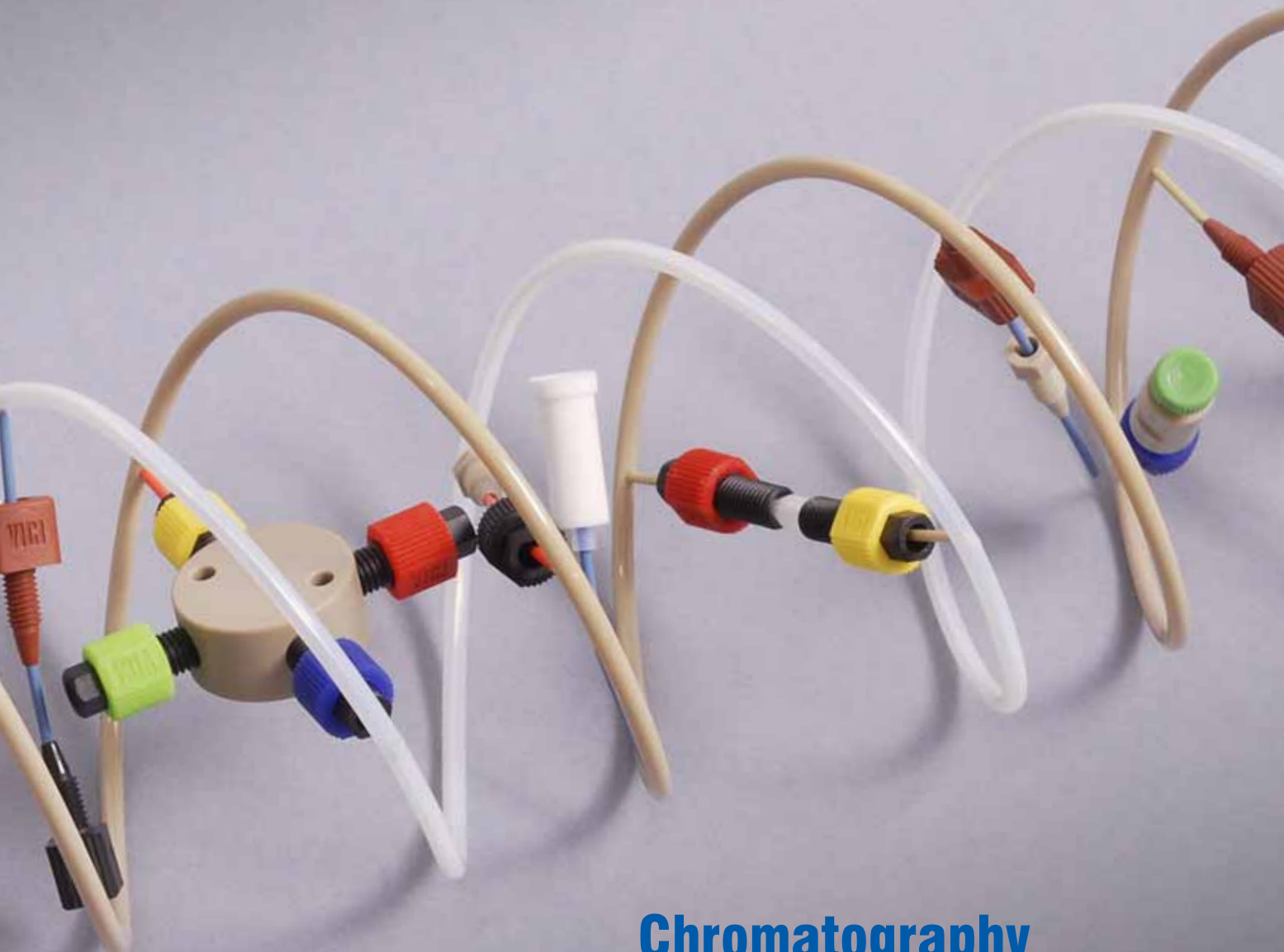


**VICI Jour<sup>®</sup>**



## **Chromatography Fluid/Gas Transfer**

**Catalog 10 Int**

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VICI JOUR - SEARCH



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Low pressure

A

Accessories

For fittings

For tubing

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B

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| Biocompatible                       |
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High pressure  
Low pressure

## C

| Caps                   |
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| Caps for bottles       |
| High pressure fittings |
| PEEK                   |
| Stainless              |

ChromBox starter kit (PEEK and stainless fittings and tubing)

Clean-Cut tubing cutter

| Color-coded          |               |                             |
|----------------------|---------------|-----------------------------|
| Fingertight adapters | Color-It      |                             |
|                      | Color Sleeve  |                             |
| Fittings             | High pressure | One-piece hex-head fitting  |
|                      | Low pressure  | Fingertight flanged nuts    |
|                      |               | Fingertight flangeless nuts |
| Tubing               | FEP           | Solid color                 |
|                      | PEEK          | Dual layer                  |
|                      |               | Solid color                 |
|                      |               | Striped                     |
|                      | PTFE          | Solid color                 |

Color-It fingertight adapters

Color Sleeve fingertight adapters

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Column end plugs

Standard

With logotype option

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Crosses

High pressure

PEEK

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Low pressure

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Dual layer color-coded PEEK tubing

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## E

ETFE tubing

|             |
|-------------|
| Easy-Flange |
| Basic kit   |
| Combi kit   |

|                          |
|--------------------------|
| Eco-caps and Eco-cap kit |
|--------------------------|

|                                       |
|---------------------------------------|
| Economy Last Drop mobile phase filter |
|---------------------------------------|

|                       |
|-----------------------|
| Exhaust safety filter |
|-----------------------|

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F

|             |
|-------------|
| FEP tubing  |
| Color-coded |
| Natural     |

|                     |
|---------------------|
| Ferrule removal kit |
|---------------------|

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Ferrules                          |                                  |
| PEEK high pressure                | Double ferrule (shown with nuts) |
|                                   | Single ferrule (shown with nuts) |
| Stainless, for Valco and Rheodyne |                                  |

|      |
|------|
| File |
|------|

|                 |
|-----------------|
| Filters         |
| High pressure   |
| Low pressure    |
| Safety          |
| UHPLC stainless |

|                               |
|-------------------------------|
| Filter/spargers, low pressure |
|-------------------------------|

|          |
|----------|
| Fittings |
|----------|

|                     |
|---------------------|
| Flanged 1/4-28 nuts |
|---------------------|

Color-coded fingertight nut  
PPS hex-head nut

Flangeless 1/4-28 nuts  
Color-coded fingertight polyacetal nut  
PEEK fingertight nut  
PPS hex-head nut

Frits

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G

GL38 VICI caps

GL45 thread  
Eco-caps and kit  
Safety caps  
Safety cap kit  
VICI caps  
VICI cap kit

GLS80 waste caps

Guillotine tubing cutter

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H

Hex-head one-piece fingertight fitting, high pressure  
PEEK  
PPS

Hex key set

High pressure  
Filters  
Fittings  
Polymeric  
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I

Impermeable polymeric tubing

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K

| Kits                     |                               |
|--------------------------|-------------------------------|
| Column packing kit       |                               |
| Eco-cap kit, GL45 thread |                               |
| Saftey cap kit, GL45     |                               |
| Starter kits             | ChromBox (PEEK and stainless) |
|                          | Easy-Flange combi kit         |
|                          | PEEK                          |
|                          | Stainless                     |
| VICI cap kit, GL45       |                               |

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L

| Last Drop filters, low pressure         |
|-----------------------------------------|
| Biocompatible glass mobile phase filter |
| Economy mobile phase filter             |
| Filter/sparger                          |
| Mobile phase filter                     |

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M

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High pressure

Mixing tees  
High pressure  
Low pressure

Mobile phase filters

Mobile phase handling systems

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N

Nanovolume fittings  
For 360 micron tubing  
For 1/32" tubing

No-Met biocompatible mobile phase filter

No-twist PEEK fitting

| Nuts          |                                                        |
|---------------|--------------------------------------------------------|
| High pressure | 1/4-28 nut, ferrule, and bushing                       |
|               | PEEK, for double ferrule                               |
|               | PEEK, for single ferrule                               |
|               | Stainless steel, for Valco and Rheodyne designs        |
| Low pressure  | PPS hex-head nut for flangeless or flanged connections |

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O



Open end wrenches

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## P

|                                                 |                        |
|-------------------------------------------------|------------------------|
| PEEK                                            |                        |
| Adapters, high pressure                         |                        |
| Filters, high pressure                          |                        |
| Columns                                         |                        |
| Frits, PEEK-encased                             |                        |
| Guard columns                                   |                        |
| High pressure one-piece fittings                | Fingertight            |
|                                                 | Hex-head               |
|                                                 | No-twist               |
| Sample loops for Cheminert, Rheodyne, and Valco |                        |
| Starter kit (fittings and tubing)               |                        |
| Tees and crosses                                | High pressure          |
|                                                 | Low pressure           |
| Tubing                                          | Dual layer color-coded |
|                                                 | Natural                |
|                                                 | Solid color            |
|                                                 | Striped                |
| Tubing elbows                                   |                        |
| Unions and reducing unions                      | High pressure          |
|                                                 | Low pressure           |

PFA tubing

PPS one-piece hex-head fitting

High pressure  
Low pressure

PTFE tubing

Color-coded  
Natural

Peristaltic tubing adapter set

Plier type tubing cutter

Plugs

High pressure

PEEK

Stainless

Low pressure polypropylene

Precolumn filter kit, high pressure PEEK

Top ▲

R

Reducing unions

High pressure

PEEK

Stainless

Low pressure

Top ▲

S

S51 waste caps

S61 waste caps

Safety caps

Safety products

Bottles, safety-coated

Caps

Filters

Tubing for mobile phase bottles

Sample loops

Solid color-coded tubing

FEP  
PEEK  
PTFE

SolviFlex tubing for mobile phase bottles

Spargers, low pressure

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Stainless steel                                 |                                 |
| Filters, UHPLC                                  |                                 |
| Fittings, high pressure                         | Ferrules for Valco and Rheodyne |
|                                                 | Nuts for Valco and Rheodyne     |
|                                                 | Plugs and caps                  |
|                                                 | Tees and crosses                |
|                                                 | Unions and reducing unions      |
| Frits                                           | PEEK-encased                    |
|                                                 | Unidense                        |
| Sample loops for Cheminert, Rheodyne, and Valco |                                 |
| Mobile phase filter/helium sparger              |                                 |
| Starter kit (fittings and tubing)               |                                 |
| Tubing                                          | Bulk, premium grade             |
|                                                 | Bulk, standard grade            |
|                                                 | Pre-cut                         |
|                                                 | Pre-cut flexible                |

Starter kits

Striped color-coded PEEK tubing

Sure-Guard in-line filter kit, high pressure

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T

|               |      |                          |
|---------------|------|--------------------------|
| Tees          |      |                          |
| High pressure | PEEK | Biocompatible mixing tee |

|              |      |                          |
|--------------|------|--------------------------|
|              |      | Standard                 |
|              |      | Stainless                |
| Low pressure | PEEK | Biocompatible mixing tee |
|              |      | Standard                 |

Thermo-formed polymeric tubing

|                          |
|--------------------------|
| Titanium frits           |
| PEEK-encased<br>Unidense |

|                                     |
|-------------------------------------|
| Tools                               |
| See all tools<br>Tools for fittings |

|                                                                                          |
|------------------------------------------------------------------------------------------|
| Tubing                                                                                   |
| PEEK<br>Other polymeric tubing<br>Stainless<br>SolviFlex tubing for mobile phase bottles |

Tubing accessories

Tubing clip - the LC organizer

|                                                    |
|----------------------------------------------------|
| Tubing cutters                                     |
| For polymeric tubing<br>For stainless steel tubing |

Tubing elbows for PEEK tubing

Tweezer

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U

Unidense frits

| Unions        |                                              |
|---------------|----------------------------------------------|
| High pressure | PEEK                                         |
|               | Stainless                                    |
| Low pressure  | PEEK                                         |
|               | Polyamide union body for flanged connections |

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V

ValvTool

VICI caps

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W

Waste caps

Wrenches

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### VICI Jour

VICI Jour

VICI AG International

VICI Valco Canada

VICI Precision Sampling

We offer accessories and consumables for fluid transfer in HPLC and LC, including:

- Fittings - high pressure polymeric and stainless, Nanovolume® PEEK and stainless, and low pressure
- Tubing and sample loops
- Safety products and mobile phase handling systems
- Filters and frits
- PEEK columns and guard columns

VICI Jour has been a part of VICI AG International in Switzerland since 2004. The complete Jour line of accessories and consumables for fluid transfer in HPLC and LC is available from VICI AG International, VICI Valco Canada, VICI Precision Sampling, and through our international distributor network.

Jour products include a complete line of tubing and capillaries in a wide variety of diameters and materials, high and low pressure fingertight fittings and connection accessories, column hardware, high and low pressure filters, cutters and other tools, solvent saver, backpressure regulators, and much more.



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Fax + 41 41 925-6201

#### Shipping/receiving

Parkstrasse 2  
CH-6214 Schenkon  
Switzerland

#### SEE ALSO


International distributors for  
VICI Jour

**HRM**  
a.i.t.c.  
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## VICI JOUR – CHROMATOGRAPHY & FLUID/GAS TRANSFER

Welcome to VICI Jour. Our products include a complete line of tubing and capillaries in a wide variety of diameters and materials, high and low pressure fingertight fittings and connection accessories, column hardware, high and low pressure filters, tubing cutters and other tools, backpressure regulators, and much more.

VICI Jour has been a part of VICI AG International in Switzerland since 2004. The complete Jour line of accessories and consumables for fluid transfer in HPLC and LC is available from VICI AG International and through its international distributor network.

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### Overview

#### Tubing

#### Tubing for chromatography

#### Fittings



We offer chromatography grade tubing in a variety of polymers as well as stainless steel. ODs are 360 µm, 1/32", 1/16", and 1/8".

• HP polymeric fittings

• HP stainless fittings

• Nanovolume fittings

• Low pressure fittings

#### High pressure polymeric fittings



High pressure polymeric fittings are useful in applications involving proteins, peptides, and other samples of biological origin where metal systems may interact with samples.

#### Filters

#### High pressure stainless fittings

#### Safety products



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.

#### Frits

#### Nanovolume fittings

#### PEEK columns and guard columns



Nanovolume fittings have bore sizes of 100 or 150 µm (.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.

#### Sample loops

#### Accessories, tools, and starter kits

#### Low pressure fittings



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.

#### Filters and mobile phase filters





Filters trap foreign particulates from sample and mobile phase streams before they can damage valuable columns and instruments.

### Safety products and mobile phase handling systems



VICI strives to provide customers with the best solutions for their problems, making the work better and/or easier with respect to environment and health.

### Frits



VICI Jour unidense frits offer unexcelled reproducibility and precision. PEEK-encased frits surround the frit with a ring of PEEK, reducing the actual porous surface to the ID of an HPLC column.

### PEEK columns and guard columns



PEEK columns are available with 2.1 or 4.0 mm ID. We also offer couplers, end plugs, packing devices, and other useful column-related products.

### Sample loops



Sample loops are accurately sized for each valve type.

### Accessories, tools, and starter kits



We offer accessories for fittings and tubing, as well as tools, back pressure regulators, starter kits for PEEK and stainless fittings and tubing, and the Easy-Flange flanging tool.

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### Nut, Ferrule, and Bushing for 1/4-28 Connections

Overview

One-piece

Nuts and ferrules

• Double ferrule connections

• Single ferrule connections

• 1/4-28 connections

Fingertight adapters

Plugs and caps

Unions and reducing unions

Tees and crosses




Adapters

Tools for fittings

- High pressure rating - up to 480 bar (7000 psi) with 1/16" tubing
- Available for 1/16" and 1/32" 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.



| Description         | Tubing OD      |                                                                                     | Qty/pkg | Product No.    |
|---------------------|----------------|-------------------------------------------------------------------------------------|---------|----------------|
| PPS hex-head nut    | 1/32" or 1/16" |   | 10      | JR-FPKBSS.5-10 |
| Bushing and ferrule | 1/32"          |   | 10      | JR-FPKBSS.5-10 |
|                     | 1/16"          |  | 10      | JR-FPKBSS1-10  |

#### SPECIFICATIONS

- For 1/32" and 1/16" OD tubing
- Material
  - Nut: PPS
  - Ferrule: PEEK
  - Bushing: Stainless
- Pressure rating (varies with tubing material and ID)

OD

Bar

Psi

|       |     |      |
|-------|-----|------|
| 1/32" | 175 | 2500 |
| 1/16" | 480 | 7000 |

---

#### MORE INFORMATION

- Chemical resistance
- About PEEK

---

#### SEE ALSO

- PEEK tubing for high pressure applications

---

#### TECH TIP

To make up the fitting, first place the nut on the tubing, followed by the bushing and then the ferrule, as shown in the photo.

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Adapters

Overview

One-piece

Nuts and ferrules

Fingertight adapters

Plugs and caps

Unions and reducing unions

Tees and crosses

Adapters

Tools for fittings


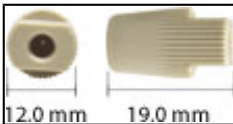




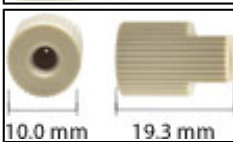
- Connect various combinations of thread types, male and female
- Includes male and female Luer adapters
- Low dead volume
- Completely inert and biocompatible



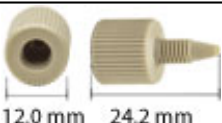


We offer male and female Luer adapters as well as adapters to connect standard LC fittings to standard LC ports.

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. |
|------------------|-----------------------|--------------------------------------------------------------------------------------|-------------|
| 1/4-28 female to | 10-32 male            |    | JR-0612     |
|                  | 10-32 female          |   | JR-062      |
|                  | M6 male               |  | JR-0622     |
|                  | Luer female           |  | JR-0625     |
|                  | Luer male             |  | JR-0626     |
| 10-32 female to  | 1/4-28 male           |  | JR-0617     |
|                  | M6 female (Pharmacia) |  | JR-5595     |

|                  |             |                                                                                                       |         |
|------------------|-------------|-------------------------------------------------------------------------------------------------------|---------|
|                  | Luer female |                      | JR-0625 |
| Waters female to | 10-32 male  |                     | JR-0611 |
| M6 female to     | 10-32 male  | <br>12.0 mm 24.2 mm | JR-5505 |

SPECIFICATIONS

- Material: PEEK
- Bore: 0.40 mm
- Pressure rating:
  - M6, 1/4-28:
    - <70 bar (1000 psi)
  - Luer: <35 bar (509 psi)
  - Varies with tubing material and ID

MORE INFORMATION

- Chemical resistance
- About PEEK

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Bulkhead Unions



#### Overview

#### One-piece

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

##### • Unions

##### • Bulkhead unions

##### • Reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- 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.

VICI Jour PEEK bulkhead 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.

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

### SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- Threads: 10-32
- Pressure rating:  
< 350 bar (5000 psi)  
(Varies with tubing material and ID)

## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### Biocompatible Mixing Tee

#### Overview

#### One-piece

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### • Standard tees and crosses

#### • Biocompatible mixing tee

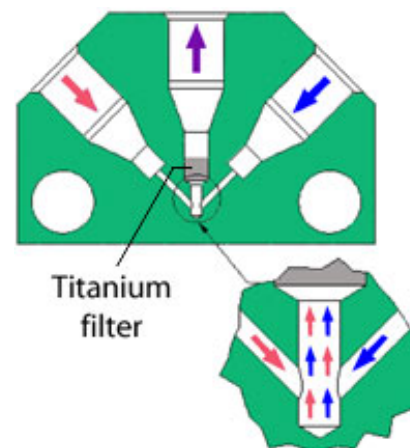
#### Adapters

#### Tools for fittings

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

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.

| Description              | Qty/pkg | Product No.  |
|--------------------------|---------|--------------|
| Mixing tee with fittings | 1       | JR-9000-0670 |



#### SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK with titanium filter element
- Porosity: 10  $\mu$ m
- Threads: 10-32
- Internal volume including frit:  $\leq 4 \mu$ l
- Body size:  
25.4 mm diameter  
9.5 mm thick

## MORE INFORMATION

- Chemical resistance
  - About PEEK
- 

## SEE ALSO

- Low pressure PEEK 1/4-28 bulkhead unions
- 

## TECH TIP

Bulkhead unions require a minimum 10 mm panel hole.

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Unions



#### Overview

#### One-piece

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

##### • Unions

##### • Bulkhead unions

##### • Reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- 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.

| Tubing OD | Description                                      | Bore (mm) | Qty/pkg | Product No. |
|-----------|--------------------------------------------------|-----------|---------|-------------|
| 1/16"     | 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 one-piece 10-32 fingertight fittings |           | 5       | JR-55021-5  |

### SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- Threads: 10-32
- Pressure rating:  
<350 bar (5000 psi)  
(Varies with tubing material and ID)

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Tubing Accessories

Overview

PEEK

Other polymers

Stainless steel

Tubing accessories

• Easy-Flange kit

• Easy-Flange combi kit

• PEEK tubing elbows

• Tubing cutters for polymeric tubing

• Clean-cut

• Guillotine

• Tubing cutters for stainless tubing

• Cutting wheel type

• Plier type

• Tubing clip the LC tubing organizer

#### Easy-Flange kit

Includes an Easy-flange flange-rolling tool, flanging discs in six sizes, a starter length of 1/16" PTFE tubing, and a carrying case.



- Product information

#### Easy-Flange Combi Kit

In addition to the contents of the Easy-Flange kit, the combi kit includes 1/8" PTFE tubing and nuts/rings for tube end fittings.



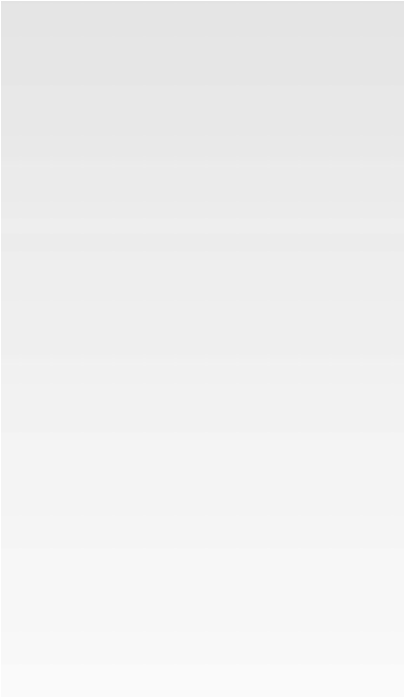
- Product information



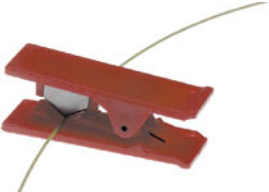


#### PEEK tubing elbows

Tubing elbows (90° and 180°) are ideal for routing 1/16" PEEK tubing through an LC system.

- Product information





| Cutters for polymeric tubing                                                                             | Cutters for stainless tubing                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Clean-Cut</div>   | <div>Cutting wheel type</div>                                                                                                                                                                                     |
| <div>Guillotine</div>  | <div>Plier type</div>                                                                                                                                                                                             |
|                                                                                                          | <div><b>Tubing clip - LC tubing organizer</b></div> <p>The tubing clip hold 1/16" and 1/8" polymer tubing precisely where you want it.</p> <ul style="list-style-type: none"><li>• Product information</li></ul>  |

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## VICI JOUR - LOW PRESSURE FITTINGS

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### Overview

#### Overview

Nuts, ferrules, and washers

Fingertight adapters

Plugs

Unions and reducing unions

Tees and crosses

Manifolds

Micro valves for LC/GC

Peristaltic tubing adapter set

Polypropylene adapters

Tools for fittings

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.



#### Nuts, ferrules, and washers for 1/4-28 flat-bottom fitting details

- PPS hex head, flanged and flangeless
- Flangeless
  - PEEK nuts
  - Color-coded polyacetal nuts
- Flanged color-coded polypropylene fingertight nuts

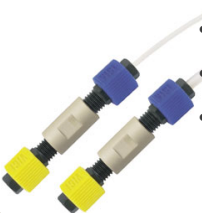




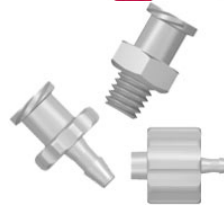
#### Fingertight adapters

Color-It fingertight adapters fit all our PEEK 1/4" hex-head nuts.

Color-Sleeve adapters are designed to be used with our black PPS nuts.

#### Plugs

- 10-32 and 1/4-28 polypropylene plugs

|                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unions and reducing unions</b> <ul style="list-style-type: none"> <li>• Union body, polyamide</li> <li>• PEEK unions</li> <li>• PEEK bulkhead unions</li> <li>• PEEK reducing unions</li> </ul>                                                                                          | <b>Tees and crosses</b> <ul style="list-style-type: none"> <li>• Tees</li> <li>• Biocompatible mixing tee</li> <li>• Crosses</li> </ul> <br><b>Manifolds</b> <ul style="list-style-type: none"> <li>• Product information</li> </ul>                                                                                                                                                                                                                                                                                          |
| <b>Micro valves for LC and GC</b>  <p>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.</p> <ul style="list-style-type: none"> <li>• Product information</li> </ul> | <b>Peristaltic tubing adapter set</b> <p>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.</p> <ul style="list-style-type: none"> <li>• Product information</li> </ul> <br><b>Polypropylene adapters</b> <p>A wide offering of adapters, including male and female Luer to barbed, 10-32, and 1/4-28 male and female, plus many other combinations.</p> <ul style="list-style-type: none"> <li>• Product information</li> </ul>  |

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**MORE INFORMATION**

- Properties of polymers



### Color-Coded Fingertight Adapters

High pressure polymeric fittings

High pressure stainless fittings

Nanovolume HPLC fittings

Low pressure fittings

Tools for fittings

These adapters work with any 1/4" hex-head nut or one-piece fitting for 1/16" tubing, low pressure or high pressure.

#### Color-It fingertight adapters

These work great with all our PEEK and stainless hex head nuts for 1/16" tubing. Available in six colors.

- Product information



#### Color-Sleeve fingertight adapters

Color-Sleeve adapters are designed to be used with our black PPS nuts and one-piece fittings. These adapters, with the added convenience of a wrench flat, are available in twelve colors.

- Product information



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## VICI JOUR - LOW PRESSURE FITTINGS

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### Polypropylene Adapters

#### Overview

Nuts, ferrules, and washers

Fingertight adapters

Plugs

Unions and reducing unions

Tees and crosses

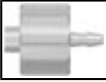

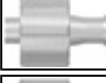
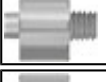
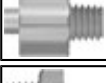


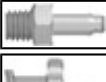


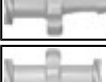


Manifolds

Micro valves for LC/GC



Peristaltic tubing adapter set

Polypropylene adapters

Tools for fittings

| Inlet |        | Outlet |        |                                                                                       | Qty/pkg | Product No. |
|-------|--------|--------|--------|---------------------------------------------------------------------------------------|---------|-------------|
| Male  | Luer   | Barbed | 1/16"  |    | 10      | JR-070211   |
|       |        |        | 3/32"  |    | 10      | JR-070212   |
|       |        |        | 1/8"   |    | 10      | JR-070213   |
|       |        | Male   | 10-32  |    | 10      | JR-070224   |
|       |        |        | 1/4-28 |    | 10      | JR-070225   |
|       |        | Barbed | 1/16"  |   | 10      | JR-071123   |
|       | 1/4-28 |        | 1/8"   |  | 10      | JR-070323   |
|       | 10-32  | Barbed | 1/16"  |  | 10      | JR-071124   |
|       |        |        | 1/8"   |  | 10      | JR-070324   |
|       | Female | Barbed | 1/16"  |  | 10      | JR-070111   |
|       |        |        | 3/32"  |  | 10      | JR-070112   |
|       |        |        | 1/8"   |  | 10      | JR-070113   |
|       |        | Female | Luer   |  | 10      | JR-070101   |
|       |        |        |        |                                                                                       |         |             |



|  |  |      |        |                                                                                     |    |           |
|--|--|------|--------|-------------------------------------------------------------------------------------|----|-----------|
|  |  | Male | 10-32  |   | 10 | JR-070124 |
|  |  |      | 1/4-28 |  | 10 | JR-070123 |

SPECIFICATIONS

- Material: Polypropylene

SEE ALSO

- High pressure PEEK adapters
- Low pressure plugs

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Air Inlet Valves

#### Overview

#### Caps

#### VICI safety filters

- Air inlet valve
- Air outlet valve
- Exhaust filter

#### Bottles

#### SolviFlex

- No evaporation of volatile compounds into lab air
- Better composition stability of the mobile phases
- Less shift of retention times
- No bacterial contamination
- Fit any VICI cap or VICI safety cap

The air inlet valve has a check valve which blocks vapors of the solution in a bottle, preventing the vapors from escaping into the lab. The mobile phase composition remains stable, resulting in constant retention times.




The check valve regulates the pressure when the negative pressure reaches 1.5 psi or 0.1 bar. This small negative pressure prevents evaporation of the liquid (lower vapor pressure) and still guarantees the stability of the flow rate. A negative pressure which is too high can influence the aspiration of a constant flow.

The 0.2 µm cellulose filter keeps your liquid free of bacteria and dust particles.

Air inlet valves fit on any VICI safety cap or VICI cap.



#### Air inlet valve

| Description       |                                                                                      | Product No. |
|-------------------|--------------------------------------------------------------------------------------|-------------|
| With 4 mm filter  |  | JR-S-20003  |
| With 15 mm filter |  | JR-S-20009  |
| Without filter    |  | JR-S-20006  |

#### Spare parts

| Description | Product No. |
|-------------|-------------|
|-------------|-------------|



|                              |                |            |
|------------------------------|----------------|------------|
| Replacement cellulose filter | 0.2 µm x 4 mm  | JR-S-20007 |
|                              | 0.2 µm x 15 mm | JR-S-20008 |



Top ▲

SPECIFICATIONS

- Materials:

|         |                         |
|---------|-------------------------|
| Housing | Polypropylene           |
| Filter  | Cellulose               |
| O-ring  | NBR (not a wetted part) |

- Connections:

|             |              |
|-------------|--------------|
| 1/4-28      | Valve to cap |
| Female Luer | Filter       |

SEE ALSO

- Safety caps
- VICI caps

TECH TIPS

- The air inlet valve is not suitable when helium sparging is used.
- We recommend that the safety air inlet valve be replaced every 6-7 months to guarantee correct operation of the check valve. The lifetime of the check valve and the filter depend on the intensity of use and the quality of the ambient air.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Air Outlet Filter

Overview

Caps

VICI safety filters

- Air inlet valve
- Air outlet valve
- Exhaust filter

Bottles

SolviFlex

The VICI safety air outlet filter regulates the pressure during helium sparging.

Air outlet filters fit on any VICI safety cap or VICI cap.

| Description              | Product No. |
|--------------------------|-------------|
| Safety air outlet filter | JR-S-20004  |



## SPECIFICATIONS

- Materials:

|         |                         |
|---------|-------------------------|
| Housing | Polypropylene           |
| Filter  | Cellulose               |
| O-ring  | NBR (not a wetted part) |

- Connections:

|             |              |
|-------------|--------------|
| 1/4-28      | Valve to cap |
| Female Luer | Filter       |

## SEE ALSO

- Safety caps
- VICI caps

## TECH TIPS

- The air inlet valve is not suitable when helium sparging is used.
- We recommend that the safety air outlet filter be replaced every 6-7 months to guarantee correct operation of the check valve. The lifetime of the check valve and the filter depend on the intensity of use and the quality of the ambient air.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps B53 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps
- B53
- B83
- GLS80
- DIN60
- S51
- S61

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fits all bottles or canisters with B53 thread
- Prevent evaporation of volatile compounds
- 4 ports
- 1/2-20 port for 1/4" OD tubing available
- Port for angled, barbed adapter available

B53 caps seal the bottle/cansiter with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Three ports can fit 1/8" and 1/16" OD tubing, while one port is suitable for 1/4" OD tubing. Unused ports should be closed with plugs.

A bottom-sealing barbed adapter to connect 4, 6, or 8 mm ID tubing can be ordered separately.

Includes:

- 1 cap
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1 set: 1/4" nut/ferrule
- 2 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 plug, 1/4" (1/2-20), where noted in product number chart






#### B53 Waste cap

| No. of ports | Includes                  | Product No. |
|--------------|---------------------------|-------------|
| 4            | 1/4" plug                 | JR-S-15303  |
|              | Thread for barbed adapter | JR-S-15313  |

#### Spare parts

| Description                   |    |                    | Qty/<br>pkg | Product No. |
|-------------------------------|----|--------------------|-------------|-------------|
| Barbed adapter, 1/2-20 thread | PA | For 4 mm ID tubing | 1           | JR-S-40104  |
|                               |    | For 6 mm ID tubing | 1           | JR-S-40106  |

|                                              |       |                                                                                     |    |                |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------|----|----------------|
|                                              |       | For 8 mm ID tubing                                                                  | 1  | JR-S-40108     |
| 1/4-28 flangeless nuts                       | PPS   | For 1/16" OD tubing                                                                 | 10 | JR-55070-10    |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-55071-10    |
| Inverted ferrules                            | ETFE  | For 1/16" OD tubing                                                                 | 10 | JR-041-10      |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-051-10      |
| 1/4-28 plug                                  | PEEK  |  | 1  | JR-409         |
|                                              | PP    |  | 1  | JR-201999      |
| 1/2-20 nut                                   | POM   | For 1/4" OD tubing                                                                  | 1  | JR-CFL-4D      |
| Collapsible ferrule                          | CTFE  | For 1/4" OD tubing                                                                  | 1  | JR-CFL-CB4KF-S |
| 1/2-20 plug                                  | PTFE  |                                                                                     | 1  | JR-S-400007    |
| Barbed hose adapter,<br>1/8" ID tubing       | PA/PP |  | 1  | JR-075013      |
| Color-Sleeve adapters,<br>12 colors (2 each) | PP    | Color Sleeve adapters                                                               | 24 | JR-5808X-24    |

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## SPECIFICATIONS

- Connections:  
1/4-28, 1/2-20
- Materials:

|                |               |
|----------------|---------------|
| Closure        | Polypropylene |
| Insert         | PTFE          |
| O-ring         | NBR           |
| Nuts           | PPS/POM       |
| Ferrules       | ETFE/CTFE     |
| Plug           | PTFE          |
| Barbed adapter | PA/PP         |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTES

- One port must be reserved for the exhaust filter or the air inlet valve.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps B83 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps
- B53
- B83
- GLS80
- DIN60
- S51
- S61

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fits all bottles or canisters with B83 thread
- Prevent evaporation of volatile compounds
- 5 ports
- 1/2-20 port for 1/4" OD tubing available
- Port for angled, barbed adapter available

B83 caps seal the bottle/cansiter with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Three ports can fit 1/8" and 1/16" OD tubing, while one port is suitable for 1/4" OD tubing. Unused ports should be closed with plugs.

