back pressure regulators

Optimize flow-through back pressure regulators utilize an active mechanism to maintain steady back pressure across a range of mobile phase viscosities and flow rates. Placing one downstream from your detector will prevent solvent outgassing and bubble formation in the flow cell, reducing baseline noise and drift.

Each regulator has an internal volume of 100 μL and is available in pre-set pressures of 10, 30, 60, 100, or 150 psi.

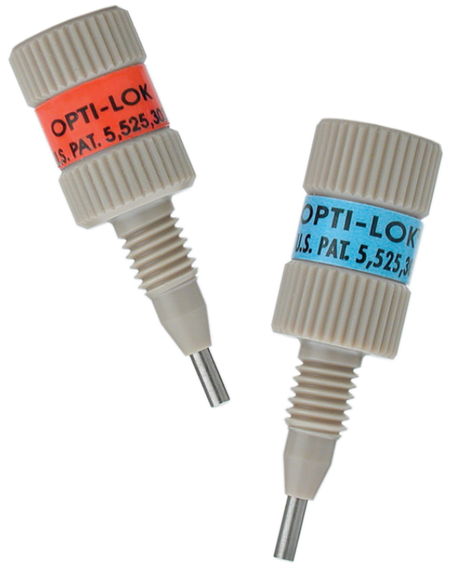
Place a back pressure regulator downstream from your detector to prevent solvent outgassing and bubble formation in the flow cell, reducing baseline noise and drift.

Back Pressure Regulators

10-06-00120	Back Pressure Regulator, 10 psi
10-06-00128	Back Pressure Regulator, 30 psi
10-06-00129	Back Pressure Regulator, 60 psi
10-06-00130	Back Pressure Regulator, 100 psi
10-06-00132	Back Pressure Regulator, 150 psi

optilok™ fittings, tubing & adapters

As complex and advanced as HPLC systems have become, they still need conduits for fluid transfer: tubing, fittings, and adapters. Though these components are simple in design and, with the advent of finger tight fittings, fairly easy to use, their role in the plumbing of an HPLC system is often overlooked until something goes wrong. Anyone who has ever used an HPLC knows the troubles a faulty or failing fitting can cause.



At Optimize Technologies, we realize that your time is valuable and should not be wasted worrying about fittings. For this reason, **all Optimize fittings are precision machined** for optimal quality and thread consistency. The machining process is the best way to ensure tight manufacturing tolerances and the minimal amount of product variance.

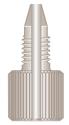
What does all this mean? It means that every fitting you purchase from Optimize will perform just as well as the last, so you'll have no worries about faulty fittings. It also means we are committed to providing our customers with the highest quality, best-designed product available.

If you have questions about the machining process and how it differs from injection molding, give us a call. We are always eager to share our fabrication process and unyielding dedication to excellence.

optilok™ high pressure fittings

Opti-Lok™ fittings are ideal for making high-pressure connections with 1/16" OD tubing. All Optimize fittings are precision machined for optimal quality and thread consistency, and are designed for trouble-free operation at pressures of up to 6,000 psi.

Looking for UHPLC Fittings? See page 9.


OPTI-LOK I (PEEK)

6K Knurled Head (PEEK)

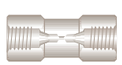
6K Hex Head, Short (PEEK)

6K Knurled Head (SS)

Ferrule (PEEK)

Double Tight Ferrule (PEEK)

Universal Nut (SS)


Union (PEEK)

Tee (PEEK)

Plug (White Acetal)

OPTI-LOK I 10-32 Hand-Tight Fittings with Integral Ferrule

Singles	10-20-00258	10 Pack	10-20-00259	OPTI-LOK I, Kel-F
	10-20-00264		10-20-00265	OPTI-LOK I, PEEK

OPTI-LOK 6K 10-32 Nuts & Ferrules

Singles, Nut Only	10-20-00268	10 Pack, with Ferrules	10-20-00270	Knurled Head, PEEK
	10-20-00271		10-20-00272	Hex Head, Short, PEEK
	10-20-00275		10-20-00276	Hex Head, Long, PEEK
	10-20-00273		10-20-00274	SS, Knurled Head
	10-20-00269		10-20-00518	Double Tight Ferrule, PEEK

