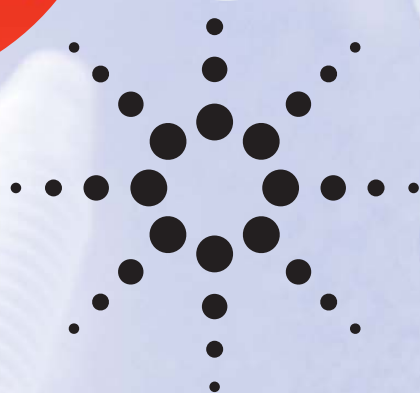
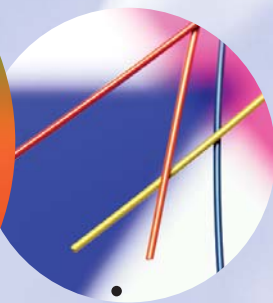
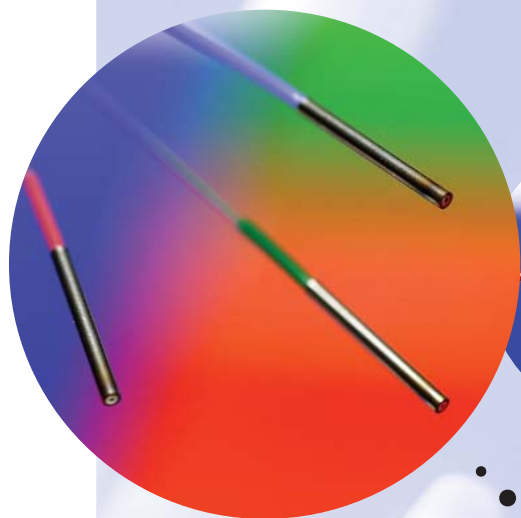


Capillary Connections for HPLC

Remarkably Easy to Handle



FREE Cybertool

with each convenient starter kit



Agilent Technologies

“Through innovative engineering, advanced manufacturing practices, and stringent quality control, every **Agilent** product

comes with our assurance of maximum value

Plus, for an added bonus, choose a capillary connections starter kit.

You'll save money and get a free **Cybertool.**”



Erich Wagner
Product Manager-HPLC

Agilent Technologies' **flexible stainless steel** and **polymer** capillaries and fittings provide:

- An inert surface
- Tight and leak-free connections
- Zero dead volumes

Unique Flexible Stainless Steel Capillary Connections

Agilent's unique flexible stainless steel capillary connections for liquid chromatography are ideal for small inner diameters, reducing back pressure and blocking. To make these connections compatible with standard 1/16-in. capillaries, we weld a tight, flat sleeve at both ends. Agilent's unique laser welding process ensures that the capillary ends are absolutely flat, eliminating any chance of additional dead volume.

These capillary connections can be used with any brand of LC system.

- **Flexible, for easy handling.** Agilent's 0.6 mm outer diameter flexible stainless steel capillaries are much easier to handle than conventional, rigid 1.6 mm outer diameter capillaries. (The 0.5 mm inner diameter capillaries have a 0.9 mm outer diameter.)
- **Precision cutting.** These capillaries, cut with square ends, are burr-free and have no inner-diameter distortion. The electronic discharge cutting process uses only de-ionized water to prevent contamination.



