



No twist one-piece fittings

10-32 for 1/16" tubing

These new fittings offer the convenience of a one-piece fitting while solving a problem inherent to such designs. In other one-piece designs, the ferrule rotates against the fitting detail, creating particulates. The no twist design has a separate ferrule that snaps into the nut, so it's attached but still free to avoid rotation during tightening.

Since the ferrule is not machined onto the nut, it can be made from a different material. PEEK nut with PEEK ferrule, or PEEK nut with CTFE ferrule – the possibilities are endless.

Package of 5:	Glass-filled PEEK	PEEK	CTFE
	ferrule	ferrule	ferrule
Nut type Length	Prod No	Prod No	Prod No
PEEK, hex short	ZNF1PKG-5	ZNF1PK-5	ZNF1KF-5
PEEK, hex medium	MZNF1PKG-5	MZNF1PK-5	MZNF1KF-5
PEEK, hex long	LZNF1PKG-5	LZNF1PK-5	LZNF1KF-5
PEEK, fingertight	ZNF1FPKG-5	ZNF1FPK-5	ZNF1FKF-5

Optional ferrule materials available – FEP, PFA, PTFE, and glass-filled PTFE. Call for availability. Some 1/32" versions are available. Call for details.

Patent No. 7,316,777

Internal nuts – high pressure PEEK

PEEK nuts are used in Cheminert polymeric valves with zero dead volume fittings. They can also be used as alternatives to standard stainless steel Valco nuts when polymeric ferrules are used (up to approximately 175°C). Fingertight nuts have a knurled surface designed to provide sufficient sealing force on the ferrule without wrenches. Hex style nuts allow wrench tightening; however, since they are polymeric, they can break and are recommended for use only when space is limited and fingers won't fit.

Caution: PEEK nuts are intended for use only with polymeric ferrules, which seal with lower force than their stainless steel counterparts. Overtightening can result in breakage.

Package of 10:	Prod no	Length
1/32" fingertight 1/32" fingertight	ZN.5FPK-10 LZN.5FPK-10	.42" .54"
1/16" fingertight	ZN1FPK-10	.88"
1/16" hex 1/16" hex 1/16" hex	ZN1PK-10 MZN1PK-10 LZN1PK-10	.45" .62" .87"
1/8" hex	ZN2PK-10	.62"



Ferrules – high pressure PEEK

PEEK ferrules seal by the increased friction from compression.

Package of 10:	Prod No	Pkg of 10
1/32"	ZF.5PK-10	1/4"
1/16"	ZF1PK-10	3/8"
1/8"	ZF2PK-10	1/2"



Ferrules – grooved PEEK

These patented ferrules* feature a grooved design that permits the ferrule to grip the tube in multiple places. They work great on tubing that is softer than the ferrule material. For example, PEEK grooved ferrules work well on PTFE or FEP tubing. They are not generally recommended if the tubing is the same material as the ferrule.

Prod No

 Package of 10:
 1/32"
 ZGF.5PK-10

 1/16"
 ZGF1PK-10



MORE INFORMATION Tightening tool for

hex-head PEEK nuts..67

POLYMERS

AT A GLANCE		
PEEK PK		
Chemical resistance;		
up to 225℃		
100 μm = .004"		
150 μm = .006"		
0.25 mm = .010"		
0.50 mm = .020"		
0.75 mm = .030"		
1.0 mm = .040"		
1.5 mm = .060"		
2.0 mm = .080"		
4.6 mm = .180"		
6.0 mm = .236"		
6.4 mm = .253"		
7.0 mm = .275"		
10.0 mm = .400"		
27.0 mm = 1.08"		
1/32" = 0.8 mm		
1/16" = 1.6 mm		
1/8" = 3.2 mm		
1/4" = 6.4 mm		
3/8" = 9.5 mm		
1/2" = 12.7 mm		

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High Pressure PEEK Fittings

Plugs and caps - high pressure PEEK

Polymeric plugs and caps are available in knurled fingertight and wrench-tight hex nut designs, for use in valves or fittings. See discussion of PEEK nuts on page 63. PEEK caps include a PEEK nut and ferrule. For high pressure polymeric valve plugs, see below. For low pressure valve plugs, see page 71.