10-32 Couplers with 1/16" OD x .006" ID x 6cm SS Tubing

10-20-00263	Coupler, Kel-F
10-20-00266	Coupler, PEEK

Universal 10-32 Nuts & Ferrules for 1/16" OD Tubing

10-24-00367	Universal Nut, SS
10-24-00376	Universal SS Nuts with Ferrules, 10/Pack
10-24-00369	Universal Ferrule, SS
10-24-00370	Universal Ferrule, PEEK

10-32 Unions for 1/16" OD Tubing

10-20-00261	PEEK Union, .010" Thru
10-20-00262	PEEK Union, .020" Thru
10-24-00375	Universal Union, with Nuts & Ferrules, 010" Thru, SS
10-24-00373	Universal Union, with Nuts & Ferrules, 020" Thru, SS
10-24-00371	Universal Union, with Nuts & Ferrules, 030" Thru, SS

10-32 Tees for 1/16" OD Tubing

10-20-00287	Tee, .020" Thru, PEEK

10-32 OPTI-LOK Plugs

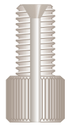
Singles	10-20-00251	10 Pack	10-20-00253	Plug, White Acetal
	10-20-00255		10-20-00256	Plug, PEEK

optilok™ low pressure fittings

Opti-Lok™ LP Fittings are an excellent choice for making low-pressure connections into 1/4-28 ports. Connections to flat-bottomed ports can be made using OPTI-LOK flat-bottomed ferrules for 1/16" or 1/8" tubing, without the need for pre-flanged tubing ends. OPTI-LOK LP fittings are precision machined to deliver leak-free, zero-dead-volume connections every time. We also offer 1/4-28 unions in various through-hole sizes for joining flat-bottom fittings together.

OPTI-LOK LP 1/4-28 Nuts & Ferrules for 1/16" OD Tubing

10-21-00290	Nut, PEEK	10-21-00293	Nut, White Acetal
10-21-00292	Nut, Tefzel®	10-21-00299	Nut, Teflon® (PTFE)
10-21-00291	Nut, Long, PEEK	10-21-00296	Ferrule, PEEK
10-21-00295	Ferrule, Tefzel®	10-21-00300	Ferrule, Teflon® (PTFE)


Nut (PEEK)

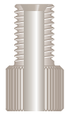
OPTI-LOK LP 1/4-28 Nuts & Ferrules for .100" OD Tubing

10-21-00283	Nut, White Acetal	10-21-00284	Nut, PEEK
10-21-00281	Ferrule, Tefzel®		

Ferrule (PEEK)

OPTI-LOK LP 1/4-28 Nuts & Ferrules for 1/8" OD Tubing

10-21-00307	Nut, PEEK	10-21-00305	Nut, Black Acetal
10-21-00310	Nut, White Acetal	10-21-00306	Nut, Kel-F
10-21-00309	Nut, Tefzel®	10-21-00317	Nut, Teflon® (PTFE)
10-21-00308	Nut, long, PEEK	10-21-00313	Ferrule, PEEK
10-21-00312	Ferrule, Tefzel®	10-21-00318	Ferrule, Teflon® (PTFE)


Nut (PEEK)

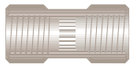
1/4-28 Unions

10-21-00322	Union, Polypropylene	10-21-00323	Union, Natural PEEK

Union (PEEK)

1/4-28 Peek Unions, Knurled with Wrench Flats

10-21-00341	Union, .010" Thru, PEEK	10-21-00342	Union, .020" Thru, PEEK
10-21-00343	Union, .050" Thru, PEEK		


Union (PEEK)

1/4-28 Tees for 1/16" OD Tubing

10-20-00286	Tee, .062" Thru, PEEK

OPTI-LOK LP 1/4-28 Plugs

10-21-01292	Plug, White Acetal	10-21-00326	Plug, Teflon® (PTFE)