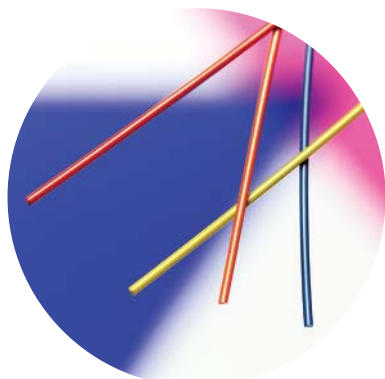
See page 4

Flexible Stainless Steel Capillary Connections Order Guide

Color Code	0.12 mm i.d.		0.17 mm i.d.		0.25 mm i.d.		0.5 mm i.d.	
	Red		Green		Blue		None	
Length [mm]	Part No.	Volume [μl]	Part No.	Volume [μl]	Part No.	Volume [μl]	Part No.	Volume [μl]
105	5021-1820	1.2	5021-1816	2.4			5065-9927	20.6
150	5021-1821	1.7	5021-1817	3.4			5022-6509	29.5
200	5065-9935	2.3	5065-9931	4.6				
280	5021-1822	3.2	5021-1818	6.4	5022-6508	13.8	5022-6510	55
400	5021-1823	4.5	5021-1819	9.1				
600			5065-9933	13.6				
700			5065-9932	15.9				
800					5065-9930	39.3	5065-9926	157

Durable Polymer Capillary Connections

PEEK (polyetheretherketone) polymer connections can be cut to any desired length and are inert to most solvents—a good alternative to stainless steel connections. These can be used with stainless steel or PEEK fittings.



Which Capillary Connection Size Is Right for You?

You should always use the smallest capillary internal diameter and the shortest length to keep sample dispersion as low as possible.

Replacement Fittings

- **Stainless steel fittings:** Short or long replacement stainless steel fittings have Swagelok front and back ferrules for tight and reliable sealing. Agilent recommends a slotted socket wrench for effective tightening (part no. 8710-2391 on page 4).
- **ChromTRAC identifiers:** These can be used with stainless steel or PEEK RheFlex fittings to add color-coding to existing connections.
- **PEEK fittings:** Single-piece or two-piece PEEK fittings can be replaced easily and create a leak-proof connection. Inlets and outlets of valves, columns, and detectors can be tracked using color-coded PEEK fittings.

PEEK Polymer Capillary Connections Order Guide

	0.13 mm i.d. (0.005-in.)	0.18 mm i.d. (0.007-in.)	0.25 mm i.d. (0.01-in.)	0.5 mm i.d. (0.02-in.)
Color Code	Red	Yellow	Blue	Orange
	Part No.	Part No.	Part No.	Part No.
Tubing 1/16-in. o.d., 1.5 m	0890-1915	0890-1763	0890-1762	0890-1761
Tubing 1/16-in. o.d., 5 m	5042-6461	5042-6462	5042-6463	





Capillary Connections Size Guide

Column Size/Type	Agilent Capillary Connection
2 mm i.d.	0.12 mm i.d.
3 mm i.d.	0.17 mm i.d.
4 mm i.d.	0.17 mm i.d.
Prep/semi prep	0.25 and 0.5 mm i.d. (for higher flow rates)
Capillary Liquid Chromatography	PEEK coated fused silica
Nanoflow Liquid Chromatography	PEEK coated fused silica

Replacement Fittings Order Guide

Description	Part No.	
PEEK RheFlex 2-piece fittings, 5/pack	0100-1631	
PEEK RheFlex 2-piece fittings, colored, 10/pack	0100-2175	
ChromTrac identifiers, 20/pack 2 black, 2 white, 2 green, 2 gray, 4 yellow, 4 red, 4 blue	0350-1402	
1/16-in. stainless steel fittings, front and back ferrules, 10/pack	5062-2418	
1/16-in. stainless steel long fittings, front and back ferrules, 10/pack	5065-4454	
1/16-in. stainless steel male fittings, 10/pack	5061-3303	
1/16-in. stainless steel front ferrules, 10/pack	5180-4108	
1/16-in. stainless steel back ferrules, 10/pack	5180-4114	
Finger-tight PEEK fittings, 1/16-in., 10/pack	5063-6591	
Finger-tight PEEK long fittings, 1/16-in., 10/pack	5062-8541	
Finger-tight PEEK fittings, 10/pack 1/16 in., 2 yellow, 2 blue, 2 black, 2 green, 2 red	5065-4426	
Double winged PEEK nuts and 1/16-in. ferrules, 10/pack	5042-6500	





Fittings and Ferrules for Capillary LC and Nano LC Order Guide

Description	Type	Part No.	
4 mm stainless steel fitting, male 10-32, 10/pack	B	5063-6593	
1/32-in. PEEK ferrule and stainless steel lock ring, 10/pack	B	5065-4423	
6 PEEK fittings and 2 plugs for μ-valves	C	5065-4410	
Double winged PEEK nuts and 1/32-in. ferrules, 10/pack	D	5065-4422	



Agilent fittings and ferrules for capillary LC and nano LC are used with 1/32-in. o.d. PEEK coated fused silica capillaries. They ensure tight, leak-free sealing without dead volume.