A bottom-sealing barbed adapter to connect 4, 6, or 8 mm ID tubing can be ordered separately.

#### Includes:

- 1 cap
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1 set: 1/4" nut/ferrule
- 3 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 plug, 1/4" (1/2-20), where noted in product number chart






#### B83 Waste cap

| No. of ports | Includes                  | Product No. |
|--------------|---------------------------|-------------|
| 5            | 1/4" plug                 | JR-S-18304  |
|              | Thread for barbed adapter | JR-S-18314  |

#### Spare parts

| Description | Qty/<br>pkg | Product No. |
|-------------|-------------|-------------|
|             |             |             |



|                                              |       |                                                                                     |    |                |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------|----|----------------|
| Barbed adapter, 1/2-20 thread                | PA    | For 4 mm ID tubing                                                                  | 1  | JR-S-40104     |
|                                              |       | For 6 mm ID tubing                                                                  | 1  | JR-S-40106     |
|                                              |       | For 8 mm ID tubing                                                                  | 1  | JR-S-40108     |
| 1/4-28 flangeless nuts                       | PPS   | For 1/16" OD tubing                                                                 | 10 | JR-55070-10    |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-55071-10    |
| Inverted ferrules                            | ETFE  | For 1/16" OD tubing                                                                 | 10 | JR-041-10      |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-051-10      |
| 1/4-28 plug                                  | PEEK  |  | 1  | JR-409         |
|                                              | PP    |  | 1  | JR-201999      |
| 1/2-20 nut                                   | POM   | For 1/4" OD tubing                                                                  | 1  | JR-CFL-4D      |
| Collapsible ferrule                          | CTFE  | For 1/4" OD tubing                                                                  | 1  | JR-CFL-CB4KF-S |
| 1/2-20 plug                                  | PTFE  |                                                                                     | 1  | JR-S-400007    |
| Barbed hose adapter,<br>1/8" ID tubing       | PA/PP |  | 1  | JR-075013      |
| Color-Sleeve adapters,<br>12 colors (2 each) | PP    | Color Sleeve adapters                                                               | 24 | JR-5808X-24    |

Top ▲

## SPECIFICATIONS

- Connections:  
1/4-28, 1/2-20
- Materials:

|                |               |
|----------------|---------------|
| Closure        | Polypropylene |
| Insert         | PTFE          |
| O-ring         | NBR           |
| Nuts           | PPS/POM       |
| Ferrules       | ETFE/CTFE     |
| Plug           | PTFE          |
| Barbed adapter | PA/PP         |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTES

- One port must be reserved for the exhaust filter or the air inlet valve.

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Back-Pressure Regulator

[Overview](#)
[Accessories for tubing](#)
[Accessories for fittings](#)
[Back-pressure regulators](#)
[Tools](#)
[Starter kits](#)

- Improves baseline stability by preventing bubble formation in the flow cell
- Adjust back-pressure without disconnecting anything
- Completely biocompatible fluid path, with low dead volume
- Easy mount with 17 mm panel hole

Even properly degassed mobile phases may contain some dissolved gases that can release bubbles in the detector flow cell resulting in baseline noise and drift. The VICI-Jour back-pressure regulator provides a quick and convenient way to improve the stability of detector baseline by providing a constant back-pressure on the flow cell, which stops the release of dissolved gases from the mobile phase.

A spring-loaded diaphragm provides the force that generates the back-pressure. Spring tension may be adjusted using the back-pressure adjustment screw on the top of the regulator to vary the backpressure without disconnecting any lines.

Because of the unique design, the backpressure regulator has a very small internal volume. The peak shape is not affected when the regulator is installed between two detectors in a multi-detector system, or between a detector and a fraction collector or fraction collector system. Typically, 90% or more of a given component's efficiency will be retained upon passing through the regulator.



| Description         | Product No. |
|---------------------|-------------|
| Ferrule removal kit | JR-FRK1     |

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- Tolerances:  
±0.05 mm (.002")
  - Pressure rating:  
<350 bar (5000 psi)  
(Varies with tubing material  
and ID)
- 

#### MORE INFORMATION

- Chemical resistance
  - About PEEK
- 

#### SEE ALSO

- Low pressure mixing tees

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## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### In-Line Biocompatible Guard Column

#### Overview

#### PEEK columns

#### In-line biocompatible guard column

#### Column couplers and plugs

#### Packing kits

- Biocompatible
- Easy to fill
- Packing device for self-packing available

The VICI Jour In-Line PEEK Guard Column System extends the life of valuable analytical columns by trapping contaminants from the sample and mobile phase, thereby preventing loss of retention.

Only PEEK and Titanium contact the mobile phase and sample. This system is ideal for use with proteins or other biopolymers that may be contaminated or absorbed by steel surfaces. VICI Jour guard columns can be easily dry packed or slurry packed. Guard columns may be changed in minutes without the use of tools - all connections may be made by hand.

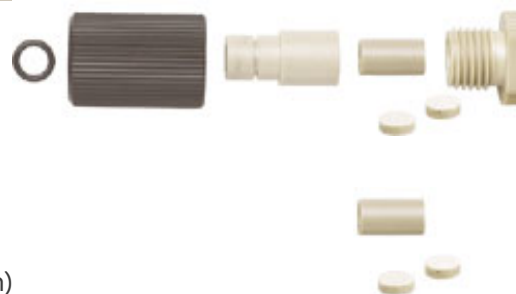


Guard column system includes:

- Guard column cartridge
- 2 Titanium frits, PEEK-encased
- Housing
- O-ring

Guard column cartridge includes:


- Guard column cartridge
- 2 Titanium frits, PEEK-encased (2 µm or 5 µm)



| Description                  |  | Product No. |             |
|------------------------------|--|-------------|-------------|
| Guard column system          |  | 2 µm        | JR-68252T12 |
|                              |  | 5 µm        | JR-68252T1  |
| Guard cartridge with 2 frits |  | 2 µm        | JR-68242T12 |
|                              |  | 5 µm        | JR-68242T1  |

#### Spare parts

| Description                |      | Qty/pkg | Product No.        |
|----------------------------|------|---------|--------------------|
| Replacement frit, Titanium | 2 µm | 1       | JR-F-197-062-2TINC |

|              |                                                                                  |      |   |                  |
|--------------|----------------------------------------------------------------------------------|------|---|------------------|
|              |  | 5 µm | 1 | JR-F-197-062-2T1 |
| Packing seal |                                                                                  |      | 1 | JR-9             |

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SPECIFICATIONS

- Materials:  
PEEK, Titanium
- Tolerances:  
±0.05 mm (.002")
- Pressure rating:  
<350 bar (<5000 psi)

TECH TIP

- Our **packing kit** is a "ready-to-use" tool to pack our PEEK guard cartridges. Every kit consists of the needed slurry reservoir, packing adapter, and packing seals.

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### Last Drop Biocompatible Glass Mobile Phase Filters - Low Pressure

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges
- Mobile phase filters
- Economy Last Drop
- Last Drop
- Last Drop biocompatible glass filter
- No-Met biocompatible
- Filter-spargers

- The solution for biocompatibility and high flowrates
- Easy-push tubing connection

Because it has a ceramic or glass frit, the flowrate can be much higher with this filter than with PTFE mobile phase filters. The glass foot allows withdrawal of nearly all of the mobile phase - less than 2% is left in the bottle.


Includes 1/8" tubing connector.



| Frit material | Pore size | Maximum flow rate * | Product No.   |
|---------------|-----------|---------------------|---------------|
| Ceramic       | 2 µm      | 30 ml/min           | JR-9000-0520G |
| Glass         | 10-16 µm  | 50 ml/min           | JR-9000-0526G |
|               | 14-100 µm | 200 ml/min          | JR-9000-0528G |

\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

#### Replacement connectors

| For tubing |                                                                                     | Size    | Qty/pkg | Product No.    |
|------------|-------------------------------------------------------------------------------------|---------|---------|----------------|
| 1/8" OD    |  | 6.35 mm | 1       | JR-9000-0520GC |
|            |                                                                                     | 6.8 mm  | 1       | JR-9000-0525GC |

#### SPECIFICATIONS

- Materials:

|      |               |
|------|---------------|
| Body | Glass         |
| Frit | Ceramic/glass |

- For use with 1/8" OD

## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### No-Met Biocompatible Mobile Phase Filters - Low Pressure

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges
- Mobile phase filters
- Economy Last Drop
- Last Drop
- Last Drop biocompatible glass filter
- No-Met biocompatible
- Filter-spargers

- Very competitively priced
- Inert and biocompatible
- Replacement filters
- Also recommended for IC

Stainless steel in the flowpath is not acceptable in a growing number of applications involving the separation of biomolecules. High salt buffers can corrode stainless steel, and the metal ions released from metallic filters may contaminate or otherwise react with the biomolecules of interest.

The No-Met polyethylene filter is designed for these applications, with inert polymeric fittings for 1/8" tubing and a 20 µm filter effectively eliminating metal contamination from the fluid path. Use them for IC and biochromatography applications.

No-Met filters can be used at flow rates up to 500 ml/min, measured with methanol/water (1:1), ultrasonically degassed. Flow rates can vary with solvent and tubing ID.

The economy version can easily be slipped over 1/8" OD tubing, with no fitting required.



| Connection                 | Filter material | Pore size | Maximum flowrate * | Product No. |
|----------------------------|-----------------|-----------|--------------------|-------------|
| 1/4-28 nut and ferrule     | PTFE            | 5 µm      | 2.2 ml/min         | JR-32171    |
|                            | Polyethylene    | <20 µm    | 500 ml/min         | JR-32178    |
| Economy slip-on connection | Polyethylene    | 5 µm      | 300 ml/min         | JR-32174    |

#### Replacement element

| Filter material | Pore size | Maximum flowrate * | Product No. |
|-----------------|-----------|--------------------|-------------|
|-----------------|-----------|--------------------|-------------|





|              |        |            |          |
|--------------|--------|------------|----------|
| PTFE         | 5 µm   | 2.2 ml/min | JR-32172 |
| Polyethylene | <20 µm | 500 ml/min | JR-32179 |

\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

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## SPECIFICATIONS

- Materials:

|         |                   |
|---------|-------------------|
| Body    | Polyethylene/PTFE |
| Adapter | PEEK              |
| Fitting | PEEK              |
| Ferrule | ETFE              |

- For use with 1/8" OD tubing

## TECH TIP

- Because they are hydrophobic, No-Met filters may initially require some priming with methanol or acetonitrile.
- Connect the filter with 1/8" OD/ 1.59 mm OD tubing:
  - PFA tubing
  - PTFE tubing

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety-Coated Glass Bottles

#### Overview

#### Caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Special design for helium sparging of LC mobile phases
- Safety coating to minimize risk of injury
- Available in 0.25, 0.5, 1 and 2 L sizes

These glass bottles with GL45 screw threading are made of chemical resistant Borosilicate 3.3 and are coated on the outside with a layer of sturdy polymer, decreasing the chances of breakage if the bottle is dropped. Even if the bottle breaks, glass fragments will be kept within the polymer coating. Solvents will be kept within the coating for a short while. The coating also protects solvents against UV light up to 385 nm.

These safety-coated glass bottles cannot be autoclaved.

Bottles include a solid cap.



| Bottle size | Product No.  |
|-------------|--------------|
| 0.25 L      | JR-9000-0011 |
| 0.5 L       | JR-9000-0012 |
| 1 L         | JR-9000-0005 |
| 2 L         | JR-9000-0010 |

### SPECIFICATIONS

- Materials:

|              |                        |
|--------------|------------------------|
| Bottle       | Borosilicate 3.3 glass |
| Cap          | Polypropylene          |
| Pouring ring | Polypropylene          |

- Pressure rating:  
0.8 bar (11.6 psi)

---

## SEE ALSO

- Safety caps
  - Safety cap kit
  - VICI caps
  - VICI cap kit
- 

## NOTES

- The bottles are not suitable to be stressed with pressures above 0.8 bar (11.6 psi), but only for continuous helium sparging.
- The safety coating is not intended to replace safe working conditions and precautions in laboratories.

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## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Bulkhead Unions

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

• Union body, polyamide

• PEEK unions

• PEEK bulkhead unions

• PEEK reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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

These unions, designed to be mounted through an instrument panel or on a bracket, 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.

Bulkhead unions are sold complete with fittings, and include:

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



#### PEEK bulkhead unions

| Tubing OD | Bore (mm) | Product No. |
|-----------|-----------|-------------|
| 1/16"     | 0.75      | JR-CBUMPK   |
| 1/8"      | 1.5       | JR-CBULPK   |

#### Spare parts

| Description            | Tubing OD | Qty/pkg | Product No. |
|------------------------|-----------|---------|-------------|
| PPS flangeless nuts    | 1/16"     | 10      | JR-55070-10 |
|                        | 1/8"      | 10      | JR-55071-10 |
| Inverted ETFE ferrules | 1/16"     | 10      | JR-041-10   |
|                        | 1/8"      | 10      | JR-051-10   |

#### SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|          |      |
|----------|------|
| Body     | PEEK |
| Nuts     | PPS  |
| Ferrules | ETFE |

- 1/4-28 threads
- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- High pressure PEEK bulkhead unions
- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Caps

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kit
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

#### Safety caps

Safety caps include stopcocks to easily cut off the liquid stream, and colored fittings to identify the different streams.

- DIN50 threads
- GL45 threads



#### Safety cap kit

GL45 safety caps plus 1L or 2L safety bottle, PFA tubing, and a No-Met mobile phase filter.

- Product information

#### VICI caps

Bottle caps with 2, 3, and 4 color-coded ports. The GL45 version also offers 6 and 7 port options.

- DIN50 threads
- GL38 threads
- GL45 threads



#### VICI cap kit

GL45 VICI caps plus 1L or 2L safety bottle, PFA tubing, and a No-Met mobile phase filter.

- Product information

#### Eco caps and Eco cap kits

The Eco-Cap is made of ETFE insert with polyethylene collar and has three holes for tubing insertion. The Eco-Cap has no threading on the inside of the tubing ports - tubing can easily be inserted.



- Product information

## Waste caps

Versions offer a port for angled, barbed hose adapter, or a 1/2-20 port for 1/4" OD tubing. Three ports fit 1/8" or 1/16" tubing.

- B53 threads
- B83 threads
- GLS80 threads
- DIN60 threads
- S51 threads
- S61 threads



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### Plugs and Caps

Overview

One-piece

Nuts and ferrules

Fingertight adapters

Plugs and caps

Unions and reducing unions

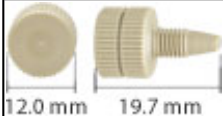
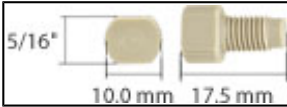
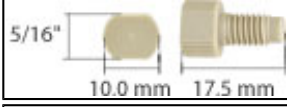
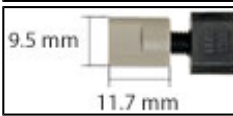

Tees and crosses

Adapters

Tools for fittings

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



| Description | Thread size |                                                                                      | Qty/pkg | Product No. |
|-------------|-------------|--------------------------------------------------------------------------------------|---------|-------------|
| Plugs       | 6-40        |                                                                                      | 1       | JR-ZP.5FPK  |
|             | 10-32       |    | 1       | JR-408      |
|             | 1/4-28      |   | 1       | JR-409      |
|             | M6          |  | 1       | JR-410      |
| Caps        | 6-40        |                                                                                      | 1       | JR-ZC.5FPK  |
|             | 10-32       |  | 1       | JR-ZC1PK    |
|             | 1/4-28      |  | 1       | JR-CCPK-1   |



## SPECIFICATIONS

- Material: PEEK
- Pressure rating:  
<350 bar (5000 psi)  
(Varies with tubing material  
and ID)

## MORE INFORMATION

- Chemical resistance
- About PEEK

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## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Stainless Plugs and Caps

Overview

Nuts

Ferrules

Plugs and caps

Unions and reducing unions

Tees and crosses

Tools for fittings

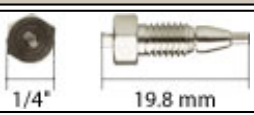
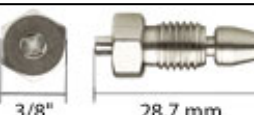


#### Plugs

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.

#### Caps

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.



| Description |       |                                                                                     | Qty/pkg | Product No. |
|-------------|-------|-------------------------------------------------------------------------------------|---------|-------------|
| Plugs       | 1/16" |    | 1       | JR-ZP1      |
|             | 1/8"  |   | 1       | JR-ZP2      |
| Caps        | 1/16" |  | 1       | JR-ZC1      |
|             | 1/8"  |  | 1       | JR-ZC2      |

## SPECIFICATIONS

- For 1/16" and 1/8" fittings
- Material:

|            |             |
|------------|-------------|
| 1/16" plug | Type 316 SS |
| 1/8 plug   | Type 303 SS |
| Caps       | Type 303 SS |

- Threads:

|       |         |
|-------|---------|
| 1/16" | 10-32   |
| 1/8"  | 5/16-24 |

## MORE INFORMATION

- About stainless steel

## SEE ALSO

- ValvTool for tightening  
hex-head fittings
- Open end wrench

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### ChromBox Kit

#### Overview

#### Accessories for fubing

#### Accessories for tittings

#### Back-pressure regulators

#### Tools

#### Starter kits

• Easy-Flange combi

• PEEK

• Stainless

• PEEK and stainless

#### Includes

- PEEK, PTFE, and stainless tubing
- PEEK and stainless nuts, ferrules, and unions
- Tubing cutters and wrenches
- More accessories, all in a convenient carrying case

The ChromBox is an all-purpose analytical spare parts kit for all our customers using HPLC. It contains the most often used spare parts made both of high quality Type 316L SS as well as PEEK and PTFE.

All boxed together for a very competitive price!



| Description  |               |                                | Qty. | Product No. |
|--------------|---------------|--------------------------------|------|-------------|
| ChromBox Kit |               |                                | 1    | JR-34N      |
| Includes:    | PEEK fittings | One-piece 10-32 fittings       | 5    | JR-5502-5   |
|              |               | Fingertight 10-32 nuts         | 5    | JR-5580-5   |
|              |               | Long hex-head 10-32 nuts       | 5    | JR-5510-5   |
|              |               | 1/16" double ferrules          | 10   | JR-5004-10  |
|              |               | Union, 0.25 mm bore, body only | 1    | JR-051      |
|              | SS fittings   | 13 mm long 10-32 nuts          | 5    | JR-MZN1-5   |
|              |               | 19 mm long 10-32 nuts          | 5    | JR-LZN1-5   |

|             |                                         |   |               |
|-------------|-----------------------------------------|---|---------------|
|             | 1/16" ferrules                          | 5 | JR-ZF1-5      |
|             | Union, 0.50 mm bore, body only          | 1 | JR-ZU1CS6     |
| PEEK tubing | 1/16" x 0.25 mm ID x 3 m, blue stripe   | 1 | JR-T-6001-M3  |
|             | 1/16" x 0.50 mm ID x 3 m, orange stripe | 1 | JR-T-6002-M3  |
| PTFE tubing | 1/8" x 1/16" ID x 3 m                   | 1 | JR-T-6807-M3  |
| SS tubing   | 1/16" x 0.25 mm x 3 m                   | 1 | JR-TSS.510-M3 |
|             | 1/16" x 0.50 mm ID x 3 m                | 1 | JR-TSS.520-M3 |
| Filters     | PEEK in-line                            | 1 | JR-68253      |
|             | Stainless Last Drop, 2 µm               | 1 | JR-9000-0530  |
| Accessories | Tubing elbow, 90°                       | 1 | JR-357090     |
|             | Tubing elbow, 180°                      | 1 | JR-357180     |
|             | Tubing clip                             | 2 | JR-9001       |
| Tools       | Clean-Cut polymeric tubing cutter       | 1 | JR-797        |
|             | Plier style SS tubing cutter            | 1 | JR-796        |
|             | ValvTool 1/4" x 5/16" wrench            | 1 | JR-800        |
|             | 1/4" x 5/16" open end wrench            | 1 | JR-804        |
|             | Deburring file                          | 1 | JR-802        |
|             | Tweezer                                 | 1 | JR-806        |
|             |                                         |   |               |

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Clean-Cut Tubing Cutter

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

• Easy-Flange kit

• Easy-Flange combi kit

• PEEK tubing elbows

• Tubing cutters for polymeric tubing

• Clean-cut

• Guillotine

• Tubing cutters for stainless tubing

• Cutting wheel type

• Plier type

• Tubing clip the LC tubing organizer

- Cuts PEEK, PTFE, ETFE, and other polymeric tubing
- No distortion to OD or ID
- Ideal for the most demanding LC applications
- Safety lock secures the blade

Right angles and clean cuts are essential in LC to avoid leaks and dead volume. This handy tool makes it easy to get burr-free, perpendicular ends on polymeric tubing without distorting the outside diameter and/or closing the inside diameter of the tubing.

It is designed to cut PTFE, ETFE and polymers in general and PEEK capillary tubing in particular. The compact design and unique safety locking mechanism allow every chromatographer to keep one in their pocket.



| Description             | Product No. |
|-------------------------|-------------|
| Clean-Cut tubing cutter | JR-797      |
| Replacement blade       | JR-798      |

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### Color-It Fingertight Adapters

High pressure polymeric fittings

High pressure stainless fittings

Nanovolume HPLC fittings

Low pressure fittings

Tools for fittings

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

Color-It snap-on fingertight adapters are used with for 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 | 2 each  | JR-55016-12 |

### SPECIFICATIONS

- For 1/4" hex-head nuts
- Material: Polypropylene

### SEE ALSO

- Color-Sleeve adapters for PPS nuts



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### Color-Sleeve Fingertight Adapters

High pressure polymeric fittings

High pressure stainless fittings



Nanovolume HPLC fittings

Low pressure fittings

Tools for fittings

- Designed for our PPS fittings for 1/16" tubing, low and high pressure
- 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-58080-5  |
|           |                                                                                     | 10      | JR-58080-10 |
| White     |    | 5       | JR-58081-5  |
|           |                                                                                     | 10      | JR-58081-10 |
| Dark grey |   | 5       | JR-58082-5  |
|           |                                                                                     | 10      | JR-58082-10 |
| Black     |  | 5       | JR-58083-5  |
|           |                                                                                     | 10      | JR-58083-10 |
| Lavender  |  | 5       | JR-58084-5  |
|           |                                                                                     | 10      | JR-58084-10 |
| Red       |  | 5       | JR-58085-5  |
|           |                                                                                     | 10      | JR-58085-10 |
| Yellow    |  | 5       | JR-58086-5  |
|           |                                                                                     | 10      | JR-58086-10 |
| Orange    |  | 5       | JR-58087-5  |
|           |                                                                                     | 10      | JR-58087-10 |



|          |                                                                                   |        |             |
|----------|-----------------------------------------------------------------------------------|--------|-------------|
| Brown    |   | 5      | JR-58088-5  |
|          |                                                                                   | 10     | JR-58088-10 |
| Green    |  | 5      | JR-58089-5  |
|          |                                                                                   | 10     | JR-58089-10 |
| Blue     |  | 5      | JR-58090-5  |
|          |                                                                                   | 10     | JR-58090-10 |
| Purple   |  | 5      | JR-58091-5  |
|          |                                                                                   | 10     | JR-58091-10 |
| Assorted | All 12 colors                                                                     | 2 each | JR-5808X-24 |
|          | Blue, red, green, yellow, black, white                                            | 2 each | JR-5808X-24 |

**SPECIFICATIONS**

- For 1/4" hex-head nuts
- Material: Polypropylene

**SEE ALSO**

- Color-It adapters for PEEK and SS hex nuts



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK One-Piece Fingertight Fittings - Color-Coded

#### Overview

#### One-piece

- PPS hex-head fittings
- PEEK fingertight
- Color-coded
- Natural
- PEEK hex-head
- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

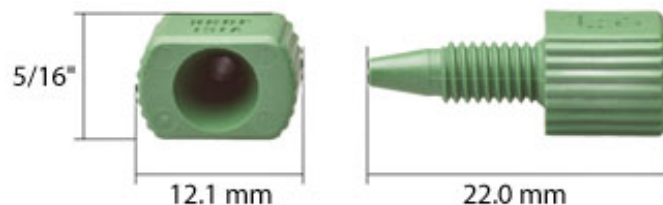
#### Tees and crosses

#### Adapters

#### Tools for fittings

- Fingertight up to 350 bar (5000 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.



| Color   | Qty/pkg | Product No. |
|---------|---------|-------------|
| Natural | 5       | JR-55020-5  |
| Black   | 5       | JR-55021-5  |
| Red     | 5       | JR-55022-5  |
| Yellow  | 5       | JR-55023-5  |
| Blue    | 5       | JR-55024-5  |
| Green   | 5       | JR-55025-5  |

#### SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- 10-32 threads

- Tolerance:  $\pm 0.05$  mm (.002")
  - Pressure rating:  
<350 bar (5000 psi)  
(Varies with tubing material and ID)
- 

#### MORE INFORMATION

- Chemical resistance
  - About PEEK
- 

#### SEE ALSO

- 1/16" OD tubing for high pressure applications
- 

#### NOTE

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

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## VICI JOUR - LOW PRESSURE FITTINGS

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### Color-Coded Fingertight Nuts for Flanged 1/4-28 Connections

#### Overview

#### Nuts, ferrules, and washers

- PPS hex-head nuts, flangeless and flanged
- Flangeless
- PEEK nuts
- Color-coded polyacetal nuts
- Flanged color-coded fingertight nuts

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

- 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.

Select tubing OD to view product numbers:

1/16"

1/8"

Top ▲

## SPECIFICATIONS

- For 1/16" or 1/8" OD tubing
- Material: Fiberglass-reinforced polypropylene
- 1/4-28 threads
- Pressure rating:  
<30 bar (435 psi)  
(Varies with tubing material and ID)

## TECH TIP

Use our Easy-Flange kit for forming flanges on tubing



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## VICI JOUR - LOW PRESSURE FITTINGS

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### Color-Coded Nuts for Flangeless 1/4-28 Connections

#### Overview

#### Nuts, ferrules, and washers

- PPS hex-head nuts, flangeless and flanged

- Flangeless

- PEEK nuts

- Color-coded polyacetal nuts

- Flanged color-coded fingertight nuts

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

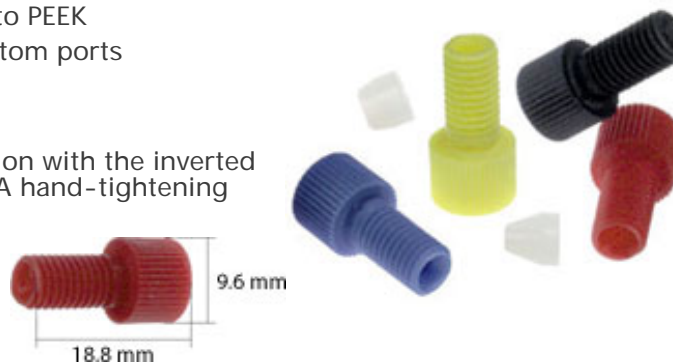
#### Polypropylene adapters

#### Tools for fittings

- 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

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.



Select tubing OD to view product numbers:

1/16"

1/8"

## SPECIFICATIONS

- For 1/16" or 1/8" OD tubing
- Material  
Nuts: Polyacetal  
Ferrules: ETFE
- 1/4-28 threads
- Pressure rating (varies with tubing material and ID)

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

## TECH TIP

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



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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### FEP Tubing - Color-Coded



Overview

PEEK

Other polymers

• ETFE

• FEP

• Color-coded

• Natural

• PFA

• PTFE

• Color-coded

• Natural

• Impermeable

• Thermo-formed

Stainless steel

Tubing accessories

FEP (FluorinatedEthylenePropylene) tubing is chemically inert to most HPLC solvents, and is recommended for low pressure applications. Typically 1/16" OD tubing holds up to 117 bar (1700 psi), and 1/8" OD holds up to 70 bar (1000 psi). Solid colors identify the tubing ID.

We recommend FEP for ion chromatography applications.

Select tubing OD to view other product numbers:

1/32"

1/16"

#### 1/32" OD solid-colored FEP tubing

| Color  | ID (mm) | Qty/pkg | Product No.    |
|--------|---------|---------|----------------|
| Black  | 0.10    | 3 m     | JR-T-6604C-M3  |
|        |         | 10 m    | JR-T-6604C-M10 |
|        |         | 25 m    | JR-T-6604C-M25 |
| Red    | 0.13    | 3 m     | JR-T-6605C-M3  |
|        |         | 10 m    | JR-T-6605C-M10 |
|        |         | 25 m    | JR-T-6605C-M25 |
| Purple | 0.15    | 3 m     | JR-T-6606C-M3  |
|        |         | 10 m    | JR-T-6606C-M10 |
|        |         | 25 m    | JR-T-6606C-M25 |
| Yellow | 0.18    | 3 m     | JR-T-6607C-M3  |
|        |         | 10 m    | JR-T-6607C-M10 |
|        |         | 25 m    | JR-T-6607C-M25 |
| Blue   | 0.25    | 3 m     | JR-T-6610C-M3  |
|        |         | 10 m    | JR-T-6610C-M10 |
|        |         | 25 m    | JR-T-6610C-M25 |
| Orange | 0.50    | 3 m     | JR-T-6620C-M3  |

|  |  |      |                |
|--|--|------|----------------|
|  |  | 10 m | JR-T-6620C-M10 |
|  |  | 25 m | JR-T-6620C-M25 |

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## SPECIFICATIONS

- Max. recommended working temp: 80°C (continuous)
- Maximum working pressure

## MORE INFORMATION

- Chemical resistance
- Polymer tubing tolerances
- Tubing ID chart: volume per length
- Maximum pressure chart: variation by ID
- About FEP

## SEE ALSO

- Clean-cut tubing cutter
- Fingertight fittings

## TECH TIP

When selecting tubing for low pressure applications, give careful consideration to gas permeability characteristics.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Dual-Layer PEEK Tubing

#### Overview

#### PEEK

- Dual layer
- Natural
- Solid color
- Striped color

#### Other polymers

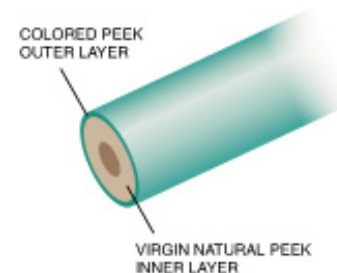
#### Stainless steel

#### Tubing accessories

- Inner layer of natural PEEK, outer layer of color-coded PEEK
- No possibility of stream coming in contact with coloring agents
- Pressure performance equivalent to single layer tubing
- 1/16" OD, IDs from 0.10 to 0.75 mm

Our Dual-Layer PEEK tubing eliminates any concern that a critical sample stream could be contaminated by pigments used to color code the tubing. It looks like any other color-coded tubing at first glance, but a closer look reveals that the pigmented layer surrounds a separate but integrally-bonded inner layer of natural PEEK.

The ID tolerance of  $\pm 0.025$  mm (.001") is equivalent to or better than that of tubing typically sold as premium grade.



| OD    | ID (mm) | Color  | bar | psi  | Qty/pkg | Product No.    |
|-------|---------|--------|-----|------|---------|----------------|
| 1/16" | 0.10    | Black  | 460 | 6700 | 3 m     | JR-TD-5804-M3  |
|       |         |        |     |      | 10 m    | JR-TD-5804-M10 |
|       | 0.13    | Red    | 420 | 6100 | 3 m     | JR-TD-6007-M3  |
|       |         |        |     |      | 10 m    | JR-TD-6007-M10 |
|       | 0.18    | Yellow | 400 | 5800 | 3 m     | JR-TD-6008-M3  |
|       |         |        |     |      | 10 m    | JR-TD-6008-M10 |
|       | 0.25    | Blue   | 386 | 5600 | 3 m     | JR-TD-6009-M3  |
|       |         |        |     |      | 10 m    | JR-TD-6009-M10 |
|       | 0.50    | Orange | 350 | 4500 | 3 m     | JR-TD-6010-M3  |
|       |         |        |     |      | 10 m    | JR-TD-6010-M10 |

|  |      |       |     |      |      |                |
|--|------|-------|-----|------|------|----------------|
|  | 0.75 | Green | 240 | 3500 | 3 m  | JR-TD-6011-M3  |
|  |      |       |     |      | 10 m | JR-TD-6011-M10 |

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## SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous)
  - Maximum working pressure
- 

## MORE INFORMATION

- Chemical resistance
  - Chemical resistance of PEEK at higher temperatures
  - Tubing ID chart: volume per length
  - Maximum pressure chart: variation by ID
  - PEEK tubing tolerances
  - About PEEK
  - Statement of RoHS compliance
- 

## SEE ALSO

- Clean-cut tubing cutter
  - PEEK fingertight fittings
  - PEEK flangeless fittings
  - PEEK tubing elbows
- 

## OPTIONS

Contact us for more info about:

- Other package sizes and tubing lengths
  - Customized ODs and IDs (30 m minimum quantity)
- 

## TRADEMARK

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Solid Color-Coded PEEK Tubing

#### Overview

#### PEEK

- Dual layer
- Natural
- Solid color
- Striped color

#### Other polymers

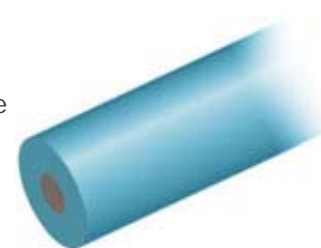
#### Stainless steel

#### Tubing accessories

Color-coding identifies the ID of your PEEK tubing each ID is coded with a different color.

