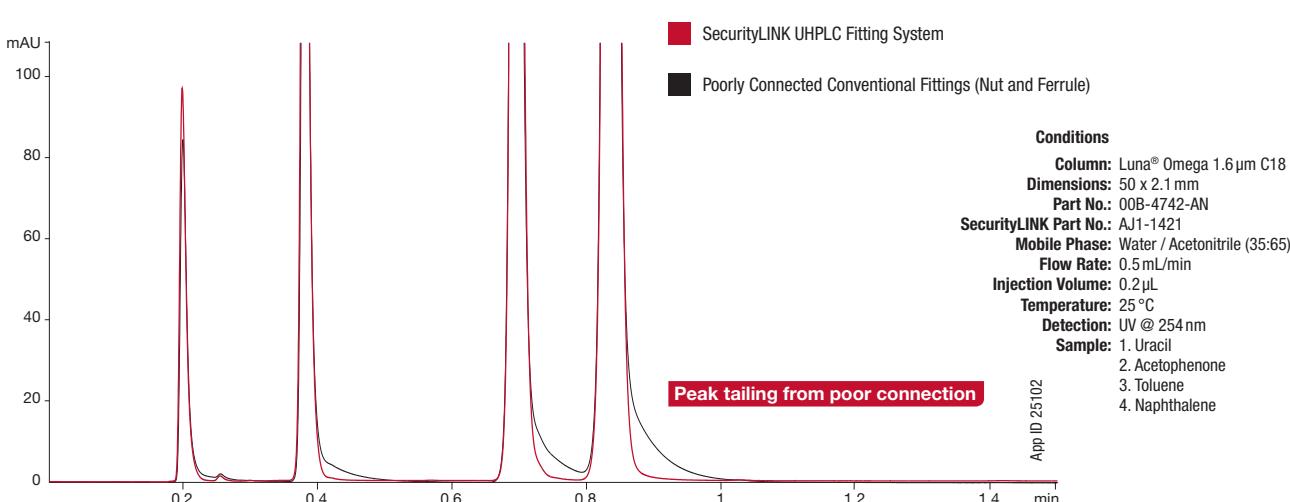
PEEK-Lined Stainless Steel

SecurityLINK UHPLC Fittings vs. Conventional Fittings

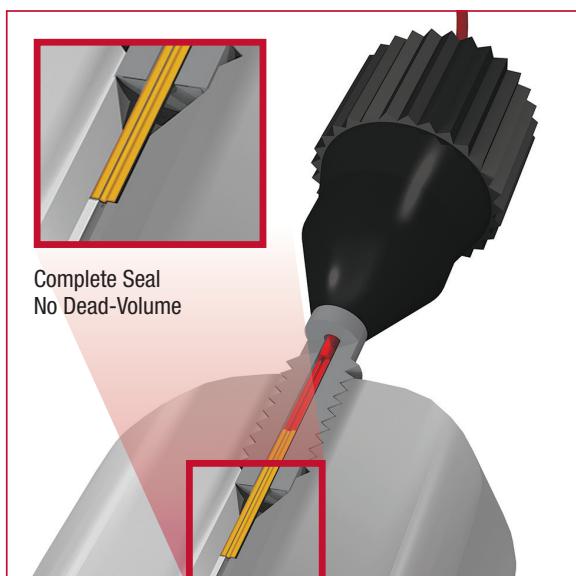
The SecurityLINK UHPLC fingertight fitting system simplifies your system and column connections while providing consistent performance through Torque Limiting Technology that prevents column damaging overtightening.

Prevent Peak Tailing and Broadening

Poorly connected fittings are often the causes of carryover, band broadening, and peak tailing. SecurityLINK offers zero dead-volume connections every time.

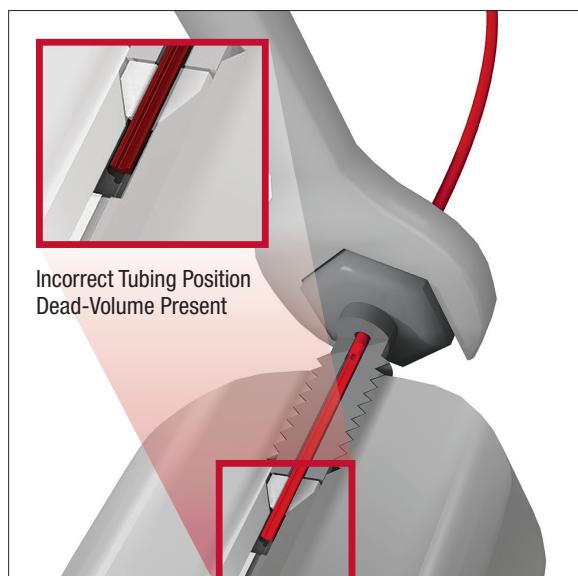


SecurityLINK UHPLC Fitting System



VS.

Poorly Connected Conventional Fittings (Nut and Ferrule)

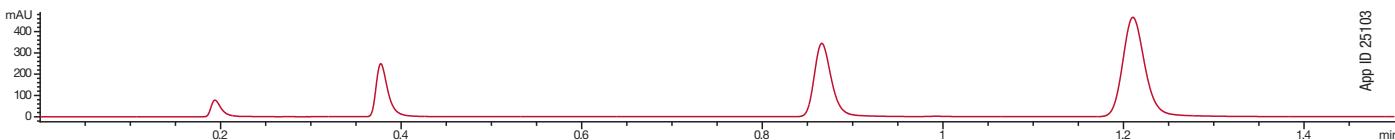


SecurityLINK Lifetime

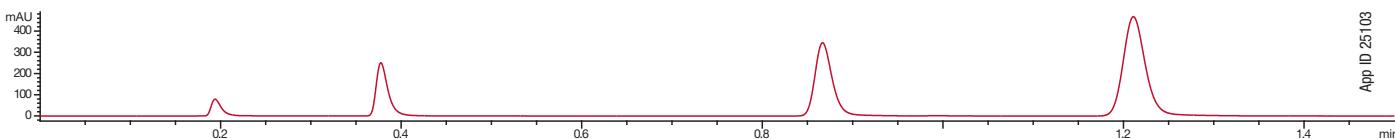
While typical fittings are not cross column compatible and prone to cause column damage with overtightening, SecurityLINK safely and easily allows you to continuously attach and detach columns. To illustrate the high robustness and durability of the SecurityLINK UHPLC Fitting System, the fitting was disconnected and reconnected 100 times.

