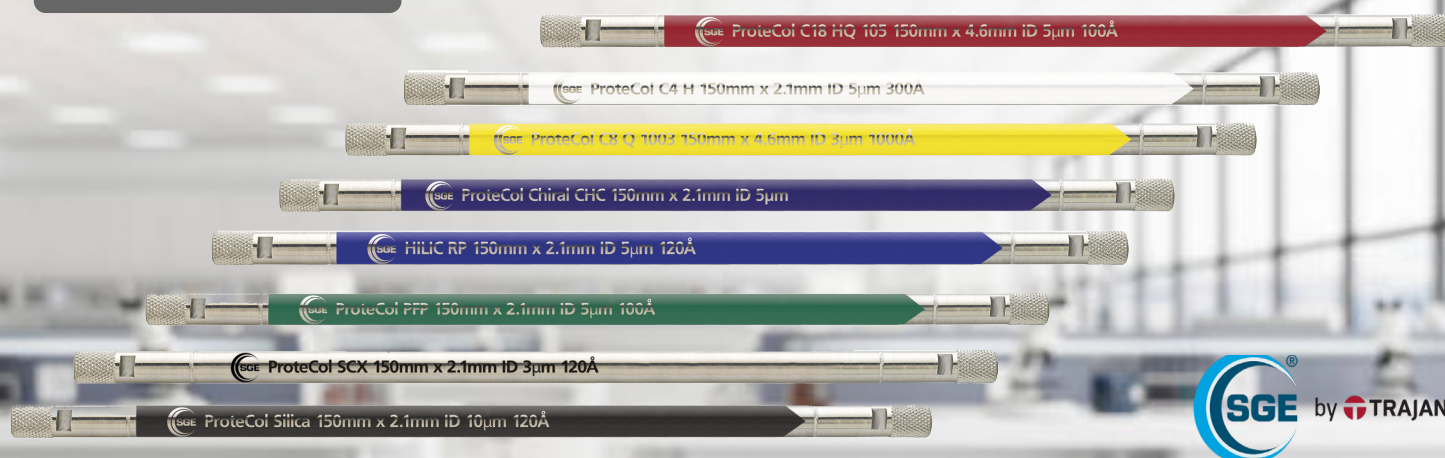


Reference Guide



ProteCol HPLC Columns and Connections

HPLC Column ProteCol® C₁₈

Turn Imagination into Results

High quality phases and a variety of hardware options provide a perfect match for all your separation needs.

Features and Benefits

- A range of C₁₈ phases including options for pore size and pH stability.
- Reduced sample and column preparation time.
- Improved peak shape, reproducibility and sensitivity.
- Reduced carry over.

Recommended Applications

General purpose reverse phase separations.

Product Specifications

0.15, 0.3, 1, 2.1, 3, and 4.6 mm ID columns available in 50, 100, 150, 250 mm lengths.

PEEK coated, and PEEKsil®, column hardware available to reduce non-specific interactions when analyzing compounds with metal chelating activity.



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Phase	Specifications	Pore Size (Å)	Particle Size (µm)	Pore Volume (ml)	Surface Area	Carbon Load %	USP Code
C18 Q	<ul style="list-style-type: none"> Ultra pure silica Fully end capped optimized C₁₈ phases 	100	3, 5	1.0 ± 0.1	400 ± 40	16.8	L1
C18 G	• Stable in aqueous conditions	120	2.5, 3, 5, 10	1.0 ± 0.1	1.0 ± 0.1	17.1	L1
	• Reduced non-specific analyte interactions	200	3, 5		200 ± 30	12.6	L1
	• Separates polar compounds pH stability 1-9	300	3, 5		100 ± 20	6.9	L1
C18 H	<ul style="list-style-type: none"> Modified bonded phase making it easier to work from low to high pH using the same column Novel chemical bonding ensuring stability under extreme alkaline and acidic conditions pH stability 1 -11 	120	5	1.0 ± 0.1	300 ± 40	20.9	L1
C18 P	<ul style="list-style-type: none"> Polar embedded C₁₈ 100 % compatible with water pH stability 1 - 9 	120	3, 5	1.0 ± 0.1	300 ± 40	14.5	L1

HPLC Capillary Column ProteCol®

Turn Imagination into Results

The ProteCol® capillary HPLC design includes integrated connection tubing with PEEKsil® for the column body and connection capillaries delivering robust design, zero volume connections and uninterrupted flow.

