

# FITTINGS



HIGH AND LOW PRESSURE



## HIGH PRESSURE POLYMERIC FITTINGS ..... page 24-35

High pressure polymeric fittings are useful in applications involving proteins, peptides, and other samples of biological origin where metal systems may interact with samples. Fittings made from PEEK-HT can also be used in UHPLC.



## ULTRA-HIGH PRESSURE STAINLESS FITTINGS ..... page 36-41

Our stainless steel fittings are typically compression fittings, in which a ferrule is compressed onto the tube as a nut is tightened. They offer the best reliability in high pressure situations.



## NANOVOLUME® HPLC FITTINGS .. page 42-45

With bore sizes of 100 and 150 microns, (.004"-.006"), the minimal transfer volume contributed by Nanovolume® components makes them especially beneficial in applications with flow rates in the µl/min range, when the transfer volume can be critical.



## LOW PRESSURE FITTINGS ..... page 46-55

Low pressure fittings are ideally suited for flow injection analysis, low pressure liquid chromatography, and stream sampling devices. They may be safely used at pressures up to 500 psi and temperatures to 50°C.

### ➔ MORE INFO

#### Tools for fittings

Ferrule removal kit	... 103
Tweezer	..... 103
ValvTool	..... 102
Wrench	..... 103

**SPECIFICATIONS**

For 1/4" hex-head nuts

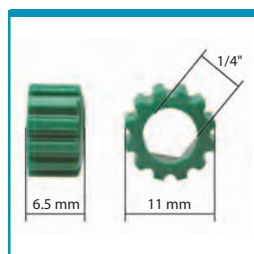
**MATERIAL**

Polypropylene

**COLOR-IT FINGERTIGHT ADAPTERS**

- For high and low pressure
- Fit all hex-head PEEK and SS fittings for 1/16" tubing
- Available in six colors for easy solvent line identification

Color-It snap-on fingertight adapters are used with our 1/4" PEEK and stainless hex-head nuts, converting them into color-coded fingertight fittings in an instant. Available in six colors.



Color	Qty/pkg	Product No.
Blue	5	JR-55010-5
Yellow	5	JR-55011-5
Green	5	JR-55012-5
Black	5	JR-55013-5
White	5	JR-55014-5
Red	5	JR-55015-5
Assorted	12 (2 each)	JR-55016-12

**SPECIFICATIONS**

For 1/4" hex-head nuts

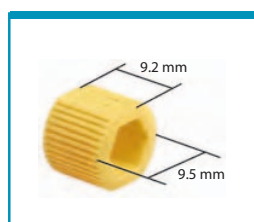
**MATERIAL**

Polypropylene

**COLOR-SLEEVE FINGERTIGHT ADAPTERS**

- For high and low pressure
- Designed for our PPS fittings for 1/16" tubing
- Available in twelve colors for easy solvent line identification

This adapter is useful for color coding different solvent lines, and turns VICI Jour PPS nuts into fingertight fittings in an instant.



Color		Qty/pkg	Product No.
	Natural	5	JR-55080-5
		10	JR-55080-10
	White	5	JR-55081-5
		10	JR-55081-10
	Dark grey	5	JR-55082-5
		10	JR-55082-10
	Black	5	JR-55083-5
		10	JR-55083-10
	Lavender	5	JR-55084-5
		10	JR-55084-10
	Red	5	JR-55085-5
		10	JR-55085-10
	Yellow	5	JR-55086-5
		10	JR-55086-10

Color		Qty/pkg	Product No.
	Orange	5	JR-55087-5
		10	JR-55087-10
	Brown	5	JR-55088-5
		10	JR-55088-10
	Green	5	JR-55089-5
		10	JR-55089-10
	Blue	5	JR-55090-5
		10	JR-55090-10
	Purple	5	JR-55091-5
		10	JR-55091-10
Assorted	All 12 colors	2 each	JR-5508X-24
	Blue, red, green, yellow, black, white	2 each	JR-5508X-12


**MORE INFO**

Hex head nuts

PEEK ..... 25, 27, 29

Stainless..... 37

PPS

High pressure... 25, 31

Low pressure ..... 47

# HIGH PRESSURE FITTINGS



**HPLC AND UHPLC, POLYMERIC**

Standard high pressure PEEK fittings are rated up to 350 bar (5000 psi) with fingertight nuts, well beyond the burst strength of most PEEK tubing. PEEK-HT™ fittings are rated at about 500 bar when finger-tightened; if they are tightened with a tool, 1,000 bar can be achieved. PEEK-HT also provides the benefit of longer life time; that is, the fittings can be tightened/loosened more often.

All our polymeric fittings for HPLC and UHPLC are manufactured from high quality inert polymers to exacting tolerances.

## HIGH PRESSURE POLYMERIC FITTINGS INDEX

### ONE-PIECE FITTINGS

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Over 5,000 psi	page 25
Up to 5,000 psi	25
PPS hex-head	25
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### PEEK ADAPTERS

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### ! DISCLAIMER

The maximum holding pressure for any type of connections involving tubing and a ferrule varies considerably with the tubing material, the ferrule material, the clearance between tubing OD and ferrule ID, and the shape of the fitting detail.

### ➔ SEE ALSO

ChromBox kit	105
HPLC parts kit with PEEK and stainless fittings and tubing	
Fingertight adapters	
Color-It	23
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PEEK starter kits	104
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**SPECIFICATIONS****TUBING OD / THREADS**

1/32" 6-40  
1/16" 10-32

**MATERIAL**

PEEK-HT

**PRESSURE RATING**

Fingertight, on  
stainless steel tubing:

1/32" 625 bar  
(9,000 psi)  
1/16" 700 bar  
(10,000 psi)

**PEEK one-piece hex-head fittings**

UHPLC

- Made of special PEEK-HT™ for better pressure resistance
- One-piece – no ferrule required
- Biocompatible
- Handy tightening tool included

These fittings are machined from special PEEK material to reach a higher pressure rating than standard PEEK fittings.

Includes a tightening tool (*page 103*) for easy installation.

	Tubing OD	Thread	Hex size	Length	Product No.
(Package/10)	1/32"	6-40	3/16"	12.0 mm	JR-5525N-10
	1/16"	10-32	1/4"	17.0 mm	JR-5520N-10

**SPECIFICATIONS****TUBING OD / THREADS**

1/16" 10-32

**MATERIAL**

PEEK

**TOLERANCE**

±0.05 mm (.002")

**PRESSURE RATING**

<350 bar (5000 psi)  
(Varies with tubing ID and material)

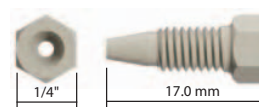
**PEEK one-piece hex-head fittings**

10-32

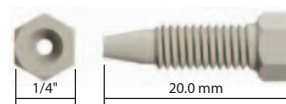
- Fingertight up to 350 bar (5000 psi)
- Excellent chemical and mechanical properties
- One-piece – no ferrule required
- Biocompatible
- For any 10-32 high pressure fitting

PEEK one-piece hex-head fittings are easy to use with the ValvTool or with the Color-It color-coded fingertight adapters. The 10-32 thread will fit virtually all standard high pressure female connections, and will withstand pressures of up to 350 bar (5000 psi). Available in short and long versions.

		Product No.
(Package/5)	Short	JR-55100-5
	Long	JR-55110-5



Short



Long

**SPECIFICATIONS****TUBING OD / THREADS**

1/16" 10-32

**MATERIAL**

Black PPS  
(Polyphenylene sulfide)

**TOLERANCE**

±0.05 mm (.002")

**PRESSURE RATING**

<350 bar (5000 psi)  
(Varies with tubing ID and material)

**PPS one-piece hex-head fittings**

10-32

- Economically-priced alternative to PEEK
- Excellent chemical and mechanical properties
- One-piece – no ferrule required
- Slim design – finger-tight with Color-Sleeve adapter

The VICI Jour PPS one-piece hex-head (fingertight with adapter) fitting offers excellent chemical and pressure resistance.

	Product No.
(Package/5)	JR-58000-5

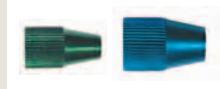
**MORE INFO**

About PEEK ..... 113  
About PPS ..... 113  
Chemical resistance .. 110

**SEE ALSO**

1/16" OD tubing  
for high pressure  
applications ..... 9-12  
PEEK starter kit ..... 104

1/32" and 1/16"  
tightening tools  
for PEEK fittings ..... 103



Color-Sleeve  
adapters for hex-head  
fittings ...  
page 23





## One-piece fittings • Fingertight



### HIGH PRESSURE FITTINGS • POLYMERIC

## PEEK and PVDF one-piece fingertight fittings – color-coded

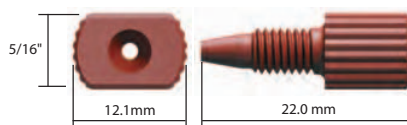
10-32

- PEEK: fingertight up to 350 bar (5000 psi)
- PVDF: fingertight to 180 bar (2600 psi)
- Excellent chemical and mechanical properties
- One-piece – no ferrule required
- Biocompatible

Our PEEK fingertight fittings are available in six colors, for easy identification of tubing lines. They are rated to 350 bar (5000 psi) and can be used in virtually any type of 10-32 thread HPLC fitting detail on the market. PVDF fittings are chemically inert, and suitable for medium pressure applications. They will not constrict soft polymeric tubing as PEEK fingertight fittings sometimes do. Packages of 5.

Material	Color	Product No.
(Pkg/5) PEEK	Natural	JR-55020-5
	Black	JR-55021-5
	Red	JR-55022-5
	Yellow	JR-55023-5
	Blue	JR-55024-5
	Green	JR-55025-5

Material	Color	Product No.
(Pkg/5) PVDF	Translucent white	JR-55020-PVDF-5 <b>NEW</b>



### SPECIFICATIONS

#### TUBING OD / THREADS

1/16" 10-32

#### MATERIAL

PEEK

#### TOLERANCE

±0.05 mm (.002")

#### PRESSURE RATING

Material bar psi  
PEEK <350 5000  
PVDF <180 2600  
(Varies with tubing ID and material)

## PEEK one-piece fingertight fittings

10-32

- Two new fittings are made of reinforced glass fiber (GF) PEEK.
  - Fingertight up to 350 bar (5000 psi)
  - One-piece – no ferrule required
  - Biocompatible
- Sold in packages of 5.

(Package/5)	Standard	Natural PEEK	12.0 mm	22.0 mm	Product No. JR-5502-5
	Short	Natural PEEK	12.0 mm	17.1 mm	JR-5504-5
	Long	Natural PEEK	12.0 mm	25.1 mm	JR-5507-5
	Narrow hex-head/fingertight	Natural PEEK	1/4"	28.1 mm	JR-5508-5
	Standard	Reinforced GF PEEK	9.15 mm	20.8 mm	JR-5513-5 <b>NEW</b>
	Narrow hexhead/fingertight	Reinforced GF PEEK	1/4"	28.1 mm	JR-5518-5 <b>NEW</b>

### SPECIFICATIONS

#### TUBING OD / THREADS

1/16" 10-32

#### MATERIAL

PEEK

#### TOLERANCE

±0.05 mm (.002")

#### PRESSURE RATING

<350 bar (5000 psi)  
(Varies with tubing ID and material)

### TECH TIP

Coloration pigments are carefully chosen so as to contain no heavy metals or hazardous chemicals.

### TECH TIP

Color-It fingertight adapters may be used with 1/4" hex-head fittings, such as JR-5518, converting them into color-coded fingertight fittings..... page 23

### MORE INFO

About PEEK .....113  
About PVDF .....113  
Chemical resistance ..110

**SPECIFICATIONS****TUBING OD / THREADS**

1/16" 10-32

**MATERIAL**

PEEK-HT

**TOLERANCE**

±0.05 mm (.002")

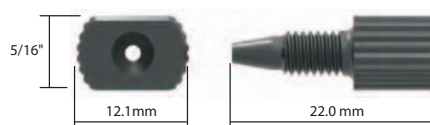
**PRESSURE RATING**

Tightening	bar	psi
Fingertight	<500	7250
With tool	<1000	14500

(Varies with tubing ID and material)

**PEEK-HT™ one-piece fittings** **NEW****10-32**

When used as fingertight fittings, our PEEK-HT fittings hold pressures up to 500 bars (7250 psi). Pressures up to 1000 bars (14,500 psi) can be accomplished with a tightening tool.