No leaking or change in chromatography after 100 reconnections!

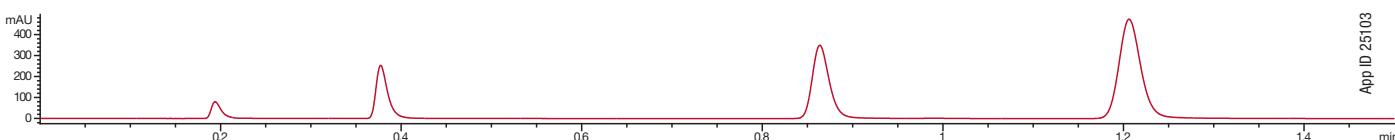
1 Connection



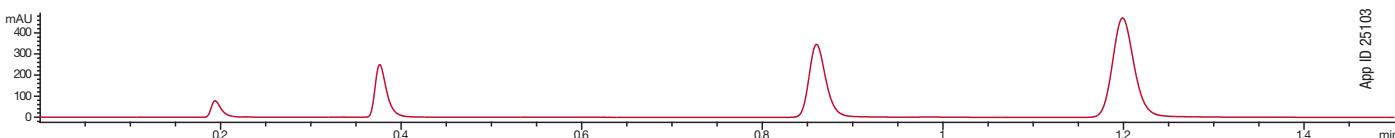
25 Connections



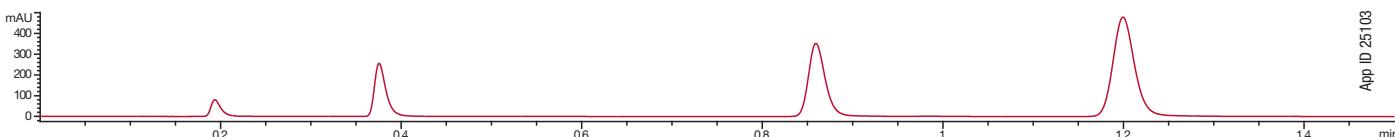
50 Connections



75 Connections



100 Connections



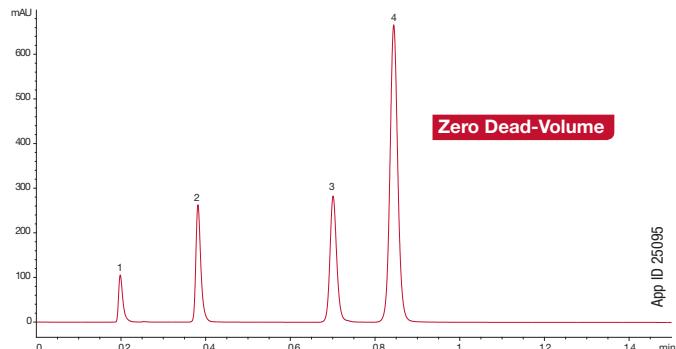
Conditions

Column: Kinetex® 1.3 µm C18
Dimensions: 50 x 2.1 mm
Part No.: 00B-4515-AN
SecurityLINK Part No.: AJ1-1421
Mobile Phase: Water/Acetonitrile (50:50)
Flow Rate: 0.5 mL/min
Injection Volume: 0.2 µL
Temperature: 25 °C
Detector: UV
Sample: 1. Uracil
2. Acetophenone
3. Toluene
4. Naphthalene

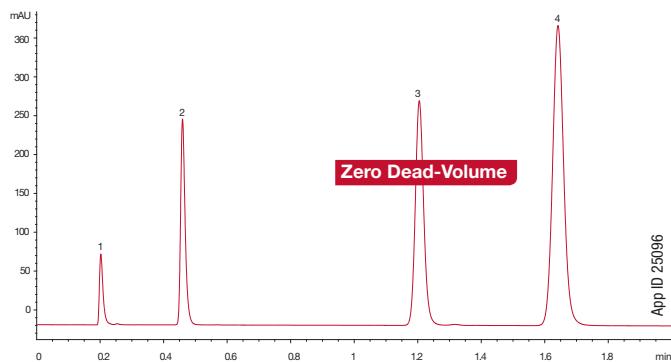
Compatibility with Column Vendors

SecurityLINK UHPLC Fittings were designed to be compatible with the majority of LC columns and systems that are available on the market. That gives you the ability to utilize this easy to use fitting on each system and with multiple columns. To prove this, the SecurityLINK was evaluated below for compatibility with different column vendors. Phenomenex, Waters and Agilent columns were connected using SecurityLINK fittings.