Features and Benefits

Integrated PEEKsil connection tubing, PEEKsil column body, and zero volume connections allows for use with:

- Small samples.
- Exotic solvents.
- Low concentrations.
- Direct coupling into MS.

Recommended Applications

- Biotechnology.
- Medical research.
- Proteomics.
- Pharmaceuticals.

HPLC guard column ProteCol

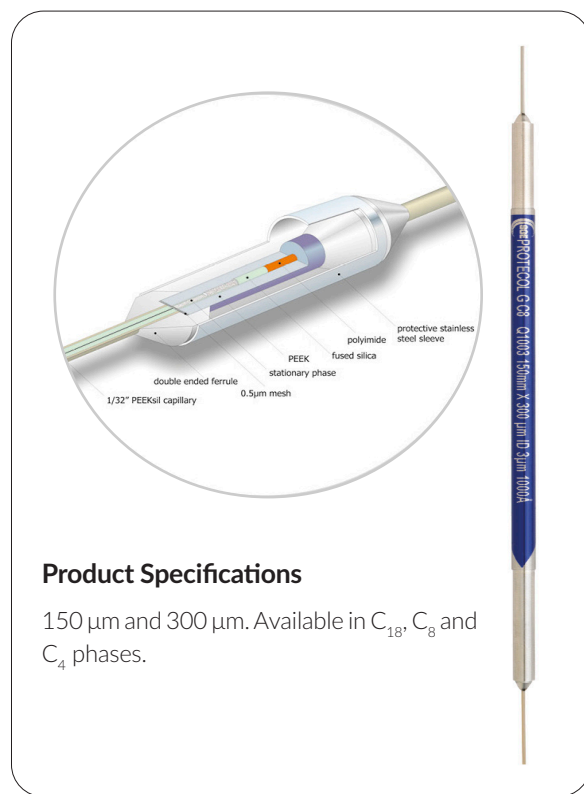
ProteCol® guard columns are recommended to protect the analytical column, and ensure it performs consistently.

Features and Benefits

The unique design of the guard column couples directly to the analytical column. The guard column is designed to fit into the back of a PEEK fingertight fitting (provided with the guard column). No further unions are required.

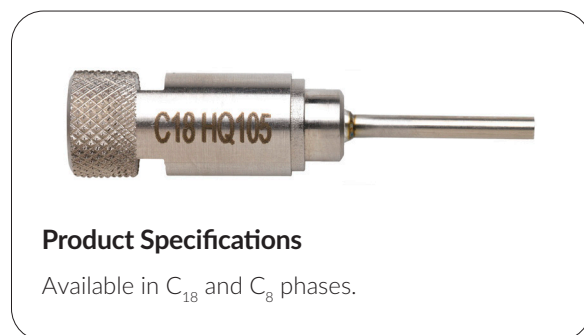
Recommended Applications

We recommend the use of ProteCol Guard columns to protect the analytical column, and ensure it performs consistently.



Product Specifications

150 µm and 300 µm. Available in C₁₈, C₈ and C₄ phases.



Product Specifications

Available in C₁₈ and C₈ phases.

ProteCol® HPLC unions

Perfect connections, every time

ProteCol® HPLC unions are specifically designed and precision engineered for use in capillary LC. The ideal way to avoid any void or dead volume in a connection is to achieve a faultless butt connection. .