For tightening tool, use either a ValvTool (JR-800, page 102) or an open end wrench (JR-804, page 103.)

Sold in packages of 5.

Product No.	
(Package/5)	JR-55031-5

**SPECIFICATIONS****TUBING OD / THREADS**

1/16" 10-32

**MATERIAL**

Nut: PEEK

Ferrule: PEEK

**PRESSURE RATING**

<350 bar (5000 psi)  
(Varies with tubing ID and material)

**OPTIONS****OPTIONAL FERRULE MATERIALS**

FEP, PFA, glass-filled PEEK, PCTFE, glass-filled PTFE, and PTFE.

Contact us for availability.

Some 1/32" versions are available. Call for details.

**PEEK no-twist "one-piece" fittings****10-32**

- Snap-in ferrule rotates freely
- Choice of ferrule materials
- Choice of fitting lengths

No-twist 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. We offer several PEEK nuts, with ferrules of PEEK or one of the optional materials listed at left.

Sold in packages of 5.



Tubing OD		PEEK ferrule	
(Package/5)	1/16"		Product No.
		Fingertight	JR-ZNF1FPK-5
		Hex, short	JR-ZNF1PK-5
		Hex, medium	JR-MZNF1PK-5
		Hex, long	JR-LZNF1PK-5
		Replacement ferrules	JR-ZNF1PK-F-5

**SEE ALSO**

1/16" OD tubing for high pressure applications . . . page 9-12  
PEEK starter kit . . . . . 104  
ValvTool for tightening hex-head fittings . . . 102  
Color-It fingertight adapters . . . . . 23





HIGH PRESSURE FITTINGS • POLYMERIC

PEEK ferrules

UHPLC

- Biocompatible 1/16" ferrule for ultra-high pressures
- Alternative to titanium ferrules in applications with titanium valves
- Excellent in combination with stainless nuts (*see page 37*)

	Product No.
(Package/5)	JR-5010N-5



SPECIFICATIONS

TUBING OD / THREADS

1/16" 10-32

MATERIAL

PEEK

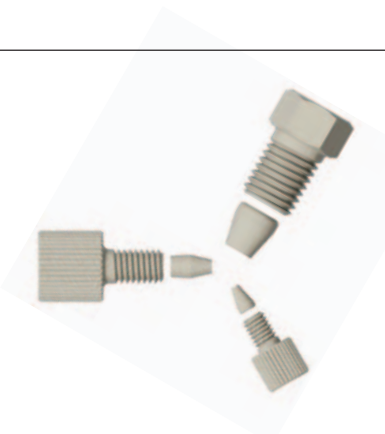
PRESSURE RATING

On SS tubing with SS nut:  
650 bar (9400 psi)

PEEK nuts with single ferrules

- Reuseable nut, replaceable ferrule
- For 1/32", 1/16", and 1/8" tubing
- Suitable for pressures to 280 bar (4000 psi)

Fingertight nuts have a knurled surface designed to allow sufficient sealing force to be applied to 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 your fingers will not fit.






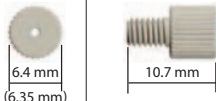
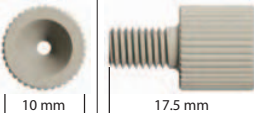
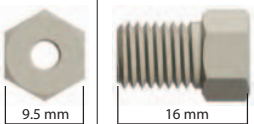
SPECIFICATIONS

MATERIAL

PEEK

PRESSURE RATING

<280 bar (4000 psi)  
(Varies with tubing ID and material)

		Tubing OD Thread		Product No.	
(Pkg/5)	Single ferrules		1/32"		JR-ZF.5PK-5
			1/16"		JR-5003-5
			1/8"		JR-ZF2PK-5
	Nuts	Fingertight	1/32" 6-40		JR-ZN.5FPK-5
		Fingertight	1/16" 10-32		JR-5570-5
		Hex-head	1/8" 5/16-24		JR-ZN2PK-5

➔ MORE INFO

About PEEK .....113  
Chemical resistance ..110

➔ SEE ALSO

1/16" OD tubing  
for high pressure  
applications .....9-12  
PEEK starter kit .....104  
PEEK tubing .....9-12  
Stainless steel nuts ....37  
ValvTool for tightening  
hex-head fittings ...102  
Color-It fingertight  
adapters.....23





SPECIFICATIONS

TUBING OD / THREADS

1/16" 10-32

MATERIAL

PEEK

PRESSURE RATING

<420 bar (6000 psi)  
(Varies with tubing ID and material)



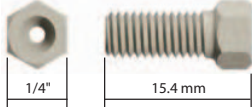
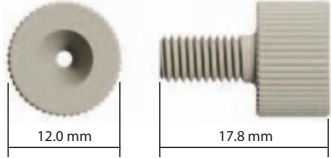
PEEK nuts with double ferrules

10-32

- High pressure rating - up to 420 bar (6000 psi)
- Ideal for 1/16" PEEK tubing
- Fit any 10-32 fitting

These nuts are for use with VICI Jour double ferrules, which grip the tubing twice for added stability. The fingertight version may be hand-tightened for operation at up to 420 bar (6000 psi). The hex-head version can be used for connections that are difficult to reach, or are closely spaced. The fittings work in virtually any female 1/16" fitting.



		Tubing OD			Product No.	
(Package/5)	Double ferrule	1/16"				JR-5004-5
	Nuts	1/16"	Hex-head	Short	 1/4" 11.4 mm	JR-5511-5
				Long	 1/4" 15.4 mm	JR-5510-5
			Fingertight		 12.0 mm 17.8 mm	R-5580-5





HIGH PRESSURE FITTINGS • POLYMERIC

Nut, ferrule, and bushing

1/4-28

- High pressure rating – up to 490 bar (7000 psi) with 1/16" tubing
- For 1/4-28 connections
- Available for 1/32" and 1/16" tubing

This combination of PPS nut, PEEK ferrule, and stainless steel bushing allows a high pressure connection in a 1/4-28 flat-bottomed fitting detail.

Sold in packages of 10.

Order nuts and bushing/ferrules separately.



SPECIFICATIONS

TUBING OD / THREADS

1/32" 1/4-28  
1/16" 1/4-28


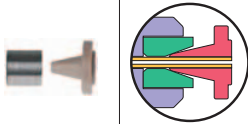
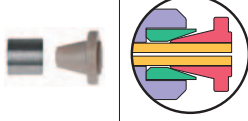
MATERIALS

Nut PPS  
Ferrule PEEK  
Bushing SS

PRESSURE RATING

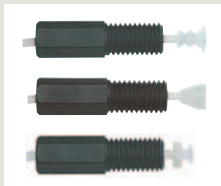
OD	bar	psi
1/32"	175	2500
1/16"	490	7000

(Varies with tubing ID and material)

		Tubing OD		Product No.	
(Package/10)	PPS hex-head nut	1/32" or 1/16"		JR-55050-10	
	Bushing and ferrule	1/32"		JR-FPKBSS.5-10	
		1/16"		JR-FPKBSS1-10	

➔ LOW PRESSURE  
1/4-28 NUTS  
AND FERRULES

1/4-28 PPS hex-head nuts are available with three different sealing designs for flangeless and flanged fittings ..... 47



t TECH TIP

To make up high pressure connection with nut, ferrule, and bushing, first slide the nut on the tubing, then the bushing, and then the PEEK ferrule as shown in the product photo.

**SPECIFICATIONS****MATERIAL**

PEEK

**PRESSURE RATING**


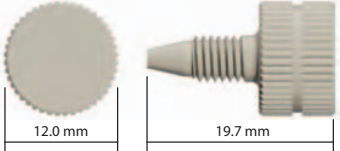

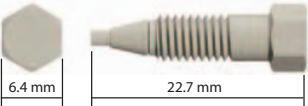

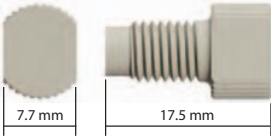
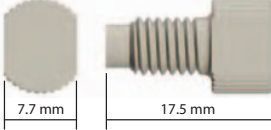
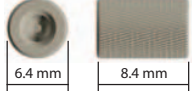
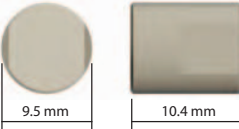
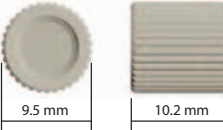
&lt;350 bar (5000 psi)

(Varies with tubing material)

**PEEK plugs and caps**

- For plugging ports and capping solvent lines
- Available in all common thread sizes

Sold individually.

	Threads		Product No.
Plugs	6-40	 6.4 mm 15.5 mm	JR-ZP.5FPK
	10-32	 12.0 mm 19.7 mm	JR-408
		 9.5 mm 22.2 mm	JR-ZP1FPK
		 6.4 mm 22.7 mm	JR-MZP1PK
		 6.4 mm 29.0 mm	JR-LZP1PK
	1/4-28	 7.7 mm 17.5 mm	JR-409
	M6	 7.7 mm 17.5 mm	JR-410
Caps	6-40	 6.4 mm 8.4 mm	JR-ZC.5FPK
	10-32	 9.5 mm 10.4 mm	JR-ZC1PK
	1/4-28	 9.5 mm 10.2 mm	JR-CCPK-1

## Unions • Bulkhead unions



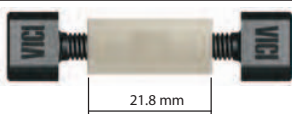
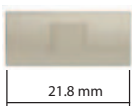

### HIGH PRESSURE FITTINGS • POLYMERIC

## PEEK unions

10-32

- Easy connection of transfer/solvent lines
- Low dead volume
- Completely inert and biocompatible

VICI Jour PEEK unions are usable with most common organic and inorganic HPLC solvents without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel. Small diameter bores are used to ensure low dead volume connections. These unions have the standardized Valco fitting details with smooth transition of the taper into the threaded part. Connections to these PEEK unions can be made with any 10-32 fitting that uses polymeric ferrules. PEEK unions are available in body-only versions as well as complete with our PEEK one-piece fingertight fittings ready to connect to any 1/16" OD tubing.

		Bore (mm)		Qty/pkg	Product No.
Union with fittings	0.25		1	JR-1061	
	0.50		1	JR-1066	
	0.75		1	JR-1067	
Body only	0.25		1	JR-061	
	0.50		1	JR-066	
	0.75		1	JR-067	
Replacement fittings					
PEEK 1/16" one-piece fingertight fittings, 10-32, black				5	JR-55021-5

### SPECIFICATIONS

#### TUBING OD

1/16"

#### MATERIAL

PEEK

#### PRESSURE RATING

<350 bar (5000 psi)

(Varies with tubing ID and material)

## PEEK bulkhead unions

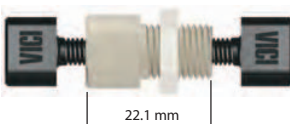

10-32

- Designed for panel mounting
- Easy connection of transfer/solvent lines
- Low dead volume
- Completely inert and biocompatible

Bulkhead unions are designed to be mounted through an instrument panel or on a bracket. Typically the mounting nut goes inside the instrument, so that the long threaded portion will be out of sight.

Bulkhead unions require a minimum 10 mm panel hole, 9 mm maximum thickness.

Includes fittings.