Phenomenex Luna® Omega 1.6 µm C18 50 x 2.1 mm



Agilent® ZORBAX® Eclipse Plus 1.8 µm C18 RRHD 50 x 2.1 mm

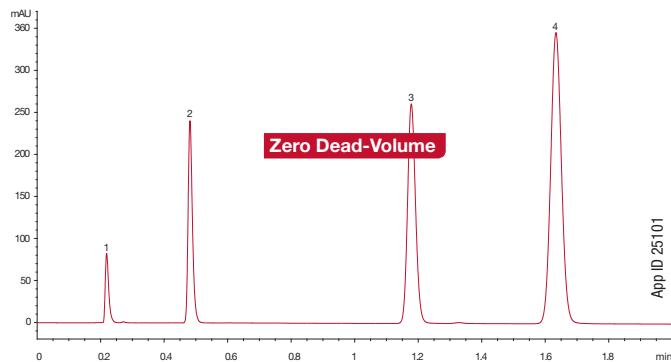


Conditions

Column: Luna Omega 1.6 µm C18
ACQUITY BEH 1.7 µm C18
ZORBAX Eclipse Plus 1.8 µm C18 RRHD
Dimensions: 50 x 2.1 mm
SecurityLINK Part No.: AJ1-1421
Mobile Phase: Water/Acetonitrile (35:65)

Flow Rate: 0.5 mL/min
Injection Volume: 0.2 µL
Temperature: 25°C
Sample: 1. Uracil
2. Acetophenone
3. Toluene
4. Naphthalene

Waters® ACQUITY® UPLC® BEH 1.7 µm C18 50 x 2.1 mm



Comparative separations may not be representative of all applications.

Compatible with Any System Manufacturer with $\frac{1}{16}$ in. Ports



Thermo Fisher® / Dionex



Agilent

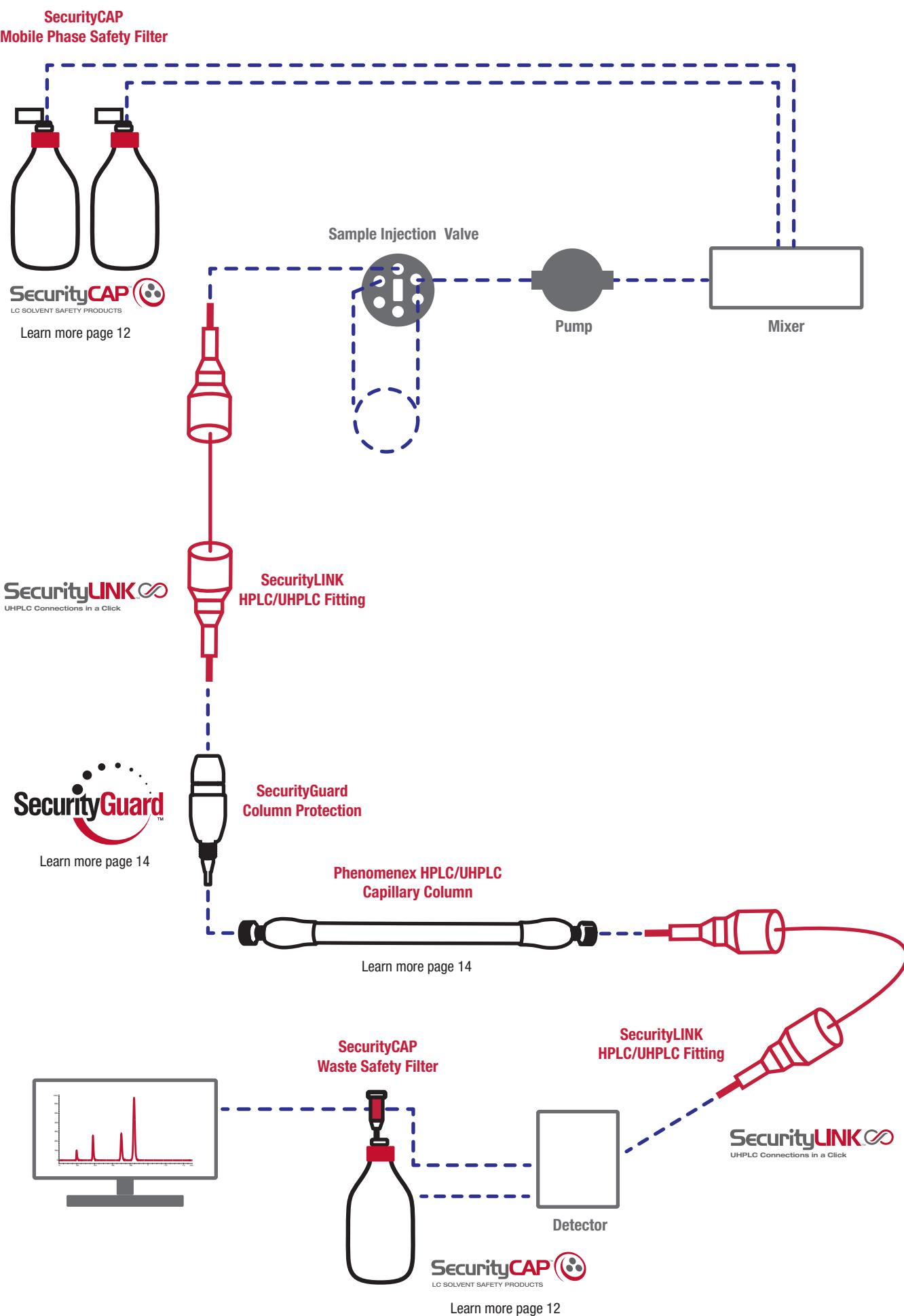


Waters



SCIEX®

System Connection Points



Complete UHPLC Column and System Protection Solution

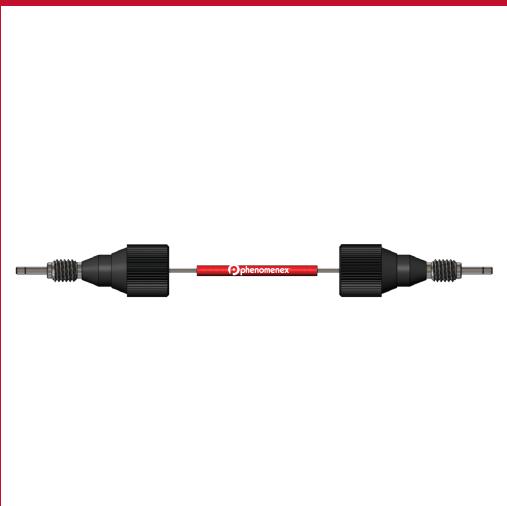
SecurityCAP Mobile Phase and Solvent Waste Safety Cap