Features and Benefits

- Easy to use ProteCol HPLC unions are available in stainless steel or PEEK, with reusable PEEK ferrules.
- Zero dead volume design for no peak dispersion.
- Complete versatility - allows connection to the same or different sized tubing.
- Stainless steel unions can be finger tightened, or tightened with a 3/16" wrench for high-pressure applications. PEEK unions can be finger tightened. They are slightly larger than stainless steel unions but also lighter - less stress on your tubing.
- Replacement PEEK ferrules available.

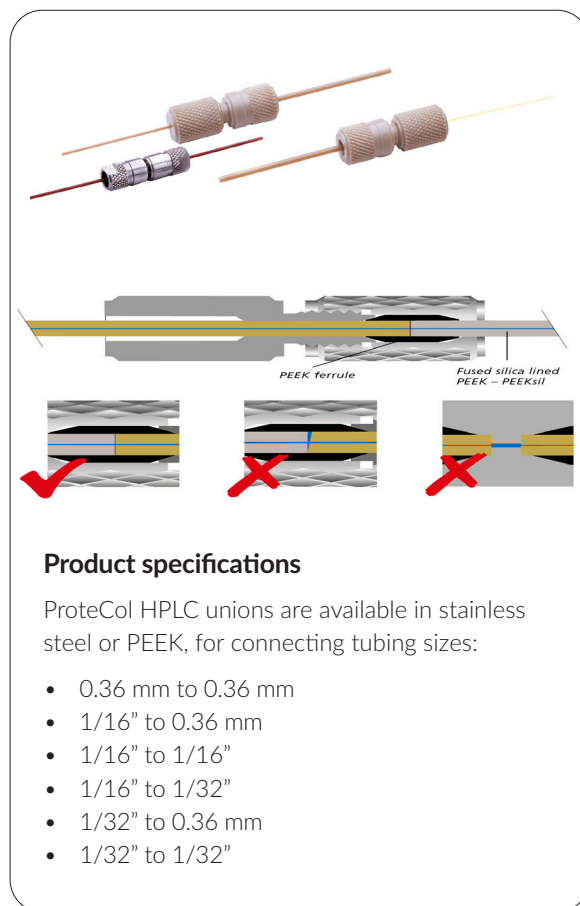
Recommended Applications

ProteCol HPLC unions and reusable PEEK ferrules allow you to connect any combination of:

- 1/32" PEEKsil® tubing.
- 1/16" PEEKsil tubing.
- 0.36 mm fused silica tubing.
- Use for connecting guard or trap columns to analytical columns, or for bypassing the analytical column.

All unions use the same range of reusable PEEK ferrules.

Pressure rating: 5,000 psi (stainless steel unions), 2,175 psi (PEEK unions).



ProteCol HPLC Columns and Connections

Description	Part No.
C ₁₈ H x 3 µm Particle Size x 120 Å Pore Size, 100 mm Length x 4.6 mm ID, Stainless Steel ProteCol HPLC Column	CM-100032
C ₁₈ H x 5 µm Particle Size x 120 Å Pore Size, 150 mm Length x 4.6 mm ID, PEEK Coated ProteCol HPLC Column	CM-100034
C ₁₈ H x 5 µm Particle Size x 120 Å Pore Size, 250 mm Length x 4.6 mm ID, PEEK Coated ProteCol HPLC Column	CM-100035
C ₁₈ H x 5 µm Particle Size x 120 Å Pore Size, 10 mm Length x 4.0 mm ID, Stainless Steel ProteCol HPLC Guard Column, Pkg. 3	CM-100033
C ₁₈ Q x 5 µm Particle Size x 100 Å Pore Size, 250 mm Length x 4.6 mm ID, PEEK Coated ProteCol HPLC Column	CM-100036
PEEK Fingertight Fittings, 1/16" to 10-32UNF Thread, Pkg. 10	CC-100096
PEEK Fingertight Fittings, 1/32" to 6-40UNF Thread, Pkg. 5	CC-100098
PEEK Ferrule, for 1/16" to 1/32" ID Columns, Pkg. 5	CC-100097