	Bore (mm)		Qty/pkg	Product No.
Bulkhead union with fittings	0.25		1	JR-ZBU1CFPK
	0.50		1	JR-ZBU1MFPK
	0.75		1	JR-ZBU1FPK
Replacement fittings				
PEEK 1/16" one-piece fingertight fittings, 10-32, black			5	JR-55021-5
JAM-Nut replacement mounting nut for bulkhead fittings			1	JR-CBN

### SPECIFICATIONS

#### TUBING OD / THREADS

1/16" 10-32

#### MATERIAL

PEEK

#### PRESSURE RATING

<350 bar (5000 psi)

(Varies with tubing ID and material)

### SEE ALSO

Low pressure PEEK  
1/4-28 unions. .... 50  
PEEK one-piece  
fingertight fittings 25-27

**SPECIFICATIONS****TUBING OD / THREADS**

1/32" 6-40

1/16" 10-32

1/8" 5/16-24

**MATERIAL**

PEEK

**PRESSURE RATING**

&lt;350 bar (5000 psi)

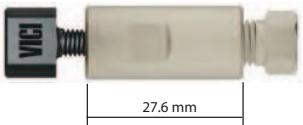






(Varies with tubing ID and material)

**PEEK reducing unions**

- Connects 1/16" to 1/32" tubing, or 1/8" to 1/16" tubing
- Easy connection of transfer/solvent lines
- Completely inert and biocompatible

VICI Jour PEEK reducing unions are usable with most common organic and inorganic HPLC solvents without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel. These reducing unions have the standardized Valco fitting details with smooth transition of the taper into the threaded part.

Includes fittings.

Tubing OD	Bore (mm)		Qty/pkg	Product No.
1/16" to 1/32"	0.25		1	JR-ZRU1.5FPK
1/8" to 1/16"	0.75		1	JR-ZRU21FPK
<b>PEEK replacement fittings</b>				
<b>For 1/16" to 1/32" reducing unions</b>				
1/16"	One-piece fitting, black		5	JR-55021-5
1/32"	Fingertight nut		1	JR-ZN.5FPK
1/32"	Ferrule		1	JR-ZF.5PK
<b>For 1/8" to 1/16" reducing unions</b>				
1/8"	Hex-head PEEK nut		5	JR-ZN2PK-5
1/8"	PEEK ferrule		5	JR-ZF2PK-5
1/16"	One-piece fitting, black		5	JR-55021-5

**SEE ALSO**

Low pressure PEEK  
1/4-28 reducing  
unions ..... 51



## PEEK tees and crosses






10-32

- Easy connection of transfer/solvent lines
- Low dead volume
- Completely inert and biocompatible

The 100% PEEK flowpath makes VICI Jour PEEK tees and crosses usable with most common organic and inorganic HPLC solvents without the risk of corrosion, metal contamination, or protein degradation that might occur with stainless steel.

Small diameter through-holes are used to ensure low dead volume connections. These unions have the standardized Valco fitting details with smooth transition of the taper into the threaded part. Connections to these PEEK tees and crosses can be made with any 10-32 fitting that uses polymeric ferrules.

PEEK tees and crosses are available in body-only versions as well as complete with our PEEK one-piece fingertight fittings ready to connect to any 1/16" OD tubing.

	Bore (mm)	Qty/pkg	With fittings Product No.	Body only Product No.	
	0.25	1	JR-1030	JR-2030	
	0.50	1	JR-1032	JR-2032	
	0.75	1	JR-1033	JR-2033	
	0.25	1	JR-1040	JR-2040	
	0.50	1	JR-1042	JR-2042	
	0.75	1	JR-1043	JR-2043	
Replacement fittings					
PEEK 1/16" one-piece fingertight fittings, 10-32, black		5	JR-55021-5		

## SPECIFICATIONS

## TUBING OD / THREADS

1/16" 10-32

## MATERIAL

PEEK

## BODY SIZE

25.0 mm OD  
12.0 mm thick

## PRESSURE RATING

<350 bar (5000 psi)  
(Varies with tubing ID and material)

## t TECH TIP

Use our color-coded one-piece fingertight fittings for easy solvent line identification. .... 26



## ➔ MORE INFO

About PEEK ..... 113  
Chemical resistance .. 110

## ➔ SEE ALSO

Low pressure 1/4-28  
tees and crosses ..... 52  
Low pressure 1/4-28  
mixing tees..... 53

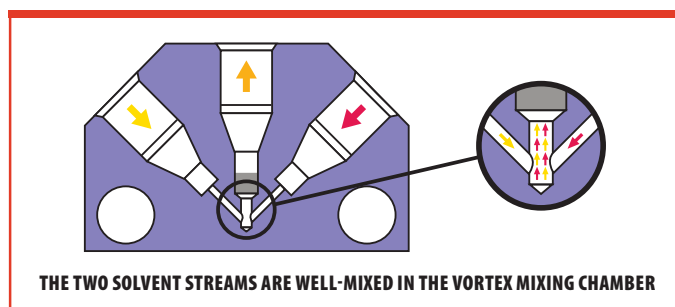
## Biocompatible mixing tee

10-32

- High pressure gradient mixing
- Completely biocompatible
- Post column reactions
- Built-in protein-friendly titanium filter, 10 µm

A unique, more thorough mixing results from the turbulence generated by the introduction angle of the solvents as well as by the flow through our titanium filter element. The biocompatible tee can be used for high pressure gradient mixing as well as for post column reactions.

	Product No.
Mixing tee with fittings	JR-9000-0670



## SPECIFICATIONS

## TUBING OD / THREADS

1/16" 10-32

## MATERIAL

PEEK

## PRESSURE RATING

<350 bar (5000 psi)  
(Varies with tubing ID and material)



**SPECIFICATIONS****MATERIAL**

PEEK

**BORE**

0.40 mm

**PRESSURE RATING**

M6 &lt;70 bar (1000 psi)

1/4-28 &lt;70 bar (1000 psi)

Luer &lt;35 bar (500 psi)

(Varies with tubing ID and material)

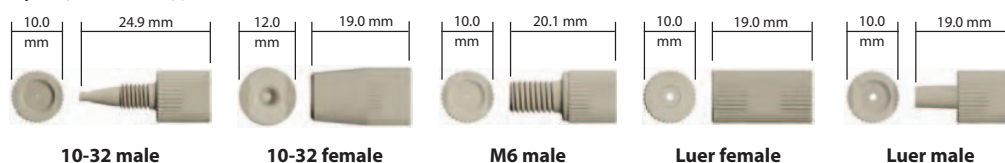
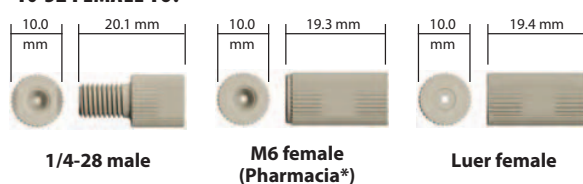
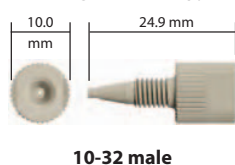
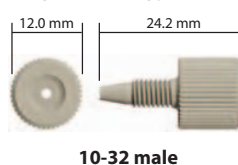
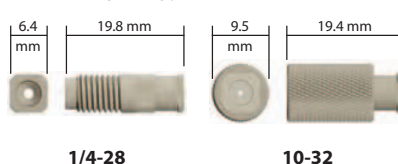
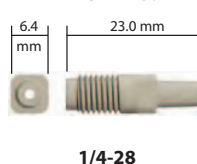
**PEEK adapters**

- Connect various combinations of thread types, male and female
- Includes male and female Luer adapters
- Low dead volume
- For any 10-32 high pressure fitting

We offer male and female Luer adapters as well as adapters to connect standard LC fittings to standard LC ports. The 100% PEEK flowpath makes VICI Jour PEEK adapters usable with most common organic and inorganic HPLC solvents without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel.

Sold individually.

Description	Product No.	Description	Product No.
1/4-28 female to	10-32 male	10-32 male to	1.3 mm barbed
	10-32 female		JR-0691 <b>NEW</b>
	M6 male	Waters female to	10-32 male
	Luer female		JR-0611
	Luer male	M6 female to	10-32 male
10-32 female to	1/4-28 male		JR-5505
	M6 female (Pharmacia*)	Female Luer to	1/4-28
			JR-CFLAPK
	Luer female		10-32
			JR-ZUFLPK
		Male Luer to	1/4-28
			JR-CMLAPK

**1/4-28 FEMALE TO:****10-32 FEMALE TO:****10-32 MALE TO:****WATERS FEMALE TO:****M6 FEMALE TO:****FEMALE LUER TO:****MALE LUER TO:**

\* Pharmacia is a division of GE Healthcare.

# ULTRA-HIGH PRESSURE FITTINGS



STAINLESS STEEL

Our stainless steel fittings are typically compression fittings, in which a ferrule is compressed onto the tube as a nut is tightened. They offer the best reliability in high and ultra-high pressure situations.

## ULTRA-HIGH PRESSURE STAINLESS FITTINGS INDEX

### NUTS

Valco nuts .....page 37

Valco nuts are available for 1/32", 1/16", and 1/8" tubing, in several lengths.

Rheodyne® compatible nuts ..... 37

These nuts are sized for 1/16" tubing, and come in three lengths.

### FERRULES

Valco ..... 38

Rheodyne compatible..... 38

### PLUGS AND CAPS

Plugs ..... 38

Caps..... 39

### TEES AND CROSSES

Tees ..... 39

Crosses ..... 39

### UNIONS AND REDUCING UNIONS

Unions..... 40

Reducing unions

Imperial ..... 40

Imperial to metric ..... 41

### ! DISCLAIMER

The maximum holding pressure for any type of connections involving tubing and a ferrule varies considerably with the tubing material, the ferrule material, the clearance between tubing OD and ferrule ID, and the shape of the fitting detail.

### ➔ MORE INFO

ChromBox kit..... 105

HPLC parts kit with PEEK and stainless fittings and tubing

Fingertight adapters

Color-It ..... 23

Color-Sleeve..... 23

Nanovolume® high pressure fittings . .42-45

Stainless starter kits ..104

Tools for fittings . 102-103



UHPLC

**SPECIFICATIONS****TUBING OD / THREADS**

1/32" 6-40

1/16" 10-32

1/8" 5/16-24

**MATERIAL**

Type 303 SS

**PRESSURE RATING**

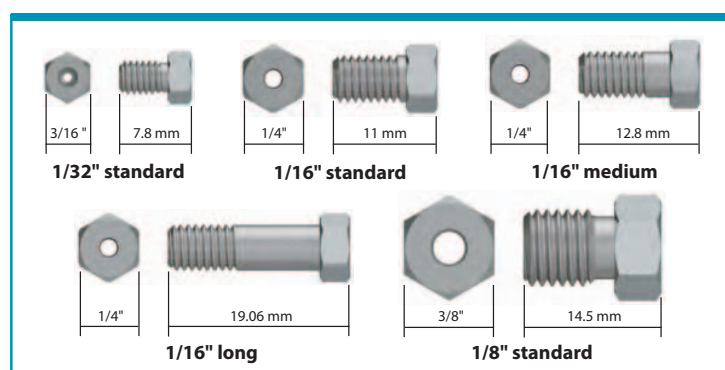
With premium SS tubing  
and ZF156 ferrule:  
1375 bar (20,000 psi)

**Valco® stainless nuts**

- Excellent fit to Valco fitting details
- Different lengths available
- For 1/32", 1/16", and 1/8" OD tubing

These nuts are for use with all standard Valco internal fittings and most valves. They may be used with fittings from other manufacturers as well. The medium and long types are ideal for metal Valco and Cheminert valves with more than 8 ports, or where the fitting head may be otherwise inaccessible.

	Tubing OD	Length	Product No.
(Package/5)	1/32"	Standard	JR-ZN.5-5
	1/16"	Standard	JR-ZN1-5
		Medium	JR-MZN1-5
		Long	JR-LZN1-5
	1/8"	Standard	JR-ZN2-5

**Rheodyne® compatible stainless nuts**

UHPLC

**SPECIFICATIONS****TUBING OD / THREADS**

1/16" 10-32

**MATERIAL**

Type 316 SS

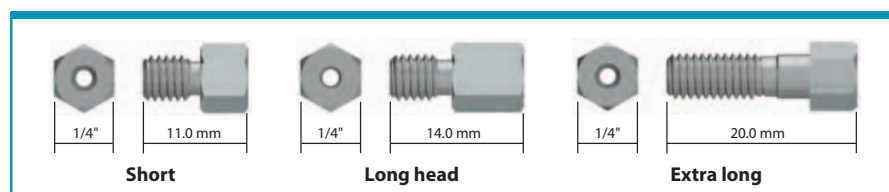
**PRESSURE RATING**

<500 bar (7,250 psi)  
(Varies with tubing ID and  
material)

- Excellent fit to Rheodyne fitting details
- Different lengths available
- For 1/16" OD tubing

These nuts are for use with metal Rheodyne valves. Three different length nuts are available, in order to accommodate any possible connecting situation. The standard nut is suitable for easily accessible connections (couplers, detectors, columns, etc.) For very tight and difficult to reach areas, we recommend the long and extra long nut.