Plug (white Acetal)

optilok™ | m6 metric nuts & ferrules

OPTI-LOK 6K PEEK Metric Fittings for 1/16" OD Tubing

10-22-00328	Nut, Knurled Head w/Hex, PEEK	10-20-00269	Double Tight Ferrule, PEEK
10-22-00329	Nut, Knurled Head w/Hex & Ferrules, 10/Pack		

Double Tight Ferrule (PEEK)

OPTI-LOK LP Metric Fittings for 1/16" OD Tubing

10-22-00297	Nut, White Acetal	10-22-00301	Ferrule, Short, Tefzel®
10-22-00303	Ferrule, PPS		

Nut (White Acetal)

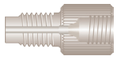
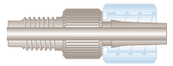
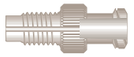
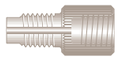
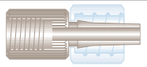
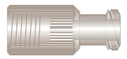
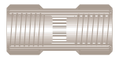
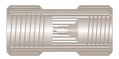
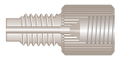
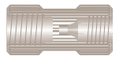
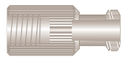
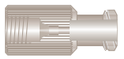
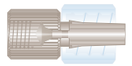
OPTI-LOK LP Metric Fittings for 1/8" OD Tubing

10-22-00314	Nut, White Acetal	10-22-00315	Nut, Black Acetal
10-22-00319	Ferrule, Short, Tefzel®		

Ferrule (PPS)

optilok™ adapters

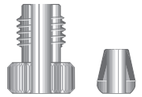
Opti-Lok™ Adapters offer maximum flexibility for making connections between your 1/4-28, M6 (Metric), Luer and 10-32 fittings and ports. They are available in a useful variety of thread-type combinations, all precision machined from PEEK.

	Part Number	Adapts from	Adapts to	Adapter
¼-28 TO 10-32	10-23-00350	1/4-28 Female	10-32 Parker Male	
¼-28 TO LUER	10-23-00352	1/4-28 Female	Luer Female	
	10-23-00353	1/4-28 Female	Luer Male	
¼-28 TO M6	10-23-00351	1/4-28 Female	M6 (Metric) Male	
¼-28 TO LUER	10-23-00347	1/4-28 male	Luer Female	
	10-23-00349	1/4-28 male	Luer Male	
¼-28 TO M6	10-23-00346	1/4-28 male	M6 Male, (with Web)	
¼-28 TO 10-32	10-23-00335	1/4-28 male	10-32 Parker Male	
M6 TO 10-32	10-23-00357	M6 (Metric) Female	10-32 Parker Male	
	10-23-00355	M6 (Metric) male	10-32 Parker Male	
M6 TO LUER	10-23-00363	M6 (Metric) male	Luer Male	
10-32 TO LUER	10-23-00358	10-32 Parker Male	Luer Male	
	10-23-00359	10-32 Parker Male	Luer female	

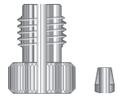
oem specific fittings

LDC-Style 5/16-24 Fittings

31-24-00735	1/8" Nut & Ferrule for Suction Tube, SS
31-24-00736	1/16" Nut & Ferrule for Discharge Tube, SS



1/8" Nut & Ferrule, For Suction Tube (SS)



1/16" Nut & Ferrule, For Discharge Tube (SS)

SSI-Style 1/4-28 Fittings for 1/16" OD Tubing

10-20-00330	6K Nut, PEEK
10-20-00331	6K Nut & Ferrules, PEEK, 10/Pack
10-20-00269	Double Tight Ferrule, PEEK

6K Nut (PEEK)

Double Tight Ferrule (PEEK)