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel.

The polymer surface will not leach metal ions into the eluent or extract metal-sensitive components from the sample. Note however that dichloromethane, THF, and DMSO may cause swelling in PEEK, and concentrated nitric and sulphuric acid will attack PEEK.



Select tubing OD to view other product numbers:

360 µm

1/32"

1/16"

#### 360 µm solid-colored PEEK tubing

| Color   | ID (µm) | Qty/pkg | Product No.   |
|---------|---------|---------|---------------|
| Orange  | 50      | 1 m     | JR-T-3570-M1  |
|         |         | 3 m     | JR-T-3570-M3  |
| Natural | 75      | 3 m     | JR-T-6060-M3  |
|         |         | 10 m    | JR-T-6060-M10 |
| Green   | 75      | 1 m     | JR-T-3775-M1  |
|         |         | 3 m     | JR-T-3775-M3  |
| Grey    | 100     | 1 m     | JR-T-37100-M1 |
|         |         | 3 m     | JR-T-37100-M3 |
| Red     | 125     | 1 m     | JR-T-37125-M1 |
|         |         | 3 m     | JR-T-37125-M3 |
| Black   | 150     | 1 m     | JR-T-37150-M1 |
|         |         | 3 m     | JR-T-37150-M3 |

## SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous) for 1/16" OD tubing with ID  $\leq$  0.75 mm
- Maximum working pressure

## MORE INFORMATION

- Chemical resistance
- Chemical resistance of PEEK at higher temperatures
- Tubing ID chart: volume per length
- Maximum pressure chart: variation by ID
- PEEK tubing tolerances
- About PEEK
- Statement of RoHS compliance

## TECH TIP

Dual layer PEEK tubing offers the look of solid colored tubing with no risk of sample contamination by color pigments.

## SEE ALSO

- Clean-cut tubing cutter
- PEEK fingertight fittings
- PEEK flangeless fittings
- PEEK tubing elbows

## OPTIONS

Contact us for more info  
about:

- Other package sizes and tubing lengths
  - Customized ODs and IDs (30 m minimum quantity)
- 

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Striped Color-Coded PEEK Tubing

#### Overview

#### PEEK

- Dual layer
- Natural
- Solid color
- Striped color

#### Other polymers

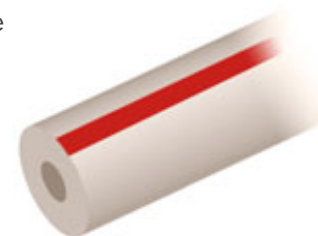
#### Stainless steel

#### Tubing accessories

Color-coding identifies the ID of your PEEK tubing each ID is coded with a different color.

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel.

The polymer surface will not leach metal ions into the eluent or extract metal-sensitive components from the sample. Note however that dichloromethane, THF, and DMSO may cause swelling in PEEK, and concentrated nitric and sulphuric acid will attack PEEK.



Select tubing OD to view other product numbers:

360 µm

1/32"

1/16"

#### 360 µm striped PEEK tubing

| Color  | ID (µm) | Qty/pkg | Product No.   |
|--------|---------|---------|---------------|
| Orange | 50      | 1 m     | JR-T-3650-M1  |
|        |         | 3 m     | JR-T-3650-M3  |
| Green  | 75      | 1 m     | JR-T-3675-M1  |
|        |         | 3 m     | JR-T-3675-M3  |
| Grey   | 100     | 1 m     | JR-T-36100-M1 |
|        |         | 3 m     | JR-T-36100-M3 |
| Red    | 125     | 1 m     | JR-T-36125-M1 |
|        |         | 3 m     | JR-T-36125-M3 |
| Black  | 150     | 1 m     | JR-T-36150-M1 |
|        |         | 3 m     | JR-T-36150-M3 |

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#### SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous) for 1/16" OD tubing with ID  $\leq$  0.75 mm
  - Maximum working pressure
- 

## MORE INFORMATION

- Chemical resistance
  - Chemical resistance of PEEK at higher temperatures
  - Tubing ID chart: volume per length
  - Maximum pressure chart: variation by ID
  - PEEK tubing tolerances
  - About PEEK
  - Statement of RoHS compliance
- 

## SEE ALSO

- Clean-cut tubing cutter
  - PEEK fingertight fittings
  - PEEK flangeless fittings
  - PEEK tubing elbows
- 

## OPTIONS

Contact us for more info about:

- Other package sizes and tubing lengths
  - Customized ODs and IDs (30 m minimum quantity)
- 

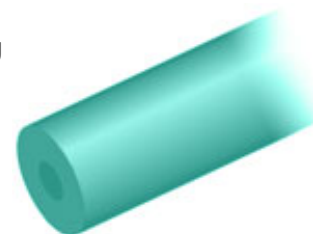
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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### PTFE Tubing - Color-Coded



#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

PTFE (polytetrafluoroethylene) tubing is chemically inert and suitable for lower pressure applications. Typically 1/16" OD tubing holds up to 62 bar (900 psi) and 1/8" up to 35 bar (500 psi). Maximum continuous operating temperature is 100°C.

Black PTFE, available in two IDs, is recommended for light sensitive applications such as enzymatic reactions, luminescent reactions, connecting to a flow cell, and radioactive HPLC.

| OD    | Color  | ID (mm) | Qty/pkg | Product No.    |
|-------|--------|---------|---------|----------------|
| 1/16" | Blue   | 0.25    | 3 m     | JR-T-4011C-M3  |
|       |        |         | 10 m    | JR-T-4011C-M10 |
|       |        |         | 25 m    | JR-T-4011C-M25 |
|       | Black  | 0.25    | 3 m     | JR-T-6808-M3   |
|       |        |         | 10 m    | JR-T-6808-M10  |
|       |        |         | 25 m    | JR-T-6808-M25  |
|       |        | 0.50    | 3 m     | JR-T-6811-M3   |
|       |        |         | 10 m    | JR-T-6811-M10  |
|       |        |         | 25 m    | JR-T-6811-M25  |
|       | Orange | 0.50    | 3 m     | JR-T-4183C-M3  |
|       |        |         | 10 m    | JR-T-4183C-M10 |
|       |        |         | 25 m    | JR-T-4183C-M25 |
|       | Green  | 0.75    | 3 m     | JR-T-4136C-M3  |
|       |        |         | 10 m    | JR-T-4136C-M10 |
|       |        |         | 25 m    | JR-T-4136C-M25 |

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### SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous)

- Maximum working pressure
- 

#### MORE INFORMATION

- Chemical resistance
  - Polymer tubing tolerances
  - Tubing ID chart: volume per length
  - Maximum pressure chart: variation by ID
  - About PTFE
- 

#### SEE ALSO

- Clean-cut tubing cutter
  - Flangeless fittings
  - Flanged fittings
- 

#### TECH TIPS

- Use PFA instead of PTFE if gas permeability is an issue.
- Use black PTFE for for light sensitive applications such as enzymatic reactions, luminescent reactions, connectioning to a flow cell, and radioactive HPLC.

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## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### One-Piece Fingertight Column Couplers

#### Overview

#### PEEK columns

#### In-line biocompatible guard column

#### Column couplers and plugs

- Column coupler, one-piece fingertight

- Column end plugs

- Column end plugs, logotype

#### Packing kits

- Self-adjusting - zero dead volume for all fitting types
- Four bore sizes
- Biocompatible

Choose from a variety of coupler IDs, indicated by the color of the sleeve.

A unique feature of this column coupler is that it adapts automatically to fit all pilot lengths - Valco, Waters, Upchurch, Rheodyne, etc. Since the tubing bottoms out in any fitting detail, added void volume is minimal.



| Color  | ID      | Product No. |
|--------|---------|-------------|
| Red    | 0.13 mm | JR-26501    |
| Yellow | 0.17 mm | JR-26501    |
| Blue   | 0.25 mm | JR-26501    |
| Orange | 0.50 mm | JR-26501    |



Coupler shown installed between two columns  
(columns not included)

### SPECIFICATIONS

- Material

|          |               |
|----------|---------------|
| Tubing   | PEEK          |
| Fittings | PEEK          |
| Sleeve   | Polypropylene |

- Threads: 10-32 male to 10-32 male

## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### Column End Plugs

#### Overview

#### PEEK columns

#### In-line biocompatible guard column

#### Column couplers and plugs

- Column coupler, one-piece fingertight

- Column end plugs

- Column end plugs, logotype

#### Packing kits

- Seal analytical columns
- One size fits all
- Fingertight, with wrench flats as well

Fingertight column end plugs fit all columns with 10-32 threads. Easy handling is guaranteed by an additional 5/16" wrench flat, which allows the plug to be loosened by a wrench if it gets stuck. The long design and threading down to the ferrule ensure safe closing of valuable columns.



| Color | Qty/pkg | Product No. |
|-------|---------|-------------|
| White | 10      | JR-4071-10  |
| Black | 10      | JR-4072-10  |
| Red   | 10      | JR-4073-10  |
| Green | 10      | JR-4074-10  |
| Blue  | 10      | JR-4075-10  |

### SPECIFICATIONS

- Material: Nylon
- Threads: 10-32
- Tolerances:  
±0.05 mm (.002")

## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### Column End Plugs Logotype

#### Overview

#### PEEK columns

#### In-line biocompatible guard column

#### Column couplers and plugs

- Column coupler, one-piece fingertight

- Column end plugs

- Column end plugs, logotype

#### Packing kits

- Seal analytical columns
- One size fits all
- Fingertight, with wrench flats
- Customizable with your logo and color (OEM version)

Ensure safe closure of valuable columns with your own customized column end plugs. Easy handling is guaranteed by the 5/16" wrench flat. Fit all columns with 10-32 thread.



| Color | Qty/pkg | Product No. |
|-------|---------|-------------|
| White | 10      | JR-4081-10  |
| Black | 10      | JR-4082-10  |
| Red   | 10      | JR-4083-10  |
| Green | 10      | JR-4084-10  |
| Blue  | 10      | JR-4085-10  |

#### SPECIFICATIONS

- Material: Nylon
- Threads: 10-32
- Tolerances:  
±0.05 mm (.002")

## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### Packing Kits

#### Overview

#### PEEK columns

#### In-line biocompatible guard column

#### Column couplers and plugs

#### Packing kits

VICI Jour column packing kits are ready-to-use tools to pack our PEEK columns and PEEK guard columns. Every kit consists of the needed slurry reservoir, packing adapter, and packing seals.

#### For 2.1 mm ID columns

| Description                      | Product No.  |
|----------------------------------|--------------|
| Packing kit                      | JR-67-250-2A |
| Replacement PEEK packing adapter | JR-67140-1A  |
| Replacement PEEK packing seal    | JR-65011     |

#### For 4.0 mm ID columns

| Description                      | Product No. |
|----------------------------------|-------------|
| Packing kit                      | JR-67-250-4 |
| Replacement PEEK packing adapter | JR-67140-2B |
| Replacement PEEK packing seal    | JR-65158    |

#### For in-line biocompatible guard columns

| Description                   | Product No. |
|-------------------------------|-------------|
| Packing kit                   | JR-27305    |
| Replacement CTFE packing seal | JR-9        |

### SPECIFICATIONS

- Pressure ratings during packing, using a VICI Jour packing kit:

| Column ID | Packing pressure   |
|-----------|--------------------|
| 2.1 mm    | 350 bar (5000 psi) |



4.0 mm

560 bar  
(8000 psi)

- See column pages for operating pressure ratings.

## SEE ALSO

- 2.1 mm ID PEEK columns
- 4.0 mm ID PEEK columns
- In-line biocompatible guard columns

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## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### PEEK Columns

Overview

PEEK columns

• 2.1 mm ID

• 4.0 mm ID

In-line biocompatible guard column

Column couplers and plugs

Packing kits

#### 2.1 mm ID columns

For narrow-bore applications, and for those when a limit amount of sample is available for analysis.

- Product information

#### 4.0 mm ID columns

Ideal for biotechnology and ion chromatography applications.

- Product information

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Tees and Crosses

#### Overview

#### One-piece

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

##### • Standard tees and crosses

##### • Biocompatible mixing tee

#### Adapters

#### Tools for fittings

- 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 risking 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.



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

## SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- Threads: 10-32
- Body size:
  - 25.0 mm diameter
  - 12.0 mm thick
- Pressure rating:
  - <350 bar (5000 psi)
  - (Varies with tubing material and ID)

## MORE INFORMATION

- Chemical resistance
- About PEEK

## SEE ALSO

- Low pressure 1/4-28 tees and crosses

## TECH TIP

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

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## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Stainless Crosses



#### Overview

#### Nuts

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

##### • Tees

##### • Crosses

#### Tools for fittings

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

VICI Stainless steel 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 give an absolute leak-free connection.

The 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.

Four nuts and ferrules ship with each tee.

| Description         | 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  |

### SPECIFICATIONS

- For 1/16" OD tubing
- Material:
- Body size:
  - 25.4 mm diameter
  - 9.5 mm thick
- Pressure rating:
  - <1375 bar (20,000 psi)
  - (Varies with tubing material and ID)

MORE INFORMATION

- About stainless steel

SEE ALSO

- Stainless steel tubing
- ValvTool for tightening hex-head fittings

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|          |                |
|----------|----------------|
| Body     | Type<br>316 SS |
| Nuts     | Type<br>303 SS |
| Ferrules | Type<br>316 SS |

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## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Crosses

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

##### • Tees

##### • Biocompatible mixing tee

##### • Crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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

VICI Jour crosses 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 0.80 mm and smaller through-holes for applications where low flowrate or low dead volume is required. Tees with 1.50 mm through-holes are preferred for high flowrate applications.

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

A cross with fittings includes:

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



### PEEK crosses

| Tubing OD | Description            | Bore (mm) | Product No. |
|-----------|------------------------|-----------|-------------|
| 1/16"     | Complete with fittings | 0.50      | JR-6039     |
|           |                        | 0.80      | JR-6040     |
|           | Body only              | 0.50      | JR-6044     |
|           |                        | 0.80      | JR-6042     |
| 1/8"      | Complete with fittings | 1.50      | JR-6041     |
|           | Body only              | 1.50      | JR-6043     |

### Spare parts

| Description         | Tubing OD | Qty/pkg | Product No. |
|---------------------|-----------|---------|-------------|
| PPS flangeless nuts | 1/16"     | 10      | JR-55070-10 |

|                        |       |    |             |
|------------------------|-------|----|-------------|
|                        | 1/8"  | 10 | JR-55071-10 |
| Inverted ETFE ferrules | 1/16" | 10 | JR-041-10   |
|                        | 1/8"  | 10 | JR-051-10   |

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## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|          |      |
|----------|------|
| Body     | PEEK |
| Nuts     | PPS  |
| Ferrules | ETFE |

- 1/4-28 threads
- Body size:  
25.0 mm diameter  
17.1 mm thick
- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- High pressure PEEK crosses
- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used



## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Stainless Steel Tubing Cutter - Cutting Wheel Type

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

#### • Easy-Flange kit

#### • Easy-Flange combi kit

#### • PEEK tubing elbows

#### • Tubing cutters for polymeric tubing

#### • Clean-cut

#### • Guillotine

#### • Tubing cutters for stainless tubing

#### • Cutting wheel type

#### • Plier type

#### • Tubing clip the LC tubing organizer

- For 1/16" and 1/8" SS tubing
- Leaves smooth, uniform cuts
- Minimal deburring and/or reaming required
- Easy replacement of the cutting wheel

This is the ideal tool for cutting 1/16" and 1/8" stainless steel tubing, leaving smooth, uniform cuts requiring a minimum of deburring and/or reaming. The easily replaced cutting wheel scores tubing, leaving cuts which allow tube-to-tube and tube-to-frit connections.



| Description                    | Product No. |
|--------------------------------|-------------|
| Tubing cutter for metal tubing | JR-792      |
| Replacement cutting wheel      | JR-793      |

SEE ALSO

- Deburring file
- Pre-cut stainless steel tubing

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#### TECH TIP

Between the sample injector, column, and detector, use our **pre-cut stainless steel tubing**, which has been electrolytically cut and steam cleaned.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Caps DIN50 Threads

#### Overview

#### Caps

- Safety caps
- DIN50
- GL45
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Built-in stopcocks for easy interruption of solvent lines
- Fit all bottles or canisters with DIN50 thread
- Prevent evaporation of volatile compounds
- 2, 3, and 4 ports available
- Stopcocks rated up to 72 psi gas at 25°C

DIN50 safety caps seal to the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Unused ports can be closed with the stopcock. All ports can handle 1/8" or 1/16" OD tubing. A bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing can be ordered separately.




#### Includes:

- 1 cap, DIN50 threads, with stopcocks
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1, 2, or 3 sets: 1/8" nut/ferrule/color-sleeve adapter
- Additional nuts and ferrules for the bottom side connections

#### Safety caps

| No. of ports | Product No. |
|--------------|-------------|
| 2            | JR-15011    |
| 3            | JR-15012    |
| 4            | JR-15013    |

## Spare parts

| Description                                  | For tubing OD                                                                      | Qty/pkg | Product No. |
|----------------------------------------------|------------------------------------------------------------------------------------|---------|-------------|
| 1/4-28 flangeless nuts, PPS                  | 1/16"                                                                              | 10      | JR-55070-10 |
|                                              | 1/8"                                                                               | 10      | JR-55071-10 |
| Inverted ferrules, ETFE                      | 1/16"                                                                              | 10      | JR-041-10   |
|                                              | 1/8"                                                                               | 10      | JR-051-10   |
| Barbed hose adapter,<br>1/8" ID tubing       |  | 1       | JR-075013   |
| Color-Sleeve adapters,<br>12 colors (2 each) | Color Sleeve adapters                                                              | 24      | JR-5808X-24 |

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## SPECIFICATIONS

- Connections: 1/4-28
- Materials:

|          |               |
|----------|---------------|
| Closure  | Polypropylene |
| Insert   | PTFE          |
| Stopcock | CTFE          |
| O-ring   | EPDM/NBR      |
| Nuts     | PPS           |
| Ferrules | ETFE          |
| Sleeves  | Polypropylene |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTE

- One port must be reserved for the exhaust filter or the air inlet valve.

## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### VICI Caps DIN50 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- DIN50
- GL38
- GL45
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fit all bottles or canisters with DIN50 thread
- Prevent evaporation of volatile compounds
- 2, 3, and 4 ports available

DIN50 safety caps seal to the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Unused ports can be closed with the stopcock. One port is suitable for 1/16" tubing. All other ports can handle 1/8" or 1/16" OD tubing. A bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing can be ordered separately.



#### Includes:




- 1 cap, DIN50 thread
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1, 2, or 3 sets: 1/8" nut/ferrule/color-sleeve adapter

#### VICI caps

| No. of ports | Product No. |
|--------------|-------------|
| 2            | JR-15001    |
| 3            | JR-15002    |
| 4            | JR-15003    |

#### Spare parts

| Description                 | Qty/pkg             | Product No. |
|-----------------------------|---------------------|-------------|
| 1/4-28 flangeless nuts, PPS | For 1/16" OD tubing | 10          |
|                             |                     | JR-55070-10 |

|                                           |               |                                                                                    |    |             |
|-------------------------------------------|---------------|------------------------------------------------------------------------------------|----|-------------|
|                                           |               | For 1/8" OD tubing                                                                 | 10 | JR-55071-10 |
| Inverted ferrules, ETFE                   |               | For 1/16" OD tubing                                                                | 10 | JR-041-10   |
|                                           |               | For 1/8" OD tubing                                                                 | 10 | JR-051-10   |
| 1/4-28 plug                               | PEEK          |   | 1  | JR-409      |
|                                           | Polypropylene |   | 1  | JR-201999   |
| Barbed hose adapter, 1/8" ID tubing       |               |  | 1  | JR-075013   |
| Color-Sleeve adapters, 12 colors (2 each) |               | <b>Color Sleeve adapters</b>                                                       | 24 | JR-5808X-24 |

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**SPECIFICATIONS**

- Connections: 1/4-28
- Materials:

|          |               |
|----------|---------------|
| Closure  | Polypropylene |
| Insert   | PTFE          |
| O-ring   | EPDM/NBR      |
| Nuts     | PPS           |
| Ferrules | ETFE          |
| Sleeves  | Polypropylene |

**MORE INFORMATION**

- Chemical resistance

**SEE ALSO**

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

**NOTE**

- One port must be reserved for the exhaust filter or the air inlet valve.

## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps DIN60 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps
- B53
- B83
- GLS80
- DIN60
- S51
- S61

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fit all bottles and canisters with DIN60 thread
- 4 ports
- 1/2-20 port for 1/4" OD tubing available
- Port for angled, barbed adapter available
- Prevent evaporation of volatile compounds

DIN60 caps seal the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Three ports can fit 1/8" and 1/16" OD tubing, while one port is suitable for 1/4" OD tubing. Unused ports should be closed with plugs.

A bottom-sealing barbed adapter to connect 4, 6, or 8 mm ID tubing can be ordered separately.

Includes:

- 1 cap, DIN60 thread
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1 set: 1/4" nut/ferrule
- 2 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 plug, 1/4" (1/2-20), where noted in product number chart






#### DIN60 Waste caps

| No. of ports | Includes                  | Product No. |
|--------------|---------------------------|-------------|
| 4            | 1/4" plug                 | JR-S-16003  |
|              | Thread for barbed adapter | JR-S-16013  |

#### Spare parts

| Description                   |    |                    | Qty/<br>pkg | Product No. |
|-------------------------------|----|--------------------|-------------|-------------|
| Barbed adapter, 1/2-20 thread | PA | For 4 mm ID tubing | 1           | JR-S-40104  |
|                               |    | For 6 mm ID tubing | 1           | JR-S-40106  |
|                               |    | For 8 mm ID tubing | 1           | JR-S-40108  |

|                                              |       |                                                                                     |    |                |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------|----|----------------|
| 1/4-28 flangeless nuts                       | PPS   | For 1/16" OD tubing                                                                 | 10 | JR-55070-10    |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-55071-10    |
| Inverted ferrules                            | ETFE  | For 1/16" OD tubing                                                                 | 10 | JR-041-10      |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-051-10      |
| 1/4-28 plug                                  | PEEK  |  | 1  | JR-409         |
|                                              | PP    |  | 1  | JR-201999      |
| 1/2-20 nut                                   | POM   | For 1/4" OD tubing                                                                  | 1  | JR-CFL-4D      |
| Collapsible ferrule                          | CTFE  | For 1/4" OD tubing                                                                  | 1  | JR-CFL-CB4KF-S |
| 1/2-20 plug                                  | PTFE  |                                                                                     | 1  | JR-S-400007    |
| Barbed hose adapter,<br>1/8" ID tubing       | PA/PP |  | 1  | JR-075013      |
| Color-Sleeve adapters,<br>12 colors (2 each) | PP    | Color Sleeve adapters                                                               | 24 | JR-5808X-24    |

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## SPECIFICATIONS

- Connections:  
1/4-28, 1/2-20
- Materials:

|                |               |
|----------------|---------------|
| Closure        | Polypropylene |
| Insert         | PTFE          |
| O-ring         | NBR           |
| Nuts           | PPS/POM       |
| Ferrules       | ETFE/CTFE     |
| Sleeves        | Polypropylene |
| Plug           | PTFE          |
| Barbed adapter | PA/PP         |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTE

- One port must be reserved for the exhaust filter or the air inlet valve.

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### File

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

• Ferrule removal kit

• File

• Hex key set

• Tweezer

• Wrenches

• ValvTool

• Tubing cutters

• For polymeric

• For stainless

Starter kits

- A handy tool for cleaning up metal tubing ends

| Description    | Product No. |
|----------------|-------------|
| Deburring file | JR-802      |



## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### ETFE Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

ETFE (ethyltrifluoroethylene) tubing is particularly suitable for HPLC, since it has a higher burst pressure as compared to PTFE. 1/16" OD x 0.25 mm ID tubing will withstand up to 186 bar (2700 psi) with water as mobile phase. However, it is important to note that when used with organic solvents, ETFE tubing may swell, reducing that maximum pressure to 70 bar (1000 psi).

This is the ideal polymer for applications with chloride salts, which typically corrode stainless steel.



| OD    | ID (mm) | Qty/pkg | Product No.  |
|-------|---------|---------|--------------|
| 1/32" | 0.25    | 3 m     | JR-T-084-M3  |
|       |         | 10 m    | JR-T-084-M10 |
|       |         | 25 m    | JR-T-084-M25 |
| 1/16" | 0.17    | 3 m     | JR-T-078-M3  |
|       |         | 10 m    | JR-T-078-M10 |
|       |         | 25 m    | JR-T-078-M10 |
|       | 0.25    | 3 m     | JR-T-080-M3  |
|       |         | 10 m    | JR-T-080-M10 |
|       |         | 25 m    | JR-T-080-M10 |
|       | 0.50    | 3 m     | JR-T-082-M3  |
|       |         | 10 m    | JR-T-082-M10 |
|       |         | 25 m    | JR-T-082-M10 |
|       | 0.75    | 3 m     | JR-T-083-M3  |
|       |         | 10 m    | JR-T-083-M10 |
|       |         | 25 m    | JR-T-083-M10 |
|       | 1.00    | 3 m     | JR-T-085-M3  |
|       |         | 10 m    | JR-T-085-M10 |
|       |         | 25 m    | JR-T-085-M10 |
| 1/8"  | 1.59    | 3 m     | JR-T-086-M3  |

|        |     |      |              |
|--------|-----|------|--------------|
|        |     | 10 m | JR-T-086-M10 |
|        |     | 25 m | JR-T-086-M25 |
| 3.0 mm | 1.0 | 1 m  | JR-T-087-M1  |
|        |     | 3 m  | JR-T-087-M3  |
| 6.0 mm | 4.0 | 1 m  | JR-T-088-M1  |
|        |     | 3 m  | JR-T-088-M3  |

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## MORE INFORMATION

- Maximum working pressure
- Chemical resistance
- Tubing ID chart: volume per length
- Tubing tolerances
- About ETFE

## SEE ALSO

- Clean-cut tubing cutter
- Fingertight fittings

## OPTIONS

Contact us for more info about:

- Other package sizes and tubing lengths
- Customized ODs and IDs (30 m minimum quantity)

## TECH TIP

When selecting tubing for low pressure applications, give careful consideration to gas permeability characteristics.

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Easy-Flange Kit

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

##### • Easy-Flange kit

##### • Easy-Flange combi kit

##### • PEEK tubing elbows

##### • Tubing cutters for polymeric tubing

##### • Clean-cut

##### • Guillotine

##### • Tubing cutters for stainless tubing

##### • Cutting wheel type

##### • Plier type

##### • Tubing clip the LC tubing organizer

- Handy tool for perfect flanges
- No heat or electricity required
- No contamination

The Easy-Flange flange-rolling tool for flanged fittings is suitable for PTFE and PTFE-like tubes with OD between 1/16" and 1/8". The tool forms the flange by applying a mechanical force and does not require electrical power.

The quality of the flange is considerably improved over other available methods, since the tubing is not stressed by heat and because the specially-designed negative conical profile of the flange-forming part yields an ideal shape for optimized sealing properties.



| Description     |                                       |                               | Product No.  |
|-----------------|---------------------------------------|-------------------------------|--------------|
| Easy-Flange Kit |                                       |                               | JR-201540    |
| Includes:       | Flanging discs with:                  | 0.5 mm SS pin for PEEK tubing | JR-202235    |
|                 |                                       | 0.8 mm polymer pin            | JR-201541    |
|                 |                                       | 0.8 mm Titanium pin           | JR-201554    |
|                 |                                       | 1.3 mm polymer pin            | JR-201538    |
|                 |                                       | 1.3 mm Titanium pin           | JR-201537    |
|                 | Clean-Cut tubing cutter               |                               | JR-797       |
|                 | Tubing, PTFE, 1/16" x 0.75 mm ID x 3m |                               | JR-T-4036-M3 |
|                 | Plastic box                           |                               | JR-201540L   |

#### Additional options

| Description                           | Product No. |
|---------------------------------------|-------------|
| Flanging disc with 1.0 mm polymer pin | JR-201662   |
| Flanging clamp pair                   | JR-201531   |

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MORE INFORMATION

- Illustration of use

SEE ALSO

- Flanged fittings
- Polymeric tubing
- Easy-Flange Combi Kit (standard kit plus fittings and more tubing)

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY

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### Easy-Flange Combi Kit

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

- Easy-Flange kit
- Easy-Flange combi kit
- PEEK tubing elbows
- Tubing cutters for polymeric tubing
- Clean-cut
- Guillotine
- Tubing cutters for stainless tubing
- Cutting wheel type
- Plier type
- Tubing clip the LC tubing organizer

- Handy tool for perfect flanges
- No heat or electricity required
- No contamination

The Easy-Flange flange-rolling tool for flanged fittings is suitable for PTFE and PTFE-like tubes with OD between 1/16" and 1/8". The tool forms the flange by applying a mechanical force and does not require electrical power.

The quality of the flange is considerably improved over other available methods, since the tubing is not stressed by heat and because the specially-designed negative conical profile of the flange-forming part yields an ideal shape for optimized sealing properties.

The Easy-Flange Combi Kit comes complete with PTFE tubing, PPS nuts, and polypropylene rings, in two sizes.



| Description           |                                                    |                                               | Product No.  |
|-----------------------|----------------------------------------------------|-----------------------------------------------|--------------|
| Easy-Flange Combi Kit |                                                    |                                               | JR-201539    |
| Includes:             | Flanging discs with:                               | 0.5 mm SS pin for PEEK tubing                 | JR-202235    |
|                       |                                                    | 0.8 mm polymer pin                            | JR-201541    |
|                       |                                                    | 0.8 mm Titanium pin                           | JR-201554    |
|                       |                                                    | 1.3 mm polymer pin                            | JR-201538    |
|                       |                                                    | 1.3 mm Titanium pin                           | JR-201537    |
|                       | PPS nuts                                           | 1/4-28, flanged, for 1/16" tubing, pkg. of 10 | JR-55060-10  |
|                       |                                                    | 1/4-28, flanged, for 1/8" tubing, pkg. of 10  | JR-55061-10  |
|                       | PP rings                                           | Flanged, for 1/16" tubing, pkg. of 10         | JR-201926-10 |
|                       |                                                    | Flanged, for 1/8" tubing, pkg. of 10          | JR-201928-10 |
|                       | PTFE Tubing                                        | 1/16" x 0.75 mm ID x 3m                       | JR-T-4036-M3 |
|                       |                                                    | 1/8" x 1/16" ID x 3m                          | JR-T-6800-M3 |
|                       | Fingertight adapters, pkg. of 24 (2 of each color) |                                               | JR-5508X-24  |

|  |                         |            |
|--|-------------------------|------------|
|  | Clean-Cut tubing cutter | JR-797     |
|  | Plastic box             | JR-201540L |

Additional options

| Description                           | Product No. |
|---------------------------------------|-------------|
| Flanging disc with 1.0 mm polymer pin | JR-201662   |
| Flanging clamp pair                   | JR-201531   |

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MORE INFORMATION

- Illustration of use

SEE ALSO

- Flanged fittings
- Polymeric tubing
- Basic Easy-Flange Kit

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Eco Caps and Eco Cap Kits

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- DIN50
- GL38
- GL45
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Competitively priced alternative to sparge and deliver mobile phases
- Also available as bottle kit

The Eco Cap consists of a three-hole ETFE insert with a polyethylene collar, compatible with all standard GL45 thread bottles. The Eco Cap has no threading for fittings on the inside of the tubing ports the tubing is just inserted.

The Eco Cap includes:

- 1 cap, GL45 thread, with three ports
- Polypropylene male Luer plug

The Eco Cap kit includes:

- 1 cap, GL45 thread, with three ports
- Safety-coated glass bottle (option of 1 L or 2 L)
- Polypropylene male Luer plug



| Description                           | Bottle size | Product No.  |
|---------------------------------------|-------------|--------------|
| Eco cap                               |             | JR-9000-0007 |
| Eco cap kit with safety-coated bottle | 1 L         | JR-9000-0013 |
|                                       | 2 L         | JR-9000-0014 |

#### Spare parts

| Description                   | Qty/pkg | Product No.  |
|-------------------------------|---------|--------------|
| Male Luer plug, polypropylene | 10      | JR-070350-10 |

#### SPECIFICATIONS

- Materials:

|              |               |
|--------------|---------------|
| Screw collar | Polypropylene |
|--------------|---------------|

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|                |               |
|----------------|---------------|
| Pouring ring   | Polypropylene |
| Eco-cap insert | ETFE          |
| O-rings        | EPDM          |
| Luer plug      | Polypropylene |

## SEE ALSO

- Impermeable tubing
- Polymeric tubing

## TECH TIP

Once the mobile phase is degassed, we recommend our **impermeable tubing** between bottle cap and pump to prevent regassing of helium degassed solvents.

## NOTE

These caps are not usable for building up a helium atmosphere within in the solvent bottle, but only for continuous helium sparging.