	Tubing OD	Length	Product No.
(Package/5)	1/16"	Short	JR-56-5
		Long head	JR-57-5
		Extra long	JR-58-5

**TECH TIP**

Using nuts with different lengths will create more space, for better wrench access.

**MORE INFO**

About stainless steel . . 114

**SEE ALSO**

Ferrules

Rheodyne . . . . . 38

Valco . . . . . 38

Stainless steel

starter kit . . . . . 104

Stainless tubing . . 19-21

ValvTool

for tightening  
hex-head fittings . 102

Color-It fingertight

adapters . . . . . 23

## Ferrules • Plugs






### ULTRA-HIGH PRESSURE FITTINGS • STAINLESS STEEL

#### Valco® stainless ferrules

UHPLC

- Excellent fit to Valco fitting details
- For 1/32", 1/16", and 1/8" OD tubing

These ferrules are for use with all standard Valco internal fittings and most valves, and with those of most other manufacturers as well. Valco metal ferrules cut a ring near the end of the tube, preventing tube release at high pressures without significantly deforming and restricting the tube interior. (However, if the hardness of the tubing is equal to or greater than that of the ferrule, deformation of the tube rather than a cut ring is likely.)

	Tubing OD		Product No.
(Package/5)	1/32"		JR-ZF5S6-5
	1/16"		JR-ZF1S6-5
	1/8"		JR-ZF2S6-5

#### SPECIFICATIONS

##### TUBING OD

For 1/32", 1/16", and 1/8" OD tubing

##### MATERIAL



Type 316 SS

##### PRESSURE RATING

1375 bar (20,000 psi)  
(Varies with tubing ID and material)

#### Rheodyne® compatible stainless ferrules

- Excellent fit to Rheodyne fitting details
- For 1/16" OD tubing
- For use with metal Rheodyne valves.

	Tubing OD		Product No.
(Package/5)	1/16"	Standard ferrule	 JR-59-5
		2-step Rheodyne-type ferrule	 JR-60-5

#### SPECIFICATIONS

##### TUBING OD

For 1/16" OD tubing

##### MATERIAL

Type 316 SS

##### PRESSURE RATING

<500 bar (7,250 psi)  
(Varies with tubing ID and material)

#### Stainless steel plugs

UHPLC

Use a plug to close off an unused port in a valve, manifold, or HPLC column. The standard stainless plug consists of a zero volume nut with a ferrule made up on a piece of solid rod.

	Tubing OD	Product No.
(Sold individually)	1/32"	JR-ZP.5
	1/16"	JR-ZP1
	1/8"	JR-ZP2

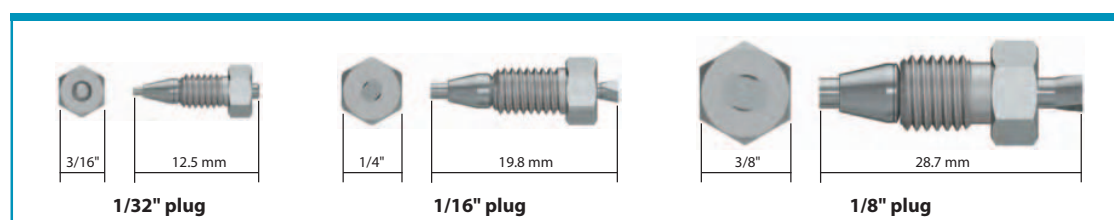
#### SPECIFICATIONS

##### TUBING OD / THREADS

1/32" 6-40  
1/16" 10-32  
1/8" 5/16-24

##### MATERIAL

1/32" Type 303 SS  
1/16" Type 316 SS  
1/8" Type 303 SS



#### SEE ALSO

UHPLC PEEK ferrules . . . 28  
Open end wrench . . . 103  
Stainless steel  
starter kit . . . . . 104  
ValvTool for tightening  
hex-head fittings . . . 102



## SPECIFICATIONS

## TUBING OD / THREADS

1/32"	6-40
1/16"	10-32
1/8"	5/16-24

## MATERIAL

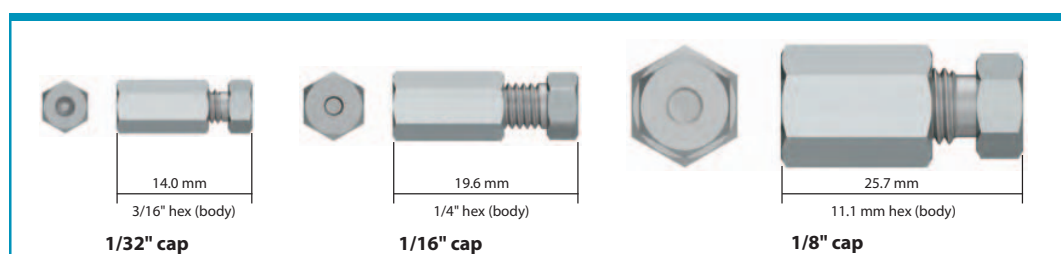
Type 303 SS

## Stainless steel caps

UHPLC

Use a cap to close off a tube with a ferrule and internal nut already made up. A cap is essentially a piece of hex stock with a zero volume fitting detail machined into it, but with no through-hole.

	Tubing OD	Product No.
(Sold individually)	1/32"	JR-ZC.5
	1/16"	JR-ZC1
	1/8"	JR-ZC2



## SPECIFICATIONS

## TUBING OD

For 1/16" OD tubing

## BODY DIMENSIONS

23.4 mm OD x 12.7 mm thick

## MATERIAL

Body Type 316 SS

Nuts Type 303 SS

Ferrules Type 316 SS

## PRESSURE RATING

1375 bar (20,000 psi)

(Varies with tubing ID and material)

## TEES AND CROSSES

- Easy connection of solvent lines
- Low dead volume
- For 1/16" OD tubing

VICI stainless steel tees and crosses are for joining solvent lines. They are precision machined with a focus on the concentricity of the bore as well as on the finish of the surfaces to create leak-free connections.

These tees and crosses have internal threads, which we recommend for most applications. Internal threads make stronger connections and internal fitting details provide the lowest dead volume for high performance instrumentation.

## Stainless tees

UHPLC

VICI stainless steel tees join three 1/16" solvent lines.

Three nuts and ferrules are included with each tee.

	Bore (mm)	Qty/pkg	Product No.
1/16" tee	0.25	1	JR-ZT1C
	0.50	1	JR-ZT1M
	0.75	1	JR-ZT1
Replacement nut		5	JR-ZN1-5
Replacement ferrule		5	JR-ZF1S6-5



## Stainless crosses

UHPLC

VICI stainless steel crosses join four 1/16" solvent lines.

Four nuts and ferrules are included with each tee.

	Bore (mm)	Qty/pkg	Product No.
1/16" cross	0.25	1	JR-ZX1C
	0.50	1	JR-ZX1M
	0.75	1	JR-ZX1
Replacement nut		5	JR-ZN1-5
Replacement ferrule		5	JR-ZF1S6-5







## UNIONS AND REDUCING UNIONS

- Easy connection of solvent lines
- Low dead volume

VICI stainless steel unions and reducing unions are precision machined with a focus on the concentricity of the bore as well as on the finish of the surfaces to give an absolute leak-free connection.

These unions have internal threads, which we recommend for most applications. Internal threads make stronger connections and internal fitting details provide the lowest dead volume for high performance instrumentation.

### Stainless unions

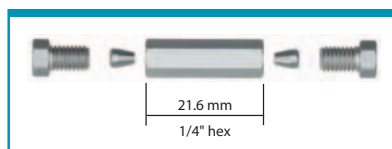
**UHPLC**

- Choice of four bore sizes
- For 1/16" OD tubing

VICI stainless steel unions join two pieces of 1/16" OD metal tubing.

Two nuts and ferrules ship with each union.

	Bore (mm)	Qty/pkg	Product No.
1/16" union	0.15	1	JR-ZU1XCS6
	0.25	1	JR-ZU1CS6
	0.50	1	JR-ZU1MS6
	0.75	1	JR-ZU1S6
Replacement nut		5	JR-ZN1-5
Replacement ferrule		5	JR-ZF1S6-5



### SPECIFICATIONS

#### TUBING OD

For 1/16" OD tubing

#### MATERIAL

Body Type 316 SS  
Nuts Type 303 SS  
Ferrules Type 316 SS

#### PRESSURE RATING

1375 bar (20,000 psi)  
(Varies with tubing ID and material)

### Stainless reducing unions

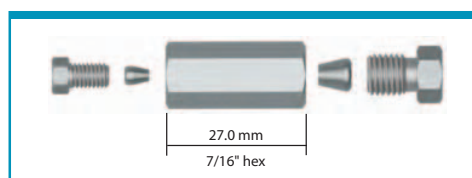
**IMPERIAL**

**UHPLC**

These reducing unions join 1/16" OD to 1/8" OD tubing.

Two nuts and ferrules ship with each union.

	Size	Qty/pkg	Product No.
Reducing union	1/8" to 1/16"	1	JR-ZRU21
Replacement nut	1/8"	5	JR-ZN2-5
	1/16"	5	JR-ZN1-5
Replacement ferrule	1/8"	5	JR-ZF2S6-5
	1/16"	5	JR-ZF1S6-5



### SPECIFICATIONS

#### TUBING OD

For joining 1/8" to 1/16" OD tubing

#### MATERIAL

Body Type 316 SS  
Nuts Type 303 SS  
Ferrules Type 316 SS

#### PRESSURE RATING

1375 bar (20,000 psi)  
(Varies with tubing ID and material)

### SEE ALSO

Nanovolume® high pressure fittings . . . 42-45  
Stainless starter kit . . . 104  
HPLC parts kit with stainless fittings and tubing  
ChromBox kit. . . . . 105  
HPLC parts kit with PEEK and stainless fittings and tubing

**SPECIFICATIONS****TUBE REDUCING OD**

1/32" to 1.0 mm

1/16" to 2.0 mm

1/8" to 3.0 mm

**MATERIAL**

Body Type 303 SS

Nuts Type 303 SS

Ferrules Type 316 SS

**PRESSURE RATING**

1375 bar (20,000 psi)

(Varies with tubing ID and material)

**Stainless reducing unions**

IMPERIAL TO METRIC

**UHPLC**

- Ultra-high pressure
- For 1 mm, 2 mm, and 3 mm OD tubing



With these reducing unions, metric tubing can be connected to imperial fittings, valves, and chromatographic systems. The unions are manufactured from Type 303 stainless steel.

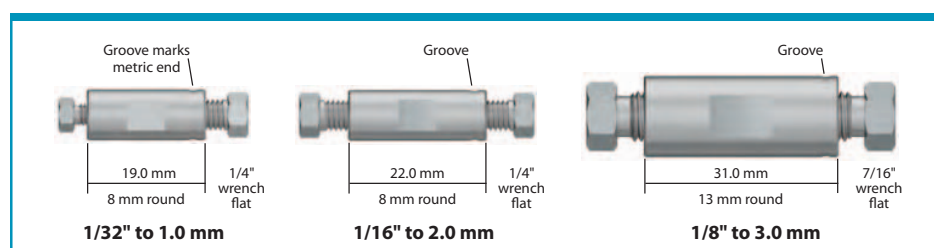
For easy identification, the metric end is marked by a groove.

Two nuts and ferrules ship with each reducing union.