Parker-Style 10-32 Fittings for 1/16" OD Tubing

40-24-01275	Nut, SS
40-24-01276	Nuts & Ferrules, SS, 10/Pack
40-24-01291	Ferrule, SS
40-24-01290	Ferrule, PEEK
40-24-01271	Union with Nuts & Ferrules, SS, .010" Thru
40-24-01273	Union with Nuts & Ferrules, SS, .020" Thru

Nut (SS)

Ferrule (PEEK)

Union (SS)

Ferrule (SS)

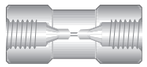
Genuine Valco 10-32 Fittings for 1/16" OD Tubing

41-24-01277	Nut, SS
41-24-01281	Nuts & Ferrules, SS, 10/Pack
41-24-01278	Nut, Long, SS
41-24-01279	Ferrule, SS
41-24-01283	Union with Nuts & Ferrules, SS, .010" Thru
41-24-01280	Union with Nuts & Ferrules, SS, .030" Thru
41-24-01282	Ferrule, PEEK

Nut (SS)

Nut, Long (SS)

Ferrule (SS)



Union (SS)

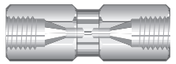
Ferrule (PEEK)

Waters-Style 10-32 Fittings for 1/16" OD Tubing

		OEM #
39-24-01090	Compression Screw, SS	WAT005070
39-24-01091	Compression Screws & Ferrules, SS, 10/Pack	WAT025604 (5/Pack)
39-24-01291	Ferrule, SS, single	WAT005063 (10/Pack)
39-24-01290	Ferrule, PEEK	WAT021817
39-24-01088	Union w/ Nuts & Ferrules, SS	WAT097332

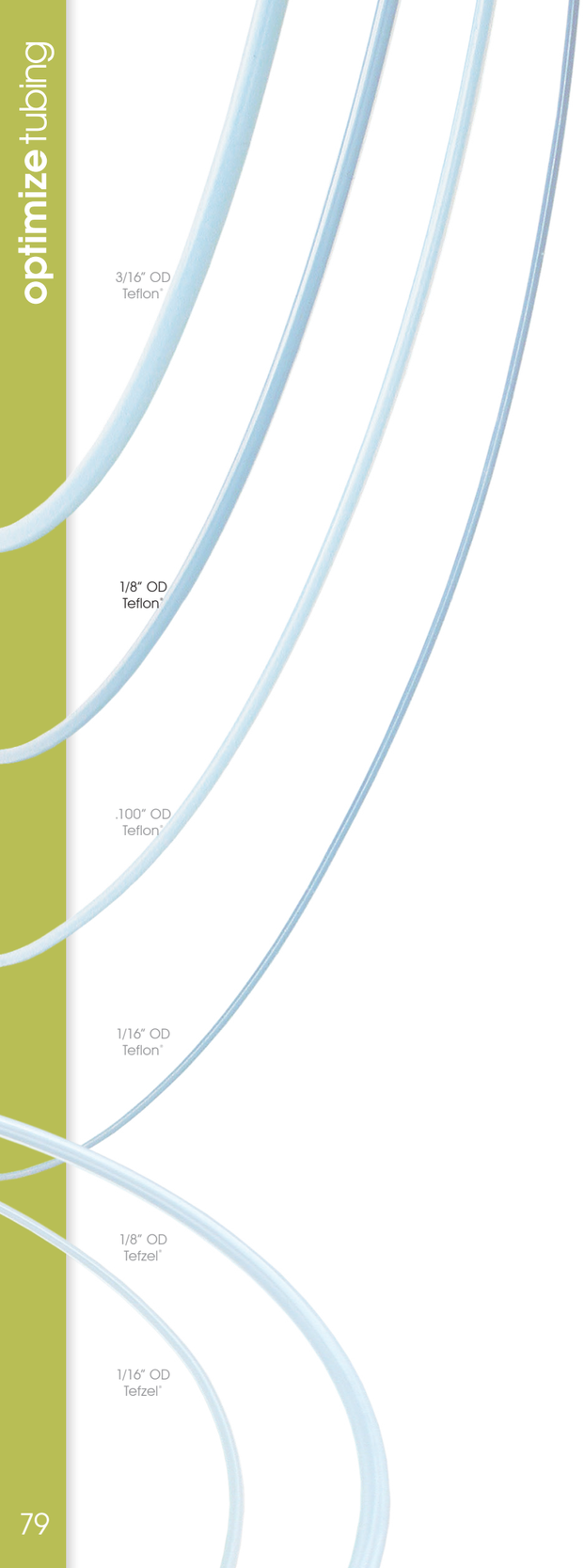
Ferrule (SS)