- **Increases Health and Worker Safety**
Solvent vapors and gasses are restricted to their containers
- **Protects HPLC / UHPLC Results**
Eliminates dust and other air contaminants from testing results
- **Confidence During Quality and Safety Audits**
Eliminate aluminum foil or Parafilm® covering solvent bottles

8

SecurityLINK UHPLC Fittings



- Easy installation in a CLICK
- No tools required
- Self-adjusts at column inlet
- Zero dead-volume for better chromatographic results
- Torque Limiting Technology prevents overtightening and undertightening

SecurityGuard ULTRA Guard Cartridge System



With SecurityGuard ULTRA, you will experience:

- Increased UHPLC column lifetime
- Better column performance
- More reproducible chromatography
- Fewer wasted columns

Installation Instructions

The SecurityLINK UHPLC fingertight fitting system simplifies your system connection process and provides consistent performance with Torque Limiting Technology that prevents column damaging overtightening. No tools required for installation again!

1 Insert SecurityLINK UHPLC fitting into column port or LC system



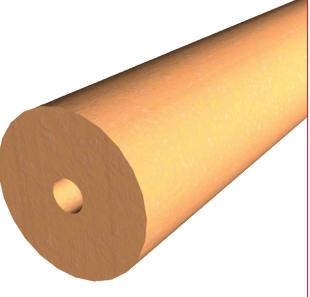
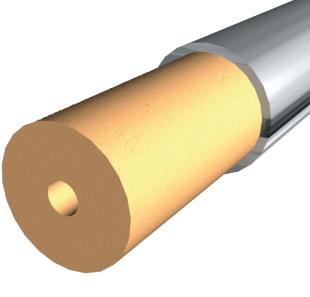
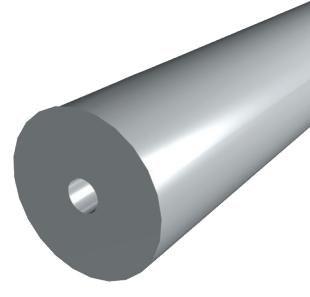
2 Fingertighten until first “CLICK” feedback is received. Connection Complete!



Tip

The “CLICK” feedback indicates the SecurityLINK connection is secure! This prevents overtightening and saves your column from port damage.

SecurityLINK Specifications

	Tubing Options		
Description	PEEKsil™	PEEK-Lined Stainless Steel	Stainless Steel
			
Direct Replacement for	PEEK-Lined Stainless Steel	Stainless Steel	
pH Range	0–10	1–14	1–14
Autoclavable	Yes	Yes	Yes
Fitting Size	1/16"	1/16"	1/16"
ID Range	25 µm to 100 µm	25 µm to 100µm	100 µm to 254 µm
Pressure Rating	19,000 psi	19,000 psi	19,000 psi
Temperature Limit	120 °C	120 °C	120 °C
Biocompatible	Yes	Yes	No

Reorder Tip



SecurityLINK tubing material includes a sleeve that provides: ID, length and part number information.

SecurityLINK Ordering Information

SecurityLINK 
UHPLC Connections in a Click

PEEKsil™ Double-Sided Fittings



ID (µm)	LENGTH (mm)	Fitting Size Top (in.)	Fitting Size Bottom (in.)	Part No.
25	100	1/16	1/16	AJ1-2111
25	150	1/16	1/16	AJ1-2121
25	250	1/16	1/16	AJ1-2141
25	300	1/16	1/16	AJ1-2151
25	500	1/16	1/16	AJ1-2171
25	750	1/16	1/16	AJ1-2191
25	1000	1/16	1/16	AJ1-21A1
50	100	1/16	1/16	AJ1-2211
50	150	1/16	1/16	AJ1-2221
50	200	1/16	1/16	AJ1-2231
50	250	1/16	1/16	AJ1-2241
50	300	1/16	1/16	AJ1-2251
50	500	1/16	1/16	AJ1-2271
50	750	1/16	1/16	AJ1-2291
50	1000	1/16	1/16	AJ1-22A1
75	150	1/16	1/16	AJ1-2321
75	250	1/16	1/16	AJ1-2341
75	500	1/16	1/16	AJ1-2371
75	1000	1/16	1/16	AJ1-23A1
100	100	1/16	1/16	AJ1-2411
100	150	1/16	1/16	AJ1-2421
100	250	1/16	1/16	AJ1-2441
100	500	1/16	1/16	AJ1-2471
100	1000	1/16	1/16	AJ1-24A1

PEEKsil Single-Sided Fittings



ID (µm)	LENGTH (mm)	Fitting Size Top (in.)	Fitting Size Bottom (in.)	Part No.
50	150	1/16	None	AJ1-2224
50	500	1/16	None	AJ1-2274
50	750	1/16	None	AJ1-2294
50	1000	1/16	None	AJ1-22A4

Stainless Steel Double-Sided Fittings



ID (µm)	LENGTH (mm)	Fitting Size Top (in.)	Fitting Size Bottom (in.)	Part No.
100	150	1/16	1/16	AJ1-1421
100	250	1/16	1/16	AJ1-1441
100	350	1/16	1/16	AJ1-1461
100	500	1/16	1/16	AJ1-1471
100	600	1/16	1/16	AJ1-1481
125	150	1/16	1/16	AJ1-1521
125	250	1/16	1/16	AJ1-1541
125	350	1/16	1/16	AJ1-1561
125	500	1/16	1/16	AJ1-1571
125	600	1/16	1/16	AJ1-1581
254	150	1/16	1/16	AJ1-1621
254	250	1/16	1/16	AJ1-1641
254	350	1/16	1/16	AJ1-1661
254	500	1/16	1/16	AJ1-1671
254	600	1/16	1/16	AJ1-1681