	Tubing OD	Bore (mm)	Threads	Qty/pkg	Product No.
Reducing union	1/32" to 1.0 mm	0.25	6-40 to 10-32	1	JR-096
	1/16" to 2.0 mm	0.75	10-32	1	JR-082
	1/8" to 3.0 mm	0.75	5/16-24	1	JR-086

	Tubing OD	Threads	Qty/pkg	Product No.
Replacement nut	1/32"	6-40	5	JR-ZN.5-5
	1/16"	10-32	5	JR-ZN1-5
	1/8"	5/16-24	5	JR-ZN2-5
	for 1.0 mm	10-32	5	JR-ZN1-5
	for 2.0 mm	10-32	5	JR-80-5
	for 3.0 mm	5/16-24	5	JR-ZN2-5

	Tubing OD	Qty/pkg	Product No.
Replacement ferrule	1/32"	5	JR-ZF.5S6-5
	1/16"	5	JR-ZF1S6-5
	1/8"	5	JR-ZF2S6-5
	1.0 mm	5	JR-097-5
	2.0 mm	5	JR-083-5
	3.0 mm	5	JR-087-5


**WRENCH SIZE  
FOR BODY FLAT**

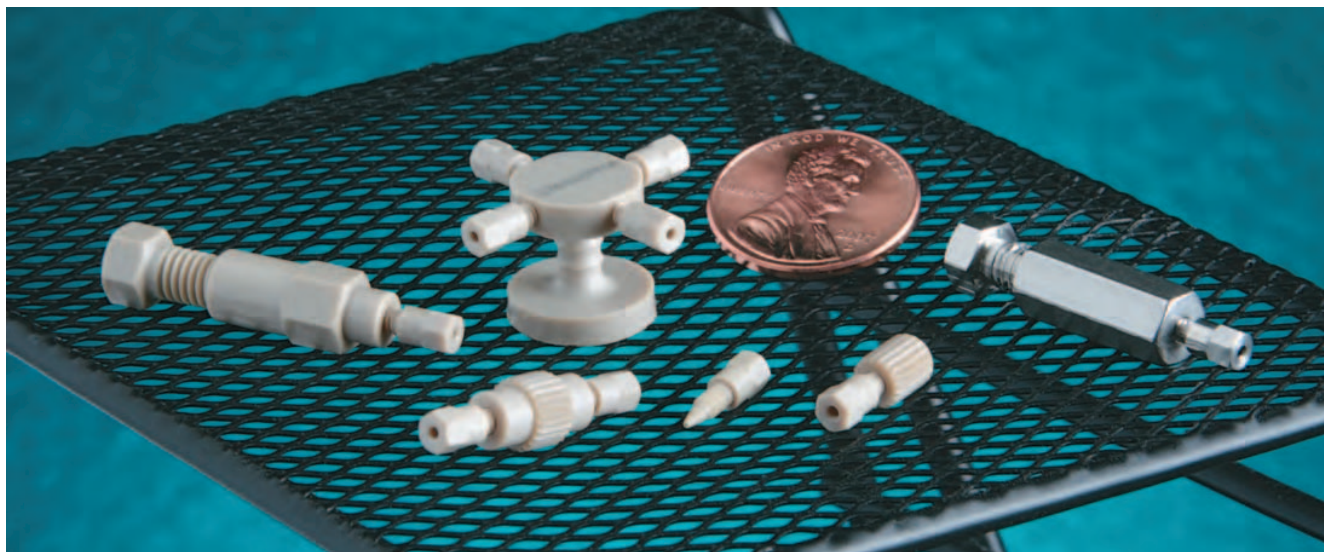
Wrench Reducing P/N  
size union

1/4" 1/32" to 1.0 mm JR-096

1/4" 1/16" to 2.0 mm JR-082

7/16" 1/8" to 3.0 mm JR-086

# NANOVOLUME® FITTINGS



**HIGH PRESSURE FITTINGS • FOR 360 MICRON AND 1/32" TUBING**

VICI Nanovolume® fittings generally have bore sizes of 100-150  $\mu\text{m}$  (.004" - .006"), ranging down to 50  $\mu\text{m}$  (.002"). The minimal transfer volume contributed by Nanovolume® components makes them especially beneficial in applications with flow rates in the  $\mu\text{l}/\text{min}$  range, when the transfer volume can be critical.

## HIGH PRESSURE NANOVOLUME® FITTINGS INDEX

### 1/32" NANOVOLUME® FITTINGS

Nuts, ferrules, unions, and reducing unions ..... 43

1/32" fittings, with 100 or 150  $\mu\text{m}$  bore, are ideal for high resolution capillary chromatography. Rated at 5,000 psi with fingertight nuts, they will remain leak-tight well beyond the burst strength of most PEEK tubing. These fittings are machined from high quality inert polymers to the same exacting tolerances as our popular Valco zero dead volume fittings, and the taper angle and detail design conform to the industry standard established by the Valco line.

### 360 MICRON NANOVOLUME® FITTINGS

For PEEK or FS tubing, <10K psi ..... 44

For fused silica tubing, 10K psi ..... 45

For metal tubing, <20K psi ..... 45

These high pressure fittings permit direct connection of 360  $\mu\text{m}$  OD fused silica, PEEK, stainless, or electroformed nickel tubing without the use of liners. The ferrule snaps into the nut so that the fitting is "one-piece", but the ferrule remains free to rotate as the nut is tightened so that the tube doesn't twist. Because of the compact size and fine 2-56 threads, a leak-free connection that seals at pressures in excess of 20,000 psi can be easily formed with the available manual tool.

### ➔ MORE INFO

360  $\mu\text{m}$  OD capillaries  
Fused silica ..... 18  
Stainless ..... 19  
1/32" OD capillaries  
Stainless ..... 19-20

### ! DISCLAIMER

The maximum holding pressure for any type of connections involving tubing and a ferrule varies considerably with the tubing material, the ferrule material, the clearance between tubing OD and ferrule ID, and the shape of the fitting detail.



## NANOVOLUME FITTINGS FOR 1/32" TUBING

- 100 and 150 µm bores available
- Nuts, ferrules, and unions
- For PEEK tubing

VICI Nanovolume® fittings are designed for capillary LC, used in HTS techniques, proteomics, genomics, and other newer developments in industrial research requiring small sample size for reduction of analysis time.

VICI Nanovolume connectors include our one-piece fingertight fittings for 1/32" OD tubing, featuring our patented\* collapsible ferrule. PEEK ferrules for use with our external nuts also feature the collapsible, grooved design. To avoid potential confusion, all fittings utilizing the Cheminert collapsible ferrule are made of black PEEK; fittings with a standard Valco ZDV fitting detail are natural PEEK.

\*U.S. patent no. 6,575,501.

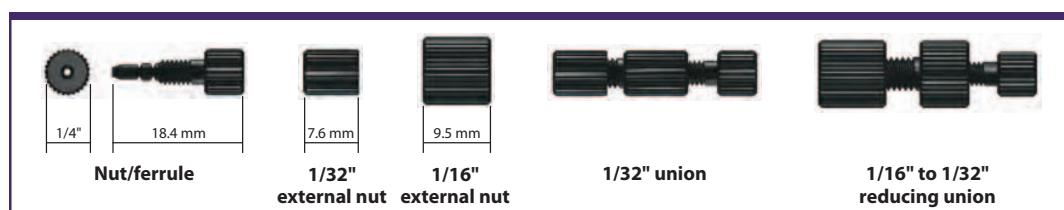
## Nanovolume® fittings

## FOR 1/32" TUBING

The internal nut includes a collapsible ferrule as an integral part of the fitting; the external nut must be used with the separate ferrule listed below.

	Tubing OD	Product No.
One-piece nut/ferrule	1/32"	JR-C-NNFFPK
External nut	1/32"	JR-C-EN.5FPKB
	1/16"	JR-C-EN1FPKB
Ferrule, collapsible	1/32"	JR-ZGF.5PK
	1/16"	JR-ZGF1PK

Bore size:	Tubing OD	100 micron	150 micron
		Product No.	Product No.
Union (external to internal)	1/32"	JR-C-NEU.5XFPK	JR-C-NEU.5FPK
Reducing union	1/16" to 1/32"	—	JR-C-NERU1FPK



## Liners for 1/32" connectors

## FOR USE WITH FUSED SILICA TUBING

Use these natural PEEK liners to adapt 1/32" connectors to the most common sizes of fused silica tubing.

The 27 mm liners are for internal nuts with collapsible ferrules (JR-C-NNFFPK or JR-C-NNFLFPK). 10 mm liners are for use with external nuts (JR-C-EN.5FPKB).

Sold in packages of 5.

	For tubing OD (Package/5)	125 - 175 µm Prod No	175 - 225 µm Prod No	225 - 275 µm Prod No	275 - 325 µm Prod No	325 - 375 µm Prod No
27 mm liners		JR-C-NL.15L-5	JR-C-NL.20L-5	JR-C-NL.25L-5	JR-C-NL.30L-5	JR-C-NL.35L-5
10 mm liners		JR-C-NL.15S-5	JR-C-NL.20S-5	JR-C-NL.25S-5	JR-C-NL.30S-5	JR-C-NL.35S-5

### SPECIFICATIONS

#### TUBING OD / THREADS

For 1/32" OD PEEK

Nut/ferrule	6-40
External nut	
1/32"	8-36
1/16"	10-32

#### MATERIAL

PEEK

#### PRESSURE RATING

<350 bar (5,000 psi)  
(Varies with tubing ID and material)

#### TOLERANCES

±0.05mm (.002")

### MORE INFO

360 µm Nanovolume® fittings .....42-45

### CONVERSIONS

50 µm	= .002"
100 µm	= .004"
150 µm	= .006"
0.25 mm	= .010"
0.50 mm	= .020"
0.75 mm	= .030"

Nanovolume® fittings • for 360 µm tubing



HIGH PRESSURE FITTINGS • NANO VOLUME

NANO VOLUME FITTINGS FOR 360 MICRON TUBING

- For direct connection of 360 µm tubing
- Work with metal, fused silica, or PEEK
- Up to 20,000 psi with metal tubing
- Snap-in rotating ferrule for “one-piece” fitting with no tubing twist
- Eliminate use of troublesome liners

Our high pressure fittings permit direct connection of 360 micron OD fused silica, PEEK, stainless, or electroformed nickel tubing without the use of liners. The ferrule snaps into the nut so that the fitting is “one-piece”, but the ferrule remains free to rotate as the nut is tightened so that the tube doesn’t twist. Because of the compact size and fine 2-56 threads, a leak-free connection that seals at pressures in excess of 20,000 psi can be easily formed with the available manual tool.

VICI Nanovolume® 360 µm fittings are dedicated for use with either fused silica, metal, or PEEK tubing; components cannot be mixed or used with a different tubing material.

Tees and crosses offer a choice of three bore sizes, and feature a “quick-mount” base with adhesive backing to make sure that the fitting is stable and fragile tubing doesn’t get broken. There is also a quick-mount PEEK union.



For PEEK or fused silica tubing — up to 10,000 psi

FOR 360 µm TUBING

These fittings are constructed from premium grade natural PEEK material. They are intended for use with PEEK or fused silica tubing at pressures up to 10,000 psi, or the maximum pressure for which the tubing is rated, whichever is lower. Quick-mount versions have integral base with double stick tape to secure fittings to a surface.