Compression Screw (SS)



Union (SS)

Ferrule (PEEK)



tubing

teflon® (ptfe) tubing

1/16" Outside Diameter Teflon® Tubing

10-15-00214	1/16" OD x .010" ID x 10 ft
10-15-00215	1/16" OD x .010" ID x 50 ft
10-15-00220	1/16" OD x .020" ID x 10 ft
10-15-00221	1/16" OD x .020" ID x 50 ft
10-15-00226	1/16" OD x .030" ID x 10 ft
10-15-00227	1/16" OD x .030" ID x 50 ft
10-15-00232	1/16" OD x .040" ID x 10 ft
10-15-00233	1/16" OD x .040" ID x 50 ft

.100" Outside Diameter Teflon® Tubing

10-15-00205	.100" OD x .040" ID x 10 ft
10-15-00206	.100" OD x .040" ID x 50 ft

1/8" Outside Diameter Teflon® Tubing

10-15-00238	1/8" OD x .062" ID x 10 ft
10-15-00240	1/8" OD x .062" ID x 50 ft

3/16" Outside Diameter Teflon® Tubing

10-15-00243	3/16" OD x .125" ID x 10 ft
10-15-00245	3/16" OD x .125" ID x 50 ft

tefzel® (etfe) tubing

1/16" Outside Diameter Tefzel® Tubing

10-14-00193	1/16" OD x .010" ID x 10 ft
10-14-00194	1/16" OD x .010" ID x 50 ft
10-14-00196	1/16" OD x .020" ID x 10 ft
10-14-00197	1/16" OD x .020" ID x 50 ft
10-14-00199	1/16" OD x .030" ID x 10 ft
10-14-00200	1/16" OD x .030" ID x 50 ft

1/8" Outside Diameter Tefzel® Tubing

10-14-00202	1/8" OD x .062" ID x 10 ft
10-14-00203	1/8" OD x .062" ID x 50 ft

tubing

optipeek® tubing

1/16" Outside Diameter PEEK Tubing

10-13-00168	1/16" OD x .006" ID x 10 ft
10-13-00170	1/16" OD x .006" ID x 50 ft
10-13-00175	1/16" OD x .010" ID x 10 ft
10-13-00177	1/16" OD x .010" ID x 50 ft
10-13-00183	1/16" OD x .020" ID x 10 ft
10-13-00186	1/16" OD x .020" ID x 50 ft
10-13-00187	1/16" OD x .030" ID x 10 ft
10-13-00191	1/16" OD x .030" ID x 50 ft
10-13-00179	1/16" OD x .040" ID x 10 ft
10-13-00181	1/16" OD x .040" ID x 50 ft