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### Economy Last Drop Mobile Phase Filters - Low Pressure

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges

- Mobile phase filters

- Economy Last Drop

- Last Drop

- Last Drop biocompatible glass filter

- No-Met biocompatible

- Filter-spargers

- Very competitively priced
- Biocompatible PTFE frits or stainless steel frits
- Three porosity options
- Two diameters

Economy mobile phase filters come in two body diameters, for various dimensions of bottle necks. The filter body is made of PTFE, which is resistant to virtually all common mobile phases.



| Frit material   | Body OD | Pore size | Maximum flow rate * | Product No.   |
|-----------------|---------|-----------|---------------------|---------------|
| PTFE            | 19 mm   | 2.5 µm    | 1.2 ml/min          | JR-4676-2.5TF |
|                 |         | 5 µm      | 2.6 ml/min          | JR-4676-5TF   |
|                 |         | 10 µm     | 3.5 ml/min          | JR-4676-10TF  |
|                 | 22 mm   | 2.5 µm    | 1.2 ml/min          | JR-4677-2.5TF |
|                 |         | 5 µm      | 2.6 ml/min          | JR-4677-5TF   |
|                 |         | 10 µm     | 3.5 ml/min          | JR-4677-10TF  |
| Stainless steel | 19 mm   | 2 µm      | 30 ml/min           | JR-4676-2     |
|                 |         | 10 µm     | 30 ml/min           | JR-4676-10    |
|                 | 22 mm   | 2 µm      | 30 ml/min           | JR-4677-2     |
|                 |         | 10 µm     | 30 ml/min           | JR-4677-10    |

\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

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## SPECIFICATIONS

- Materials:

|       |                        |
|-------|------------------------|
| Body  | PTFE                   |
| Frits | PTFE/Type316 stainless |

- For 1/8" OD tubing

## TECH TIP

- Easy to replace - easy to clean. Use ultrasound or replace with a new filter.
- Connect the filter with 1/8" OD/ 1.59 mm OD tubing:
  - PFA tubing
  - PTFE tubing

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Exhaust Filter

#### Overview

#### Caps

#### VICI safety filters

- Air inlet valve
- Air outlet valve
- Exhaust filter

#### Bottles

#### SolviFlex

- Prevents pollution of ambient air with volatile compounds
- Large capacity and long lifetime
- Break-through detector available, alerting users to saturation of the filter absorbent
- Universal 1/4-28 connection - fit all VICI safety caps and VICI caps
- Adapter to competitor products available

Our improved exhaust filter is the center of the VICI Jour safety program, ridding ambient air of solvent vapors which could adversely affect the health of lab workers. When placed on the waste bottle of an HPLC system, the specially-treated absorbent filters out nearly all organic solvent vapor evaporating out of the waste solution.

Our new absorbent has an increased capacity over our previous filter and definitely over a competing brand. Excellent capacity leads to longer lifetime of the exhaust filter: up to 10 months\* for methanol, and up to 8 months\* for acetonitrile.

The optional break-through detector recognizes trace amounts of acetone, acetonitrile, ethanol, ethyl acetate, methanol, methylene chloride and THF. When the absorbent is saturated, break-through is indicated by a color change in the detector from orange/pink to dark purple. A small charcoal filter absorbs the vapors after they pass the detector.

\*Based on results of our tests (water/organics = 50/50; flow rate 1.0 ml/min during the day, 0.5 ml/min overnight, 0.1 ml/min during weekends).



| Description    |                  | Product No. |
|----------------|------------------|-------------|
| Exhaust filter | With detector    | JR-S-20005  |
|                | Without detector | JR-S-20002  |



Adapter

Connects VICI safety exhaust filter to SCAT® waste caps and A.I.T. smart waste caps



JR-S-40004



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**SPECIFICATIONS**

• Materials:

|                  |                         |
|------------------|-------------------------|
| Filter housing   | POM                     |
| Detector housing | PC                      |
| Frits            | Polyethylene            |
| O-ring           | NBR (not a wetted part) |

• Connections:  
1/4-28

**MORE INFORMATION**

- Optimized absorbent
- Filter lifetime

**SEE ALSO**

- Safety caps
- VICI caps

**NOTE**

- Disposal of the saturated filters must be done according to the local regulations for chemical waste.

**TECH TIPS**

- Larger capacity = longer lifetime = lower costs
- As a general rule, halving the flow rate doubles the

lifetime at constant composition and temperature. Doubling the flow rate halves it.

- Acetonitrile and water form an "azeotropic" mixture at 85% acetonitrile. Due to this physical property, the vapor of an acetonitrile/water mixture always corresponds to the 85/15 mixture. This explains the non-linearity of the lifetime for acetonitrile compared to methanol.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### FEP Tubing - Natural

#### Overview

#### PEEK

#### Other polymers

• ETFE

• FEP

• Color-coded

• Natural

• PFA

• PTFE

• Color-coded

• Natural

• Impermeable

• Thermo-formed

#### Stainless steel

#### Tubing accessories

FEP (FluorinatedEthylenePropylene) tubing is chemically inert to most HPLC solvents, and is recommended for low pressure applications. Typically 1/16" OD tubing holds up to 117 bar (1700 psi), and 1/8" OD holds up to 70 bar (1000 psi).

We recommend FEP for ion chromatography applications.

Select tubing OD to view other product numbers:

1/32"    1/16"    1/8"    3/16"    1/4"    1 mm    2 mm    3 mm



#### 1/32" OD natural FEP tubing

| ID (mm) | Qty/pkg | Product No.   |
|---------|---------|---------------|
| 0.10    | 1 m     | JR-T-6794-M1  |
|         | 3 m     | JR-T-6794-M3  |
|         | 10 m    | JR-T-6794-M10 |
| 0.13    | 1 m     | JR-T-6605-M1  |
|         | 3 m     | JR-T-6605-M3  |
|         | 10 m    | JR-T-6605-M10 |
| 0.15    | 1 m     | JR-T-6606-M1  |
|         | 3 m     | JR-T-6606-M3  |
|         | 10 m    | JR-T-6606-M10 |
| 0.18    | 1 m     | JR-T-6607-M1  |
|         | 3 m     | JR-T-6607-M3  |
|         | 10 m    | JR-T-6607-M10 |
| 0.25    | 1 m     | JR-T-6610-M1  |
|         | 3 m     | JR-T-6610-M3  |
|         | 10 m    | JR-T-6610-M10 |
| 0.38    | 1 m     | JR-T-6615-M1  |
|         | 3 m     | JR-T-6615-M3  |



|      |      |               |
|------|------|---------------|
|      | 10 m | JR-T-6615-M10 |
| 0.50 | 1 m  | JR-T-6620-M1  |
|      | 3 m  | JR-T-6620-M3  |
|      | 10 m | JR-T-6620-M10 |

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## SPECIFICATIONS

- Max. recommended working temp: 80°C (continuous)
- Maximum working pressure

## MORE INFORMATION

- Chemical resistance
- Polymer tubing tolerances
- Tubing ID chart: volume per length
- Maximum pressure chart: variation by ID
- About FEP

## SEE ALSO

- Clean-cut tubing cutter
- Fingertight fittings

## TECH TIP

When selecting tubing for low pressure applications, give careful consideration to gas permeability characteristics.

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Ferrule Removal Kit

#### Overview

#### Accessories for tubing

#### Accessories for fittings

#### Back-pressure regulators

#### Tools

##### • Ferrule removal kit

##### • File

##### • Hex key set

##### • Tweezer

##### • Wrenches

##### • ValvTool

##### • Tubing cutters

##### • For polymeric

##### • For stainless

#### Starter kits

- Remove polymeric ferrules stuck in fitting details
- Includes two tools, for different ferrule sizes
- Work with 1/32" and 360 micron ferrules

When polymeric ferrules get stuck in a fitting detail, these little ferrule spears will save you a lot of irritation. Each kit includes two sizes of tapered stabbers for retrieving capillary size ferrules.

| Description         | Product No. |
|---------------------|-------------|
| Ferrule removal kit | JR-FRK1     |



## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Nuts with Double Ferrules

#### Overview

#### One-piece

#### Nuts and ferrules

- Double ferrule connections
- Single ferrule connections
- 1/4-28 connections

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

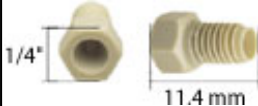

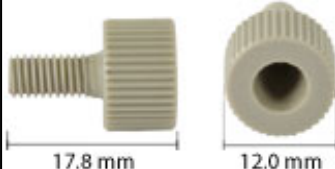
#### Adapters

#### Tools for fittings

- 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.



| Description |                 | Qty/pkg                                                                              | Product No. |           |
|-------------|-----------------|--------------------------------------------------------------------------------------|-------------|-----------|
| Nuts        | Hex-head, short |   | 5           | JR-5511-5 |
|             | Hex-head, long  |  | 5           | JR-5510-5 |
|             | Fingertight     |  | 5           | JR-5580-5 |

|         |                       |                                                                                   |   |           |
|---------|-----------------------|-----------------------------------------------------------------------------------|---|-----------|
|         | Universal fingertight |  | 5 | JR-5503-5 |
| Ferrule | Double                |  | 5 | JR-5004-5 |

SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- 10-32 threads
- Pressure rating:  
<420 bar (6000 psi)  
(Varies with tubing material  
and ID)

MORE INFORMATION

- Chemical resistance
- About PEEK

SEE ALSO

- 1/16" OD tubing for high  
pressure applications
- ValvTool for tightening  
hex-head fittings
- Color-It fingertight  
adapters



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Nuts with Single Ferrules

#### Overview

#### One-piece

#### Nuts and ferrules

- Double ferrule connections
- Single ferrule connections
- 1/4-28 connections

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- 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 fingers will not fit.



| Tubing OD | Description                   | Qty/pkg | Product No.  |
|-----------|-------------------------------|---------|--------------|
| 1/32"     | Fingertight nut, 6-40 thread  | 5       | JR-ZN.5FPK-5 |
|           | Ferrule                       | 5       | JR-ZF.5PK-5  |
| 1/16"     | Fingertight nut, 10-32 thread | 5       | JR-5570-5    |
|           | Ferrule                       | 5       | JR-5003-5    |
| 1/8"      | Hex-head nut, 5/16-24 thread  | 5       | JR-ZN2PK-5   |
|           | Ferrule                       | 5       | JR-ZF2PK-5   |

#### SPECIFICATIONS

- For 1/32", 1/16", or 1/8" OD tubing
- Material: PEEK
- Threads: See description in product number chart at

left

- Pressure rating:  
<280 bar (4000 psi)  
(Varies with tubing material  
and ID)
- 

## MORE INFORMATION

- Chemical resistance
  - About PEEK
- 

## SEE ALSO

- PEEK tubing
- 

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## VICI JOUR - HIGH PRESSURE STAINLESS STEEL FITTINGS



### Stainless Ferrules

Overview

Nuts

Ferrules

• Valco

• Rheodyne

Plugs and caps

Unions and reducing unions

Tees and crosses

Tools for fittings

#### MORE INFORMATION

- Properties of stainless

#### SEE ALSO

- High pressure Nanovolume fittings
- Stainless starter kit - HPLC parts kit with stainless fittings and tubing
- ChromBox kit - HPLC parts kit with PEEK and stainless fittings and tubing

#### Valco ferrules

1/32", 1/16", and 1/8" Valco ferrules are for use with all standard Valco internal fittings and most valves. They may be used with fittings from other manufacturers as well.

- Product information



#### Rheodyne ferrules

1/16" Rheodyne ferrules are for use with metal Rheodyne valves.

- Product information



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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### Overview

Overview

High pressure

Low pressure

Filters trap foreign particulates from sample and mobile phase streams before they can damage valuable columns and instruments.



#### High pressure filters

- PEEK high pressure filters
  - In-line filter kit
  - Precolumn filter kit
  - Sure-Guard
- Stainless UHPLC filters



#### Low pressure filters

- In-line filters
- Mobile phase filters
  - Economy Last Drop
  - Last Drop
  - Last Drop biocompatible glass filter
  - No-Met biocompatible
- Filter/spargers
  - Last Drop
  - Stainless steel





## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### High Pressure Filters

#### Overview

#### High pressure

- PEEK filters
- In-line filter kit
- Precolumn filter kit
- Sure-Guard
- Stainless UHPLC filters

#### Low pressure

#### PEEK filters

- In-line filter kit
- Precolumn filter kit
- Sure-Guard disposable in-line filters



#### Stainless steel UHPLC filters

For UHPLC applications up to 1000 bar (14,500 psi). Two bore options, for analytical use between autosampler/injection valve and column, or higher flow rates in semi-prep systems.

- Product information



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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### Low Pressure Filters

Overview

High pressure

Low pressure

• In-line filter cartridges

• Mobile phase filters

• Filter-spargers

#### In-line filter cartridges

These convenient in-line filters can be dropped into any 1/4-28 fitting detail. They are constructed of PTFE and CTFE, with a 316 stainless low-pressure-drop screen.



- Product information

#### Mobile phase filters

- Economy Last Drop
- Last Drop
- Last Drop biocompatible glass filter
- No-Met biocompatible



#### Filter/spargers

- Last Drop filter/sparger
- Stainless filter/helium sparger



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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### VICI Safety Filters

Overview

Caps

VICI safety filters

- Air inlet valve
- Air outlet valve
- Exhaust filter

Bottles

SolviFlex

#### Safety air inlet valve

Safety air inlet valves fit into one port of a safety cap or a VICI cap used for solvent delivery. The check valve prevents evaporation of mobile phase liquids, resulting in constant retention times. A 0.2 µm filter prevents bacterial contamination of the mobile phase.



- Product information

#### Safety air outlet filter

The VICI safety outlet filter regulates the pressure during helium sparging.

- Product information



#### Safety exhaust filter

Safety exhaust filters are placed on the waste bottle of an HPLC system, to protect workers from solvent vapors in the ambient air.

- Product information



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**HRM**  
a.i.v.t.c.  
EChnology Pty Ltd  
+61(0)3 9762 2034

**Australian Distributors**  
Importers & Manufacturers  
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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### Stainless Steel In-Line Filter - Ultra-High Pressure

#### Overview

#### High pressure

- PEEK filters
- Stainless UHPLC filters

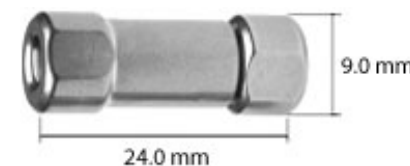
#### Low pressure

- UHPLC (up to 1000 bar / 14,500 psi)
- Minimized hold-up volume
- Two bores for analytical and semi-prep flow rates
- Three porosity options

The stainless steel in-line filter has virtually no hold-up volume and can be used in various applications without significant band broadening or loss of efficiency.

The 0.25 mm bore versions are intended for analytical use between autosampler/injection valve and column. The 0.75 mm bore versions are suitable for higher flow rates in semi-prep systems or for solvent supply from pump to autosampler.

With minimal dead volume and available frit porosities of 0.5, 2 or 5  $\mu\text{m}$ , these in-line filters are the ideal column protectors.



| Bore size | Pore size         | Internal volume * | Product No. |
|-----------|-------------------|-------------------|-------------|
| 0.25 mm   | 0.5 $\mu\text{m}$ | 0.2 $\mu\text{L}$ | JR-68230-05 |
|           | 2 $\mu\text{m}$   | 0.3 $\mu\text{L}$ | JR-68230-2  |
|           | 5 $\mu\text{m}$   | 0.3 $\mu\text{L}$ | JR-68230-5  |
| 0.75 mm   | 0.5 $\mu\text{m}$ | 1.7 $\mu\text{L}$ | JR-68231-05 |
|           | 2 $\mu\text{m}$   | 1.9 $\mu\text{L}$ | JR-68231-2  |
|           | 5 $\mu\text{m}$   | 1.9 $\mu\text{L}$ | JR-68231-5  |

\* The internal volume is the total flushed volume between the ends of the connecting tubes, including the frit volume.

#### Replacement frits

| Bore size | Pore size         | Frit volume        | Qty/pkg | Product No.   |
|-----------|-------------------|--------------------|---------|---------------|
| 0.25 mm   | 0.5 $\mu\text{m}$ | 0.13 $\mu\text{L}$ | 5       | JR-1100-05P-5 |
|           | 2 $\mu\text{m}$   | 0.18 $\mu\text{L}$ | 5       | JR-1100-2P-5  |

|         |        |         |   |               |
|---------|--------|---------|---|---------------|
|         | 5 µm   | 0.20 µL | 5 | JR-1100-5P-5  |
| 0.75 mm | 0.5 µm | 0.55 µL | 5 | JR-1111-05P-5 |
|         | 2 µm   | 0.74 µL | 5 | JR-1111-2P-5  |
|         | 5 µm   | 0.80 µL | 5 | JR-1111-5P-5  |

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SPECIFICATIONS

- Materials:

|      |                            |
|------|----------------------------|
| Body | 316 stainless steel        |
| Frit | PEEK-encased 316 stainless |

- 0.25 or 0.75 mm bore
- 10-32 female to 10-32 male threads
- Pressure rating <350 bar (< 5000 psi)

SEE ALSO

- Calculation of frit volume
- PEEK-encased stainless frits

TECH TIP

We recommend 2 µm frits for columns with 5 µm or larger particles, and 0.5 µm frits for smaller particles.

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### Filter/Spargers

Overview

High pressure

Low pressure

• In-line filter cartridges

• Mobile phase filters

• Filter-spargers

• Last Drop

• Stainless steel

#### Last Drop mobile phase filter/spargers

The Last Drop filter/sparger combines filtration and sparging in a single unit. The filter/sparger features a PEEK tripod connector for the solvent line, and a nut and ferrule for the sparging line.



- Product information

#### Stainless filter/helium spargers

Stainless filter/spargers are made from 316 stainless and PEEK or PTFE, and are suitable for use with most solvents. The sparger portion is made from 10 micron porosity stainless steel.



- Product information

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## VICI JOUR - FITTINGS

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### Overview

High pressure polymeric fittings

High pressure stainless fittings

#### SEE ALSO

- Nanovolume HPLC fittings
- Color-It adapters for hex-head nuts, low and high pressure fittings

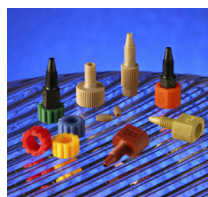


- Color-Sleeve adapters for PPS nuts, low and high pressure



#### High pressure polymeric fittings

High pressure polymeric fittings are useful in applications involving proteins, peptides, and other samples of biological origin where metal systems may interact with samples.



- Product information

#### High pressure stainless fittings

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.



- Product information

#### Nanovolume HPLC fittings

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  $\mu\text{l}/\text{min}$  range, when the transfer volume can be critical.



- Product information

#### Low pressure fittings

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.



- Product information

#### Tools for fittings

- Ferrule removal kit
- Tweezer
- ValvTool
- Wrench





## VICI JOUR - LOW PRESSURE FITTINGS



### PPS Hex-Head Nuts - Flangeless or Flanged 1/4-28 Connections

#### Overview

#### Nuts, ferrules, and washers

- PPS hex-head nuts, flangeless and flanged

- Flangeless

- PEEK nuts

- Color-coded polyacetal nuts

- Flanged color-coded fingertight nuts

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

- Economically priced alternative to PEEK
- Excellent chemical resistance
- For 1/16" or 1/8" OD tubing
- Fingertight when used with Color-Sleeve adapters

Our PPS 1/4-28 fitting series offers excellent chemical and pressure resistance. Three different sealing options are available.

Click an option to view product numbers.



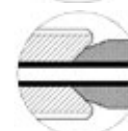
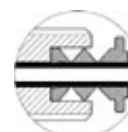
Collapsible ferrule\* (flangeless)



Inverted ferrule (flangeless)



Washer (flanged)



\*Patent No. 6,575,501

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## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing
- Material: PPS
- 1/4-28 threads
- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- 1/4-28 fittings for high pressure connections

## TECH TIP

- Color-Sleeve adapters turn PPS nuts into fingertight fittings and color-code different solvent lines.

## CHEMICAL RESISTANCE OF PPS

A = suitable

B = marginal

C = not recommended

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

\* Concentrated halogen acids

- Detailed chemical

## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Fingertight Nuts for Flangeless 1/4-28 Connections



#### Overview

#### Nuts, ferrules, and washers

- PPS hex-head nuts, flangeless and flanged

- Flangeless

- PEEK nuts

- Color-coded polyacetal nuts

- Flanged color-coded fingertight nuts

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

- 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

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.

| Tubing OD | Description | Qty/pkg | Product No. |
|-----------|-------------|---------|-------------|
| 1/16"     | Nut         | 10      | JR-20124-10 |
|           | Ferrule     | 10      | JR-041-10   |
| 1/8"      | Nut         | 10      | JR-20116-10 |
|           | Ferrule     | 10      | JR-051-10   |

## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing
- Material  
Nuts: PEEK  
Ferrules: ETFE
- 1/4-28 threads
- Pressure rating (varies with tubing material and ID)

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

## TECH TIP

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



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## VICI JOUR - FRITS



### Overview

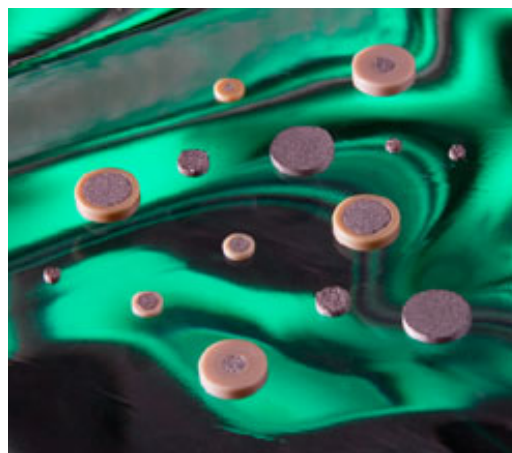
Overview

Unidense frits

PEEK-encased frits

VICI Jour unidense frits offer unexcelled reproducibility and precision. Proprietary manufacturing processes ensure uniformity and precise, repeatable dimensional control.

PEEK-encased frits surround the frit with a ring of PEEK, reducing the actual porous surface to the ID of an HPLC column.



#### Unidense frits

- Stainless
- Titanium
- Polyethylene



#### PEEK-encased frits

- Stainless
- Titanium
- Polyethylene



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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### VICI Caps GL38 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- DIN50
- GL38
- GL45
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fit all bottles or canisters with GL38/430 thread\*
- Prevent evaporation of volatile compounds
- 2, 3, and 4 ports available
- \* See NOTES, right column

GL38 caps seal to the bottle with an O-ring (EPDM) which is resistant to commonly used HPLC solvents. If improved chemical resistance is required (e.g. for halogenated hydrocarbons), order an FEP-coated O-ring separately.

One port is suitable for 1/16" tubing. All other ports can fit 1/8" and 1/16" OD tubing. A bottom-sealing barbed adapter to connect a 1/8" (3.2 mm) ID tubing can be ordered separately. Unused ports should be closed with 1/4-28 plugs.

Color-coded PP sleeves fit on all ports on 2 and 3 port caps. With 4 port caps, the use of PP sleeves is limited to two sleeves per cap. (Four colors are included.)



#### Includes:




- 1 cap, GL37/430 thread \*
- 1 O-ring, EPDM
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1, 2, or 3 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 adapter ring

#### VICI caps

| No. of ports | Product No. |
|--------------|-------------|
| 2            | JR-13001    |
| 3            | JR-13002    |

|   |          |
|---|----------|
| 4 | JR-13003 |
|---|----------|

Spare parts

| Description                               |               |                                                                                    | Qty/pkg | Product No. |
|-------------------------------------------|---------------|------------------------------------------------------------------------------------|---------|-------------|
| FEP-coated O-ring, GL38                   |               |                                                                                    | 1       | JR-S-40009  |
| Adapter ring, PTFE, GL38                  |               |                                                                                    | 1       | JR-S-40006  |
| 1/4-28 flangeless nuts, PPS               |               | For 1/16" OD tubing                                                                | 10      | JR-55070-10 |
|                                           |               | For 1/8" OD tubing                                                                 | 10      | JR-55071-10 |
| Inverted ferrules, ETFE                   |               | For 1/16" OD tubing                                                                | 10      | JR-041-10   |
|                                           |               | For 1/8" OD tubing                                                                 | 10      | JR-051-10   |
| 1/4-28 plug                               | PEEK          |   | 1       | JR-409      |
|                                           | Polypropylene |   | 1       | JR-201999   |
| Barbed hose adapter, 1/8" ID tubing       |               |  | 1       | JR-075013   |
| Color-Sleeve adapters, 12 colors (2 each) |               | Color Sleeve adapters                                                              | 24      | JR-5808X-24 |

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SPECIFICATIONS

- Connections: 1/4-28
- Materials:

|              |                                |
|--------------|--------------------------------|
| Closure      | Polypropylene                  |
| Insert       | PTFE                           |
| O-ring       | EPDM (alternative: FEP-coated) |
| Adapter ring | PA/PP                          |
| Nuts         | PPS                            |
| Ferrules     | ETFE                           |
| Sleeves      | Polypropylene                  |

MORE INFORMATION

- Chemical resistance

SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTES

- \*GL38 thread is available in different variations. Please check the inside diameter of the neck:
  - For 21-24 mm ID, use the GL38 cap as is, i.e. without adapter (e.g. Wheaton® bottles).
  - For 24-28 mm ID, use the adapter ring provided with the GL38 cap (e.g. Nalgene® bottles).



- One port must be reserved for the exhaust filter or the air inlet valve.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Caps GL45 Threads

#### Overview

#### Caps

- Safety caps
- DIN50
- GL45
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Built-in stopcocks for easy interruption of solvent lines
- Fit all bottles or canisters with GL45 thread
- Prevent evaporation of volatile compounds
- 2, 3, and 4 ports available
- Stopcocks rated up to 72 psi gas at 25°C

GL45 safety caps seal to the bottle with an O-ring (EPDM) which is resistant to commonly used HPLC solvents. If improved chemical resistance is required (e.g. for halogenated hydrocarbons), order an FEP-coated O-ring separately.

Unused ports can be closed with the stopcock. All ports can handle 1/8" or 1/16" OD tubing. A bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing can be ordered separately.



#### Includes:

- 1 cap, GL45 thread, with stopcocks
- 1 O-ring, EPDM
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1, 2, or 3 sets: 1/8" nut/ferrule/color-sleeve adapter
- Additional nuts and ferrules for the bottom side connections


#### Safety caps

| No. of ports | Product No. |
|--------------|-------------|
| 2            | JR-11011    |



|   |          |
|---|----------|
| 3 | JR-11012 |
| 4 | JR-11013 |

Spare parts

| Description                                  | For tubing OD                                                                      | Qty/pkg | Product No. |
|----------------------------------------------|------------------------------------------------------------------------------------|---------|-------------|
| O-ring, FEP-coated, GL45                     |                                                                                    | 1       | JR-40008    |
| 1/4-28 flangeless nuts, PPS                  | 1/16"                                                                              | 10      | JR-55070-10 |
|                                              | 1/8"                                                                               | 10      | JR-55071-10 |
| Inverted ferrules, ETFE                      | 1/16"                                                                              | 10      | JR-041-10   |
|                                              | 1/8"                                                                               | 10      | JR-051-10   |
| Barbed hose adapter,<br>1/8" ID tubing       |  | 1       | JR-075013   |
| Color-Sleeve adapters,<br>12 colors (2 each) | Color Sleeve adapters                                                              | 24      | JR-5808X-24 |

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## SPECIFICATIONS

- Connections: 1/4-28
- Materials:

|          |                                   |
|----------|-----------------------------------|
| Closure  | Polypropylene                     |
| Insert   | PTFE                              |
| Stopcock | CTFE                              |
| O-ring   | EPDM (alternative:<br>FEP-coated) |
| Nuts     | PPS                               |
| Ferrules | ETFE                              |
| Sleeves  | Polypropylene                     |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTE

- One port must be reserved for the exhaust filter or the air inlet valve.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Cap Kit GL45 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

In addition to a GL45 safety cap with fittings, this kit offers a safety bottle (1 or 2 liter), PFA tubing, and a mobile phase filter.

Order air inlet filter (shown in photo) separately.

Includes:

- 1 safety cap, GL45 thread, with fittings
- 1 safety-coated glass bottle (option of 1L or 2L)
- 3 m, PFA tubing
- 1 No-Met mobile phase filter, 5 µm
- Additional nuts and ferrules for the bottom side



#### Safety cap kit

| No. of ports | Bottle size | Product No. |
|--------------|-------------|-------------|
| 2            | 1L          | JR-11111    |
|              | 2L          | JR-11211    |
| 3            | 1L          | JR-11112    |
|              | 2L          | JR-11212    |
| 4            | 1L          | JR-11113    |
|              | 2L          | JR-11213    |

#### Spare parts

| Description             | Qty/pkg | Product No. |
|-------------------------|---------|-------------|
| FEP-coated O-ring, GL45 | 1       | JR-S-40008  |

|                                                                                 |          |    |              |
|---------------------------------------------------------------------------------|----------|----|--------------|
| 1/4-28 flangeless nuts, PPS                                                     | 1/16" OD | 10 | JR-55070-10  |
|                                                                                 | 1/8" OD  | 10 | JR-55071-10  |
| Inverted ferrules, ETFE                                                         | 1/16" OD | 10 | JR-041-10    |
|                                                                                 | 1/8" OD  | 10 | JR-051-10    |
| Color-Sleeve adapters, 12 colors (2 each)                                       |          | 24 | JR-5808X-24  |
| PFA tubing, 1/8" x 1.59 mm x 3m                                                 |          | 1  | JR-T-4003-M3 |
| No-Met biocompatible mobile phase filter, economy slip-on connection, 5 µm pore |          | 1  | JR-32174     |
| 1/4-28 plug, PEEK                                                               |          | 1  | JR-409       |
| Safety-coated bottle with solid cap                                             | 1L       | 1  | JR-9000-0005 |
|                                                                                 | 2L       | 1  | JR-9000-0010 |

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**SPECIFICATIONS**

- Connections: 1/4-28
- Materials:

|          |                                 |
|----------|---------------------------------|
| Closure  | Polypropylene                   |
| Insert   | PTFE                            |
| Stopcock | CTFE                            |
| O-ring   | EPDM (alternative: FEP-coated)  |
| Nuts     | PPS                             |
| Ferrules | ETFE                            |
| Sleeves  | Polypropylene                   |
| Bottle   | Borosilicate 3.3, safety coated |
| Filter   | Polyethylene                    |

**SEE ALSO**

- Color-Sleeve adapters
- No-Met mobile phase filters
- PFA tubing
- Safety-coated bottles (for additional sizes)
- Safety air inlet valves

**TECH TIP**

- PFA tubing provides less re-gassing of the mobile phase.

## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### VICI Caps GL45 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- DIN50
- GL38
- GL45
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fit all bottles or canisters with GL45 thread
- Prevent evaporation of volatile compounds
- 2, 3, 4, 6, and 7 ports available

GL45 caps seal to the bottle with an O-ring (EPDM) which is resistant to commonly used HPLC solvents. If improved chemical resistance is required (e.g. for halogenated hydrocarbons), order an FEP-coated O-ring separately.

One port is suitable for 1/16" tubing. All other ports can fit 1/8" and 1/16" OD tubing. A bottom-sealing barbed adapter to connect a 1/8" (3.2 mm) ID tubing can be ordered separately. Unused ports should be closed with 1/4-28 plugs.






#### Includes:

- 1 cap, GL45 thread
- 1 O-ring, EPDM
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1, 2, 3, 5, or 7 sets: 1/8" nut/ferrule/color-sleeve adapter

#### VICI caps

| No. of ports | Product No. |
|--------------|-------------|
| 2            | JR-11001    |
| 3            | JR-11002    |
| 4            | JR-11003    |
| 6            | JR-11005    |
| 7            | JR-11006    |

## Spare parts

| Description                               |                     | Qty/pkg                                                                            | Product No. |             |
|-------------------------------------------|---------------------|------------------------------------------------------------------------------------|-------------|-------------|
| FEP-coated O-ring, GL45                   |                     | 1                                                                                  | JR-S-40008  |             |
| 1/4-28 flangeless nuts, PPS               | For 1/16" OD tubing | 10                                                                                 | JR-55070-10 |             |
|                                           | For 1/8" OD tubing  | 10                                                                                 | JR-55071-10 |             |
| Inverted ferrules, ETFE                   | For 1/16" OD tubing | 10                                                                                 | JR-041-10   |             |
|                                           | For 1/8" OD tubing  | 10                                                                                 | JR-051-10   |             |
| 1/4-28 plug                               | PEEK                |   | 1           | JR-409      |
|                                           | Polypropylene       |   | 1           | JR-201999   |
| Barbed hose adapter, 1/8" ID tubing       |                     |  | 1           | JR-075013   |
| Color-Sleeve adapters, 12 colors (2 each) |                     | Color Sleeve adapters                                                              | 24          | JR-5808X-24 |

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## SPECIFICATIONS

- Connections: 1/4-28
- Materials:

|          |                                   |
|----------|-----------------------------------|
| Closure  | Polypropylene                     |
| Insert   | PTFE                              |
| O-ring   | EPDM (alternative:<br>FEP-coated) |
| Nuts     | PPS                               |
| Ferrules | ETFE                              |
| Sleeves  | Polypropylene                     |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTES

- One port must be reserved

for the exhaust filter or the  
air inlet valve.

- The insert for JR-S-11006  
will be delivered without the  
center connection.



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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### VICI Cap Kit GL45 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

In addition to a GL45 VICI cap with fittings, this kit offers a safety bottle (1 or 2 liter), PFA tubing, and a mobile phase filter.