		Product No.
Nut/ferrule		JR-C360NFPK
Cap		JR-C360CPK
Plug		JR-C360PPK
Tightening tool		JR-C360ET

Bore size:	50 micron Product No.	100 micron Product No.	150 micron Product No.
Union	JR-C360UPK2	JR-C360UPK4	JR-C360UPK6
Reducing union, 1/16" to 360 µm	—	—	JR-C360RU1PK6
Union, quick mount	JR-C360QUPK2	JR-C360QUPK4	JR-C360QUPK6
Tee, quick mount	JR-C360QTPK2	JR-C360QTPK4	JR-C360QTPK6
Cross, quick mount	JR-C360QXPK2	JR-C360QXPK4	JR-C360QXPK6

SPECIFICATIONS

TUBING OD / THREADS

For PEEK or FS tubing  
360 µm 2-56

MATERIAL

PEEK

PRESSURE RATING

<689.5 bar (10,000 psi)  
(Varies with tubing ID and material)

➔ MORE INFO

360 µm OD capillaries  
Fused silica ..... 18  
Stainless ..... 19

t TECH TIP

360 micron fittings are dedicated for use with either fused silica, metal, or PEEK tubing. Components cannot be mixed or used with a different tubing material.

t TECH TIP

Grooves on the fitting body indicate the bore size:



Grooves indicate bore size  
1 groove: 50 µm  
2 grooves: 100 µm  
no grooves: 150 µm







## For fused silica tubing — 10,000 psi and above

FOR 360 µm TUBING

### SPECIFICATIONS

#### TUBING OD / THREADS

For FS tubing  
360 µm 2-56


#### MATERIALS

Body HPLC grade SS  
Nut HPLC grade SS  
Ferrule Gold-plated  
nickel

#### PRESSURE RATING

≥ 689.5 bar (10,000 psi)  
(Varies with tubing ID and  
material)

These fittings are constructed from HPLC grade stainless steel, with stainless steel nut and a special ferrule which is precision machined from electroformed nickel. For optimal sealing characteristics, the ferrule is gold plated.

		Product No.
Nut/ferrule		JR-C360NFFS
Cap		JR-C360CFS

Bore size:	50 micron Product No.	100 micron Product No.	150 micron Product No.
Union	JR-C360UFS2	JR-C360UFS4	JR-C360UFS6
Reducing union, 1/32" to 360 µm	JR-C360RU.5FS2	JR-C360RU.5FS4	JR-C360RU.5FS6
Reducing union, 1/16" to 360 µm	—	—	JR-C360RU1FS6



## For metal tubing — up to 20,000 psi

FOR 360 µm TUBING

### SPECIFICATIONS

#### TUBING OD / THREADS

For metal tubing  
360 µm 2-56

#### MATERIAL

HPLC grade SS

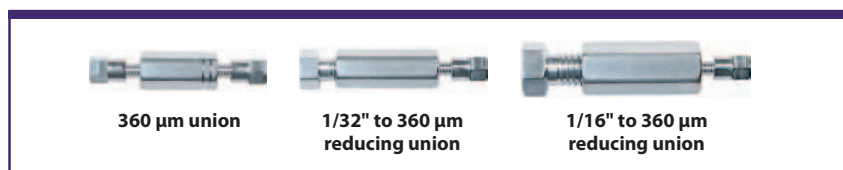
#### PRESSURE RATING

<1375 bar (20,000 psi)  
(Varies with tubing ID and  
material)

Our highest pressure Nanovolume® fittings are constructed of HPLC grade stainless steel, including stainless steel nut and ferrule. These fittings are optimized for use with stainless or electroformed nickel tubing.

		Product No.
Nut/ferrule		JR-C360NFS6
Cap		JR-C360C

Bore size:	50 micron Product No.	100 micron Product No.	150 micron Product No.
Union	JR-C360US62	JR-C360US64	JR-C360US66
Reducing union, 1/32" to 360 µm	JR-C360RU.5S62	JR-C360RU.5S64	JR-C360RU.5S66
Reducing union, 1/16" to 360 µm	—	—	JR-C360RU1S66



### MORE INFO

360 µm OD capillaries  
Fused silica ..... 18  
Stainless ..... 19  
1/32" Nanovolume®  
fittings ..... 43

### CONVERSIONS

50 µm = .002"  
100 µm = .004"  
150 µm = .006"

0.25 mm = .010"  
0.50 mm = .020"  
0.75 mm = .030"

# LOW PRESSURE FITTINGS



**POLYMERIC**

Our low pressure fittings are ideally suited for flow injection analysis, low pressure liquid chromatography, and stream sampling devices. They may be safely used at pressures up to 500 psi and temperatures to 50°C.

## LOW PRESSURE POLYMERIC FITTINGS INDEX

### NUTS, FERRULES, AND WASHERS

#### FOR 1/4-28 FLAT-BOTTOM FITTING DETAILS

PPS hex head nuts	
Flangeless .....	page 47
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Flangeless ferrules	
Collapsible .....	47
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Flangeless nuts	
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### PERISTALTIC TUBING ADAPTER SET .. 53

Connect soft tubing to PTFE and PTFE-like tubing with this biocompatible adapter set, which works with peristaltic tubing up to 4.50 mm OD.

### ADAPTERS, POLYPROPYLENE ..... 54

Includes male and female Luer to barbed, 10-32, and 1/4-28 male and female, and other combinations.

### PLUGS, POLYPROPYLENE

10-32 and 1/4-28 .....	55
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### MICRO VALVES FOR LC AND GC ..... 55

Simplify your liquid or gas handling application. The unique design of the fitting detail allows a leak-free seal with no potential for rotor damage from overtightening.

### **i** FITTING DESIGNS

VICI Jour offers two types of low pressure fittings for 1/4-28 flat-bottomed fitting details:

- **Flangeless** connections utilize several ferrule designs. The ferrule grips the tubing as the fitting is tightened, without significantly reducing the tubing ID.
- **Flanged** tube end fittings are retained on polymeric tubing by a flange formed around a polypropylene washer. The washer never comes in contact with the mobile phase.

### **!** DISCLAIMER

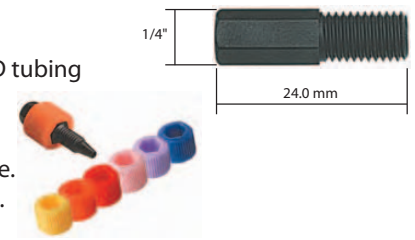
The maximum holding pressure for any type of connections involving tubing and a ferrule varies considerably with the tubing material the ferrule material, the clearance between tubing OD and ferrule ID, and the shape of the fitting detail.



## NUTS AND FERRULES

- Economic alternative to PEEK
- Excellent chemical resistance
- For 1/16" or 1/8" OD tubing

Our PPS 1/4-28 fitting series offers excellent chemical and pressure resistance. Three different sealing options are available. PPS nuts are fingertight when used with Color-Sleeve adapters.






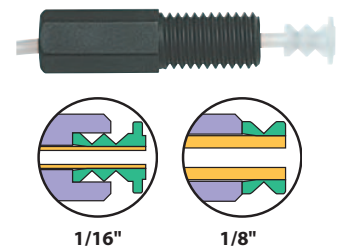
### PPS hex-head nuts and collapsible ferrules (flangeless)

1/4-28

Patented\* collapsible ferrules are not included. Order separately.

\* Patent No. 6,575,501

		Material	Tubing OD		Product No.
(Package/10)	Nut for use with collapsible ferrule	PPS	1/16"		JR-55050-10
			1/8"		JR-55051-10
	Collapsible ferrules	PCTFE	1/16"		JR-CFL-CB1KF
			1/8"		JR-CFL-CB2KF
		PEEK	1/16"		JR-CFL-CB1PK



#### SPECIFICATIONS

##### TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

Pressure rating:

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500






(Varies with tubing ID and material)

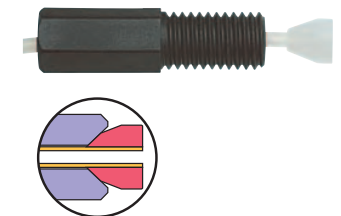
\*Patent No. 6,575,501

### PPS hex-head nuts and inverted ferrules (flangeless)

1/4-28

Ferrules are not included. Order separately.

		Material	Tubing OD		Product No.
(Package/10)	Nut for use with inverted ferrule	PPS	1/32"		JR-55073-10
			1/16"		JR-55070-10
			1/8"		JR-55071-10
			1.0 mm		JR-55073-10
			2.0 mm		JR-55072-10
	Inverted ferrules	ETFE	1/32"		JR-032-10
			1/16"		JR-041-10
			1/8"		JR-051-10
	  		1.0 mm		JR-031-10
			2.0 mm		JR-042-10
		3.0 mm		JR-049-10	



#### SPECIFICATIONS

##### TUBING OD / THREADS

1/32"	1/4-28
1/16"	1/4-28
1/8"	1/4-28

##### PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

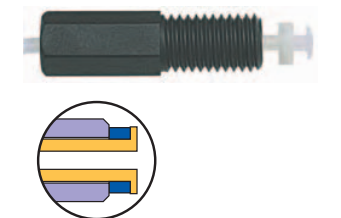
(Varies with tubing ID and material)

### PPS hex-head nuts and washers (flanged connections)

1/4-28

Washers are not included. Order separately.

		Material	Tubing OD	Product No.
(Package/10)	Nut for flange/ washer connection	PP	1/16"	JR-55060-10
			1/8"	JR-55061-10
	Washer	PP	1/16"	JR-201926-10
			1/8"	JR-201928-10
	Easy-Flange kit (see page 99)			JR-201540



#### SPECIFICATIONS

##### TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

##### PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

(Varies with tubing ID and material)

#### SEE ALSO

High pressure 1/4-28 nuts and ferrules ..... 30  
Color-Sleeve adapters ..... 23

#### MORE INFO

About polymers . 113-114  
Chemical resistance of PPS ..... 110-112

#### CHEMICAL RESISTANCE OF PPS

A = suitable B = marginal  
C = not recommended

Chemical class	Resistance	Chemical class	Resistance
Acids, organic	A	Bases	B
Acids, inorganic	B/C*	Esters	A
Aldehydes	A	Halogenated org.	A/B
Alcohols	A	Hydrocarbons	A
* Concentrated halogen acids		Ketones	A

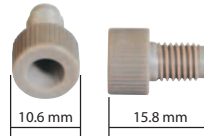
## Nuts and ferrules • Flangeless



### LOW PRESSURE FITTINGS

#### PEEK fingertight nuts (flangeless)

- Compatible with all 1/4-28 flat-bottom ports
- Excellent chemical resistance
- For 1/16" or 1/8" OD tubing
- True fingertight – no tools required



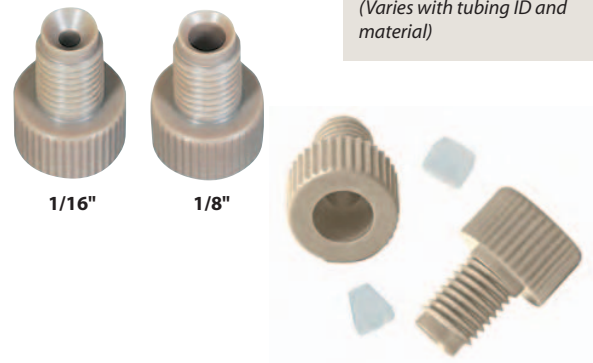
1/4-28

PEEK flangeless nuts in combination with our inverted ferrule do not require a flanging tool. A hand-tightening procedure makes leak-free seals.

With this fitting system, the inert ETFE ferrule is the only part besides the tubing which comes into contact with the fluid stream – the nut is never in contact.

Ferrules are not included. Order separately.

		Material	Tubing OD	Product No.
(Package/10)	Nut for use with inverted ferrule	PEEK	1/16"	JR-20124-10
			1/8"	JR-20116-10
	Inverted ferrules	ETFE	1/16"	JR-041-10
			1/8"	JR-051-10



#### SPECIFICATIONS

##### TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

##### MATERIALS

Nut	PEEK
Ferrules	ETFE

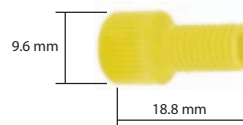
##### PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

(Varies with tubing ID and material)









#### Color-coded fingertight nuts (flangeless)

- Polyacetal – economical alternative to PEEK
- Compatible with all 1/4-28 flat-bottom ports
- For 1/16" or 1/8" OD tubing
- True fingertight – no tools required



1/4-28

Polyacetal flangeless nuts in combination with the inverted ferrule do not require a flanging tool. A hand-tightening procedure makes leak-free seals. With this fitting system, the inert ETFE ferrule is the only part besides the tubing which comes into contact with the fluid stream – the nut is never in contact. Six colors are available.