PEEK-Lined Stainless Steel Double-Sided Fittings



ID (µm)	LENGTH (mm)	Fitting Size Top (in.)	Fitting Size Bottom (in.)	Part No.
25	150	1/16	1/16	AJ1-3121
25	250	1/16	1/16	AJ1-3141
25	350	1/16	1/16	AJ1-3161
25	500	1/16	1/16	AJ1-3171
25	600	1/16	1/16	AJ1-3181
50	150	1/16	1/16	AJ1-3221
50	250	1/16	1/16	AJ1-3241
50	350	1/16	1/16	AJ1-3261
50	500	1/16	1/16	AJ1-3271
50	600	1/16	1/16	AJ1-3281
75	150	1/16	1/16	AJ1-3321
75	250	1/16	1/16	AJ1-3341
75	350	1/16	1/16	AJ1-3361
75	500	1/16	1/16	AJ1-3371
75	600	1/16	1/16	AJ1-3381
100	150	1/16	1/16	AJ1-3421
100	250	1/16	1/16	AJ1-3441
100	350	1/16	1/16	AJ1-3461
100	500	1/16	1/16	AJ1-3471
100	600	1/16	1/16	AJ1-3481

Phenomenex Column / Tubing ID Recommendation Chart

	Nano	Microbore	Analytical			Semi-Prep	
Column ID	0.05 - 0.1 mm (50 µm-100 µm)	0.3 - 0.5 mm (300 µm-500 µm)	1 mm	2.1 mm	3 mm	4.6 mm	7.8 mm
Tubing ID	25 µm	50 µm	50 µm - 75 µm	100 µm	100 µm	100 µm	125 µm

HPLC/UHPLC Solvent Protection SecurityCAP™

Limit Your Exposure to Lab Solvents

The SecurityCAP mobile phase and solvent waste safety caps prevent dangerous vapors and gases from leaving HPLC/UHPLC solvent reservoirs. Over time, these chemicals can have a negative impact on the health of all employees and visitors in the lab. When lab safety and dependable results are a priority, you need SecurityCAPs!

Mobile Phase Safety Filter and Cap

- Increases Health and Worker Safety**

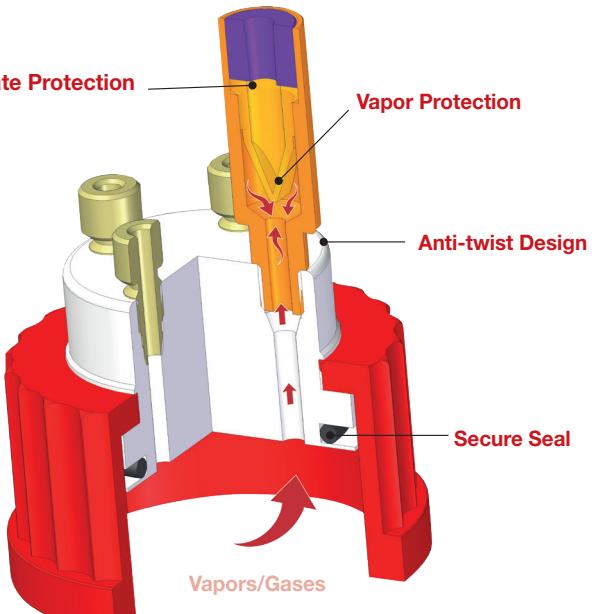
An integrated one-way valve protects lab air quality by preventing hazardous vapors and gases from leaving the solvent container. The valve allows air to flow into the vessel to compensate for the pressure during solvent removal

- Protects HPLC/UHPLC Results**

PTFE filter membrane prevents contaminants and dust from entering your solvent

- Confidence During Quality and Safety Audits**

Eliminate aluminum foil or Parafilm® covering solvent bottles



Waste Exhaust Filter and Cap

- Safer Laboratory Work Environment**

Harmful chemical vapors are safely collected and air quality is protected

- Large Capacity Waste Safety Filter**

High surface area ($560 \text{ m}^2/\text{g}$) multi-compound adsorbent captures evaporated solvents

- Easy to Use**

Freely rotating cap body prevents twisting tubes during waste container exchange

For more information, visit
www.phenomenex.com/SecurityCAP

SecurityCAP Ordering Information



Starter Kits

SecurityCAP Mobile Phase (Eluent) Safety Starter Kits

Part No.	Description	Unit
AC2-1245	2-port GL45 Cap and 6-month Safety Filter	ea
AC2-4245	2-port GL45 Caps (x4) and 6-month Safety Filters (x4)	ea
AC2-4240	2-port Merck S40 Caps (x4) and 6-month Safety Filters (x4)	ea
AC2-1345	3-port GL45 Cap and 6-month Safety Filter	ea
AC2-4345	3-port GL45 Caps (x4) and 6-month Safety Filters (x4)	ea
AC2-4445	4-port GL45 Cap (x1) and 2-port Caps (3x) and 6-month Safety Filters (x4)	ea
AC2-1445	4-port GL45 Cap and 6-month Safety Filter	ea
AC2-1545	5-port GL45 Cap and 6-month Safety Filter	ea
AC2-1561	5-port S60/S61 Cap and 6-month Safety Filter	ea