Includes:

- 1 VICI cap, GL45 thread, with fittings
- 1 safety-coated glass bottle (option of 1L or 2L)
- 3 m, PFA tubing
- 1 No-Met mobile phase filter, 5 µm

| Description  | No. of ports | Bottle size | Product No. |
|--------------|--------------|-------------|-------------|
| VICI cap kit | 2            | 1L          | JR-11101    |
|              |              | 2L          | JR-11201    |
|              | 3            | 1L          | JR-11102    |
|              |              | 2L          | JR-11202    |
|              | 4            | 1L          | JR-11103    |
|              |              | 2L          | JR-11203    |

#### Spare parts

| Description                 |                     | Qty/pkg | Product No. |
|-----------------------------|---------------------|---------|-------------|
| FEP-coated O-ring, GL45     |                     | 1       | JR-S-40008  |
| 1/4-28 flangeless nuts, PPS | For 1/16" OD tubing | 10      | JR-55070-10 |
|                             | For 1/8" OD tubing  | 10      | JR-55071-10 |
| Inverted ferrules, ETFE     | For 1/16" OD tubing | 10      | JR-041-10   |
|                             | For 1/8" OD tubing  | 10      | JR-051-10   |
| 1/4-28 plug                 | PEEK                | 1       | JR-409      |
|                             | Polypropylene       | 1       | JR-201999   |



|                                              |                                                                                   |    |             |
|----------------------------------------------|-----------------------------------------------------------------------------------|----|-------------|
| Barbed hose adapter,<br>1/8" ID tubing       |  | 1  | JR-075013   |
| Color-Sleeve adapters,<br>12 colors (2 each) | Color Sleeve adapters                                                             | 24 | JR-5808X-24 |

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SPECIFICATIONS

- Materials:

|          |                                    |
|----------|------------------------------------|
| Closure  | Polypropylene                      |
| Insert   | PTFE                               |
| Stopcock | CTFE                               |
| O-ring   | EPDM (alternative:<br>FEP-coated)  |
| Nuts     | PPS                                |
| Ferrules | ETFE                               |
| Sleeves  | Polypropylene                      |
| Bottle   | Borosilicate 3.3,<br>safety coated |
| Filter   | Polyethylene                       |

SEE ALSO

- Color-Sleeve adapters
- No-Met mobile phase filters
- PFA tubing
- Safety-coated bottles (for additional sizes)
- Safety air inlet valves

TECH TIP

- PFA tubing provides less re-gassing of the mobile phase.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps GLS80 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps

• B53

• B83

• GLS80

• DIN60

• S51

• S61

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fits all bottles or canisters with GLS80 thread
- Prevent evaporation of volatile compounds
- 5 ports
- 1/2-20 port for 1/4" OD tubing available
- Port for angled, barbed adapter available

GLS80 caps seal the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Three ports can fit 1/8" and 1/16" OD tubing, while one port is suitable for 1/4" OD tubing. Unused ports should be closed with plugs.

A bottom-sealing barbed adapter to connect 4, 6, or 8 mm ID tubing can be ordered separately.

Includes:

- 1 cap
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1 set: 1/4" nut/ferrule
- 3 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 plug, 1/4" (1/2-20), where noted in product number chart






#### GLS80 Waste cap

| No. of ports | Includes                  | Product No. |
|--------------|---------------------------|-------------|
| 5            | 1/4" plug                 | JR-S-18004  |
|              | Thread for barbed adapter | JR-S-18014  |

#### Spare parts

| Description                   |    |                    | Qty/<br>pkg | Product No. |
|-------------------------------|----|--------------------|-------------|-------------|
| Barbed adapter, 1/2-20 thread | PA | For 4 mm ID tubing | 1           | JR-S-40104  |
|                               |    | For 6 mm ID tubing | 1           | JR-S-40106  |

|                                              |       |                                                                                     |    |                |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------|----|----------------|
|                                              |       | For 8 mm ID tubing                                                                  | 1  | JR-S-40108     |
| 1/4-28 flangeless nuts                       | PPS   | For 1/16" OD tubing                                                                 | 10 | JR-55070-10    |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-55071-10    |
| Inverted ferrules                            | ETFE  | For 1/16" OD tubing                                                                 | 10 | JR-041-10      |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-051-10      |
| 1/4-28 plug                                  | PEEK  |  | 1  | JR-409         |
|                                              | PP    |  | 1  | JR-201999      |
| 1/2-20 nut                                   | POM   | For 1/4" OD tubing                                                                  | 1  | JR-CFL-4D      |
| Collapsible ferrule                          | CTFE  | For 1/4" OD tubing                                                                  | 1  | JR-CFL-CB4KF-S |
| 1/2-20 plug                                  | PTFE  |                                                                                     | 1  | JR-S-400007    |
| Barbed hose adapter,<br>1/8" ID tubing       | PA/PP |  | 1  | JR-075013      |
| Color-Sleeve adapters,<br>12 colors (2 each) | PP    | Color Sleeve adapters                                                               | 24 | JR-5808X-24    |

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## SPECIFICATIONS

- Connections:  
1/4-28, 1/2-20
- Materials:

|                |               |
|----------------|---------------|
| Closure        | Polypropylene |
| Insert         | PTFE          |
| O-ring         | NBR           |
| Nuts           | PPS/POM       |
| Ferrules       | ETFE/CTFE     |
| Plug           | PTFE          |
| Barbed adapter | PA/PP         |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTES

- One port must be reserved for the exhaust filter or the air inlet valve.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Guillotine Tubing Cutter

Overview

PEEK

Other polymers

Stainless steel

Tubing accessories

• Easy-Flange kit

• Easy-Flange combi kit

• PEEK tubing elbows

• Tubing cutters for polymeric tubing

• Clean-cut

• Guillotine

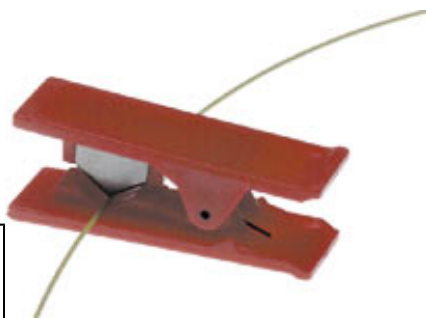
• Tubing cutters for stainless tubing

• Cutting wheel type

• Plier type

• Tubing clip the LC tubing organizer

- Cuts PEEK, PTFE, ETFE, and other polymeric tubing
- Ideal for less demanding LC applications



| Description              | Product No. |
|--------------------------|-------------|
| Guillotine tubing cutter | JR-794      |
| Replacement blade        | JR-795      |

## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK One-Piece Hex-Head Fittings

#### Overview

#### One-piece

- PPS hex-head fittings

- PEEK fingertight

- Color-coded

- Natural

#### • PEEK hex-head

- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

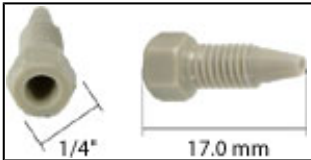
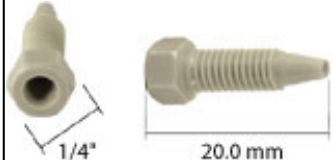
#### Adapters

#### Tools for fittings

- 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.



| Description |                                                                                     | Qty/pkg | Product No. |
|-------------|-------------------------------------------------------------------------------------|---------|-------------|
| Short       |   | 5       | JR-55100-5  |
| Long        |  | 5       | JR-55110-5  |

#### SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- 10-32 threads

- Pressure rating:  
<350 bar (5000 psi)  
(Varies with tubing material  
and ID)
- 

#### MORE INFORMATION

- Chemical resistance
  - About PEEK
- 

#### SEE ALSO

- 1/16" OD tubing for high  
pressure applications
- ValvTool for tightening  
hex-head fittings
- Color-It fingertight  
adapters



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PPS One-Piece Hex-Head Fittings

#### Overview

#### One-piece

- PPS hex-head fittings
- PEEK fingertight
- Color-coded
- Natural
- PEEK hex-head
- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- 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.



| Description                                  | Qty/pkg | Product No. |
|----------------------------------------------|---------|-------------|
| PPS hex-head one-piece fitting, black, 10-32 | 5       | JR-58000-5  |

#### SPECIFICATIONS

- For 1/16" OD tubing
- Material: Black PPS (Polyphenylene sulfide)



- 10-32 threads
  - Tolerance:  $\pm 0.05$  mm (.002")
  - Pressure rating:  
<350 bar (5000 psi)  
(Varies with tubing material and ID)
- 

#### MORE INFORMATION

- Chemical resistance
  - About PPS
- 

#### SEE ALSO

- 1/16" OD tubing for high pressure applications
- Color-Sleeve adapters



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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Hex Key Set

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

• Ferrule removal kit

• File

• Hex key set

• Tweezer

• Wrenches

• ValvTool

• Tubing cutters

• For polymeric

• For stainless

Starter kits

- A wrench to fit any socket head screw on any VICI valve or actuator
- Key sizes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", and 5/32"

| Description | Product No. |
|-------------|-------------|
| Hex ket set | JR-HKS      |



## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### Overview

Overview

One-piece

Nuts and ferrules

Fingertight adapters

Plugs and caps

Unions and reducing unions

Tees and crosses

Adapters

Tools for fittings

Our high pressure fittings are rated up to 350 bar (5000 psi) with fingertight nuts, well beyond the burst strength of most PEEK tubing. These fittings are manufactured from high quality inert polymers to exacting tolerances.



#### One-piece fittings

- PPS hex head
- PEEK fingertight
  - Color-coded
  - Natural
- PEEK hex-head
- PEEK No-Twist



#### Nuts and ferrules

- Double ferrule connections
- Single ferrule connections
- 1/4-28 connections



#### Fingertight adapters

#### Plugs and caps

Color-It fingertight adapters fit all our PEEK and stainless hex-head nuts for 1/16" tubing.



Color-Sleeve adapters are designed to be used with our black PPS nuts and one-piece fittings.

- PEEK plugs
- PEEK caps

#### PEEK unions and reducing unions

- Unions
- Bulkhead unions
- Reducing unions



#### PEEK tees and crosses

- Standard tees and crosses
- Biocompatible mixing tee



#### PEEK adapters

- PEEK port and Luer adapters



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## VICI JOUR - HIGH PRESSURE STAINLESS STEEL FITTINGS



### Overview

Overview

Nuts

Ferrules

Plugs and caps

Unions and reducing unions

Tees and crosses

Tools for fittings

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.



#### Nuts

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



- Valco nuts
- Rheodyne nuts

#### Ferrules

- Valco
- Rheodyne



#### Plugs and caps

- Product information



#### Unions and reducing unions

- Unions
- Reducing unions



## Tees and crosses

- Tees
- Crosses



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## MORE INFORMATION

- Properties of stainless

## SEE ALSO

- High pressure Nanovolume fittings
- Stainless starter kit - HPLC parts kit with stainless fittings and tubing
- ChromBox kit - HPLC parts kit with PEEK and stainless fittings and tubing

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Impermeable Polymeric Tubing

#### Overview

#### PEEK

#### Other polymers

- ETFE
- FEP
- Color-coded
- Natural
- PFA
- PTFE
- Color-coded
- Natural
- Impermeable
- Thermo-formed

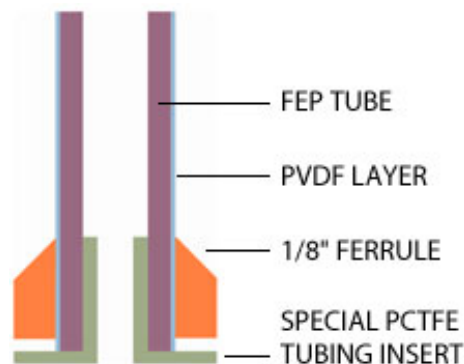
#### Stainless steel

#### Tubing accessories

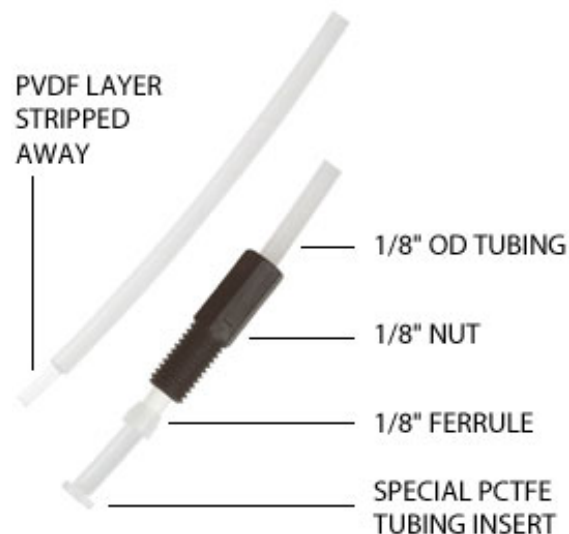
- FEP coated with PVDF
- Prevents "re-gassing"
- Excellent chemical resistance

PTFE and FEP have very good chemical resistance, but are too permeable to be suitable for mobile phase transfer lines. PVDF, on the other hand, lacks chemical resistance but is a very tight polymer with no observable micropores. Our impermeable tubing is produced by co-extruding PVDF over FEP to combine the best features of both polymers, ensuring that degassed solvent will stay degassed until it reaches the HPLC pump.

The PVDF layer can easily be stripped away with our Clean-Cut tubing cutter or a razor blade, leaving a length of exposed FEP to extend into the solvent reservoir.



PVDF LAYER  
STRIPPED  
AWAY



When making connections, a special PCTFE tubing insert fits into the ID of the tubing and seals against the bottom of the port, preventing the solvent from contacting the PVDF layer at the end of the tube.

| Description                             |                      | Qty/pkg | Product No.   |
|-----------------------------------------|----------------------|---------|---------------|
| Impermeable tubing, 1/8"OD x 1.65 mm ID |                      | 3 m     | JR-T-6130-M3  |
|                                         |                      | 10 m    | JR-T-6130-M10 |
| Fitting kit, containing:                | PCTFE tubing inserts | 2       | JR-6140       |
|                                         | 1/8" PPS nuts        | 2       |               |

|                        |                      |    |             |
|------------------------|----------------------|----|-------------|
|                        | 1/8" ETFE ferrules   | 2  |             |
| Additional spare parts | PCTFE tubing inserts | 10 | JR-6141-10  |
|                        | 1/8" PPS nuts        | 10 | JR-55071-10 |
|                        | 1/8" ETFE ferrules   | 10 | JR-051-10   |

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## SPECIFICATIONS

- Low pressure only
- 1/8" OD, 1.65 mm ID
- OD and ID tolerances:  
±0.05 mm (.002")
- Materials

|          |                      |
|----------|----------------------|
| Tubing:  | FEP coated with PVDF |
| Insert:  | PCTFE                |
| Ferrule: | ETFE                 |
| Fitting: | PPS                  |

## MORE INFORMATION

- Chemical resistance
- Tubing ID chart: volume per length
- About FEP
- About PVDF

## SEE ALSO

- Color-Sleeve fingertight adaptors
- Clean-cut tubing cutter

## OPTIONS

Contact us for more info about:

- Other package sizes and tubing lengths

## TECH TIPS

- Use FEP or PFA tubing inside the solvent reservoir, since PVDF has limited chemical resistance.
- Always use the specially-designed tubing insert to prevent solvent contact with the PVDF layer.

## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### In-line Filter Cartridges - Low Pressure

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges
- Mobile phase filters
- Filter-spargers

- Easy to replace
- Compact design
- Fit all 1/4-28 fitting details
- Three porosity options

These convenient-to-use filters can be simply dropped into any 1/4-28 fitting detail, such as in a union. The filters are constructed of PTFE and CTFE, with a Type 316 stainless low-pressure-drop screen. The inner design of the cartridge ensures the equal distribution of the solvent to the screen.



| Pore size | Maximum flow rate * | Qty/pkg | Product No.  |
|-----------|---------------------|---------|--------------|
| 2 µm      | 30 ml/min           | 5       | JR-CFE-S2-5  |
| 10 µm     | 30 ml/min           | 5       | JR-CFE-S10-5 |
| 75 µm     | 30 ml/min           | 5       | JR-CFE-S75-5 |

\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

#### SPECIFICATIONS

- Materials:

|               |               |
|---------------|---------------|
| Cartridge     | PTFE/CTFE     |
| Filter screen | 316 stainless |

- For all 1/4-28 fitting details
- Dimensions:

|    |         |
|----|---------|
| OD | 5.20 mm |
|----|---------|

|                         |         |
|-------------------------|---------|
| Thickness               | 2.03 mm |
| Bore                    | 0.8 mm  |
| Filter surface diameter | 2 mm    |

- Tolerances  
±0.05 mm (.002")

#### TECH TIP

We recommend using these filter cartridges in combination with our low pressure fittings:

- PEEK unions
- Tees and crosses
- Manifolds
- Micro valves

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### PEEK In-Line Filter Kit - High Pressure

#### Overview

#### High pressure

- PEEK filters
- In-line filter kit
- Precolumn filter kit
- Sure-Guard
- Stainless UHPLC filters

#### Low pressure

- Replaceable metal-free polyethylene frits and biocompatible titanium frits
- 100% biocompatible
- Minimal hold-up volume
- Different porosities

The PEEK in-line filter traps fines and other particles from samples and mobile phases before they damage valuable instruments and columns.

This female-to-female design is made entirely of PEEK, with PEEK-encased titanium or polyethylene filter elements, for biocompatibility and chemical resistance. The design has virtually no hold-up volume and can be used in analytical applications with virtually no band broadening or loss of efficiency.

#### PEEK in-line filter kit

| Frit material | Pore size | Internal volume * | Maximum flow rate ** | Product No. |
|---------------|-----------|-------------------|----------------------|-------------|
| Titanium      | 0.5 µm    | 9.50 µL           | 25 ml/min            | JR-68247    |
|               | 2 µm      | 11.85 µL          | 30 ml/min            | JR-68253    |
|               | 10 µm     | 13.2 µL           | 30 ml/min            | JR-68257    |
| Polyethylene  | 10 µm     | 13.9 µL           | 30 ml/min            | JR-68257PE  |

\* The internal volume is the total flushed volume between the ends of the connecting tubes, including the frit volume.

\*\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

#### Replacement frits

| Frit material | Pore size | Internal volume | Qty/ pkg | Product No.   |
|---------------|-----------|-----------------|----------|---------------|
| Titanium      | 0.5 µm    | 6.87 µL         | 5        | JR-1125-05P-5 |
|               | 2 µm      | 9.24 µL         | 5        | JR-1125-2P-5  |
|               | 10 µm     | 10.56 µL        | 5        | JR-1125-10P-5 |
| Polyethylene  | 10 µm     | 11.31 µL        | 5        | JR-1151-10P-5 |



**SPECIFICATIONS**

- Materials:

|      |                        |
|------|------------------------|
| Body | PEEK                   |
| Frit | Titanium, polyethylene |

- 0.25/0.4 mm bore
- 10-32 threads
- Pressure rating  
<350 bar (< 5000 psi)

**SEE ALSO**

- Calculation of frit volume

**TECH TIP**

We recommend 2 µm frits for columns with 5 µm or larger particles, and 0.5 µm frits for smaller particles.

**NOTE**

Polyethylene frits are for single use only.

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Starter Kits

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

Starter kits

• Easy-Flange combi

• PEEK

• Stainless

• PEEK and stainless

#### Easy-Flange combi kit

Includes the Easy-Flange flange rolling tool, PTFE tubing, an assortment of fittings, and accessories.

- Product information



#### PEEK starter kit

Includes an assortment of PEEK fittings and tubing.

- Product information



#### Stainless starter kit

Includes an assortment of stainless steel fittings and tubing.

- Product information



#### ChromBox kit

A bit of both - a combination of PEEK and stainless steel tubing and fittings.

- Product information



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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### PEEK Starter Kit

#### Overview

#### Accessories for tubing

#### Accessories for fittings

#### Back-pressure regulators

#### Tools

#### Starter kits

• Easy-Flange combi

• PEEK

• Stainless

• PEEK and stainless

- All parts biocompatible
- Ideal kit for all HPLC users
- Includes fittings, ferrules, tubing, mobile phase filters, a union, and other useful tools and accessories

For a number of interesting LC applications involving proteins, peptides, nucleic acids, or other samples of biological origin, metal systems may interact with samples or release transition metals that will deactivate columns.

Replacing stainless steel parts (such as tubing fittings, ferrules, filters, etc.) with PEEK creates a biocompatible environment for samples and mobile phase.

The PEEK starter kit is ideal for anyone working in the field of bio-chromatography. It consists of fittings, ferrules, tubing, and mobile phase filters, as well as a union, our Clean-Cut tubing cutter, and other useful accessories like our tubing elbows all boxed together for a very competitive price!



| Description      |             |                                         | Qty. | Product No.  |
|------------------|-------------|-----------------------------------------|------|--------------|
| PEEK Starter Kit |             |                                         | 1    | JR-34N       |
| Includes:        | Fittings    | One-piece 10-32 fittings                | 5    | JR-5502-5    |
|                  |             | Fingertight 10-32 nuts                  | 5    | JR-5580-5    |
|                  |             | Long hex-head 10-32 nuts                | 5    | JR-5510-5    |
|                  |             | 1/16" double ferrules                   | 10   | JR-5004-10   |
|                  |             | Union, 0.25 mm bore, body only          | 1    | JR-061       |
|                  | Tubing      | 1/16" x 0.25 mm ID x 3 m, blue stripe   | 1    | JR-T-6001-M3 |
|                  |             | 1/16" x 0.50 mm ID x 3 m, orange stripe | 1    | JR-T-6002-M3 |
|                  | Filters     | In-line                                 | 1    | JR-68253     |
|                  |             | PTFE Last Drop, 5 µm                    | 1    | JR-9000-0521 |
|                  | Accessories | Tubing elbow, 90°                       | 1    | JR-357090    |

|  |       |                                   |   |           |
|--|-------|-----------------------------------|---|-----------|
|  |       | Tubing elbow, 180°                | 1 | JR-357180 |
|  | Tools | Clean-Cut polymeric tubing cutter | 1 | JR-797    |
|  |       | Tweezer                           | 1 | JR-806    |

SEE ALSO

- PEEK tubing
- PEEK fittings

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Stainless Steel Starter Kit

Overview

Accessories for fubing

Accessories for tittings

Back-pressure regulators

Tools

Starter kits

• Easy-Flange combi

• PEEK

• Stainless

• PEEK and stainless

Includes

- Nuts, ferrules, union, and tubing
- Tubing cutters and wrenches
- More accessories, all in a convenient carrying case

The kit consists of fittings, ferrules, tubing, and solvent filters, as well as a union, our cutting-wheel type metal tubing cutter, and other useful items like our ValvTool.

All boxed together for a very competitive price!



| Description                 |          |                          | Qty. | Product No.   |
|-----------------------------|----------|--------------------------|------|---------------|
| Stainless Steel Starter Kit |          |                          | 1    | JR-35S        |
| Includes:                   | Fittings | 13 mm long 10-32 nuts    | 5    | JR-MZN1-5     |
|                             |          | 19 mm long 10-32 nuts    | 5    | JR-LZN1-5     |
|                             |          | 1/16" ferrules           | 5    | JR-ZF1-5      |
|                             |          | Union, 0.25 mm bore      | 1    | JR-ZU1CS6     |
|                             | Tubing   | 1/16" x 0.25 mm x 3 m    | 1    | JR-TSS.510-M3 |
|                             |          | 1/16" x 0.50 mm ID x 3 m | 1    | JR-TSS.520-M3 |
|                             |          |                          |      |               |

|         |                                           |   |                  |
|---------|-------------------------------------------|---|------------------|
|         | 1/16" x<br>0.18 mm<br>ID x 100<br>mm      | 2 | JR-T-<br>97030   |
|         | 1/16" x<br>0.25 mm<br>ID x 200<br>mm      | 2 | JR-T-<br>97060   |
| Filters | Mobile<br>phase, 2<br>µm, 1/8"<br>pipe OD | 1 | JR-3675-2        |
|         | In-line, 25<br>mm ID                      | 1 | JR-9000-<br>0530 |
|         | Last Drop,<br>10 µm                       | 1 | JR-9000-<br>0532 |
| Tools   | ValvTool<br>1/4" x<br>5/16"<br>wrench     | 1 | JR-800           |
|         | 1/4" x<br>5/16"<br>open end<br>wrench     | 1 | JR-804           |
|         | Tubing<br>cutter                          | 1 | JR-792           |
|         | Tweezer                                   | 1 | JR-806           |

SEE ALSO

- Stainless steel tubing
- Stainless steel fittings

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### Last Drop Filter/Sparger - Low Pressure

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges
- Mobile phase filters
- Filter-spargers
- Last Drop
- Stainless steel

The Last Drop filter/sparger combines filtration and sparging in a single unit. The PTFE housing contains a mobile phase filter with either a stainless steel or a PTFE 2.5 micron filter element.

The filter/sparger features a PEEK tripod connector which slips into 1.5, 2.2, or 3.5 mm ID solvent lines, and a nut and ferrule for the sparging line.

Spargers have a porosity of 10 microns.

| Filter material | Pore size | Maximum flow rate * | Product No.   |
|-----------------|-----------|---------------------|---------------|
| PTFE            | 2.5 µm    | 1.2 ml/min          | JR-9000-0602  |
|                 | 5 µm      | 2.6 ml/min          | JR-9000-0603  |
|                 | 10 µm     | 3.5 ml/min          | JR-9000-0604  |
| Polyethylene    | 10 µm     | 11 ml/min           | JR-9000-0604H |
| Stainless       | 2 µm      | 28 ml/min           | JR-9000-0640  |
|                 | 5 µm      | 30 ml/min           | JR-9000-0641  |
|                 | 10 µm     | 30 ml/min           | JR-9000-0642  |



\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

#### SPECIFICATIONS

- Materials:

|       |                        |
|-------|------------------------|
| Body  | PTFE                   |
| Frits | PTFE/Type316 stainless |

|                          |      |
|--------------------------|------|
| Stepped tubing connector | PEEK |
| Nut                      | PEEK |
| Ferrule                  | ETFE |

- Stepped tubing connector for 1.5, 2.2, and 3.5 mm ID tubing
- 1/4-28 nut with ferrule for 1/8" OD tubing

#### SEE ALSO

- Last Drop mobile phase filters

#### TECH TIP

- We recommend metal free PTFE filters for sensitive biochromatography applications where metal surfaces may corrode or itneract with samples.

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### Last Drop Mobile Phase Filters - Low Pressure

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges
- Mobile phase filters
- Economy Last Drop
- Last Drop
- Last Drop biocompatible glass filter
- No-Met biocompatible
- Filter-spargers

- No loss of mobile phase
- Biocompatible PTFE frits or stainless steel frits
- Three porosity options
- Two connector types: stepped tubing and 1/4-28 fitting

The Last Drop mobile phase filter allows more analyses per batch of mobile phase and helps reduce hazardous waste. The flat filter element sits parallel to the bottom of the reservoir, allowing the Last Drop to filter all but the last 2% of the mobile phase from the reservoir without drawing air into the system. Compare this with conventional cylindrical filters that can begin to draw air into the system when nearly 10% of the solvent remains in the reservoir.

The Last Drop mobile phase filter consists of a 316 stainless or PTFE 2.5 µm filter element pressed into an inert PTFE housing. The top of the housing has a 1/4-28 nut and ferrule or a stepped PEEK fitting connector which slips into 1.5, 2.2, or 3.5 mm ID pump inlet lines.



| Connector type           | Filter material   | Pore size | Maximum flow rate * | Product No.    |               |
|--------------------------|-------------------|-----------|---------------------|----------------|---------------|
| Stepped tubing connector | PTFE              | 2.5 μm    | 1.2 ml/min          | JR-9000-0520   |               |
|                          |                   | 5 μm      | 2.6 ml/min          | JR-9000-0521   |               |
|                          |                   | 10 μm     | 3.5 ml/min          | JR-9000-0522   |               |
|                          | Polyethylene      | 10 μm     | 11 ml/min           | JR-9000-0522H  |               |
|                          | Stainless         | 2 μm      | 28 ml/min           | JR-9000-0530   |               |
|                          |                   | 5 μm      | 30 ml/min           | JR-9000-0531   |               |
|                          |                   | 10 μm     | 30 ml/min           | JR-9000-0532   |               |
|                          | Fitting connector | PTFE      | 2.5 μm              | 1.2 ml/min     | JR-9000-0520F |
|                          |                   |           | 5 μm                | 2.6 ml/min     | JR-9000-0521F |
| 10 μm                    |                   |           | 3.5 ml/min          | JR-9000-0522F  |               |
| Polyethylene             |                   | 10 μm     | 11 ml/min           | JR-9000-0522HF |               |

|  |           |       |           |               |
|--|-----------|-------|-----------|---------------|
|  | Stainless | 2 µm  | 28 ml/min | JR-9000-0530F |
|  |           | 5 µm  | 30 ml/min | JR-9000-0531F |
|  |           | 10 µm | 30 ml/min | JR-9000-0532F |

\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

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SPECIFICATIONS

- Materials:

|       |                        |
|-------|------------------------|
| Body  | PTFE                   |
| Frits | PTFE/Type316 stainless |

- Stepped tubing version is for 1.5, 2.2, and 3.5 mm ID tubing
- Fitting version (for 1/8" OD tubing) includes PEEK 1/4-28 nut with ETFE ferrule

SEE ALSO

- Last Drop mobile phase filter/spargers

TECH TIP

- We recommend metal-free PTFE filters for sensitive biochromatography applications where metal surfaces may corrode or interact with samples.

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# VICI JOUR - SAMPLE LOOPS



## Overview

Overview


PEEK loops

Stainless steel loops

ValvTool

Sample loops are accurately sized for each valve type. However, with small volume loops, the tolerance on the ID of the tubing ( $\pm 0.001''$ ) can have a significant effect on the volume. Therefore loop volume and loop appearance may differ from batch to batch.



| PEEK loops                                                                                                                                                                                                                                                                   | Stainless steel loops                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <p>PEEK loops for:</p> <ul style="list-style-type: none"><li>• Cheminert</li><li>• Rheodyne</li><li>• Valco</li></ul>                                                                                                                                                        | <p>Stainless loops for:</p> <ul style="list-style-type: none"><li>• Cheminert</li><li>• Rheodyne</li><li>• Valco</li></ul> |
| ValvTool                                                                                                                                                                                                                                                                     |                                                                                                                            |
| <p>The ValvTool tightens nuts with tube or loop installed, providing easy access to many hard-to-reach areas.</p> <ul style="list-style-type: none"><li>• Product information</li></ul>  |                                                                                                                            |



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## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Manifolds

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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

VICI Jour manifolds 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 0.75 mm bore for applications where low flowrate or low dead volume is required. Tees with 1.50 mm through-holes are preferred for high flowrate applications.

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

A manifold with fittings includes:

- 5 or 9 PPS flangeless hex-head nuts
- 5 or 9 ETFE inverted ferrules
- 5 or 9 Color-Sleeve adapters



### PEEK crosses

| Tubing OD | Description            |         | Bore (mm) | Product No. |
|-----------|------------------------|---------|-----------|-------------|
| 1/16"     | Complete with fittings | 5 ports | 0.75      | JR-C5M1PK   |
|           |                        | 9 ports | 0.75      | JR-C9M1PK   |
|           | Body only              | 5 ports | 0.75      | JR-B-C5M1PK |
|           |                        | 9 ports | 0.75      | JR-B-C9M1PK |
| 1/8"      | Complete with fittings | 5 ports | 1.50      | JR-C5M2PK   |
|           |                        | 9 ports | 1.50      | JR-C9M2PK   |
|           | Body only              | 5 ports | 1.50      | JR-B-C5M2PK |
|           |                        | 9 ports | 1.50      | JR-B-C9M2PK |

### Spare parts

| Description            | Tubing OD | Qty/pkg | Product No. |
|------------------------|-----------|---------|-------------|
| PPS flangeless nuts    | 1/16"     | 10      | JR-55070-10 |
|                        | 1/8"      | 10      | JR-55071-10 |
| Inverted ETFE ferrules | 1/16"     | 10      | JR-041-10   |
|                        | 1/8"      | 10      | JR-051-10   |

Top ▲

## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|          |      |
|----------|------|
| Body     | PEEK |
| Nuts     | PPS  |
| Ferrules | ETFE |

- 1/4-28 threads
- Body size:

|         |                                   |
|---------|-----------------------------------|
| 5 ports | 25.0 mm diameter<br>17.1 mm thick |
| 9 ports | 25.0 mm diameter<br>28.6 mm thick |

- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used

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## VICI JOUR - LOW PRESSURE FITTINGS

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### Micro Valves for LC and GC

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

- 200 psi, 1.50 mm bore
- Compact 1" design
- Convenient panel mount (8 mm hole required)
- Variety of configurations

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

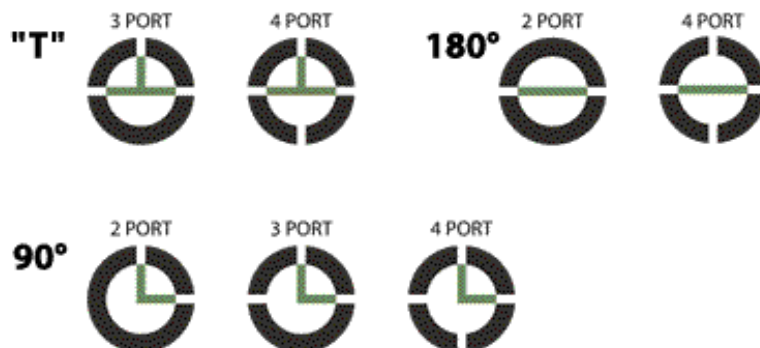
Internal parts are PEEK and PTFE.