		1/16"		1/8"	
		Color	Product No.	Product No.	
(Package/10)	Nuts		Green	JR-040GR-10	JR-050GR-10
			Blue	JR-040BL-10	JR-050BL-10
			Yellow	JR-040YL-10	JR-050YL-10
			Red	JR-040RE-10	JR-050RE-10
			White	JR-040WH-10	JR-050WH-10
			Black	JR-040BK-10	JR-050BK-10
	1" long nuts		White	JR-040WL-10	JR-050WL-10
	Inverted ETFE ferrules			JR-041-10	JR-051-10
					



#### SPECIFICATIONS

##### TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

##### MATERIAL

Nut	Polyacetal
Ferrules	ETFE

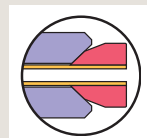
##### PRESSURE RATING

OD	Bar	Psi
1/16"	70	1000
1/8"	35	500

(Varies with tubing ID and material)

#### TECH TIP

The inert ETFE ferrule used with these nuts is the only part besides the tubing which is in contact with the fluid stream.



**SPECIFICATIONS****TUBING OD / THREADS**

1/16" 1/4-28  
1/8" 1/4-28

**MATERIAL**

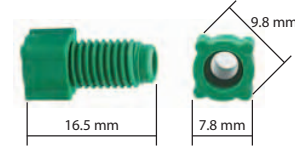
Fiberglass-reinforced  
polypropylene

**PRESSURE RATING**

<30 bar (435 psi)  
(Varies with tubing ID and  
material)







**Color-coded fingertight nuts (flanged connections)****1/4-28**

- For flanged connections
- Compatible with all 1/4-28 flat-bottom ports
- For 1/16" or 1/8" OD tubing
- Fiberglass-reinforced PP with PP washers



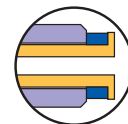
For those systems requiring or preferring flanged connections, use these fiberglass-reinforced fittings with our Easy-Flange flanging tool and polypropylene washers to make a clean connection. The flange on the tubing ensures that the washer never comes in contact with the mobile phase.

Six colors are available.

(Package/10)	Nuts	Color	1/16"	1/8"
			Product No.	Product No.
		Green	JR-202123-10	JR-202143-10
		Blue	JR-202122-10	JR-202142-10
		Yellow	JR-202124-10	JR-202144-10
		Red	JR-202125-10	JR-202145-10
		White	JR-201094WH-10	JR-201580WH-10
		Black	JR-201094BK-10	JR-201580BK-10
	1" long nuts		White	JR-202120-10
			Black	JR-202118-10
	Polypropylene washer		10	JR-201926-10
				JR-201928-10

**Union body for flanged connections****1/4-28**

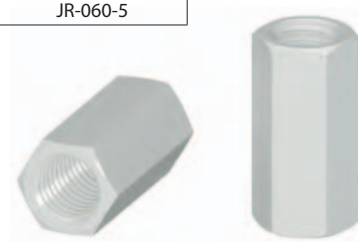
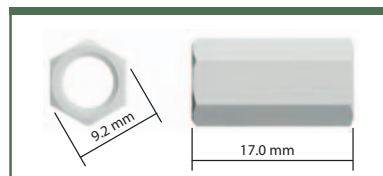
- For flanged 1/4-28 flat-bottom connections
- Through bore low pressure union
- For 1/16" or 1/8" OD tubing
- Completely inert and biocompatible



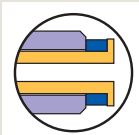
Flanged fittings are not included.

Order PPS hex-head flanged nuts or color-coded fingertight flanged nuts separately.

		Product No.
(Package/5)	Union body, polyamide	JR-060-5

**TECH TIP**

Use our Easy-Flange kit for forming flanges on tubing ..... 99





## Unions and bulkhead unions • Flangeless



### LOW PRESSURE FITTINGS

## PEEK unions

- For easy connection of low pressure solvent lines
- Low dead volume
- For 1/16" or 1/8" OD tubing
- Flat-bottomed 1/4-28 fitting details
- Completely inert and biocompatible

These unions facilitate the quick and reliable connection of two pieces of 1/16" or 1/8" OD tubing. Use with color-coded adapters for easy solvent line identification.

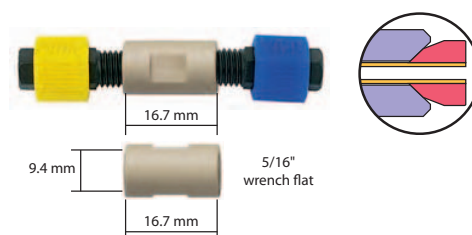
These are available either as the body only, or complete with fittings.

A union with fittings includes:

- PEEK low pressure union
- 2 PPS flangeless hex-head nuts
- ETFE inverted ferrules
- Color-Sleeve adapters

		Tubing OD	Bore (mm)	Product No.
(Sold individually)	Union, with fittings	1/16"	0.50	JR-1064
			0.75	JR-1068
		1/8"	1.30	JR-1065
	Body only	1/16"	0.50	JR-064
			0.75	JR-068
		1/8"	1.30	JR-065

		Tubing OD	Product No.
<b>Replacement fittings</b>			
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10
		1/8"	JR-55071-10
	Inverted ETFE ferrules	1/16"	JR-041-10
		1/8"	JR-051-10



1/4-28

### SPECIFICATIONS

#### TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

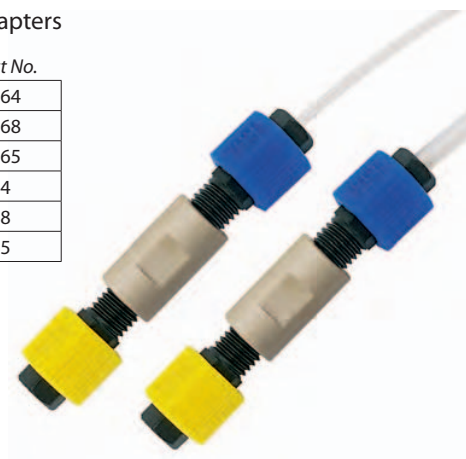
#### MATERIALS

Body	PEEK
Nut	PPS
Ferrules	ETFE

#### PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

(Varies with tubing ID and material)



## PEEK bulkhead unions

- Panel mounting (10 mm hole required, max 9 mm thick)
- Low dead volume
- For 1/16" or 1/8" OD tubing
- Completely inert and biocompatible
- For easy connection of low pressure solvent lines

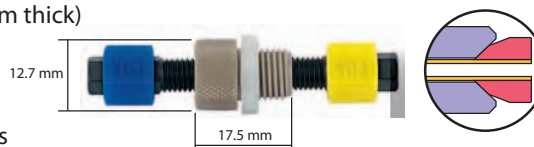
Bulkhead unions are designed to be mounted through an instrument panel or on a bracket.

They are sold complete with fittings, and include:

- 2 PPS flangeless hex-head nuts
- 2 ETFE inverted ferrules
- 2 Color-Sleeve adapters

		Bore (mm)	Tubing OD	Product No.
(Sold individually)	Bulkhead union, with fittings	0.75	1/16"	JR-CBUMPK
		1.50	1/8"	JR-CBULPK

		Tubing OD	Product No.
<b>Replacement fittings</b>			
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10
		1/8"	JR-55071-10
	Inverted ETFE ferrules	1/16"	JR-041-10
		1/8"	JR-051-10



1/4-28

### SPECIFICATIONS

#### TUBING OD / THREADS

1/32"	1/4-28
1/16"	1/4-28
1/8"	1/4-28

#### MATERIALS

Body	PEEK
Nut	PPS
Ferrules	ETFE

#### PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

(Varies with tubing ID and material)

### SEE ALSO

Color-coded fingertight flanged nuts . . .	.49
Color-Sleeve adapters, in 12 colors . . . . .	.23
High pressure PEEK unions . . . . .	.22
PPS hex-head flanged nuts . . . . .	.47

### TECH TIP

Use our impermeable tubing to avoid gas diffusion in the solvent lines . . . . . 17

**SPECIFICATIONS****TUBING OD / THREADS**

1/32" 1/4-28

1/16" 1/4-28

1/8" 1/4-28

**MATERIALS**

Body PEEK

Nuts PPS

Ferrules ETFE

**PRESSURE RATING**

≤48 bar (700 psi)

(Varies with tubing ID and material)

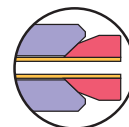
**PEEK reducing unions****IMPERIAL TO METRIC 1/4-28**

- Connects 1/16", 1/8", 1 mm, 2 mm, and 3 mm OD polymeric tubing
- Completely inert and biocompatible




With these reducing unions, metric tubing can be connected to imperial fittings on valves and LC systems.

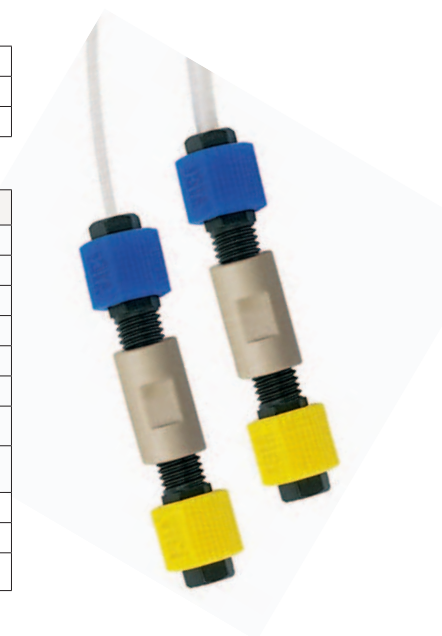
A reducing union with fittings includes:

- PEEK low pressure reducing union
- 1 PPS flangeless hex-head nut, imperial size noted
- 1 PPS flangeless hex-head nut, metric size noted
- ETFE inverted ferrules
- Color-Sleeve adapters



		Tubing OD	Bore (mm)	Product No.
(Sold individually)	Reducing union, with fittings	1/32" to 1 mm	0.50	JR-0640
		1/16" to 2 mm	0.75	JR-0680
		1/8" to 3 mm	1.30	JR-0650

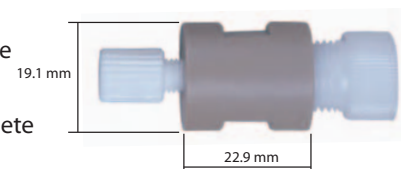
		Material	Tubing OD	Product No.
<b>Replacement fittings</b>				
(Package/10)	Nut for use with inverted ferrule	PPS	1/32"	JR-55073-10
			1/16"	JR-55070-10
			1/8"	JR-55071-10
			1.0 mm / 1/32"	JR-55073-10
			2.0 mm	JR-55072-10
	Inverted ferrules	ETFE	1/32"	JR-032-10
			1/16"	JR-041-10
			1/8"	JR-051-10
	  		1.0 mm	JR-031-10
			2.0 mm	JR-042-10
			3.0 mm	JR-049-10

**PEEK reducing unions****IMPERIAL 1/2-20 to 1/4-28**

- Connects 1/4" and 1/8" OD tubing
- Completely inert and biocompatible
- Low dead volume

PEEK reducing unions are sold complete with fittings, and include:

- One 1/8" flangeless nut, white polypropylene
- One 1/8" ferrule, PEEK
- One 1/4" flangeless nut, PPS
- One 1/4" ferrule, CTFE

**SPECIFICATIONS****TUBING OD / THREADS**

1/8" 1/4-28

1/4" 1/2-20

**MATERIALS**

Body PEEK

Nuts

1/8" PP

1/4" PPS

Ferrules

1/8" PEEK

1/4" PCTFE

**PRESSURE RATING**

&lt;35 bar (500 psi)

(Varies with tubing ID and material)

**TECH TIP**

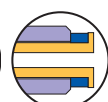
While our PEEK unions are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used.