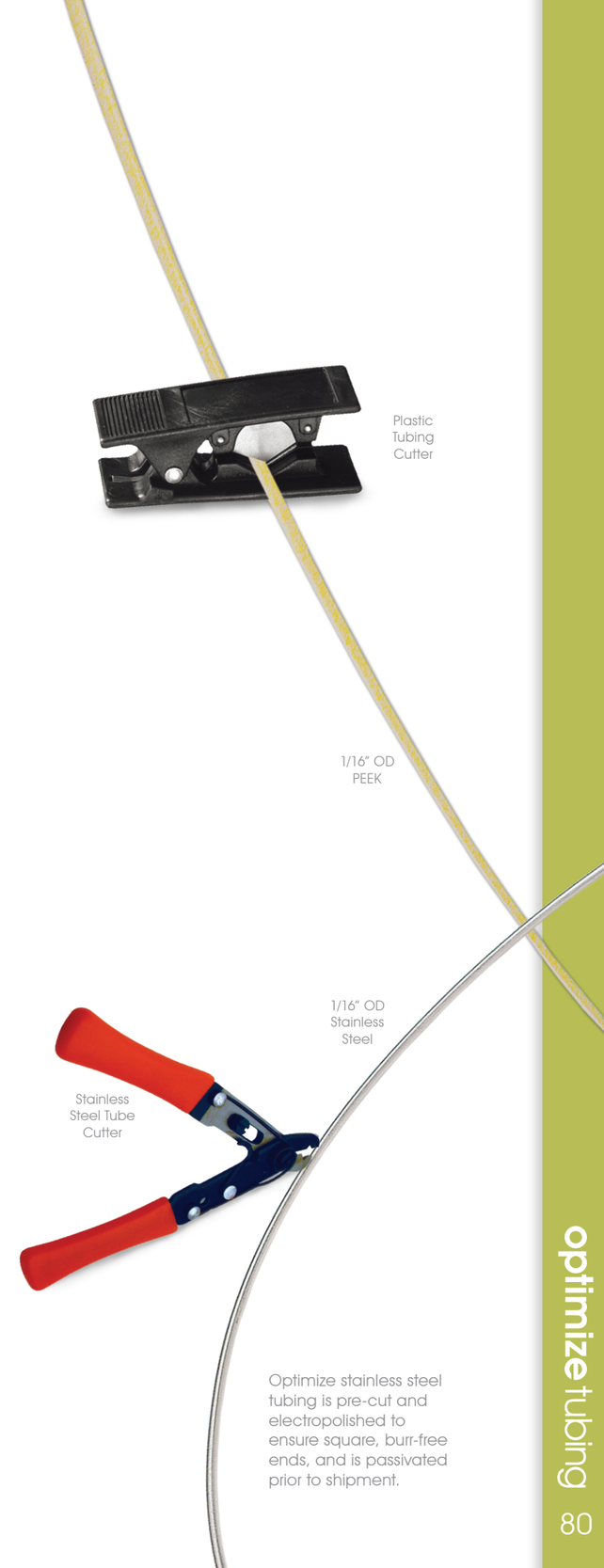
stainless steel pre-cut tubing

1/16" Outside Diameter Stainless Steel Tubing

10-12-00145	1/16" OD x .006" ID x 6 cm
10-12-00143	1/16" OD x .006" ID x 10 cm
10-12-00144	1/16" OD x .006" ID x 20 cm
10-12-00141	1/16" OD x .006" ID x 10 ft
10-12-00151	1/16" OD x .010" ID x 6 cm
10-12-00148	1/16" OD x .010" ID x 10 cm
10-12-00149	1/16" OD x .010" ID x 20 cm
10-12-00150	1/16" OD x .010" ID x 30 cm
10-12-00146	1/16" OD x .010" ID x 10 ft
10-12-00157	1/16" OD x .020" ID x 6 cm
10-12-00154	1/16" OD x .020" ID x 10 cm
10-12-00155	1/16" OD x .020" ID x 20 cm
10-12-00156	1/16" OD x .020" ID x 30 cm
10-12-00152	1/16" OD x .020" ID x 10 ft
10-12-00162	1/16" OD x .030" ID x 6 cm
10-12-00160	1/16" OD x .030" ID x 10 cm
10-12-00161	1/16" OD x .030" ID x 20 cm
10-12-00158	1/16" OD x .030" ID x 10 ft
10-12-00167	1/16" OD x .040" ID x 6 cm
10-12-00165	1/16" OD x .040" ID x 10 cm
10-12-00166	1/16" OD x .040" ID x 20 cm
10-12-00163	1/16" OD x .040" ID x 10 ft

tubing cutters

10-10-00139	Plastic Tubing Cutter
10-10-00140	Stainless Steel Tubing Cutter



Optimize stainless steel tubing is pre-cut and electropolished to ensure square, burr-free ends, and is passivated prior to shipment.