		PEEK plugs	PEEK caps
Description	Length	Prod No	Prod No
	of nut*		
1/32" fingertight	.42"	ZP.5FPK	ZC.5FPK
1/32" fingertight	.54"	LZP.5FPK	
1/16" fingertight	.87"	ZP1FPK	ZC1FPK
1/16" hex	.62"	MZP1PK	ZC1PK
1/16" long hex	.87"	LZP1PK	
1/8" hex	.62"	ZP2PK	ZC2PK





PEEK plugs for high pressure polymeric valves

These PEEK plugs are for use **only** in Cheminert HPLC polymeric valves (C1-C5 series) since the fitting detail in these valves is unique.

Description	Length	Prod No
	of nut*	
1/16" hex	.62"	C-MZP1PK
1/16" long hex	.87"	C-LZP1PK
1/16" fingertight	.88"	C-ZP1FPK



Tees and crosses – high pressure PEEK

Tees connect three lines. Crosses connect four lines. The 1/32" and 1/16" nuts are fingertight; 1/8" nuts are hex, for wrench tightening.

Tubing OD	Bore	PEEK tees Prod No	PEEK crosses Prod No
1/32"	0.25 mm	ZT.5FPK	ZX.5FPK
	0.50 mm	ZT.5LFPK	ZX.5LFPK
1/16"	0.25 mm	ZT1CFPK	ZX1CFPK
	0.50 mm	ZT1MFPK	ZX1MFPK
	0.75 mm	ZT1FPK	ZX1FPK
	1.00 mm	ZT1LFPK	ZX1LFPK
1/8"	0.75 mm	ZT2PK	ZX2PK
	2.00 mm	ZT2LPK	ZX2LPK



POLYMERS AT A GLANCE

PEEKPK

Chemical resistance;

up to 225°C

TECH TIP

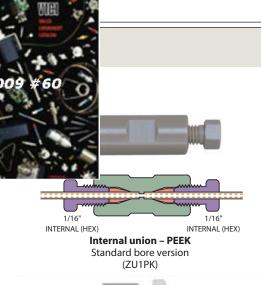
Ferrules for high pressure PEEK fittings are available in PEEK and PFA.

PEEK ferrules	page 63
PFA ferrules	13

0.25 mm	= .010"
0.50 mm	= .020"
0.75 mm	= .030"
1.0 mm	= .040"
1.5 mm	= .060"
2.0 mm	= .080"
4.6 mm	= .180"
6.0 mm	= .236"
6.4 mm	= .253"
7.0 mm	= .275"
10.0 mm	= .400"
27.0 mm	= 1.08"
	0.8 mm
1/16" =	1.6 mm
1/8" =	3.2 mm
1/4" =	6.4 mm
3/8" =	9.5 mm
1/2" =	12.7 mm

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High Pressure PEEK Fittings





Bulkhead fingertight internal union – PEEK (ZBU1FPK)

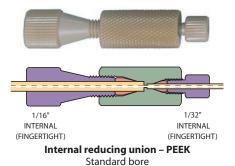


Bulkhead hex internal union – PEEK (ZBU1PK)

Internal unions - high pressure PEEK

The 1/32" nuts are fingertight; 1/16" nuts are available in a choice of fingertight or hex; and 1/8" nuts are hex, for wrench tightening.

Tubing OD	Bore	Standard <i>Prod No</i>	Bulkhead <i>Prod No</i>	Bulkhead panel hole diameter
1/32" fin	gertight			
	0.25 mm	ZU.5FPK	ZBU.5FPK	5/16"
	0.50 mm	ZU.5LFPK	ZBU.5LFPK	5/16"
	1/32"	ZU.5TFPK	ZBU.5TFPK	5/16"
1/16" fin	gertight			
	0.25 mm	ZU1CFPK	ZBU1CFPK	3/8"
	0.50 mm	ZU1MFPK	ZBU1MFPK	3/8"
	0.75 mm	ZU1FPK	ZBU1FPK	3/8"
	1/16"	ZU1TFPK	ZBU1TFPK	3/8"
1/16" he	x			
	0.25 mm	ZU1CPK	ZBU1CPK	3/8"
	0.50 mm	ZU1MPK	ZBU1MPK	3/8"
	0.75 mm	ZU1PK	ZBU1PK	3/8"
	1/16"	ZU1TPK	ZBU1TPK	3/8"
1/8" hex	0.75 mm	ZU2PK	ZBU2PK	7/16"
	2.0 mm	ZU2LPK	ZBU2LPK	7/16"
	1/8"	ZU2TPK	ZBU2TPK	7/16"