Unions Order Guide

This chart will help you choose the right stainless steel union for your application.

Description	Application	Part No.	
True ZDV union, stainless steel, no fittings	Capillary/Nano LC	5022-2145	
ZDV union, stainless steel, no fittings	Standard LC	5022-2184	
ZDV union, stainless steel, with fittings	Standard LC	0100-0900	
High flow union, stainless steel	Prep LC	5022-2133	

Tools Order Guide

Description	Part No.	
Cutter for plastic tubing	8710-1930	
Replacement blades for tubing cutter, 5/pack	8710-1931	
Rheotool socket wrench 1/4-in.	8710-2391	

For More Information

Visit our Web site at www.agilent.com/chem and select "Columns and Accessories" to view more information about our fittings and valve solutions.

Information, descriptions, and specifications in this publication are subject to change without notice.

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For Your Best Value, Choose a Starter Kit with Free Cybertool

Agilent starter kits contain the most often used capillaries and fittings. We included our genuine flexible stainless steel capillaries to make the best connection in your LC system, no matter the brand. The free Cybertool, which contains over 30 tools, is useful in every laboratory.

Capillary/Fitting Starter Kit, 0.17 mm i.d. Part No. 5065-9939

Description	Quantity
PEEK capillary 0.17 mm i.d., 1.5 m	1
Stainless steel capillary, 105 x 0.17 mm	4
Stainless steel capillary, 150 x 0.17 mm	4
Stainless steel capillary, 200 x 0.17 mm	2
Stainless steel capillary, 280 x 0.17 mm	2
Stainless steel capillary, 400 x 0.17 mm	1
Tubing cutter for PEEK capillaries	1
1/16-in. stainless steel fittings, 10/pack	1
1/16-in. PEEK fittings, 10/pack	1
1/16-in. PEEK fittings, color, 10/pack	1
ZDV union, stainless steel	3
Rheotool	1
Cybertool	1

FREE!

Capillary/Fitting Starter Kit, 0.12 mm i.d. Part No. 5065-9937

Description	Quantity
PEEK capillary 0.13 mm i.d., 1.5 m	1
Stainless steel capillary, 105 x 0.12 mm	4
Stainless steel capillary, 150 x 0.12 mm	4
Stainless steel capillary, 200 x 0.12 mm	2
Stainless steel capillary, 280 x 0.12 mm	2
Stainless steel capillary, 400 x 0.12 mm	1
Tubing cutter for PEEK capillaries	1
1/16-in. stainless steel fittings, 10/pack	1
1/16-in. PEEK fittings, 10/pack	1
1/16-in. PEEK fittings, color, 10/pack	1
ZDV fitting	3
Rheotool	1
Cybertool	1

FREE!

Capillary/Fitting Starter Kit, for 1100 Capillary LC System (with 20 μL/min flow sensor) Part No. 5065-9938

Description	Quantity
Fused silica/PEEK capillary 50 μm, 55 cm	2
Fused silica/PEEK capillary 50 μm, 20 cm	1
Fused silica/PEEK capillary 100 μm, 110 cm	1
Fused silica/PEEK capillary 50 μm, 50 cm	2
Fused silica/PEEK capillary 50 μm, 40 cm	2
4 mm stainless steel fitting, male, 10-32	4
1/32-in. PEEK ferrule and stainless steel lock ring	4
PEEK fittings for μ-valves	4
Double winged PEEK nuts and 1/32-in. ferrules	4
Cybertool	1

FREE!