SecurityCAP Waste Safety Starter Kits

Part No.	Description	Unit
AC1-1245	2-port GL/DIN45 Cap and 6-month Exhaust Filter and Barbed Connector	ea
AC1-1545	5-port GL/DIN45 Cap and 6-month Exhaust Filter	ea
AC1-1551	5-port DIN51 Cap and 6-month Exhaust Filter	ea
AC1-1561	5-port S61 Cap and 6-month Exhaust Filter	ea
AC3-1111	Waste Adaptor for Male 1/4 in NPT-port (PTFE)	ea
AC1-1553	5-port B53 Cap and 6-month Exhaust Filter	ea



Replacement Filters

SecurityCAP Mobile Phase Safety Filters

Part No.	Description	Unit
AC2-0161	6-month Capacity, 1/4 in.-28 Threads	ea
AC2-0961	6-month Capacity, 1/4 in.-28 Threads	10/pk



Replacement Filters

SecurityCAP Waste Safety Filters

Part No.	Description	Unit
AC1-0161	6-month Exhaust Filter for SecurityCAP, 1/4 in.-28 Threads	ea
AC1-0361	6-month Exhaust Filter for SecurityCAP, 1/4 in.-28 Threads	3/pk
AC1-0162	6-month Exhaust Filter for Wide-port Caps, GL14 Threads	ea
AC1-0362	6-month Exhaust Filter for Wide-port Caps, GL14 Threads	3/pk

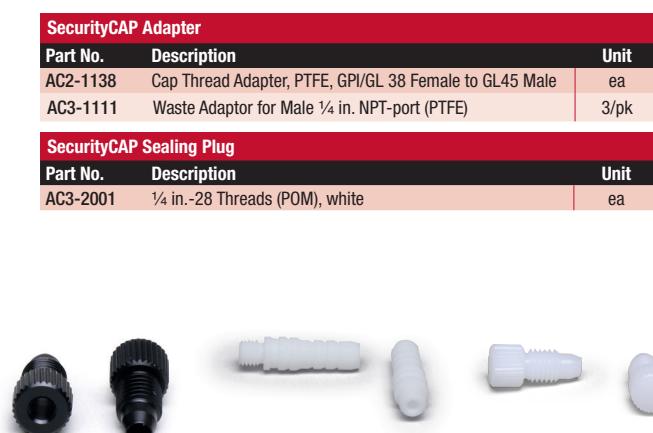
Fittings and Accessories

SecurityCAP Fittings

Part No.	Description	Unit
AC3-1101	for 1/16 in. or 2.0 mm ID Tubing, 1/4 in.-28 Threads (POM), blue	ea
AC3-1201	for 2.3-2.6 mm ID Tubing, 1/4 in.-28 Threads (POM), white	ea
AC3-2101	for 1/8 in. ID Tubing, 1/4 in.-28 Threads (POM), black	ea

SecurityCAP Connectors

Part No.	Description	Unit
AC3-1001	Barbed Connector, for 5-8 mm ID Tubing (PTFE), white	ea
AC3-1301	Y-connector, for 6-8 mm ID Tubing (POM), white	ea



POM = polyoxymethylene
PTFE = polytetrafluoroethylene (Teflon®)

SecurityCAP Waste Safety Compatibility Table

Supplier	ea	3/pk
SCAT® Safety Waste Caps	AC1-0162	AC1-0362
AIT® SmartCaps™	AC1-0162	AC1-0362
Agilent® InfinityLab Stay Safe Caps	AC1-0162	AC1-0362
VICI® Waste Caps	AC1-0161	AC1-0361
Canary-Safe™ Safety Caps	AC1-0162	AC1-0362
DURAN® DG Safety Caps	AC1-0162	AC1-0362
VapLock™ Safety Caps (with AC3-1111)	AC1-0161	AC1-0361

Disclaimer

The 6 month SecurityCAP filter lifetime is a general guideline based on running a single instrument for 8 hours a day at 1 mL/min. SecurityCAP filters may need to be changed more or less frequently based on the system usage.

Column Recommendations



Popular Applications

Large Molecule Separations		Small Molecule Separations	
Intact Mass Intact & Fragment Analysis	bioZen™ Intact XB-C18 3.6 µm	Hydrocarbon Compounds	Kinetex® C18 1.3, 1.7, 2.6, 5 µm
	bioZen Intact C4 3.6 µm		Luna® Omega C18 1.6 µm
Aggregate Analysis	bioZen SEC-2 1.8 µm	Polar Acids	Kinetex Polar C18 2.6 µm
	bioZen SEC-3 1.8 µm		Luna Omega Polar C18 1.6, 3, 5 µm
Peptide Mapping Peptide Quantitation	bioZen Peptide PS C18 1.6 µm and 3 µm	Polar Bases	Kinetex EVO C18 1.7, 2.6, 5 µm
	bioZen Peptide XB-C18 1.7 µm and 2.6 µm		Luna Omega PS C18 1.6, 3, 5 µm
Glycan Analysis	bioZen Glycan 2.6 µm	Closely Related Compounds	Kinetex Biphenyl 1.6, 2.6, 5 µm
Charge Variant Analysis	bioZen WCX 6 µm		Kinetex F5 1.7, 2.6, 5 µm