**Standard:**  
Inverted ferrule



**Collapsible**  
ferrule



**Flanged**  
connection

		Bore (mm)	Tubing OD	Product No.
(Sold individually)	Reducing union with fittings	1.5	1/4" to 1/8"	JR-CU4LPK

		Material	Tubing OD	Product No.
(Sold individually)	Flangeless nut, white propylene	White propylene	1/8"	JR-CFL-2W-S
		PPS	1/4"	JR-CFL-4PPS
	Ferrule	PEEK	1/8"	JR-CFL-CB2PK-S
		PCTFE	1/4"	JR-CFL-CB4KF-S

## Tees, crosses, and manifolds



### LOW PRESSURE FITTINGS

## PEEK tees, crosses, and manifolds

- For 1/16" or 1/8" OD tubing
- Flat-bottomed 1/4-28 fitting details
- Completely inert and biocompatible

These VICI Jour connectors for low pressure applications are machined from PEEK. The bodies have 1/4-28 female ports which accept any flanged or flangeless fittings for 1/8" or 1/16" OD tubing.

Choose smaller through-holes for applications where low flowrate or low dead volume is required. Fittings with 1.50 mm through-holes are preferred for high flowrate applications.

These are available as the body only, or complete with fittings.

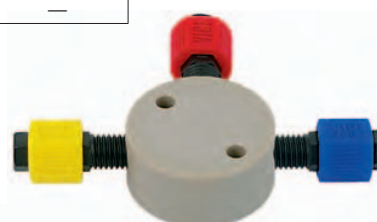
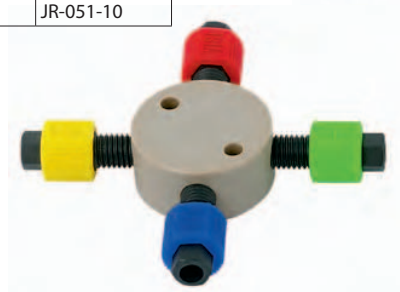
The appropriate number of the following are included when fittings are ordered:

- PPS flangeless hex-head nuts
- ETFE inverted ferrules
- Color-Sleeve adapters

Sold individually.

		Tubing OD		Bore (mm)	With fittings Product No.	Body only Product No.
(Sold individually)	Tees	1/16"	0.50		JR-6029	JR-6034
				0.80	JR-6030	JR-6032
		1/8"	1.50		JR-6031	JR-6033
	Crosses	1/16"	0.50		JR-6039	JR-6044
				0.80	JR-6040	JR-6042
		1/8"	1.50		JR-6041	JR-6043
	Manifolds	5 ports	1/16"	0.75	JR-C5M1PK	—
			1/8"	1.50	JR-C5M2PK	—
		9 ports	1/16"	0.75	JR-C9M1PK	—
			1/8"	1.50	JR-C9M2PK	—

		Tubing OD	Product No.
<b>Replacement fittings</b>			
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10
		1/8"	JR-55071-10
	Inverted ETFE ferrules	1/16"	JR-041-10
		1/8"	JR-051-10



1/4-28

### SPECIFICATIONS

#### TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

#### MATERIALS

Body	PEEK
Nut	PPS
Ferrules	ETFE

#### BODY SIZES

See chart below

#### PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

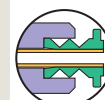
(Varies with tubing ID and material)

### TECH TIP

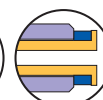
While our PEEK tees and crosses are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used.



**Standard:**  
Inverted ferrule



**Collapsible**  
ferrule



**Flanged**  
ferrule

### TECH TIP

Use our impermeable tubing to avoid gas diffusion in the solvent lines ..... 17

### SEE ALSO

Color-Sleeve adapters, in 12 colors ..... 23  
High pressure PEEK tees ..... 34  
PPS hex-head flanged nuts ..... 47

### BODY SIZES

	Diameter	Thickness
Tees	25.0 mm	12.0 mm
Crosses	25.0 mm	12.0 mm
Manifolds	5 ports	22.2 mm
	9 ports	28.6 mm



# SPECIFICATIONS

## TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

## MATERIALS

Body	PEEK
Nut	PPS
Ferrules	ETFE

## PRESSURE RATING

OD	Bar	Psi
1/16"	105	1500
1/8"	35	500

(Varies with tubing ID and material)

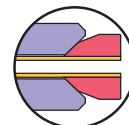
## MIXING VOLUME

Bore	Volume
0.75 mm	25 µl
1.50 mm	100 µl

# PEEK mixing tees

1/4-28

- For 1/16" or 1/8" OD tubing
- Mountable
- Completely inert and biocompatible



A unique mixing results from the turbulence created by the introduction angle of the solvents. The mixing is much more thorough than with a conventional tee.

Typically our inverted ferrules are used in these fittings, but the 1/4-28 flat-bottomed details will also accept collapsible ferrule or flanged fittings.

These are available as the body only, or complete with fittings. A mixing tee with fittings includes:

- 3 PPS flangeless hex-head nuts
- 3 ETFE inverted ferrules
- 3 Color-Sleeve adapters

Sold individually.

		Tubing OD	Bore (mm)	Product No..
(Sold individually)	Mixing tee, with fittings	1/16"	0.75	JR-CM1XPK
		1/8"	1.50	JR-CM2XPK
	Body only	1/16"	0.75	JR-B-CM1XPK
		1/8"	1.50	JR-B-CM2XPK



		Tubing OD	Product No.
<b>Replacement fittings</b>			
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10
		1/8"	JR-55071-10
	Inverted ETFE ferrules	1/16"	JR-041-10
		1/8"	JR-051-10

# Peristaltic tubing adapter set

1/4-28

- For connecting soft tubing to PTFE and PTFE-like tubing
- Works with peristaltic tubing up to 4.50 mm OD
- For 1/16" and 1/8" PTFE and PTFE-like tubing
- Biocompatible
- Low dead volume



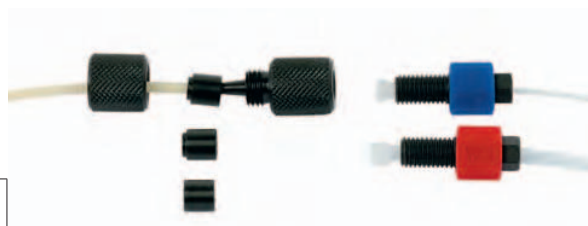
This "one-fits-all" set consists of everything needed to connect 1/16" or 1/8" OD PTFE and PTFE-like tubing to soft tubing (such as silicone), up to 4.5 mm in OD, minimum 0.5 mm ID.

The adapter includes:

- 3 different bushings (for the different soft tubing ODs)
- 2 PPS nuts (one each for 1/16" and 1/8" OD tubing)
- 2 ETFE inverted ferrules (one each for 1/16" and 1/8" OD)
- 2 Color-Sleeve adapters

Sold individually.

	Product No.
PEEK adapter for peristaltic to PTFE tubing connection	JR-PTAS



# SPECIFICATIONS

## TUBING OD / THREADS

1/16"	1/4-28
1/8"	1/4-28

## MATERIALS

Body	PEEK
Bushings	PPS
Nut	PPS
Ferrules	ETFE

## BORE

1.50 mm

## BODY SIZE

28 mm long,  
12 mm diameter.

# SEE ALSO

Color-Sleeve adapters,  
in 12 colors..... 23
















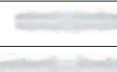







## Adapters



### LOW PRESSURE FITTINGS

## Polypropylene adapters

	Inlet		Outlet			Product No.	
(Package/10)	Male	Luer	Barbed	1/16"		JR-070211-10	
				3/32"		JR-070212-10	
				1/8"		JR-070213-10	
			Male	10-32		JR-070224-10	
				1/4-28		JR-070225-10	
				1/4-28 UNF BST		JR-070226-10	
		1/4-28	Barbed	1/16"		JR-071123-10	
				1/8"		JR-071323-10	
		10-32	Barbed	1/16"		JR-071124-10	
				1/8"		JR-071324-10	
	Female	Luer	Barbed	1/16"		JR-070111-10	
				3/32"		JR-070112-10	
				1/8"		JR-070113-10	
			Female	Luer		JR-070101-10	
			Male	10-32		JR-070124-10	
				1/4-28		JR-070123-10	
		Straight through tube fitting		Barbed to barbed	1/16"		JR-073210-10
					3/32"		JR-073220-10
					1/8"		JR-073230-10
(Sold individually)	Male	1/4-28 UNF BST	Barbed	1/16"		JR-075012	
	Flat bottom	1/4-28 UNF BST	Barbed	1/8" ID		JR-075013	

### SPECIFICATIONS

**MATERIAL**  
Polypropylene

### SEE ALSO

High pressure  
PEEK adapters . . . . . 35  
High pressure plugs . . . 31



## Polypropylene plugs

1/4-28 OR 10-32




## SPECIFICATIONS

## THREADS

10-32 or 1/4-28

## MATERIAL

Polypropylene

		Product No.	
(Package/10)	10-32 male		JR-072450-10
	1/4-28 male		JR-072350-10
	1/4-28 male, flat bottom		JR-201999-10

## Micro valves for GC and LC

1/4-28

## SPECIFICATIONS

## TUBING OD / THREADS

1/16" 1/4-28

1/8" 1/4-28

## DIMENSIONS

Bore 1.50 mm

Height 44.70 mm

Diameter 27.94 (without fittings)

## MATERIALS

Wetted parts

PEEK, PTFE

Body POM

Nuts PPS

Ferrules PCTFE

## PRESSURE RATING

200 psi gas

Tested with helium using

1/16" OD x 0.84 mm ID

PTFE tubing with PEEK

collapsible ferrules

200 psi liquid

Tested with isopropanol

using 1/8" OD x 0.75 mm

ID PTFE tubing with CTFE

collapsible ferrules

- Compact 1" design
- Convenient panel mount, hole diameter 8 mm (0.3125"), 6 mm maximum thickness
- Biocompatible and inert
- Variety of configurations

Simplify your liquid or gas handling application with a VICI Jour sampling micro valve. The unique design of the fitting detail allows a leak-free seal with no potential for rotor damage from overtightening. Internal parts are PEEK and PTFE.

Includes flangeless PPS fittings and CTFE collapsible ferrules for 1/8" OD tubing.

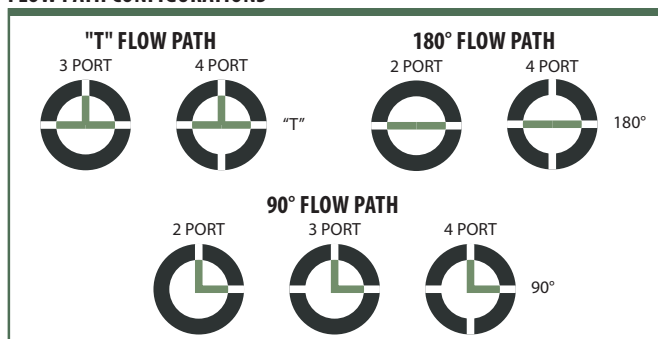
Sold individually.



Product No.		
"T" flow path	3 ports	JR-660100
	4 ports	JR-660110
180° flow path	2 ports	JR-660200
	4 ports	JR-660210
90° flow path	2 ports	JR-660300
	3 ports	JR-660310
	4 ports	JR-660320

		Material	Tubing OD	Product No.
<b>Replacement fittings</b>				
(Package/10)	Nut for use with collapsible ferrule	PPS	1/16"	JR-55050-10
			1/8"	JR-55051-10
	Collapsible ferrules	PEEK	1/16"	JR-CFL-CB1PK
		CTFE	1/8"	JR-CFL-CB2KF

## FLOW PATH CONFIGURATIONS



## SEE ALSO

High pressure  
PEEK tees ..... 34  
PPS hex-head  
flanged nuts ..... 47  
Color-Sleeve adapters,  
in 12 colors ..... 23



## TECH TIP

Use our impermeable tubing to avoid gas diffusion in the solvent lines ..... 17

## TECH TIP

While micro valves are typically used with collapsible ferrules, inverted ferrules or flanged connections can also be used. See page 47.



**STANDARD:**  
Collapsible ferrule



**INVERTED FERRULE**



**FLANGED**