Includes fittings for 1/8" OD tubing:

- PPS flangeless hex-head nuts
- CTFE collapsible ferrules
- Color-Sleeve adapters



#### Flowpath configurations



#### Micro valves

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

### Spare parts

| Description          |      | Tubing OD | Qty/pkg | Product No.  |
|----------------------|------|-----------|---------|--------------|
| PPS flangeless nuts  |      | 1/16"     | 10      | JR-55050-10  |
|                      |      | 1/8"      | 10      | JR-55051-10  |
| Collapsible ferrules | PEEK | 1/16"     | 10      | JR-CFL-CB1PK |
|                      | CTFE | 1/8"      | 10      | JR-CFL-CB2KF |

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## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|              |                             |
|--------------|-----------------------------|
| Wetted parts | PEEK, PTFE                  |
| Body         | PEEK                        |
| Nuts         | PPS                         |
| Ferrules     | CTFE (1/8") or PEEK (1/16") |

- 1/4-28 threads
- 1.50 mm bore
- Body size:

|         |                                   |
|---------|-----------------------------------|
| 5 ports | 25.0 mm diameter<br>17.1 mm thick |
| 9 ports | 25.0 mm diameter<br>28.6 mm thick |

- Pressure rating:
  - 200 psi gas
    - Tested with helium using 1/16" OD x 0.84 mm ID PTFE tubing with PEEK collapsible ferrules
  - 500 psi liquid
    - Tested with isopropanol using 1/8" OD x 0.75 mm ID PTFE tubing with CTFE collapsible ferrules

## SEE ALSO

- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with collapsible ferrules, inverted ferrules or flanged connections can also be used

## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Mixing Tees

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

##### • Tees

##### • Biocompatible mixing tee

##### • Crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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

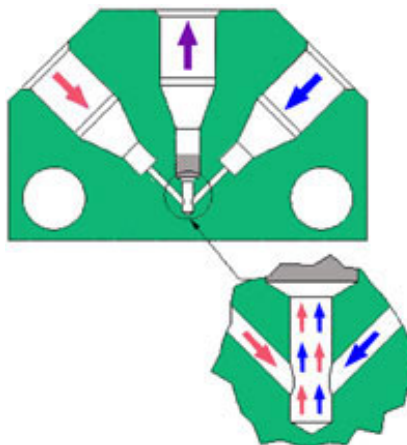
A unique mixing results from the the turbulence created by the introduction angle of the solvents. The mixing is much more thorough than with a conventional tee.

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



#### PEEK tees

| Tubing OD | Description            | Bore (mm) | Product No. |
|-----------|------------------------|-----------|-------------|
| 1/16"     | Complete with fittings | 0.75      | JR-CM1XPK   |
|           | Body only              | 0.75      | JR-B-CM1XPK |
| 1/8"      | Complete with fittings | 1.50      | JR-CM2XPK   |
|           | Body only              | 1.50      | JR-B-CM2XPK |

#### Spare parts

| Description         | Tubing OD | Qty/pkg | Product No. |
|---------------------|-----------|---------|-------------|
| PPS flangeless nuts | 1/16"     | 10      | JR-55070-10 |

|                        |       |    |             |
|------------------------|-------|----|-------------|
|                        | 1/8"  | 10 | JR-55071-10 |
| Inverted ETFE ferrules | 1/16" | 10 | JR-041-10   |
|                        | 1/8"  | 10 | JR-051-10   |

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## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|          |      |
|----------|------|
| Body     | PEEK |
| Nuts     | PPS  |
| Ferrules | ETFE |

- 1/4-28 threads
- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- High pressure PEEK mixing tees
- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used



## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### Mobile Phase Filters

#### Overview

#### High pressure

#### Low pressure

- In-line filter cartridges

- Mobile phase filters

- Economy Last Drop

- Last Drop

- Last Drop biocompatible glass filter

- No-Met biocompatible

- Filter-spargers

#### Economy Last Drop mobile phase filter

Very competitively priced, the PTFE filter body comes in two sizes for various bottle neck dimensions. Frits are PTFE or stainless.



- Product information

#### Last Drop mobile phase filter

The Last Drop's flat filter element sits parallel to the bottom of the reservoir, allowing the Last Drop to filter all but the last 2% of the mobile phase from the reservoir without drawing air into the system.



- Product information

#### Last Drop biocompatible glass mobile phase filter

Because it has ceramic or glass frits, this glass filter's flowrate can be much higher than PTFE mobile phase filters.



- Product information

#### Mo-Met biocompatible mobile phase filters

The No-Met polyethylene filter with inert polymeric fittings is designed for applications in which stainless steel is not acceptable in the flowpath, such as those which involve the separation of biomolecules.



- Product information

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# VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



## Overview

Overview

Caps

VICI safety filters

Bottles

SolviFlex

- Save cost on solvents
- Avoid hazardous air in the laboratories
- Increase reproducibility of chromatographic analyses

VICI strives to provide customers with the best solutions for their problems, making the work better and/or easier with respect to environment and health.



| Caps                                                                              | VICI safety filters                                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Safety caps and safety cap kits</li></ul> | <ul style="list-style-type: none"><li>• Air inlet valves</li><li>• Air outlet valve</li></ul> |
| <ul style="list-style-type: none"><li>• VICI caps and VICI cap kits</li></ul>     | <ul style="list-style-type: none"><li>• Exhaust filters</li></ul>                             |
| <ul style="list-style-type: none"><li>• Eco-Caps</li></ul>                        | <b>Bottles</b>                                                                                |
| <ul style="list-style-type: none"><li>• Waste caps</li></ul>                      | <ul style="list-style-type: none"><li>• Safety-coated glass bottles</li></ul>                 |



## SolviFlex

Flexible coiled PFA tubing expands and contracts, giving flexibility to move mobile phase bottles on the bench.

- Product information



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## VICI JOUR - NANOVOLUME FITTINGS



### Overview

Overview

360 micron

1/32"

Tools for fittings

Nanovolume fittings have bore sizes of 100 or 150  $\mu\text{m}$  (.004"-.006"). 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.



#### Nanovolume fittings for 360 micron OD tubing

Our newest high pressure fittings permit direct connection of 360  $\mu\text{m}$  OD tubing fused silica, PEEK, stainless, or electroformed nickel without the use of liners.

- 360  $\mu\text{m}$  fittings:
  - For metal tubing, <20K psi
  - For fused silica tubing,  $\geq$ 10K psi
  - For PEEK or FS tubing, <10K psi



#### Nanovolume fittings for 1/32" tubing

Cheminert 1/32" Nanovolume fittings, with 100  $\mu\text{m}$  or 150  $\mu\text{m}$  bore, are ideal for high resolution capillary chromatography. Rated at 5000 psi with fingertight nuts, they will remain leak-tight well beyond the burst strength of most PEEK tubing.



- Product information

### MORE INFORMATION

- Properties of polymers

## VICI JOUR - NANO VOLUME FITTINGS



### 360 Micron Fittings Nanovolume

#### Overview

#### 360 micron

- For metal tubing, < 20K psi

- For fused silica tubing, ≥ 10K psi

- For PEEK or FS tubing, < 10K psi

1/32"

#### Tools for fittings

- For direct connection of 360 micron 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 new 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.



Tees and crosses for PEEK or FS tubing 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 metal tubing, < 20K psi

Nut/ferrules, caps, unions, reducing unions



#### For fused silica tubing, ≥ 10K psi

Nut/ferrules, caps, unions, reducing unions



#### For PEEK or FS tubing, <10K psi

Nut/ferrules, caps, unions, reducing unions, tees, crosses



## VICI JOUR - NANOVOLUME FITTINGS



### Fittings for 1/32" Tubing

#### Overview

360 micron

1/32"

Tools for fittings



- 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.


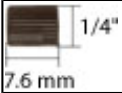
VICI Nanovolume fittings are as easy to handle as our standard analytical fittings and unions. The only difference is their size.

#### Unions and reducing union

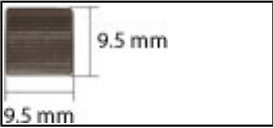


| Description*                                           |                                                                                      | Bore   | Product No.    |
|--------------------------------------------------------|--------------------------------------------------------------------------------------|--------|----------------|
| 1/32" Union<br>(external to internal)                  |   | 100 µm | JR-C-NEU.5XFPK |
|                                                        |                                                                                      | 150 µm | JR-C-NEU.5XFPK |
| 1/6" to 1/32" reducing union<br>(external to internal) |  | 150 µm | JR-C-NERU1FPK  |

\* See MORE INFORMATION at right

#### Nuts and ferrules

| Description           | 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 | 1/32" |  | JR-ZGF.5PK   |
|         | 1/16" |  | JR-ZGF1PK    |

SPECIFICATIONS

- For 1/32" OD PEEK or FS tubing
- Material: PEEK
- Thread size:

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

- Pressure rating:  
<350 bar (5,000 psi)  
(Varies with tubing material and ID)
- Tolerances: ±0.05mm  
(.002")

MORE INFORMATION

Unions include:

- 1/32" one-piece nut/ferrule
- 1/32" external nut
- 1/32" collapsible PEEK ferrule

Reducing unions include:

- 1/16" external nut
- 1/16" collapsible PEEK ferrule
- 1/32" one-piece nut/ferrule



## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### No-Twist "One-Piece" Fittings

#### Overview

#### One-piece

- PPS hex-head fittings
- PEEK fingertight
- Color-coded
- Natural
- PEEK hex-head
- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- Snap-in ferrule rotates freely
- Biocompatible
- Choice of ferrule materials

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, CTFE, or glass-filled PEEK.



| Nut type             |                                                                                                | Ferrule           | Qty/pkg | Product No.   |
|----------------------|------------------------------------------------------------------------------------------------|-------------------|---------|---------------|
| Fingertight          | <br>26.9 mm | PEEK              | 5       | JR-ZNF1FPK-5  |
|                      |                                                                                                | Glass-filled PEEK | 5       | JR-ZNF1FPKG-5 |
|                      |                                                                                                | CTFE              | 5       | JR-ZNF1FKF-5  |
| Hex, short           | <br>16.1 mm | PEEK              | 5       | JR-ZNF1PK-5   |
|                      |                                                                                                | Glass-filled PEEK | 5       | JR-ZNF1PKG-5  |
|                      |                                                                                                | CTFE              | 5       | JR-ZNF1KF-5   |
| Hex, medium          | <br>20.6 mm | PEEK              | 5       | JR-MZNF1PK-5  |
|                      |                                                                                                | Glass-filled PEEK | 5       | JR-MZNF1PKG-5 |
|                      |                                                                                                | CTFE              | 5       | JR-MZNF1KF-5  |
| Hex, long            | <br>26.9 mm | PEEK              | 5       | JR-LZNF1PK-5  |
|                      |                                                                                                | Glass-filled PEEK | 5       | JR-LZNF1PKG-5 |
|                      |                                                                                                | CTFE              | 5       | JR-LZNF1KF-5  |
| Replacement ferrules |                                                                                                | PEEK              | 5       | JR-ZNF1PK-F-5 |



|                   |   |                |
|-------------------|---|----------------|
| Glass-filled PEEK | 5 | JR-ZNF1PKG-F-5 |
| CTFE              | 5 | JR-ZNF1KF-F-5  |

SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK nut, ferrule of PEEK, CTFE, or glass-filled PEEK
- 10-32 threads
- Pressure rating: <350 bar (5000 psi)  
(Varies with tubing material and ID)

MORE INFORMATION

- Chemical resistance
- About PEEK
- About CTFE

SEE ALSO

- 1/16" OD tubing for high pressure applications
- ValvTool for tightening hex-head fittings
- Color-It fingertight adapters



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## VICI JOUR - HIGH PRESSURE STAINLESS STEEL FITTINGS



### Stainless Nuts

#### Overview

#### Nuts

- Valco
- Rheodyne

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Tools for fittings

#### MORE INFORMATION

- Properties of stainless

#### SEE ALSO

- High pressure Nanovolume fittings
- Stainless starter kit - HPLC parts kit with stainless fittings and tubing
- ChromBox kit - HPLC parts kit with PEEK and stainless fittings and tubing

#### Valco nuts

1/32", 1/16", and 1/8" Valco nuts are for use with all standard Valco internal fittings and most valves. They may be used with fittings from other manufacturers as well.



- Product information

#### Rheodyne nuts

1/16" Rheodyne nuts are for use with metal Rheodyne valves.

- Product information



## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Wrenches

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

• Ferrule removal kit

• File

• Hex key set

• Tweezer

• Wrenches

• ValvTool

• Tubing cutters

• For polymeric

• For stainless

Starter kits

- Sizes for 1/4", 5/16", 3/8", and 7/16"
- Fit typical 1/16" and 1/8" fittings



| Description                    | Product No. |
|--------------------------------|-------------|
| 1/4" and 5/16" open end wrench | JR-804      |
| 3/8" and 7/16" open end wrench | JR-805      |

## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### PEEK High Pressure Filters

#### Overview

#### High pressure

- PEEK filters
- In-line filter kit
- Precolumn filter kit
- Sure-Guard
- Stainless UHPLC filters

#### Low pressure

#### PEEK in-line filter kit

Replaceable frit, female-to-female all-PEEK inline filter traps fines and other particles from samples and mobile phases before they damage valuable instruments and columns.

- Product information



#### PEEK precolumn filter kit

PEEK precolumn filters have one male and one female connection and allow replacement of frits.

- Product information



#### Sure-Guard disposable in-line filter

An easy and inexpensive way of protecting valuable columns against fines and particles, the pressed-frit Sure-Guard filter can be changed in seconds without tools.

- Product information



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## VICI JOUR - FRITS



### PEEK-Encased Frits

Overview

Unidense frits

PEEK-encased frits

• Stainless

• Titanium

• Polyethylene

PEEK-encased frits surround the frit with a ring of PEEK, reducing the actual porous surface to the ID of an HPLC column.

The compressed PEEK ring forms a seal between the bottom of the fitting and the column end, preventing the mobile phase and the sample from entering the previously accessible poorly swept areas.



#### Stainless frits

Intended for HPLC columns with IDs of 3.2, 3.9, and 4.6 mm.

- Product information

#### Titanium frits

Intended for HPLC columns with IDs of 3.2 and 4.6 mm. Titanium is biocompatible and recommended for protein analysis.

- Product information

#### Polyethylene frits

Polyethylene frits are a competitively priced biocompatible alternative to titanium and are completely metal free.

- Product information

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS

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### PEEK One-Piece Fingertight Fittings - Natural

#### Overview

#### One-piece

- PPS hex-head fittings
- PEEK fingertight
- Color-coded
- Natural

- PEEK hex-head

- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- Fingertight up to 350 bar (5000 psi)
- Excellent chemical and mechanical properties
- One-piece no ferrule required
- Biocompatible
- Four styles, machined for extra precision

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.



| Description                     |                                                                                      | Qty/pkg | Product No. |
|---------------------------------|--------------------------------------------------------------------------------------|---------|-------------|
| Standard                        |   | 5       | JR-5502-5   |
| Short                           |  | 5       | JR-5504-5   |
| Long                            |  | 5       | JR-5507-5   |
| Narrow hex-head/<br>fingertight |  | 5       | JR-5508-5   |

## SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- 10-32 threads
- Tolerance:  $\pm 0.05$  mm (.002")
- Pressure rating:  
< 350 bar (5000 psi)  
(Varies with tubing material and ID)

## MORE INFORMATION

- Chemical resistance
- About PEEK

## SEE ALSO

- 1/16" OD tubing for high pressure applications

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## VICI JOUR - SAMPLE LOOPS



### PEEK Loops

Overview

PEEK loops

• Cheminert

• Rheodyne

• Valco

Stainless steel loops

ValvTool

For Cheminert valves



For Rheodyne valves



For Valco valves



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Tees and Crosses

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[Fingertight adapters](#)
[Plugs and caps](#)
[Unions and reducing unions](#)
[Tees and crosses](#)

- Standard tees and crosses

- Biocompatible mixing tee

[Adapters](#)
[Tools for fittings](#)

#### MORE INFORMATION

- Chemical resistance
- About PEEK

#### Standard tees and crosses

1/16" tees and crosses are available in a body-only version, or complete with one-piece fingertight fittings.

- Product information



#### Biocompatible mixing tee

This tee can be used for high pressure gradient mixing as well as for post column reactions.

- Product information



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## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Tees and Crosses

Overview

Nuts, ferrules, and washers

Fingertight adapters

Plugs

Unions and reducing unions

Tees and crosses

• Tees

• Biocompatible mixing tee

• Crosses

Manifolds

Micro valves for LC/GC

Peristaltic tubing adapter set

Polypropylene adapters

Tools for fittings

#### MORE INFORMATION

- Properties of polymers

#### Tees

Tees connect three 1/16" or 1/8" OD lines.

- Product information



#### Crosses

Crosses connect four 1/16" or 1/8" OD lines.

- Product information



#### Biocompatible mixing tee

Solvent streams mix more thoroughly with a mixing tee than with a standard tee.

- Product information



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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### PEEK Tubing

#### Overview

#### PEEK

- Dual layer
- Natural
- Solid color
- Striped color

#### Other polymers

#### Stainless steel

#### Tubing accessories

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel.

The polymer surface will not leach metal ions into the eluent or extract metal-sensitive components from the sample.



#### Dual-layer PEEK

With an inner layer of natural PEEK and an outer layer of color-coded PEEK, there is no possibility of stream contents coming in contact with coloring agents.

- Product information

#### Natural PEEK

Available in ODs from 360 micron to 1/4", in custom lengths (priced per meter) and precut lengths of 3 and 10 meters.

- Product information

#### Solid color PEEK

Color coding identifies the ID of your PEEK tubing. Each ID is coded with a different color.

- Product information

#### Striped color PEEK

A stripe is added to the outside of the tubing, so dye never contacts the fluid stream.

- Product information

#### MORE INFORMATION

- Maximum working pressure

## VICI JOUR - TUBING FOR CHROMATOGRAPHY

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### Natural PEEK Tubing

#### Overview

#### PEEK

- Dual layer
- Natural
- Solid color
- Striped color

#### Other polymers

#### Stainless steel

#### Tubing accessories

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel.

The polymer surface will not leach metal ions into the eluent or extract metal-sensitive components from the sample. Note however that dichloromethane, THF, and DMSO may cause swelling in PEEK, and concentrated nitric and sulphuric acid will attack PEEK.

| OD     | ID       | Qty/pkg   | Product No.    |
|--------|----------|-----------|----------------|
| 360 µm | 75 µm    | 3 m       | JR-T-6060-M3   |
|        |          | 10 m      | JR-T-6060-M10  |
| 1/32"  | 0.13 mm  | 3 m       | JR-T-5993-M3   |
|        |          | 10 m      | JR-T-5993-M10  |
| 1/16"  | 0.064 mm | 3 m       | JR-T-5998-M3   |
|        |          | 10 m      | JR-T-5998-M10  |
| 1/8"   | 0.75 mm  | 3 m       | JR-T-6004-M3   |
|        |          | 10 m      | JR-T-6004-M10  |
|        | 1.59 mm  | 3 m       | JR-T-60041-M3  |
|        |          | 10 m      | JR-T-60041-M10 |
|        | 2 mm     | 3 m       | JR-T-60042-M3  |
|        |          | 10 m      | JR-T-60042-M10 |
| 1/4"   | 3.17 mm  | per meter | JR-T-6006      |



Top ▲

#### SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous) for 1/16" OD tubing with ID ≤0.75 mm

- Maximum working pressure

---

#### MORE INFORMATION

- Chemical resistance
- Chemical resistance of PEEK at higher temperatures
- Tubing ID chart: volume per length
- Maximum pressure chart: variation by ID
- PEEK tubing tolerances
- About PEEK

---

#### SEE ALSO

- Clean-cut tubing cutter
- PEEK fingertight fittings
- PEEK flangeless fittings
- PEEK tubing elbows

---

#### OPTIONS

Contact us for more info about:

- Other package sizes and tubing lengths
- Customized ODs and IDs (30 m minimum quantity)

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### PEEK Tubing Elbows

Overview

PEEK

Other polymers

Stainless steel

Tubing accessories

• Easy-Flange kit

• Easy-Flange combi kit

• PEEK tubing elbows

• Tubing cutters for polymeric tubing

• Clean-cut

• Guillotine

• Tubing cutters for stainless tubing

• Cutting wheel type

• Plier type

• Tubing clip the LC tubing organizer

- Ideal for



routing 1/16" OD PEEK tubing

- Optimum radius for preventing kinking
- For 90° and 180° bends

| Description | Product No. |
|-------------|-------------|
| 90° elbow   | JR-357090   |
| 180° elbow  | JR-357180   |

#### SEE ALSO

- PEEK tubing

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### Unions and Reducing Unions

Overview

One-piece

Nuts and ferrules

Fingertight adapters

Plugs and caps

Unions and reducing unions

• Unions

• Bulkhead unions

• Reducing unions

Tees and crosses

Adapters

Tools for fittings

#### MORE INFORMATION

- Chemical resistance
- About PEEK

#### PEEK internal unions

1/16" unions are available in a body-only version, or complete with one-piece fingertight fittings.

- Standard unions
- Bulkhead unions



#### PEEK reducing unions

These unions connect two different sizes of tubing, with zero dead volume internal fittings on each end.



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### Unions and Reducing Unions

Overview

Nuts, ferrules, and washers

Fingertight adapters

Plugs

Unions and reducing unions

• Union body, polyamide

• PEEK unions

• PEEK bulkhead unions

• PEEK reducing unions

Tees and crosses

Manifolds

Micro valves for LC/GC

Peristaltic tubing adapter set

Polypropylene adapters

Tools for fittings

#### MORE INFORMATION

- Properties of polymers

#### Union body, polyamide

Through-bore body for joining two flanged tubing connections.

- Product information



#### PEEK unions

Unions for 1/16" and 1/8" OD tubing, in three bore sizes. Fittings are included.

- Product information



#### PEEK bulkhead unions

Unions in two bore sizes for 1/16" and 1/8" OD tubing, designed to be mounted through an instrument panel or bracket. Fittings are included.

- Product information



#### PEEK reducing union

Connects 1/4" OD tubing to 1/8" OD tubing.

- Product information





## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### PFA Tubing

#### Overview

#### PEEK

#### Other polymers

• ETFE

• FEP

• Color-coded

• Natural

• PFA

• PTFE

• Color-coded

• Natural

• Impermeable

• Thermo-formed

#### Stainless steel

#### Tubing accessories

PFA (perfluoroalkoxy) tubing from VICI Jour has excellent chemical stability and mechanical strength. 1/16" OD high purity tubing has a maximum pressure rating of up to 100 bar (1450 psi), while 1/8" OD tubing can be used at up to 72 bar (1050 psi).

Always use PFA instead of PTFE if gas permeability is an issue.

| OD     | ID      | Qty/pkg   | Product No.    |
|--------|---------|-----------|----------------|
| 360 µm | 50 µm   | 1 m       | JR-T-43650-M1  |
|        |         | 3 m       | JR-T-43650-M3  |
|        | 75 µm   | 1 m       | JR-T-43675-M1  |
|        |         | 3 m       | JR-T-43675-M3  |
|        | 100 µm  | 1 m       | JR-T-436100-M1 |
|        |         | 3 m       | JR-T-436100-M3 |
|        | 150 µm  | 1 m       | JR-T-436150-M1 |
|        |         | 3 m       | JR-T-436150-M3 |
| 1/16"  | 0.50 mm | 3 m       | JR-T-4001-M3   |
|        |         | 10 m      | JR-T-4001-M10  |
|        |         | 25 m      | JR-T-4001-M25  |
|        | 0.75 mm | 3 m       | JR-T-4002-M3   |
|        |         | 10 m      | JR-T-4002-M10  |
|        |         | 25 m      | JR-T-4002-M25  |
|        | 1.00 mm | 3 m       | JR-T-4007-M3   |
|        |         | 10 m      | JR-T-4007-M10  |
|        |         | 25 m      | JR-T-4007-M25  |
|        | 1.59 mm | 3 m       | JR-T-4003-M3   |
|        |         | 10 m      | JR-T-4003-M10  |
|        |         | 25 m      | JR-T-4003-M25  |
| 1/8"   | 1.70 mm | per meter | JR-T-4005      |



|       |         |           |           |
|-------|---------|-----------|-----------|
| 3/16" | 3.20 mm | per meter | JR-T-4009 |
| 1/4"  | 4.35 mm | per meter | JR-T-4004 |

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## MORE INFORMATION

- Maximum working pressure
- Chemical resistance
- Tubing ID chart: volume per length
- Tubing tolerances
- About PFA

## SEE ALSO

- Clean-cut tubing cutter
- Fingertight fittings

## OPTIONS

Contact us for more info about:

- Other package sizes and tubing lengths
- Customized ODs and IDs (30 m minimum quantity)

## TECH TIP

Use PFA instead of PTFE if gas permeability is an issue.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### PTFE Tubing

#### Overview

#### PEEK

#### Other polymers

- ETFE
- FEP
- Color-coded
- Natural
- PFA
- PTFE
- Color-coded
- Natural
- Impermeable
- Thermo-formed

#### Stainless steel

#### Tubing accessories

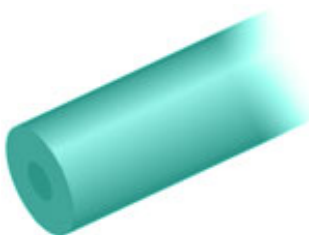
PTFE (polytetrafluoroethylene) tubing is chemically inert and suitable for lower pressure applications. Typically 1/16" OD tubing holds up to 62 bar (900 psi) and 1/8" up to 35 bar (500 psi). Maximum continuous operating temperature is 100°C.

PTFE tubing is available in a color-coded version for easy identification of the ID. Black PTFE, available in two IDs, is recommended for light sensitive applications such as enzymatic reactions, luminescent reactions, and connections to a flow cell, and radioactive HPLC.

#### Color-coded PTFE tubing

Solid colored PTFE tubing is available in 1/16" OD.

- Product information



#### Natural PTFE tubing

Natural PTFE tubing is available in a range of ODs from 1/16" to 4.76 mm.

- Product information



#### SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous)

- Maximum working pressure

---

## MORE INFORMATION

- Chemical resistance
- Polymer tubing tolerances
- Tubing ID chart: volume per length
- Maximum pressure chart: variation by ID
- About PTFE

---

## TECH TIPS

- Use PFA instead of PTFE if gas permeability is an issue.
- Use black PTFE for for light sensitive applications such as enzymatic reactions, luminescent reactions, connection to a flow cell, and radioactive HPLC.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### PTFE Tubing - Natural

Overview

PEEK

Other polymers

• ETFE

• FEP

• Color-coded

• Natural

• PFA

• PTFE

• Color-coded

• Natural

• Impermeable

• Thermo-formed

Stainless steel

Tubing accessories

PTFE (polytetrafluoroethylene) tubing is chemically inert and suitable for lower pressure applications. Typically 1/16" OD tubing holds up to 62 bar (900 psi) and 1/8" up to 35 bar (500 psi). Maximum continuous operating temperature is 100°C.

Select tubing OD to view other product numbers:

1/16"    1/8"    1/4"    2 mm    4 mm    4.76 mm



#### 1/16" OD natural FEP tubing

| ID (mm) | Qty/pkg | Product No.   |
|---------|---------|---------------|
| 0.18    | 3 m     | JR-T-6805-M3  |
|         | 5 m     | JR-T-6805-M5  |
|         | 10 m    | JR-T-6805-M10 |
|         | 25 m    | JR-T-6805-M25 |
| 0.25    | 3 m     | JR-T-4011-M3  |
|         | 5 m     | JR-T-4011-M5  |
|         | 10 m    | JR-T-4011-M10 |
|         | 25 m    | JR-T-4011-M25 |
| 0.50    | 3 m     | JR-T-4183-M3  |
|         | 5 m     | JR-T-4183-M5  |
|         | 10 m    | JR-T-4183-M10 |
|         | 25 m    | JR-T-4183-M25 |
| 0.75    | 3 m     | JR-T-4036-M3  |
|         | 5 m     | JR-T-4036-M5  |
|         | 10 m    | JR-T-4036-M10 |
|         | 25 m    | JR-T-4036-M25 |
| 1.00    | 3 m     | JR-T-6807-M3  |
|         | 5 m     | JR-T-6807-M5  |

|      |               |
|------|---------------|
| 10 m | JR-T-6807-M10 |
| 25 m | JR-T-6807-M25 |

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## SPECIFICATIONS

- Max. recommended working temp: 100°C (continuous)
- Maximum working pressure

## MORE INFORMATION

- Chemical resistance
- Polymer tubing tolerances
- Tubing ID chart: volume per length
- Maximum pressure chart: variation by ID
- About PTFE

## SEE ALSO

- Clean-cut tubing cutter
- Flangeless fittings
- Flanged fittings

## TECH TIPS

- Use PFA instead of PTFE if gas permeability is an issue.
- Use black PTFE for for light sensitive applications such as enzymatic reactions, luminescent reactions, connectioning to a flow cell, and radioactive HPLC.

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## VICI JOUR - LOW PRESSURE FITTINGS

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### Peristaltic Tubing Adapter Set

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

- 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.

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 tubing)
- 2 Color-Sleeve adapters



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

### SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials

|          |      |
|----------|------|
| Body     | PEEK |
| Bushings | PEEK |
| Nuts     | PPS  |

Ferrules

ETFE

- 1/4-28 threads
- 1.50 mm bore
- Body size:  
28 mm long  
12 mm diameter

---

#### SEE ALSO

- Color-Sleeve adapters, in  
12 colors

---

#### TECH TIPS

- While these are typically  
used with collapsible  
ferrules, inverted ferrules  
or flanged connections can  
also be used

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Stainless Steel Tubing Cutter - Plier Type

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

• Easy-Flange kit

• Easy-Flange combi kit

• PEEK tubing elbows

• Tubing cutters for polymeric tubing

• Clean-cut

• Guillotine

• Tubing cutters for stainless tubing

• Cutting wheel type

• Plier type

• Tubing clip the LC tubing organizer

- For easy cutting of 1/16" tubing off a coil
- Reach "hard-to-get" places in an HPLC system
- Delivered in a plastic sheath

The pliers type of cutter can be used for quick cuts for non-critical applications or at "hard to get" places. However, for scientific equipment, we strongly recommend our pre-cut and cleaned SS tubing.

| Description                    | Product No. |
|--------------------------------|-------------|
| Tubing pliers for metal tubing | JR-796      |



SEE ALSO

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## VICI JOUR - LOW PRESSURE FITTINGS



### Polypropylene plugs for 10-32 or 1/4-28 fittings

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[Nuts, ferrules, and washers](#)
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[Plugs](#)
[Unions and reducing unions](#)
[Tees and crosses](#)
[Manifolds](#)
[Micro valves for LC/GC](#)
[Peristaltic tubing adapter set](#)
[Polypropylene adapters](#)
[Tools for fittings](#)

| Description |                                                                                   | Qty/pkg | Product No.  |
|-------------|-----------------------------------------------------------------------------------|---------|--------------|
| 10-32 male  |  | 10      | JR-072450-10 |
| 1/4-28 male |  | 10      | JR-072350-10 |

#### SPECIFICATIONS

- Material: Polypropylene
- 10-32 or 1/4-28 threads

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### PEEK Precolumn Filter Kit - High Pressure

#### Overview

#### High pressure

- PEEK filters
- In-line filter kit
- Precolumn filter kit
- Sure-Guard
- Stainless UHPLC filters

#### Low pressure

- 100% biocompatible
- Minimal hold-up volume
- Replaceable metal-free polyethylene frits and biocompatible titanium frits encased in PEEK
- Different porosities

The VICI Jour precolumn filter kit has a standard 10-32 fitting and fits direct to most column types without introducing additional dead volume.

The filter kit protects expensive columns against fine particles, which may otherwise accumulate on the column frit and lead to split peaks and high backpressure.



#### PEEK precolumn filter kit

| Frit material | Pore size | Internal volume * | Maximum flow rate ** | Product No. |
|---------------|-----------|-------------------|----------------------|-------------|
| Titanium      | 0.5 µm    | 11.5 µL           | 30 ml/min            | JR-68258    |
|               | 2 µm      | 13.85 µL          | 30 ml/min            | JR-68262    |
|               | 10 µm     | 15.2 µL           | 30 ml/min            | JR-68264    |
| Polyethylene  | 10 µm     | 15.9 µL           | 30 ml/min            | JR-68264PE  |

\* The internal volume is the hold-up volume between the end of the connecting tube and the filter 10-32 connector outlet, including the frit volume.

\*\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

#### Replacement frits

| Frit material | Pore size | Internal volume | Qty/ pkg | Product No.   |
|---------------|-----------|-----------------|----------|---------------|
| Titanium      | 0.5 µm    | 6.87 µL         | 5        | JR-1125-05P-5 |
|               | 2 µm      | 9.24 µL         | 5        | JR-1125-2P-5  |
|               | 10 µm     | 10.56 µL        | 5        | JR-1125-10P-5 |

|              |       |          |   |               |
|--------------|-------|----------|---|---------------|
| Polyethylene | 10 µm | 11.31 µL | 5 | JR-1151-10P-5 |
|--------------|-------|----------|---|---------------|

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## SPECIFICATIONS

- Materials:

|      |                        |
|------|------------------------|
| Body | PEEK                   |
| Frit | Titanium, polyethylene |

- 0.25/0.40 mm bore
- 10-32 threads
- Pressure rating  
<350 bar (< 5000 psi)

## SEE ALSO

- Calculation of frit volume

## TECH TIP

We recommend 2 µm frits for columns with 5 µm or larger particles, and 0.5 µm frits for smaller particles.

## NOTE

Polyethylene frits are for single use only.

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Reducing Unions

#### Overview

#### One-piece

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

##### • Unions

##### • Bulkhead unions

##### • Reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

- Easy connection of transfer/solvent lines
- For 1/16" tubing to 1/32" or 1/8" tubing to 1/16"
- 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.



#### Reducing unions with fittings

| Tubing OD      | Bore (mm) | Product No.  |
|----------------|-----------|--------------|
| 1/16" to 1/32" | 0.25      | JR-ZRU1.5FPK |
| 1/8" to 1/16"  | 0.75      | JR-ZRU21FPK  |

#### Spare parts

| Description                        |                              | Size  | Qty/pkg | Product No. |
|------------------------------------|------------------------------|-------|---------|-------------|
| For 1/16" to 1/32" reducing unions | Black one-piece PEEK fitting | 1/16" | 5       | JR-55021-5  |
|                                    | Fingertight PEEK nut         | 1/32" | 1       | JR-ZN.5FPK  |
|                                    | PEEK ferrule                 | 1/32" | 1       | JR-ZF.5PK   |
| For 1/8" to 1/16" reducing unions  | Hex-head PEEK nut            | 1/8"  | 5       | JR-ZN2PK-5  |
|                                    | PEEK ferrule                 | 1/8"  | 1       | JR-ZF2PK-5  |
|                                    | Black one-piece PEEK fitting | 1/16" | 5       | JR-55021-5  |

#### SPECIFICATIONS

- For 1/16" to 1/32" or 1/8" to 1/16" OD tubing
- Material: PEEK
- Threads:
  - 1/32": 6-40
  - 1/16": 10-32
  - 1/8": 5/16-24

## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Stainless Reducing Union

#### Overview

#### Nuts

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions

##### • Unions

##### • Reducing unions

#### Tees and crosses

#### Tools for fittings

- Easy connection of solvent lines
- Low dead volume
- For joining 1/16" OD tubing to 1/8" OD tubing

These reducing unions join 1/16" OD to 1/8" OD tubing. They are precision machined with a focus on the concentricity of the bore (0.75 mm) as well as on the finish of the surfaces to give an absolute leak-free connection.