Don't Forget HPLC/UHPLC Column Protection

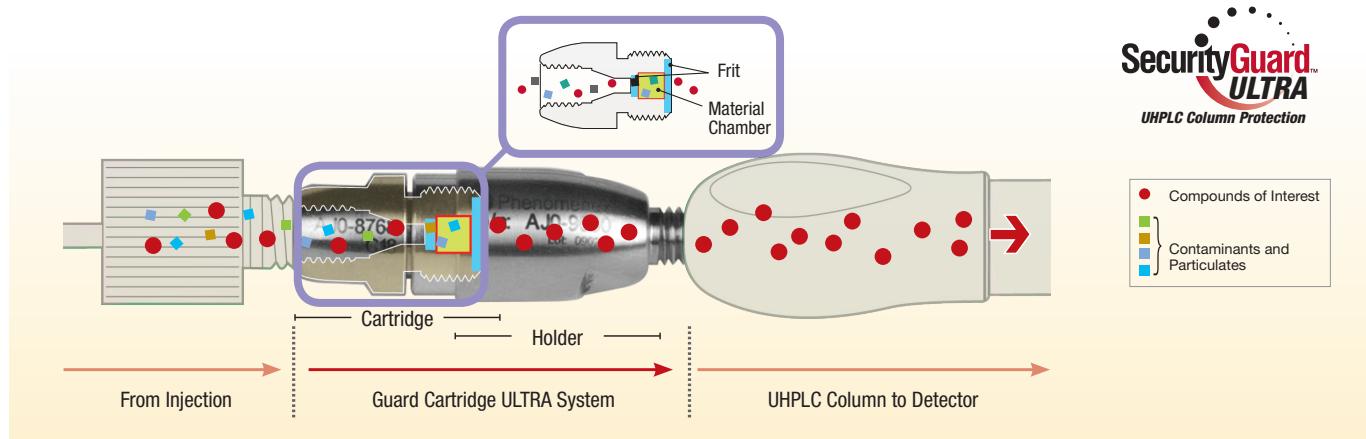
SecurityGuard ULTRA Keeps Columns Performing at Their Best

When contaminants and particulates build up at the head of the column or on the guard cartridges, system pressures dramatically increase.

By simply replacing the SecurityGuard ULTRA cartridge instead of your < 3 µm and/or core-shell UHPLC column, you are able to regain normal operating conditions and reclaim original column performance.

Excellent UHPLC Column Compatibility

All core-shell and/or
< 3 µm particle columns
(< 20,000 psi / 1,378 bar)



SecurityGuard
ULTRA
UHPLC Column Protection

Ordering Information

Kinetex Core-Shell UHPLC Columns



UHPLC Connections in a Click
SecurityLINK™

15

1.7 µm Minibore Columns (mm)					
Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	SecurityGuard™ ULTRA Cartridges*
EVO C18	—	00B-4726-AN	00D-4726-AN	00F-4726-AN	AJ0-9298
F5	—	00B-4722-AN	00D-4722-AN	00F-4722-AN	AJ0-9322
Biphenyl	—	00B-4628-AN	00D-4628-AN	00F-4628-AN	AJ0-9209
XB-C18	00A-4498-AN	00B-4498-AN	00D-4498-AN	00F-4498-AN	AJ0-8782
C18	00A-4475-AN	00B-4475-AN	00D-4475-AN	00F-4475-AN	AJ0-8782
C8	00A-4499-AN	00B-4499-AN	00D-4499-AN	00F-4499-AN	AJ0-8784
HILIC	00A-4474-AN	00B-4474-AN	00D-4474-AN	—	AJ0-8786
Phenyl-Hexyl	—	00B-4500-AN	00D-4500-AN	00F-4500-AN	AJ0-8788

for 2.1 mm ID



1.7 µm MidBore™ Columns (mm)				SecurityGuard™ ULTRA Cartridges*
Phases	30 x 3.0	50 x 3.0	100 x 3.0	3/pk
XB-C18	00A-4498-Y0	00B-4498-Y0	00D-4498-Y0	AJ0-8775
C18	—	00B-4475-Y0	00D-4475-Y0	AJ0-8775
C8	00A-4499-Y0	00B-4499-Y0	00D-4499-Y0	AJ0-8777
HILIC	—	00B-4474-Y0	—	AJ0-8779

for 3.0 mm ID

1.7 µm Microbore Columns (mm)			
Phases	50 x 1.0	100 x 1.0	150 x 1.0
EVO C18	00B-4726-A0	00D-4726-A0	00F-4726-A0
Biphenyl	00B-4628-A0	00D-4628-A0	00F-4628-A0

1.3 µm Minibore Columns (mm)		
Phases	30 x 2.1	50 x 2.1
C18	00A-4515-AN	00B-4515-AN

*SecurityGuard ULTRA cartridges require holder, Part No.: AJ0-9000

Luna Omega UHPLC Columns

1.6 µm Microbore Columns (mm)			
Phases	50 x 1.0	100 x 1.0	150 x 1.0
Polar C18	00B-4748-A0	00D-4748-A0	00F-4748-A0
C18	00B-4742-A0	00D-4742-A0	00F-4742-A0
PS C18	00B-4752-A0	00D-4752-A0	-

1.6 µm Minibore Columns (mm)					
Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	SecurityGuard™ ULTRA Cartridges*
Polar C18	00A-4748-AN	00B-4748-AN	00D-4748-AN	00F-4748-AN	AJ0-9505
PS C18	00A-4752-AN	00B-4752-AN	00D-4752-AN	00F-4752-AN	AJ0-9508
C18	00A-4742-AN	00B-4742-AN	00D-4742-AN	00F-4742-AN	AJ0-9502