Internal reducing unions – high pressure PEEK

These unions connect two different sizes of tubing, with zero dead volume internal fittings on each end. In the bulkhead version, the bulkhead nut is on the side with smaller tubing. The 1/32" and 1/16" nuts are fingertight; 1/8" nuts are hex, for wrench tightening. A version with 1/16" and 1/8" hex nuts is also available.

Tubing OD	Bore	Standard <i>Prod No</i>	Bulkhead Prod No	Bulkhead panel hole diameter
1/16" to 1/32"	0.25 mm	ZRU1.5FPK	ZBRU1.5FPK	5/16"
	0.50 mm	ZRU1.5LFPK	ZBRU1.5LFPK	5/16"
	1/32"	ZRU1.5TFPK	ZBRU1.5TFPK	5/16"
1/8" to 1/32"	0.25 mm	ZRU2.5FPK	ZBRU2.5FPK	3/8"
	0.50 mm	ZRU2.5LFPK	ZBRU2.5LFPK	3/8"
	1/32"	ZRU2.5TFPK	ZBRU2.5TFPK	3/8"
1/8" to 1/16"	0.25 mm	ZRU21CFPK	ZBRU21CFPK	3/8"
	0.75 mm	ZRU21FPK	ZBRU21FPK	3/8"
	1.00 mm	ZRU21LFPK	ZBRU21LFPK	3/8"
	1/16"	ZRU21TFPK	ZBRU21TFPK	3/8"

High Pressure Specialty PEEK Fittings

One-piece fingertight fittings – color-coded PEEK

These molded fingertight fittings are rated to 5000 psi (350 bar), so they can be used in virtually any HPLC fitting detail with 10-32 threads. Six colors allow easy identification of tubing lines.

Package of 5:

Color	Prod No
Natural	JR-55020-5
Black	JR-55021-5
Red	JR-55022-5
Yellow	JR-55023-5
Blue	JR-55024-5
Green	JR-55025-5



One-piece PEEK fingertight fittings - narrow hex-head

This natural PEEK machined fitting has a narrow hex head and 10-32 threads.

Package of 5:

Color Prod No
Natural JR-5508-5



Color-It fingertight adapters

Use Color-It snap-on extensions to color-code our 1/4" hex-head nuts, and turn the nut into a fingertight fitting at the same time. Color-It adapters are available in six different colors, and can be used with PEEK and stainless hex-head nuts.

Package of 5:

 Color
 Prod No

 Blue
 JR-55010-5

 Yellow
 JR-55011-5

 Green
 JR-55012-5

 Black
 JR-55013-5

 White
 JR-55015-5

Package of 12:

Color Prod No

Multi-color JR-55016-12
(2 of each color)



MORE INFORMATION

Color-coded PEEK tubing . . . page 89

CAUTION

One-piece combination nuts and ferrules are not for high pressure gas service.

0.25 mm = .010" 0.50 mm = .020" 0.75 mm = .030" 1.0 mm = .040" 1.5 mm = .060" 2.0 mm = .080" 4.6 mm = .180" 6.0 mm = .236" 6.4 mm = .253" 7.0 mm = .275" 10.0 mm = .400" 27.0 mm = 1.08" $1/32" = 0.8 \, \text{mm}$ 1/16" = 1.6 mm1/8" = 3.2 mm 1/4" $= 6.4 \, \text{mm}$

= 9.5 mm

= 12.7 mm

3/8"

1/2"

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