The 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.

Two nuts and ferrules ship with each union.

| Description         | 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

- For joining 1/8" to 1/16" OD tubing
- Bore: 0.75 mm
- Material:
- Pressure rating:  
<1375 bar (20,000 psi)  
(Varies with tubing material and ID)

MORE INFORMATION

- o About stainless steel

SEE ALSO

- o Stainless steel tubing
- o ValvTool for tightening hex-head fittings

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|          |                |
|----------|----------------|
| Body     | Type<br>316 SS |
| Nuts     | Type<br>303 SS |
| Ferrules | Type<br>316 SS |

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## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Reducing Union - 1/4" to 1/8"

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

• Union body, polyamide

• PEEK unions

• PEEK bulkhead unions

• PEEK reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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

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

- One 1/8" white polypropylene flangeless nut
- One 1/8" CTFE ferrule
- One 1/4" polyacetal flangeless nut
- One 1/4" CTFE ferrule



#### PEEK reducing union

| Tubing OD    | Bore (mm) | Product No. |
|--------------|-----------|-------------|
| 1/4" to 1/8" | 1.5       | JR-CU4LPK   |

#### Spare parts

| Tubing OD | Description                     | Qty/pkg | Product No.    |
|-----------|---------------------------------|---------|----------------|
| 1/8"      | Flangeless nut, white propylene | 1       | JR-CFL-2W-S    |
|           | CTFE ferrule                    | 1       | JR-CFL-CB2KF-S |
| 1/4"      | Flangeless nut, polyacetal      | 1       | JR-CFL-4D      |
|           | CTFE ferrule                    | 1       | JR-CFL-CB4KF-S |



## SPECIFICATIONS

- For 1/4" to 1/8" OD tubing, flangeless connections
- Materials:

|          |      |            |
|----------|------|------------|
| Body     | PEEK |            |
| Ferrules | CTFE |            |
| Nuts     | 1/8" | PP         |
|          | 1/4" | Polyacetal |

- Threads:  
1/2-20 to 1/4-28
- Pressure rating:  
<35 bar (500 psi)  
(Varies with tubing material and ID)

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps S51 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps
- B53
- B83
- GLS80
- DIN60
- S51
- S61

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fit all bottles and canisters with S51 thread
- 4 ports
- 1/2-20 port for 1/4" OD tubing available
- Port for angled, barbed adapter available
- Prevent evaporation of volatile compounds

S51 caps seal the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Three ports can fit 1/8" and 1/16" OD tubing, while one port is suitable for 1/4" OD tubing. Unused ports should be closed with plugs.

A bottom-sealing barbed adapter to connect 4, 6, or 8 mm ID tubing can be ordered separately.

#### Includes:

- 1 cap, S51 thread
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1 set: 1/4" nut/ferrule
- 2 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 plug, 1/4" (1/2-20), where noted in product number chart






#### S51 Waste caps

| Threads | No. of ports | Includes                  | Product No. |
|---------|--------------|---------------------------|-------------|
| S51     | 4            | 1/4" plug                 | JR-S-15103  |
|         |              | Thread for barbed adapter | JR-S-15113  |

#### Spare parts

| Description                   |    |                    | Qty/<br>pkg | Product No. |
|-------------------------------|----|--------------------|-------------|-------------|
| Barbed adapter, 1/2-20 thread | PA | For 4 mm ID tubing | 1           | JR-S-40104  |
|                               |    | For 6 mm ID tubing | 1           | JR-S-40106  |
|                               |    | For 8 mm ID tubing | 1           | JR-S-40108  |

|                                              |       |                                                                                     |    |                |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------|----|----------------|
| 1/4-28 flangeless nuts                       | PPS   | For 1/16" OD tubing                                                                 | 10 | JR-55070-10    |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-55071-10    |
| Inverted ferrules                            | ETFE  | For 1/16" OD tubing                                                                 | 10 | JR-041-10      |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-051-10      |
| 1/4-28 plug                                  | PEEK  |  | 1  | JR-409         |
|                                              | PP    |  | 1  | JR-201999      |
| 1/2-20 nut                                   | POM   | For 1/4" OD tubing                                                                  | 1  | JR-CFL-4D      |
| Collapsible ferrule                          | CTFE  | For 1/4" OD tubing                                                                  | 1  | JR-CFL-CB4KF-S |
| 1/2-20 plug                                  | PTFE  |                                                                                     | 1  | JR-S-400007    |
| Barbed hose adapter,<br>1/8" ID tubing       | PA/PP |  | 1  | JR-075013      |
| Color-Sleeve adapters,<br>12 colors (2 each) | PP    | Color Sleeve adapters                                                               | 24 | JR-5808X-24    |

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## SPECIFICATIONS

- Connections:  
1/4-28, 1/2-20
- Materials:

|                |               |
|----------------|---------------|
| Closure        | Polypropylene |
| Insert         | PTFE          |
| O-ring         | NBR           |
| Nuts           | PPS/POM       |
| Ferrules       | ETFE/CTFE     |
| Sleeves        | Polypropylene |
| Plug           | PTFE          |
| Barbed adapter | PA/PP         |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTE

- One port must be reserved for the exhaust filter or the air inlet valve.

## TECH TIP

- With some restrictions, S51/S61 caps fit on DIN50/DIN60 bottles or canisters.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps S61 Threads

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps
- B53
- B83
- GLS80
- DIN60
- S51
- S61

#### VICI safety filters

#### Bottles

#### SolviFlex

- Fit all bottles and canisters with S51 thread
- 4 ports
- 1/2-20 port for 1/4" OD tubing available
- Port for angled, barbed adapter available
- Prevent evaporation of volatile compounds

S51 caps seal the bottle/cansiter with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Three ports can fit 1/8" and 1/16" OD tubing, while one port is suitable for 1/4" OD tubing. Unused ports should be closed with plugs.

A bottom-sealing barbed adapter to connect 4, 6, or 8 mm ID tubing can be ordered separately.

#### Includes:

- 1 cap, S61 thread
- 1 O-ring
- 1 set: 1/16" nut/ferrule/color-sleeve adapter
- 1 set: 1/4" nut/ferrule
- 2 sets: 1/8" nut/ferrule/color-sleeve adapter
- 1 plug, 1/4" (1/2-20), where noted in product number chart






#### S51 Waste caps

| Threads | No. of ports | Includes                  | Product No. |
|---------|--------------|---------------------------|-------------|
| S61     | 4            | 1/4" plug                 | JR-S-16103  |
|         |              | Thread for barbed adapter | JR-S-16113  |

#### Spare parts

| Description                   |    |                    | Qty/<br>pkg | Product No. |
|-------------------------------|----|--------------------|-------------|-------------|
| Barbed adapter, 1/2-20 thread | PA | For 4 mm ID tubing | 1           | JR-S-40104  |
|                               |    | For 6 mm ID tubing | 1           | JR-S-40106  |
|                               |    | For 8 mm ID tubing | 1           | JR-S-40108  |

|                                              |       |                                                                                     |    |                |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------|----|----------------|
| 1/4-28 flangeless nuts                       | PPS   | For 1/16" OD tubing                                                                 | 10 | JR-55070-10    |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-55071-10    |
| Inverted ferrules                            | ETFE  | For 1/16" OD tubing                                                                 | 10 | JR-041-10      |
|                                              |       | For 1/8" OD tubing                                                                  | 10 | JR-051-10      |
| 1/4-28 plug                                  | PEEK  |  | 1  | JR-409         |
|                                              | PP    |  | 1  | JR-201999      |
| 1/2-20 nut                                   | POM   | For 1/4" OD tubing                                                                  | 1  | JR-CFL-4D      |
| Collapsible ferrule                          | CTFE  | For 1/4" OD tubing                                                                  | 1  | JR-CFL-CB4KF-S |
| 1/2-20 plug                                  | PTFE  |                                                                                     | 1  | JR-S-400007    |
| Barbed hose adapter,<br>1/8" ID tubing       | PA/PP |  | 1  | JR-075013      |
| Color-Sleeve adapters,<br>12 colors (2 each) | PP    | Color Sleeve adapters                                                               | 24 | JR-5808X-24    |

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## SPECIFICATIONS

- Connections:  
1/4-28, 1/2-20
- Materials:

|                |               |
|----------------|---------------|
| Closure        | Polypropylene |
| Insert         | PTFE          |
| O-ring         | NBR           |
| Nuts           | PPS/POM       |
| Ferrules       | ETFE/CTFE     |
| Sleeves        | Polypropylene |
| Plug           | PTFE          |
| Barbed adapter | PA/PP         |

## MORE INFORMATION

- Chemical resistance

## SEE ALSO

- Color-Sleeve adapters
- Exhaust filters
- Air inlet valves

## NOTE

- One port must be reserved for the exhaust filter or the air inlet valve.

## TECH TIP

- With some restrictions, S51/S61 caps fit on DIN50/DIN60 bottles or canisters.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Safety Caps

#### Overview

#### Caps

##### • Safety caps

##### • DIN50

##### • GL45

##### • Safety cap kit

##### • VICI caps

##### • VICI cap kit

##### • Eco caps and kits

##### • Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

- Ideal configuration for delivery of mobile phase or collection of waste LC solutions.
- Built-in stopcocks for easy interruption of the fluid stream when removing tubing
- Two, three, and four color-coded ports available

VICI safety caps are designed with stopcocks to easily cut off the liquid stream. Color fittings allow for easy identification of the different streams.

#### DIN50 safety caps

Fit all bottles or canisters with DIN50 threads



#### GL45 safety caps

Fit all bottles with GL45 threads



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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Solviflex

Overview

Caps

VICI safety filters

Bottles

Solviflex

- Be "mobile" with mobile phase bottles
- Ideal for with VICI safety caps or VICI caps
- Customized version on request

The Solviflex is made of flexible telephone cable-like PFA tubing which expands and contracts, providing flexibility to move mobile phase bottles up to 1.5 m radius on the bench. Approximately 3 m of tubing is coiled with straight stretches of tubing at each end.

Includes:

- ~3 m coiled PFA tubing
- 2 sets: 1/4-28 nut/ferrules for 1/8" OD tubing
- 1 No-Met mobile phase filter

Order exhaust filter, bottle, and VICI cap or safety cap separately.

| Description        | Product No.   |
|--------------------|---------------|
| Solviflex assembly | JR-6120-50030 |



Solviflex tubing installed on a GL45 VICI cap and bottle

### SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Tubing   | PFA          |
| Nuts     | PPS          |
| Ferrules | ETFE         |
| Filter   | Polyethylene |

- 1/18" OD tubing

## VICI JOUR - HIGH PRESSURE STAINLESS STEEL FITTINGS



### Stainless Tees and Crosses

Overview

Nuts

Ferrules

Plugs and caps

Unions and reducing unions

Tees and crosses

• Tees

• Crosses

Tools for fittings

#### MORE INFORMATION

- Properties of stainless

#### SEE ALSO

- High pressure Nanovolume fittings
- Stainless starter kit - HPLC parts kit with stainless fittings and tubing
- ChromBox kit - HPLC parts kit with PEEK and stainless fittings and tubing

#### Tees

Tees join three pieces of 1/16" OD tubing. Nuts and ferrules are included.

- Product information



#### Crosses

Crosses join four pieces of 1/16" OD tubing. Nuts and ferrules are included.

- Product information



## VICI JOUR - HIGH PRESSURE STAINLESS STEEL FITTINGS



### Stainless Unions and Reducing Unions

Overview

Nuts

Ferrules

Plugs and caps

Unions and reducing unions

• Unions

• Reducing unions

Tees and crosses

Tools for fittings

#### MORE INFORMATION

- Properties of stainless

#### SEE ALSO

- High pressure Nanovolume fittings
- Stainless starter kit - HPLC parts kit with stainless fittings and tubing
- ChromBox kit - HPLC parts kit with PEEK and stainless fittings and tubing

#### Unions

Unions join two pieces of 1/16" OD tubing. Nuts and ferrules are included.

- Product information



#### Reducing union

Reducing unions connect 1/8" OD tubing to 1/16" OD tubing.

- Product information



## VICI JOUR - FRITS

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### Stainless Steel Frits - PEEK-Encased Type



#### Overview

#### Unidense frits

#### PEEK-encased frits

- Stainless
- Titanium
- Polyethylene

- For HPLC columns or in-line filters
- Eliminate poorly swept volume and improves peak symmetry
- Various porosities and dimensions available

Our PEEK-encased frits with 0.118" or 1/4" OD ring are intended for HPLC columns with IDs of 3.2, 3.9, and 4.6 mm. With the frit surrounded by a PEEK ring, the actual porous surface is reduced to the column ID.

The compressed PEEK ring forms a seal between the bottom of the fitting and the column end, preventing the mobile phase and the sample from entering the previously accessible poorly swept areas.

| Ring OD            | Frit OD            | Thickness          | Porosity | Frit volume | Qty/pkg | Product No.   |
|--------------------|--------------------|--------------------|----------|-------------|---------|---------------|
| .118"<br>(3.00 mm) | .038"<br>(0.97 mm) | .028"<br>(0.70 mm) | 0.5 µm   | 0.13 µL     | 5       | JR-1110-05P-5 |
|                    |                    |                    | 2 µm     | 0.18 µL     | 5       | JR-1110-2P-5  |
|                    |                    |                    | 5 µm     | 0.20 µL     | 5       | JR-1110-5P-5  |
|                    | .077"<br>(1.96 mm) | .028"<br>(0.70 mm) | 0.5 µm   | 0.55 µL     | 5       | JR-1111-05P-5 |
|                    |                    |                    | 2 µm     | 0.74 µL     | 5       | JR-1111-2P-5  |
|                    |                    |                    | 5 µm     | 0.80 µL     | 5       | JR-1111-5P-5  |
| .25"<br>(6.35 mm)  | .078"<br>(2.00 mm) | .062"<br>(1.59 mm) | 0.5 µm   | 1.30 µL     | 5       | JR-1104-05P-5 |
|                    |                    |                    | 2 µm     | 1.74 µL     | 5       | JR-1104-2P-5  |
|                    | .125"<br>(3.20 mm) | .062"<br>(1.59 mm) | 0.5 µm   | 3.32 µL     | 5       | JR-1102-05P-5 |
|                    |                    |                    | 2 µm     | 4.47 µL     | 5       | JR-1102-2P-5  |
|                    | .153"<br>(3.90 mm) | .062"<br>(1.59 mm) | 0.5 µm   | 4.94 µL     | 5       | JR-1101-05P-5 |
|                    |                    |                    | 2 µm     | 6.64 µL     | 5       | JR-1101-2P-5  |
|                    | .181"<br>(4.60 mm) | .032"<br>(0.80 mm) | 0.5 µm   | 3.46 µL     | 5       | JR-1103-05P-5 |
|                    |                    |                    | 2 µm     | 4.65 µL     | 5       | JR-1103-2P-5  |
|                    |                    | .062"<br>(1.59 mm) | 0.5 µm   | 6.87 µL     | 5       | JR-1100-05P-5 |
|                    |                    |                    | 2 µm     | 9.24 µL     | 5       | JR-1100-2P-5  |

## SPECIFICATIONS

- Material

|      |                        |
|------|------------------------|
| Frit | Stainless steel SS316L |
| Ring | PEEK                   |

- Tolerances  
 $\pm 0.05$  mm (.002")

## SEE ALSO

- Calculation of frit volume

## MORE INFORMATION

- Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI Jour directly.

## NOTES

- Stated frit porosities are only nominal and do not reflect the maximum pore size of a frit.

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## VICI JOUR - FRITS

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### Stainless Steel Frits - Unidense Type

#### Overview

#### Unidense frits

- Stainless
- Titanium
- Polyethylene

#### PEEK-encased frits

For both standard frits and those produced to custom specifications, these frits offer unexcelled reproducibility and precision. Proprietary manufacturing processes ensure uniformity and precise, repeatable dimensional control.

Stainless steel frits are manufactured of SS316L, which has extra-low carbon content. The sintering process used results in a strong bonding of the sinter metal particles. Depending on the grade of powder used, the porosity of the frit can be precisely tuned.



| OD                 | Thickness          | Porosity | Frit volume | Qty/pkg | Product No. |
|--------------------|--------------------|----------|-------------|---------|-------------|
| 1/16"<br>(1.59 mm) | .030"<br>(0.76 mm) | 0.5 µm   | 0.39 µL     | 5       | JR-.5FR1-5  |
|                    |                    | 1 µm     | 0.45 µL     | 5       | JR-1FR1-5   |
|                    |                    | 2 µm     | 0.53 µL     | 5       | JR-2FR1-5   |
|                    |                    | 10 µm    | 0.60 µL     | 5       | JR-10FR1-5  |
| 1/8"<br>(3.18 mm)  | .040"<br>(1.02 mm) | 0.5 µm   | 2.10 µL     | 5       | JR-.5FR2-5  |
|                    |                    | 1 µm     | 2.43 µL     | 5       | JR-1FR2-5   |
|                    |                    | 2 µm     | 2.83 µL     | 5       | JR-2FR2-5   |
|                    |                    | 10 µm    | 3.24 µL     | 5       | JR-10FR2-5  |
| 1/4"<br>(6.35 mm)  | .040"<br>(1.02 mm) | 0.5 µm   | 8.39 µL     | 5       | JR-.5FR4-5  |
|                    |                    | 2 µm     | 11.30 µL    | 5       | JR-2FR4-5   |
|                    |                    | 10 µm    | 12.91 µL    | 5       | JR-10FR4-5  |
| 3/8"<br>(9.53 mm)  | .040"<br>(1.02 mm) | 0.5 µm   | 18.91 µL    | 5       | JR-.5FR6-5  |
|                    |                    | 2 µm     | 25.45 µL    | 5       | JR-2FR6-5   |
|                    |                    | 10 µm    | 29.09 µL    | 5       | JR-10FR6-5  |
| 1/2"<br>(12.70 mm) | .040"<br>(1.02 mm) | 0.5 µm   | 33.58 µL    | 5       | JR-.5FR8-5  |
|                    |                    | 2 µm     | 45.2 µL     | 5       | JR-2FR8-5   |
|                    |                    | 10 µm    | 51.66 µL    | 5       | JR-10FR8-5  |
| 1"<br>(25.40 mm)   | .060"<br>(1.52 mm) | 2 µm     | 269.43 µL   | 5       | JR-2FR1K-5  |
|                    |                    | 10 µm    | 307.92 µL   | 5       | JR-10FR1K-5 |

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## SPECIFICATIONS

- Material: Stainless steel  
SS316L (sintered)
- Tolerances

|                    |                     |
|--------------------|---------------------|
| <5 mm OD           | ±0.05 mm<br>(.002") |
| 5-12 mm OD         | ±0.08 mm<br>(.003") |
| 12.5-25.4 mm<br>OD | ±0.20 mm<br>(.008") |

## SEE ALSO

- PEEK-encased stainless  
frits
- Calculation of frit volume

## MORE INFORMATION

- Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI Jour directly.

## NOTES

- Standard frits are without chamfers – chamfered frits are available on request.
- Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion.
- Stated frit porosities are only nominal and do not reflect the maximum pore size of a frit.

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### Stainless steel Loops

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• Cheminert

• Rheodyne

• Valco

[ValvTool](#)

#### For Cheminert valves



#### For Rheodyne valves



#### For Valco valves



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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS

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### Stainless Steel Mobile Phase Filter/Helium Sparger - Low Pressure

#### Overview

#### High pressure

#### Low pressure



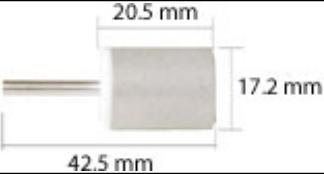
- In-line filter cartridges
- Mobile phase filters
- Filter-spargers
- Last Drop
- Stainless steel

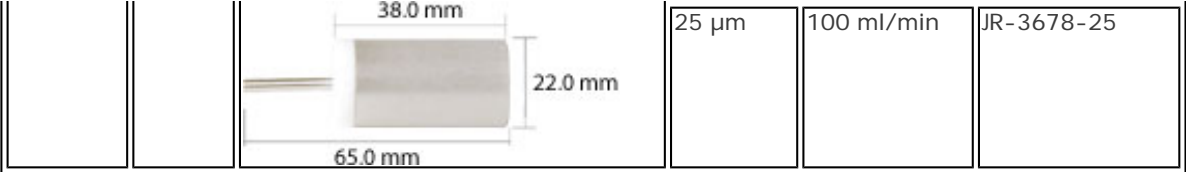
- Ideal for helium sparging
- Three porosities
- Fitting and pipe connectors

Mobile phase filters protect your HPLC system from small particles in the mobile phase. These filters are made from 316 stainless and PEEK or PTFE, and are suitable for use with most solvents.

Helium spargers offer an inexpensive way to prepare and maintain mobile phases free of dissolved gases. Connect these spargers to a regulated supply of helium gas (0-400 ml/min) to remove dissolved gases from the mobile phase. Spargers are made from 10 micron porosity stainless steel.



| Fitting type   | Tubing/pipe size |                                                                                      | Pore size | Maximum flow rate* | Product No.  |
|----------------|------------------|--------------------------------------------------------------------------------------|-----------|--------------------|--------------|
| 1/4-28 fitting | 1/16"            |   | 2 µm      | 35 ml/min          | JR-367016-2  |
|                |                  |                                                                                      | 10 µm     | 35 ml/min          | JR-367016-10 |
|                |                  |                                                                                      | 20 µm     | 35 ml/min          | JR-367016-20 |
|                | 1/8"             |  | 2 µm      | 35 ml/min          | JR-367008-2  |
|                |                  |                                                                                      | 10 µm     | 100 ml/min         | JR-367008-10 |
|                |                  |                                                                                      | 20 µm     | 120 ml/min         | JR-367008-20 |
| Pipe           | 1/8"             |  | 2 µm      | 50 ml/min          | JR-3678-2    |
|                |                  |                                                                                      | 2 µm      | 95 ml/min          | JR-3675-2    |



\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

SPECIFICATIONS

- Materials:

|                          |                         |
|--------------------------|-------------------------|
| Body                     | PTFE                    |
| Frits                    | PTFE/Type 316 stainless |
| Stepped tubing connector | PEEK                    |
| Nut                      | PEEK                    |
| Ferrule                  | ETFE                    |

TECH TIP

- We recommend our impermeable tubing to prevent "regassing" of helium-degassed solvents.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Stainless Steel Tubing

Overview

PEEK

Other polymers

Stainless steel

• Premium grade

• Standard

• Pre-cut

• Pre-cut, flexible

Tubing accessories

#### Bulk SS tubing

Type 316 stainless in a variety of sizes for HPLC and GC applications, featuring a smooth internal surface, and a soft annealed OD for easy ferrule connection. The standard grade has a welded seam, while premium grade is seamless.

- Premium, seamless
- Standard, welded seam

#### Pre-cut SS tubing

Our pre-cut Type 316 SS tubing is cut to square, burr-free ends and specially steam cleaned. 1/16" pre-cut tubing is available in lengths most commonly required in HPLC systems. Flexible pre-cut tubing is made of 1/32" premium grade stainless with laser-welded 1/16" ends. Both types have a dot of colored ink to identify the ID.

- Pre-cut tubing
- Flexible pre-cut tubing (1/32" tubing with 1/16" ends)

#### TECH TIP

We recommend pre-cut stainless steel tubing for zero dead volume connections.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY

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### Stainless Steel Tubing - Premium Grade

Overview

PEEK

Other polymers

Stainless steel

• Premium grade

• Standard

• Pre-cut

• Pre-cut, flexible

Tubing accessories

- Seamless Type 316 stainless steel
- Variety of sizes for HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections

Select tubing OD to view other product numbers:

1/32"    1/16"    1/8"

**1/32" OD premium stainless steel tubing**

| ID (mm) | Qty/<br>pkg | Product No.    |
|---------|-------------|----------------|
| 0.13    | 3 m         | JR-TSS.505-M3  |
|         | 10 m        | JR-TSS.505-M10 |
| 0.18    | 3 m         | JR-TSS.507-M3  |
|         | 10 m        | JR-TSS.507-M10 |
| 0.25    | 3 m         | JR-TSS.510-M3  |
|         | 10 m        | JR-TSS.510-M10 |
| 0.50    | 3 m         | JR-TSS.520-M3  |
|         | 10 m        | JR-TSS.520-M10 |



### SPECIFICATIONS

- Pressure rating (values shown are minimum varies with ID)

| OD    | bar | psi  |
|-------|-----|------|
| 1/32" | 400 | 5800 |
| 1/16" | 365 | 5300 |
| 1/8"  | 315 | 4600 |

- Tolerances

|    |                  |
|----|------------------|
| OD | ±0.05mm (.002")  |
| ID | ±0.025mm (.001") |

### MORE INFORMATION

- Tubing ID chart: view per length
- About Type 316 stainless steel

### SEE ALSO

- Stainless steel tubing cutter
- Valco stainless steel fittings

### TECH TIP

We recommend pre-stainless steel tubing zero dead volume connections.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Stainless Steel Tubing - Standard Grade

Overview

PEEK

Other polymers

Stainless steel

• Premium grade

• Standard

• Pre-cut

• Pre-cut, flexible

Tubing accessories

- Seamless Type 316 stainless steel, welded under inert gas
- Variety of sizes for HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections

| OD    | ID (mm) | Qty/pkg | Product No.     |
|-------|---------|---------|-----------------|
| 1/16" | 0.13    | 3 m     | JR-T-625-04-M3  |
|       |         | 10 m    | JR-T-625-04-M10 |
|       | 0.18    | 3 m     | JR-T-625-05-M3  |
|       |         | 10 m    | JR-T-625-05-M10 |
|       | 0.25    | 3 m     | JR-T-625-10-M3  |
|       |         | 10 m    | JR-T-625-10-M10 |
|       | 0.50    | 3 m     | JR-T-625-20-M3  |
|       |         | 10 m    | JR-T-625-20-M10 |
|       | 0.75    | 3 m     | JR-T-625-30-M3  |
|       |         | 10 m    | JR-T-625-30-M10 |
|       | 1.00    | 3 m     | JR-T-625-40-M3  |
|       |         |         |                 |



|      |      |           |                 |
|------|------|-----------|-----------------|
|      |      | 10 m      | JR-T-625-40-M10 |
| 1/8" | 2.1  | 3 m       | JR-T-626-00-M3  |
|      |      | 10 m      | JR-T-626-00-M10 |
| 1/4" | 4.65 | per meter | JR-T-628-00     |

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**SPECIFICATIONS**

- Pressure rating (values shown are minimum; rating varies with ID)

| OD    | bar | psi  |
|-------|-----|------|
| 1/16" | 315 | 4600 |
| 1/8"  | 315 | 4600 |

- Tolerances

|    |                 |
|----|-----------------|
| OD | ±0.05mm (.002") |
| ID | ±0.05mm (.002") |

**MORE INFORMATION**

- Tubing ID chart: volume per length
- About Type 316 stainless steel

**SEE ALSO**

- Stainless steel tubing cutter
- Valco stainless steel fittings

**TECH TIP**

We recommend pre-cut stainless steel tubing for zero dead volume connections.

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Pre-Cut Stainless Steel Tubing

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

- Premium grade

- Standard

- Pre-cut

- Pre-cut, flexible

#### Tubing accessories

- For zero dead volume connections
- Cleaned and ready to use
- Soft annealed OD for easy ferrule connections
- Color bands for quick identification

VICI Jour offers pre-cut 1/16" stainless steel tubing in lengths more commonly required in HPLC systems. These tubes are cut to square, burr-free ends for zero dead volume connections. Colored bands allow quick ID identification.

VICI pre-cut tubing is specially steam cleaned to remove both organic and inorganic contaminants. Softener-free PE caps are used to prevent any contamination during shipment and storage.



| OD    | ID (mm) | Color  | Length (mm) | Product No. |
|-------|---------|--------|-------------|-------------|
| 1/16" | 0.13    | Red    | 50          | JR-T-97005  |
|       |         |        | 100         | JR-T-97010  |
|       |         |        | 200         | JR-T-97015  |
|       |         |        | 300         | JR-T-97020  |
|       | 0.18    | Yellow | 50          | JR-T-97025  |
|       |         |        | 100         | JR-T-97030  |
|       |         |        | 200         | JR-T-97035  |
|       |         |        | 300         | JR-T-97040  |
|       | 0.25    | Blue   | 50          | JR-T-97045  |
|       |         |        | 100         | JR-T-97055  |
|       |         |        | 200         | JR-T-97060  |
|       |         |        | 300         | JR-T-97065  |

|  |      |        |     |            |
|--|------|--------|-----|------------|
|  | 0.50 | Orange | 50  | JR-T-97075 |
|  |      |        | 100 | JR-T-97080 |
|  |      |        | 200 | JR-T-97085 |
|  |      |        | 300 | JR-T-97090 |
|  | 0.75 | Green  | 50  | JR-T-97095 |
|  |      |        | 100 | JR-T-97100 |
|  |      |        | 200 | JR-T-97105 |
|  |      |        | 300 | JR-T-97110 |

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SPECIFICATIONS

- Pressure rating varies with ID; minimum is 365 bar (5300 psi)
- Tolerances

|    |                  |
|----|------------------|
| OD | ±0.05mm (.002")  |
| ID | ±0.025mm (.001") |

MORE INFORMATION

- Tubing ID chart: volume per length
- About Type 316 stainless steel

SEE ALSO

- Valco stainless steel fittings

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Pre-Cut Flexible Stainless Steel Tubing

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

- Premium grade

- Standard

- Pre-cut

- Pre-cut, flexible

#### Tubing accessories

- Seamless 1/32" tubing with 1/16" laser-welded ends
- For zero dead volume connections
- Cleaned and ready to use
- Soft annealed OD for easy ferrule connections
- Color bands for quick identification

VICI Jour offers pre-cut 1/16" stainless steel flexible tubing in lengths more commonly required in HPLC systems. All tubes are made of 1/32" premium grade Type 316 stainless steel tubing.

These tubes are cut to square, burr-free ends for zero dead volume connections. Colored bands allow quick ID identification.

VICI pre-cut tubing is specially steam cleaned to remove both organic and inorganic contaminants. Softener-free PE caps are used to prevent any contamination during shipment and storage.



| OD                           | ID (mm) | Color  | Length (mm) | Product No. |
|------------------------------|---------|--------|-------------|-------------|
| 1/32" tubing with 1/16" ends | 0.13    | Red    | 105         | JR-T-96005  |
|                              |         |        | 150         | JR-T-96010  |
|                              |         |        | 200         | JR-T-96015  |
|                              |         |        | 280         | JR-T-96020  |
|                              |         |        | 400         | JR-T-96025  |
|                              |         |        | 600         | JR-T-96030  |
|                              |         |        | 700         | JR-T-96035  |
|                              |         |        | 800         | JR-T-96040  |
|                              | 0.18    | Yellow | 105         | JR-T-96105  |
|                              |         |        | 150         | JR-T-96110  |
|                              |         |        | 200         | JR-T-96115  |
|                              |         |        | 280         | JR-T-96120  |
|                              |         |        | 400         | JR-T-96125  |

|  |      |        |     |            |
|--|------|--------|-----|------------|
|  | 0.25 | Blue   | 600 | JR-T-96130 |
|  |      |        | 700 | JR-T-96135 |
|  |      |        | 800 | JR-T-96140 |
|  |      |        | 105 | JR-T-96205 |
|  |      |        | 150 | JR-T-96210 |
|  |      |        | 200 | JR-T-96215 |
|  |      |        | 280 | JR-T-96220 |
|  |      |        | 400 | JR-T-96225 |
|  |      |        | 600 | JR-T-96230 |
|  | 0.50 | Orange | 700 | JR-T-96235 |
|  |      |        | 800 | JR-T-96240 |
|  |      |        | 105 | JR-T-96305 |
|  |      |        | 150 | JR-T-96310 |
|  |      |        | 200 | JR-T-96315 |
|  |      |        | 280 | JR-T-96320 |
|  |      |        | 400 | JR-T-96325 |
|  |      |        | 600 | JR-T-96330 |
|  |      |        | 700 | JR-T-96335 |
|  |      |        | 800 | JR-T-96340 |

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## SPECIFICATIONS

- Pressure rating varies with ID; minimum is 400 bar (5800 psi)
- Tolerances

|    |                  |
|----|------------------|
| OD | ±0.05mm (.002")  |
| ID | ±0.025mm (.001") |

## MORE INFORMATION

- Tubing ID chart: volume per length
- About Type 316 stainless steel

## SEE ALSO

- Valco stainless steel fittings
- Premium grade stainless steel tubing

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## VICI JOUR - FILTERS AND MOBILE PHASE FILTERS



### Sure-Guard In-Line Filter Kit - High Pressure

#### Overview

#### High pressure

- PEEK filters
- In-line filter kit
- Precolumn filter kit
- Sure-Guard
- Stainless UHPLC filters

#### Low pressure

- Minimal hold-up volume
- Disposable filter guard
- Titanium (biocompatible) and stainless steel frits, permanently pressed in place
- Two porosity options

The VICI Jour Sure-Guard disposable in-line filter offers an easy and inexpensive way to protect valuable columns against fines and particles. It is easily connected directly to any column, with an inlet for 1/16" OD tubes and 10-32 threads. The VICI Jour Sure-Guard can be changed in seconds without tools.



| Frit material   | Pore size | Frit volume * | Maximum flow rate ** | Qty pkg | Product No.    |
|-----------------|-----------|---------------|----------------------|---------|----------------|
| Stainless steel | 0.5 µm    | 0.45 µL       | 30 ml/min            | 3       | JR-0611-SS05-3 |
|                 | 2 µm      | 0.61 µL       | 30 ml/min            | 3       | JR-0611-SS2-3  |
| Titanium        | 0.5 µm    | 0.45 µL       | 30 ml/min            | 3       | JR-0611-TI05-3 |
|                 | 2 µm      | 0.61 µL       | 30 ml/min            | 3       | JR-0611-TI2-3  |

\* The internal volume is the total flushed volume between the ends of the connecting tubes, including the frit volume.