for 2.1 mm ID

*SecurityGuard ULTRA cartridges require holder, Part No.: AJ0-9000

bioZen Products Ordering Information

bioZen Columns (mm)						Biocompatible Guard Cartridges		
	100 x 2.1	150 x 2.1		for 2.1 mm	Holder			
bioZen 2.6 µm Glycan	00D-4773-AN	00F-4773-AN		AJ0-9800	AJ0-9000			
	50 x 2.1	150 x 2.1		for 2.1 mm	Holder			
				/3pk	ea			
bioZen 1.6 µm Peptide PS-C18	00B-4770-AN	00F-4770-AN		AJ0-9803	AJ0-9000			
	50 x 4.6	150 x 4.6		for 4.6 mm	Holder			
				/10pk	ea			
bioZen 3 µm Peptide PS-C18	00B-4771-E0	00F-4771-E0		AJ0-7606	KJ0-4282			
	50 x 2.1	150 x 2.1		for 2.1 mm	Holder			
				/3pk	ea			
bioZen 1.7 µm Peptide XB-C18	00B-4774-AN	00F-4774-AN		AJ0-9806	AJ0-9000			
	50 x 2.1	150 x 2.1	250 x 2.1	50 x 4.6	150 x 4.6	for 2.1 mm	for 4.6 mm	Holder
				/3pk	/3pk	ea		
bioZen 2.6 µm Peptide XB-C18	00B-4768-AN	00F-4768-AN	00G-4768-AN	00B-4768-E0	00F-4768-E0	AJ0-9806	AJ0-9808	AJ0-9000
	50 x 2.1	150 x 2.1	50 x 4.6	150 x 4.6		for 2.1 mm	for 4.6 mm	Holder
				/3pk	/3pk	ea		
bioZen 3.6 µm Intact C4	00B-4767-AN	00F-4767-AN	00B-4767-E0	00F-4767-E0		AJ0-9809	AJ0-9811	AJ0-9000
bioZen 3.6 µm Intact XB-C8	00B-4766-AN	00F-4766-AN	00B-4766-E0	00F-4766-E0		AJ0-9812	AJ0-9814	AJ0-9000
	150 x 4.6	300 x 4.6				for 4.6 mm	Holder	
				/3pk	ea			
bioZen 1.8 µm SEC-2	00F-4769-E0	00H-4769-E0				AJ0-9850	AJ0-9000	
bioZen 1.8 µm SEC-3	00F-4772-E0	00H-4772-E0				AJ0-9851	AJ0-9000	
				/10pk	ea			
bioZen 6 µm WCX	00B-4777-E0	00D-4777-E0	00F-4777-E0	00G-4777-E0		AJ0-9400	KJ0-4282	



SecurityLINK®

UHPLC Connections in a Click



Australia
t: +61 (0)2-9428-6444
auinfo@phenomenex.com

Austria
t: +43 (0)1-319-1301
anfrage@phenomenex.com

Belgium
t: +32 (0)2 503 4015 (French)
t: +32 (0)2 511 8666 (Dutch)
beinfo@phenomenex.com

Canada
t: +1 (800) 543-3681
info@phenomenex.com

China
t: +86 400-606-8099
cninfo@phenomenex.com

Denmark
t: +45 4824 8048
nordicinfo@phenomenex.com

Finland
t: +358 (0)9 4789 0063
nordicinfo@phenomenex.com

France
t: +33 (0)1 30 09 21 10
franceinfo@phenomenex.com

Germany
t: +49 (0)6021-58830-0
anfrage@phenomenex.com

India
t: +91 (0)40-3012 2400
indiainfo@phenomenex.com

Ireland
t: +353 (0)1 247 5405
eireinfo@phenomenex.com

Italy
t: +39 051 6327511
italiainfo@phenomenex.com

Luxembourg
t: +31 (0)30-2418700
nlinfo@phenomenex.com

Mexico
t: 01-800-844-5226
tecnicomx@phenomenex.com

The Netherlands
t: +31 (0)30-2418700
nlinfo@phenomenex.com

New Zealand
t: +64 (0)9-4780951
nzinfo@phenomenex.com

Norway
t: +47 810 02 005
nordicinfo@phenomenex.com

Portugal
t: +351 221 450 488
ptinfo@phenomenex.com

Singapore
t: +65 800-852-3944
sginfo@phenomenex.com

Spain
t: +34 91-413-8613
espinfo@phenomenex.com

Sweden
t: +46 (0)8 611 6950
nordicinfo@phenomenex.com

Switzerland
t: +41 61 692 20 20
swissinfo@phenomenex.com

United Kingdom
t: +44 (0)1625-501367
ukinfo@phenomenex.com

USA
t: +1 (310) 212-0555
info@phenomenex.com

All other countries [Globe icon]
Corporate Office USA
t: +1 (310) 212-0555
info@phenomenex.com

 **phenomenex®**
...breaking with tradition™

www.phenomenex.com

Phenomenex products are available worldwide. For the distributor in your country, contact Phenomenex USA, International Department at international@phenomenex.com

Terms and Conditions

Subject to Phenomenex standard terms and conditions which can be viewed at [www.phenomenex.com /TermsandConditions](http://www.phenomenex.com/TermsandConditions)

Trademarks

Kinetex and Luna are registered trademarks, and SecurityLINK, SecurityCAP, SecurityGuard, and bioZen are trademarks of Phenomenex. SCIEX is a registered trademark of AB SCIEX Pte. Ltd. AB SCIEX™ is being used under license. Thermo Fisher Scientific is a registered trademark of Thermo Fisher Scientific Inc. Agilent and ZORBAX are registered trademarks of Agilent Technologies, Inc. ACQUITY, UPLC and Waters are registered trademarks of Waters Corporation. PEEKsil is a trademark of SGE International Pty. Ltd. AIT is a registered trademark of AIT France. Canary-Safe is a trademark of Analytical Sales and Services. S.C.A.T. is a registered trademark of S.C.A.T.-Europe GmbH. Teflon is a registered trademark of The Chemours Company, FC, LLC. VICI Jour is a registered trademark of Valco Instruments Co. L.P. VapLock is a trademark of Western Fluids, LLC. DURAN is a registered trademark of DWK Life Sciences GmbH. Parafilm is a registered trademark of Bemis Company, Inc.

Disclaimer

Comparative separations may not be representative of all applications. Phenomenex is in no way affiliated with the above companies.

FOR RESEARCH USE ONLY. Not for use in clinical diagnostic procedures.

© 2019 Phenomenex, Inc. All rights reserved.