\*\* Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

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#### SPECIFICATIONS

- Materials:

|      |                           |
|------|---------------------------|
| Body | PEEK                      |
| Frit | Stainless steel, titanium |

- 0.4 mm bore
- 10-32 female to 10-32 male threads
- Pressure rating <350 bar (< 5000 psi)

## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Stainless Tees



#### Overview

#### Nuts

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

##### • Tees

##### • Crosses

#### Tools for fittings

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

VICI Stainless steel tees 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 give an absolute leak-free connection.

The tees 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.

Three nuts and ferrules ship with each tee.

| Description         | 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  |

### SPECIFICATIONS

- For 1/16" OD tubing
- Material:
- Body size:
  - 25.4 mm diameter
  - 9.5 mm thick
- Pressure rating:
  - <1375 bar (20,000 psi)
  - (Varies with tubing material and ID)

## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Tees

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

##### • Tees

##### • Biocompatible mixing tee

##### • Crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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

VICI Jour tees 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 0.80 mm and smaller through-holes for applications where low flowrate or low dead volume is required. Tees with 1.50 mm through-holes are preferred for high flowrate applications.

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

A tee with fittings includes:

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



### PEEK tees

| Tubing OD | Description            | Bore (mm) | Product No. |
|-----------|------------------------|-----------|-------------|
| 1/16"     | Complete with fittings | 0.50      | JR-6029     |
|           |                        | 0.80      | JR-6030     |
|           | Body only              | 0.50      | JR-6034     |
|           |                        | 0.80      | JR-6032     |
| 1/8"      | Complete with fittings | 1.50      | JR-6031     |
|           | Body only              | 1.50      | JR-6033     |

### Spare parts

| Description         | Tubing OD | Qty/pkg | Product No. |
|---------------------|-----------|---------|-------------|
| PPS flangeless nuts | 1/16"     | 10      | JR-55070-10 |
|                     | 1/8"      | 10      | JR-55071-10 |

|                        |       |    |           |
|------------------------|-------|----|-----------|
| Inverted ETFE ferrules | 1/16" | 10 | JR-041-10 |
|                        | 1/8"  | 10 | JR-051-10 |

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## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|          |      |
|----------|------|
| Body     | PEEK |
| Nuts     | PPS  |
| Ferrules | ETFE |

- 1/4-28 threads
- Body size:  
25.0 mm diameter  
17.1 mm thick
- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- High pressure PEEK tees
- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Thermo-Formed Polymeric Tubing

#### Overview

#### PEEK

#### Other polymers

• ETFE

• FEP

• Color-coded

• Natural

• PFA

• PTFE

• Color-coded

• Natural

• Impermeable

• Thermo-formed

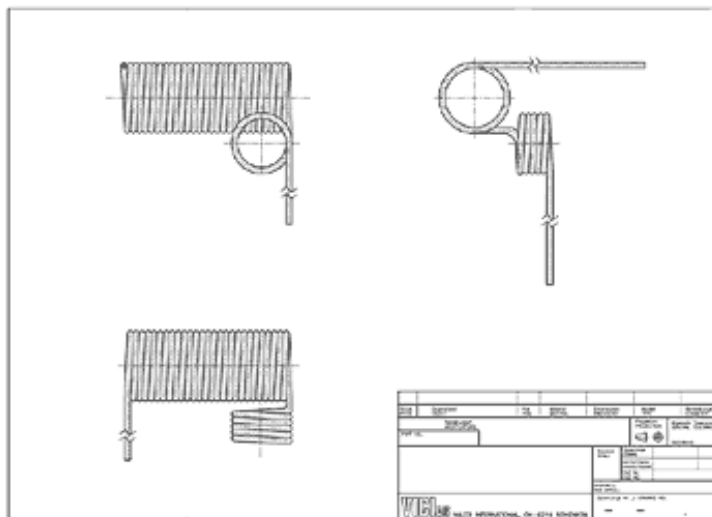
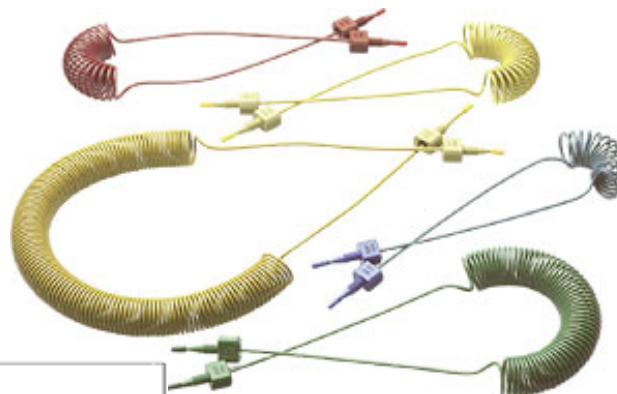
#### Stainless steel

#### Tubing accessories

- Available in a variety of polymers
- Provides axial flexibility
- Telephone cables or customer-specified shapes

VICI Jour offers thermo-formed tubing in various geometric shapes and polymers. The form will maintain its shape so long as the temperature does not exceed 100°C.

Straight tubing, spirals, or even more complex forms -- just define your form and material on a drawing for us.



#### FOR PRICING

Contact VICI or your local distributor for more information or a quotation.



## VICI JOUR - FRITS

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### Titanium Frits - PEEK-Encased Type



#### Overview

#### Unidense frits

#### PEEK-encased frits

• Stainless

• Titanium

• Polyethylene

- For HPLC columns or in-line filters
- Biocompatible - recommended for protein analysis
- Eliminate poorly swept volume and improves peak symmetry
- Higher corrosion resistance
- Various porosities and dimensions available

In terms of biocompatibility, the frit is the critical spot for contributing metal ions to the mobile phase and for interaction with protein samples.

VICI Jour PEEK-encased frits with 1/5" or 1/4" OD ring are intended for HPLC columns with IDs of 3.2 and 4.6 mm. With the frit surrounded by a PEEK ring, the actual porous surface is reduced to the column ID.

The compressed PEEK ring forms a seal between the bottom of the fitting and the column end, preventing the mobile phase and the sample from entering the previously accessible poorly swept areas.

| Ring OD           | Frit OD            | Thickness          | Porosity | Frit volume | Qty/pkg | Product No.   |
|-------------------|--------------------|--------------------|----------|-------------|---------|---------------|
| 1/5"<br>(5.08 mm) | .102"<br>(2.60 mm) | .062"<br>(1.59 mm) | 5 µm     | 3.21 µL     | 5       | JR-1128-5P-5  |
| 1/4"<br>(6.35 mm) | .125"<br>(3.20 mm) | .062"<br>(1.59 mm) | 0.5 µm   | 3.32 µL     | 5       | JR-1127-05P-5 |
|                   |                    |                    | 2 µm     | 4.47 µL     | 5       | JR-1127-2P-5  |
|                   | .181"<br>(4.60 mm) | .062"<br>(1.59 mm) | 0.5 µm   | 6.87 µL     | 5       | JR-1125-05P-5 |
|                   |                    |                    | 2 µm     | 2.94 µL     | 5       | JR-1125-2P-5  |
|                   |                    |                    | 5 µm     | 10.04 µL    | 5       | JR-1125-5P-5  |
|                   |                    |                    | 10 µm    | 10.56 µL    | 5       | JR-1125-10P-5 |

#### SPECIFICATIONS

- Material

|      |          |
|------|----------|
| Frit | Titanium |
| Ring | PEEK     |

## VICI JOUR - FRITS



### Titanium Steel Frits - Unidense Type

#### Overview

#### Unidense frits

• Stainless

• Titanium

• Polyethylene

#### PEEK-encased frits

- Biocompatible
- Recommended for protein analysis
- High corrosion resistance
- Various pore sizes and diameters

Titanium is preferred over stainless steel for applications related to the analysis of sensitive substances in general and large biomolecules in particular. Evidently proteins have a tendency to adsorb on the stainless steel (iron) frit and consequently reduce recovery or may even decompose. Titanium also offers higher corrosion resistance and can be used with solvents containing halides.



| OD                 | Thickness          | Porosity | Frit volume | Qty/pkg | Product No.  |
|--------------------|--------------------|----------|-------------|---------|--------------|
| 1/16"<br>(1.59 mm) | .030"<br>(0.76 mm) | 0.5 µm   | 0.82 µL     | 5       | JR-.5FR1TI-5 |
|                    |                    | 2 µm     | 0.71 µL     | 5       | JR-2FR1TI-5  |
| 1/8"<br>(3.18 mm)  | .040"<br>(1.02 mm) | 2 µm     | 2.83 µL     | 5       | JR-2FR2TI-5  |
| 1/4"<br>(6.35 mm)  | .040"<br>(1.02 mm) | 2 µm     | 11.30 µL    | 5       | JR-2FR4TI-5  |
| 3/8"<br>(9.53 mm)  | .040"<br>(1.02 mm) | 2 µm     | 25.45 µL    | 5       | JR-2FR6TI-5  |
| 1/2"<br>(12.70 mm) | .040"<br>(1.02 mm) | 2 µm     | 45.20 µL    | 5       | JR-2FR8TI-5  |
|                    |                    | 10 µm    | 51.66 µL    | 5       | JR-10FR8TI-5 |
| 1"<br>(25.40 mm)   | .060"<br>(1.52 mm) | 2 µm     | 180.80 µL   | 5       | JR-2FR1KTI-5 |

#### SPECIFICATIONS

- Material: Titanium (sintered)
- Tolerances

|          |                     |
|----------|---------------------|
| <5 mm OD | ±0.05 mm<br>(.002") |
|----------|---------------------|

## VICI JOUR - FRITS



### Unidense Frits

Overview

Unidense frits

• Stainless

• Titanium

• Polyethylene

PEEK-encased frits

VICI Jour unidense frits, with uniform flow across the entire frit, offer unexcelled reproducibility and precision. Proprietary manufacturing processes ensure uniformity and precise, repeatable dimensional control.



#### Stainless frits

Stainless steel frits are manufactured of SS316L which has extra-low carbon content. The sintering process results in a strong bonding of the sinter metal particles.

- [Product information](#)

#### Titanium frits

Titanium is preferred over stainless steel for applications related to the analysis of sensitive substances in general and large biomolecules in particular.

- [Product information](#)

#### Polyethylene frits

Polyethylene frits are a competitively priced biocompatible alternative to titanium and are completely metal free.

- [Product information](#)

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**CHROMATEC**  
 ECHNology Pty Ltd  
 +61(0)3 9762 2034

Australian Distributors  
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**IT12**

|                       |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|
| Ammonium hydroxide    | A | A | A | A | A | A | A | A |
| Aqua regia            | C |   |   | C | A |   | A |   |
| Aromatic hydrocarbons | A | B | C | A | A |   | A |   |

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MORE INFORMATION

- Chemical resistance of PEEK at higher temperatures

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|                    |                     |
|--------------------|---------------------|
| 5-12 mm OD         | ±0.08 mm<br>(.003") |
| 12.5-25.4 mm<br>OD | ±0.20 mm<br>(.008") |

## SEE ALSO

- PEEK-encased Titanium frits
- Calculation of frit volume

## MORE INFORMATION

- Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact **your local distributor** or VICI Jour directly.

## NOTES

- Standard frits are without chamfers – chamfered frits are available on request.
- Stated frit porosities are only nominal and do not reflect the maximum pore size of a frit.

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Tools

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

• Ferrule removal kit

• File

• Hex key set

• Tweezer

• Wrench

• ValvTool

• Tubing cutters

• For polymeric

• For stainless

Starter kits

#### Ferrule removal kit

Each kit includes two sizes of tapered stabbers for retrieving stuck capillary size ferrules.

- Product information



#### Hex key set

A wrench to fit any socket head screw on any VICI valve or actuator.

- Product information



#### Deburring file

A handy tool for cleaning up metal tubing ends.

- Product information



#### Tweezer

This tweezer is ideal for picking up small fittings and ferrules.

- Product information




#### Open end wrenches

These are standard garden variety open end wrenches which we stock as a convenience to our customers.

- Product information



| ValvTool                                                                                                                                                                                                                                                                                                    | Tubing cutters                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><p>The combination open end/slotted box wrench allows easy access to fittings that would otherwise be difficult to reach.</p><ul style="list-style-type: none"><li>• Product information</li></ul></div> <div></div> | <div><p>We offer four tubing cutters in all - two for polymeric and two for stainless.</p><ul style="list-style-type: none"><li>• For polymeric tubing</li><li>• For stainless tubing</li></ul></div> |

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Tools for Fittings

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

Starter kits

#### ValvTool

The combination open end/slotted box wrench allows easy access to fittings that would otherwise be difficult to reach.



- Product information

#### Open end wrenches

These are standard garden variety open end wrenches which we stock as a convenience to our customers.



- Product information

#### Tweezer

This tweezer is ideal for picking up small fittings and ferrules.



- Product information

#### Ferrule removal kit

Each kit includes two sizes of tapered stabbers for retrieving stuck capillary size ferrules.



- Product information

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Overview

Overview

PEEK

Other polymers

Stainless steel

Tubing accessories

We offer chromatography grade tubing in a variety of polymers as well as stainless steel. ODs are 360 µm, 1/32", 1/16", and 1/8".



| PEEK                                                                                                                                                                                                                                                                                               | Other polymeric tubing                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Solid color-coded PEEK</li> <li>• Striped color-coded PEEK</li> <li>• Dual-layer PEEK               <ul style="list-style-type: none"> <li>◦ Inner layer of natural PEEK, outer layer of color-coded PEEK.</li> </ul> </li> <li>• Natural PEEK</li> </ul> | <ul style="list-style-type: none"> <li>• ETFE</li> <li>• FEP               <ul style="list-style-type: none"> <li>◦ Solid color-coded</li> <li>◦ Natural</li> </ul> </li> <li>• PFA</li> <li>• PTFE               <ul style="list-style-type: none"> <li>◦ Solid color-coded</li> <li>◦ Natural</li> </ul> </li> <li>• Impermeable tubing               <ul style="list-style-type: none"> <li>◦ FEP tubing coated with PVDF</li> </ul> </li> <li>• Thermo-formed polymeric tubing</li> </ul> |
| Stainless steel                                                                                                                                                                                                                                                                                    | Tubing tools and accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• Premium grade</li> <li>• Standard</li> <li>• Pre-cut</li> </ul>                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Easy-Flange kit</li> <li>• Easy-Flange combi kit</li> <li>• PEEK tubing elbows</li> </ul>                                                                                                                                                                                                                                                                                                                                                            |

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- Pre-cut, flexible
- Tubing cutters for polymeric tubing
  - Clean-cut
  - Guillotine
- Tubing cutters for stainless tubing
  - Cutting wheel type
  - Plier type
- Tubing clip the LC tubing organizer

#### MORE INFORMATION

- Tubing ID chart: volume per length
- Properties of
  - •Metals
  - •Polymers

#### CUSTOM-BENT TUBING

We can supply stainless steel tubing bent and formed to custom shapes. To learn more about our custom tube bending service, contact VICI Precision Sampling. North American customers may call toll-free (800) 828-1653.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Polymeric Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

- For low- and mid-pressure applications
- Biocompatible



#### ETFE tubing

ETFE tubing is particularly suitable for HPLC, since it has a higher burst pressure as compared to PTFE. 1/16" OD x 0.25 mm ID tubing will withstand up to 186 bar (2700 psi) with water as mobile phase.

- Product information

#### FEP tubing

FEP is chemically inert to most HPLC solvents, and is especially recommended for ion chromatography applications. Available in natural and color-coded versions.

- Color-coded
- Natural

#### PFA tubing

PFA has excellent chemical stability and mechanical strength. Use it instead of PTFE if gas permeability is an issue.

- Product information

#### PTFE tubing

PTFE is chemically inert and suitable for lower pressure applications. Available in natural and color-coded versions.

- Color-coded
- Natural

#### Impermeable tubing

FEP coated with PVDF combines the chemical resistance of FEP with the tight, impermeable structure of PVDF. Make sure that degassed solvents stay that way.

- Product information

#### Thermo-formed tubing

We offer thermo-formed tubing in a variety of geometric shapes, per your specifications.

- Product information

## MORE INFORMATION

- Maximum working pressure for
  - •ETFE
  - •FEP
  - •PFA
  - •PTFE
- Chemical resistance
- Polymer tubing tolerances
- Tubing ID chart: volume per length
- More about
  - •ETFE
  - •FEP
  - •PFA
  - •PTFE

## TECH TIP

When selecting tubing for low pressure applications, give careful consideration to gas permeability characteristics.

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Tubing Clip - The LC Tubing Organizer

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

- Easy-Flange kit
- Easy-Flange combi kit
- PEEK tubing elbows
- Tubing cutters for polymeric tubing
  - Clean-cut
  - Guillotine
- Tubing cutters for stainless tubing
  - Cutting wheel type
  - Plier type
- Tubing clip the LC tubing organizer

- Fixes 1/16" and 1/8" tubing to beakers, flasks, or bottles
- Stainless steel spring for long life

This convenient device holds both 1/16" and 1/8" polymer tubes precisely where they should be in your beakers, flasks and bottles etc. up to 4 mm wall thickness. The stainless steel spring will keep your tubing clip working for a long time, and helps keep the solvent line in the solvent.

| Description | Product No. |
|-------------|-------------|
| Tubing clip | JR-9001     |



## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Tubing Cutters for Polymeric Tubing

Overview

PEEK

Other polymers

Stainless steel

Tubing accessories

- Easy-Flange kit

- Easy-Flange combi kit

- PEEK tubing elbows

- Tubing cutters for polymeric tubing

- Clean-cut

- Guillotine

- Tubing cutters for stainless tubing

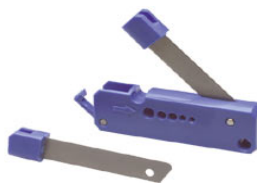
- Cutting wheel type

- Plier type

- Tubing clip the LC tubing organizer

#### Clean-Cut

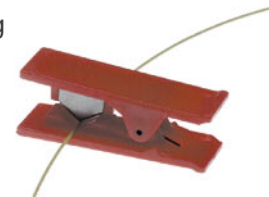
The Clean-Cut polymeric tubing cutter makes burr-free perpendicular cuts to PEEK, PTFE, ETFE, and other polymeric tubing without distorting the OD or ID.



- Product information

#### Guillotine

Our guillotine tubing cutter is a convenient tool for cutting tubes for less demanding applications.



- Product information

## VICI JOUR - TUBING FOR CHROMATOGRAPHY

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### Tubing Cutters for Stainless Steel Tubing

#### Overview

#### PEEK

#### Other polymers

#### Stainless steel

#### Tubing accessories

##### • Easy-Flange kit

##### • Easy-Flange combi kit

##### • PEEK tubing elbows

##### • Tubing cutters for polymeric tubing

##### • Clean-cut

##### • Guillotine

##### • Tubing cutters for stainless tubing

##### • Cutting wheel type

##### • Plier type

##### • Tubing clip the LC tubing organizer

#### Cutting wheel type

The ideal way to cut 1/16" and 1/8" OD tubing, leaving smooth cuts requiring a minimum of deburring.



- Product information

#### Plier type

The plier type cutter is useful for quick cuts in non-critical applications.



- Product information

## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Tweezer

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

• Ferrule removal kit

• File

• Hex key set

• Tweezer

• Wrenches

• ValvTool

• Tubing cutters

• For polymeric

• For stainless

Starter kits

- Ideal for picking up small fittings, etc.

| Description | Product No. |
|-------------|-------------|
| Tweezer     | JR-806      |





## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Stainless Unions

#### Overview

#### Nuts

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions

##### • Unions

##### • Reducing unions

#### Tees and crosses

#### Tools for fittings

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

VICI Stainless steel unions are for joining two pieces of 1/16" OD tubing. They are precision machined with a focus on the concentricity of the bore as well as on the finish of the surfaces to gave an absolute leak-free connection.

The 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.

Two nuts and ferrules ship with each union.



| Description         | 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

- For 1/16" OD tubing
- Material:
- Pressure rating:  
<1375 bar (20,000 psi)  
(Varies with tubing material and ID)

## VICI JOUR - LOW PRESSURE FITTINGS

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### PEEK Unions

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

• Union body, polyamide

• PEEK unions

• PEEK bulkhead unions

• PEEK reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

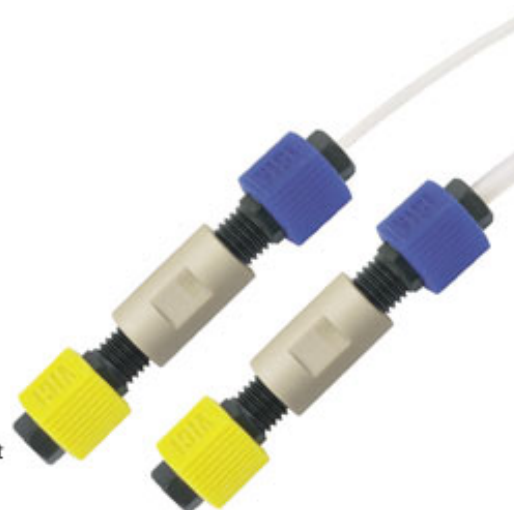
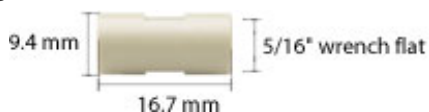
- For easy connection of low pressure solvent lines
- Low dead volume
- For 1/16" or 1/8" OD tubing
- Flat-bottomed 1/4-28 fitting details
- Completely inert and biocompatible

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 as the body only, or complete with fittings.

A union with fittings includes:

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



#### PEEK unions

| Description |  | Tubing OD | Bore (mm) | Product No. |
|-------------|--|-----------|-----------|-------------|
| Complete    |  | 1/16"     | 0.5       | JR-1064     |
|             |  | 1/8"      | 0.75      | JR-1068     |
| Body only   |  | 1/16"     | 0.5       | JR-064      |
|             |  | 1/8"      | 0.75      | JR-068      |

#### Spare parts

| Description         | Tubing OD | Qty/pkg | Product No. |
|---------------------|-----------|---------|-------------|
| PPS flangeless nuts | 1/16"     | 10      | JR-55070-10 |
|                     | 1/8"      | 10      | JR-55071-10 |

|                        |       |    |           |
|------------------------|-------|----|-----------|
| Inverted ETFE ferrules | 1/16" | 10 | JR-041-10 |
|                        | 1/8"  | 10 | JR-051-10 |

## SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flangeless connections
- Materials:

|          |      |
|----------|------|
| Body     | PEEK |
| Nuts     | PPS  |
| Ferrules | ETFE |

- 1/4-28 threads
- Pressure rating (varies with tubing material and ID)

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

## SEE ALSO

- High pressure PEEK unions
- Color-Sleeve adapters, in 12 colors

## TECH TIPS

- Use our impermeable tubing to avoid gas diffusion in the solvent lines
- While these are typically used with inverted ferrules, collapsible ferrules or flanged connections can also be used

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## VICI JOUR - LOW PRESSURE FITTINGS

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### Polyamide Union for Flanged Connections

#### Overview

#### Nuts, ferrules, and washers

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

• Union body, polyamide

• PEEK unions

• PEEK bulkhead unions

• PEEK reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

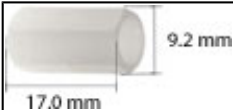
#### Polypropylene adapters

#### Tools for fittings

- Through bore low pressure union
- For flanged 1/4-28 flat-bottom connections
- 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.



| Description           |                                                                                    | Qty/pkg | Product No. |
|-----------------------|------------------------------------------------------------------------------------|---------|-------------|
| Union body, polyamide |  | 5       | JR-060-5    |

#### SPECIFICATIONS

- For 1/16" and 1/8" OD tubing, flanged connections

## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### ValvTool

#### Overview

#### Accessories for tubing

#### Accessories for fittings

#### Back-pressure regulators

#### Tools

##### • Ferrule removal kit

##### • File

##### • Hex key set

##### • Tweezer

##### • Wrenches

##### • ValvTool

##### • Tubing cutters

##### • For polymeric

##### • For stainless

#### Starter kits

- For making connections in hard-to-reach areas
- Ideal for nuts with 1/4" hex and 5/16" heads

The ValvTool is a time-saving device which provides easy access to many hard-to-reach areas. The unique design with its slotted wrench allows tightening of nuts where a loop or a capillary might otherwise make it difficult. The ValvTool is ideal for Valco and Rheodyne® valves and fittings, as well as most of the HPLC and PEEK fittings on the market with 1/4" and 5/16" heads.

| Description                    | Product No. |
|--------------------------------|-------------|
| ValvTool 1/4" and 5/16" wrench | JR-800      |



## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### VICI Caps

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
  - DIN50
  - GL38
  - GL45
- VICI cap kit
- Eco caps and kits
- Waste caps

#### VICI safety filters

#### Bottles

#### SolviFlex

VICI caps top bottles with two, three, or four color-coded 1/4-28 fittings.

#### DIN50 VICI caps

Fit all bottles or canisters with DIN50 threads

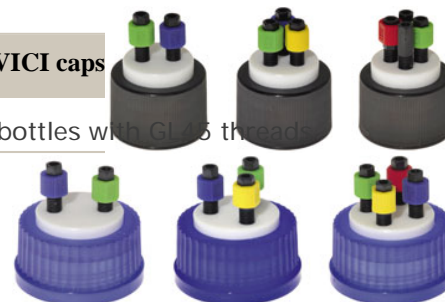


#### GL38 VICI caps

Fit all bottles with GL38 threads

#### GL45 VICI caps

Fit all bottles with GL45 threads



## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Waste Caps

#### Overview

#### Caps

- Safety caps
- Safety cap kit
- VICI caps
- VICI cap kit
- Eco caps and kits
- Waste caps
  - B53
  - B83
  - GLS80
  - DIN60
  - S51
  - S61

#### VICI safety filters

#### Bottles

#### SolviFlex

Waste caps include three or four ports for 1/8" and 1/16" tubing. Two versions of each waste cap are available, with an extra port to accommodate either a 1/2-20 port for 1/4" OD tubing, or a barbed hose adapter. The barbed adapter must be ordered separately.

#### B53 threads

#### GLS80 threads



#### B83 threads



#### DIN60 threads



#### S51 threads



#### S61 threads





## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### One-Piece Fittings

#### Overview

#### One-piece

- PPS hex-head fittings
- PEEK fingertight
- Color-coded
- Natural
- PEEK hex-head
- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

#### MORE INFORMATION

- Properties of polymers

#### PPS hex-head fittings

This economically priced alternative to PEEK has excellent chemical resistance, and becomes fingertight with the Color-Sleeve adapter.



- Product information

#### PEEK fingertight fittings

Color-coded  
Molded fittings with 10-32 threads are rated to 5000 psi (350 bar). Six colors facilitate tube identification.



Product information

Natural  
Machined fittings in several lengths and styles.



- Product information

#### PEEK hex-head fittings

Available in short and long versions. Make them fingertight with Color-It adapters.



- Product information

#### No-Twist "one-piece" fittings

The No-Twist design has a separate ferrule that snaps into the nut, so it's attached but still free to rotate to keep the tube from twisting during tightening.



- Product information

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### Nuts and Ferrules

Overview

One-piece

Nuts and ferrules

- Double ferrule connections
- Single ferrule connections
- 1/4-28 connections

Fingertight adapters

Plugs and caps

Unions and reducing unions

Tees and crosses

Adapters

Tools for fittings

#### MORE INFORMATION

- About PEEK

#### SEE ALSO

- High pressure Nanovolume fittings
- PEEK starter kits
- ChromBox kit - HPLC parts

#### PEEK nuts with double ferrules

These fittings have VICI Jour double ferrules, which grip the tubing twice for added stability. For 1/16" OD tubing fittings with 10-32 threads.

- Product information



#### PEEK nuts with single ferrules

Reusable nuts and replaceable ferrules for 1/32", 1/16", and 1/8" OD tubing. These are generally suitable for pressures to 280 bar (4000 psi).

- Product information



#### Nut, ferrule, and bushing for 1/4-28 connections

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.

- Product information





## Chemical Resistance of PEEK and Other Polymers

### Overview

### Chemical resistance chart

• PEEK and other polymers

• PEEK at high temperatures

### Conversion tables

### Properties of materials

### Miscellaneous

PEEK exhibits excellent resistance to a wide range of organic and inorganic chemicals. The compatibility of PEEK with many chemicals at 20°C (68°F) has been investigated and the results for unreinforced grades are given in the table below.

PEEK is compatible with almost any of the solvents used in HPLC. The only solvents which will attack PEEK are concentrated nitric acid and sulphuric acids. However, PEEK tubing can safely withstand the 20-30% nitric acid used for system passivation.

Methylene chloride, DMSO, and THF may cause swelling in PEEK. The highest temperature we recommend for PEEK is 100°C. Up to that temperature the tubing will maintain the stated pressure rating.

To view polymers' resistance to a chemical, click on the letter that the chemical begins with.

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [H](#) | [I](#) | [K](#) | [M](#) | [N](#) | [P](#) | [S](#) | [T](#) | [W](#) | [X](#)

A = suitable

B = marginal; dependent on application

C = not recommended

= no data available

| Resistance at 20°C    | PEEK | PE | PP | PPS | FEP | EFTE | PFA | PTFE |
|-----------------------|------|----|----|-----|-----|------|-----|------|
| Acetaldehyde          | A    |    |    |     | A   |      | A   |      |
| Acetic acid (20%)     | A    | A  | A  | A   | A   | A    | A   | A    |
| Acetic acid (80%)     | A    | A  | A  | A   | A   |      | A   | A    |
| Acetic acid (glacial) | A    | A  | A  | A   | A   | A    | A   | A    |
| Acetone               | A    | B  | A  | A   | A   | A    | A   | A    |
| Acetonitrile          | A    |    |    | A   | A   | A    | A   | A    |
| Acrylic acid          | A    |    |    | A   | A   |      | A   |      |
| Ammonia, anhydrous    | A    |    |    | A   | A   |      | A   |      |
| Ammonia (10%)         | A    | B  | A  | A   | A   | A    | A   | A    |
| Ammonia (liquid)      | B    |    |    | A   | A   |      | A   |      |

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### Properties of Polymers

Overview

Chemical resistance chart

Conversion tables

Properties of materials

• Metals

• Polymers

Miscellaneous

See discussion:

CTFE

PEEK

Polyamide

EPDM

PFA

Polyethylene

ETFE

PPS

Polypropylene

FEP

PTFE

PVDF

FFKM

Polyacetal

#### CTFE

Chlorotrifluoroethylene, is the generic name for the material produced as Kel-F®. It is very resistant to all chemicals except THF and some halogenated solvents, and is resistant to all inorganic corrosive liquids, including oxidizing acids. CTFE can be used at temperatures up to 100°C. Swells in ketones.

#### EPDM

Ethylene Propylene Diene Monomer. Ethylene-propylene synthetic rubbers offer excellent heat resistance as well as resistance to aging from oxidation, ozone, and weather due to their stable, saturated polymer backbone structure. As non-polar elastomers, they have good electrical resistivity as well as resistance to polar solvents such as water, acids, alkanes, phosphates, esters, and many ketones and alcohols.

#### ETFE

Ethyltrifluoroethylene is the generic name for the material such as Tefzel®. A fluoropolymer used for sealing surfaces, it is resistant to most chemical attack; however, some chlorinated chemicals will cause a physical swelling of ETFE tubing.

#### FEP

Fluorinated ethylene propylene is another member of the fluorocarbon family with similar chemical properties. It is generally more rigid than PTFE, with somewhat increased tensile strength. It is typically more transparent than PTFE, slightly less porous, and less permeable to oxygen. FEP is not as subject to compressive creep at room temperature as PTFE, and because of its slightly higher coefficient of friction is easier to retain in a compression fitting.

#### FFKM

FFKM (perfluorinated rubber) is a perfluoroelastomer, a class of materials such as Kalrez®. It is chemically resistant to polar solvents, organic solvents, inorganic and organic acids and bases, fuels, oils, lubricants, inorganic salts, aldehydes, metal halogen compounds, chlorine, sodium hydroxide, aromatics, alcohols, steam, and strong oxidizing agents. The normal temperature service range is -40°C to 315°C, with up to 343°C in intermittent service.

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PEEK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>Considered relatively inert and biocompatible, polyetheretherketone tubing can withstand temperatures up to 100°C. Under the right circumstances, .005" - .020" ID tubing can be used up to 5000 psi for a limited time, and 0.030" to 3000 psi. Larger IDs are typically good to 500 psi. These limits will be substantially reduced at elevated temperatures and in contact with some solvents or acids.</p> <p>Its mechanical properties allow PEEK to be used instead of stainless in many situations and in some environments where stainless would be too reactive. However, PEEK can be somewhat absorptive of solvents and analytes, notably methylene chloride, DMSO, THF, and high concentrations of sulfuric and nitric acid. This tubing is highly prone to "kinking", or sealing off, if held in a sharp bend over time.</p> |
| PFA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Perfluoroalkoxy is a fluorocarbon with chemical and mechanical properties similar to FEP. More rigid than either PTFE or FEP. Commonly used for injection molded parts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Polyphenylene sulphide is the generic name for the material produced as Fortron®, Ryton®, and Techtron®. It is very resistant to all solvents, acids, and bases.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PTFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>Polytetrafluoroethylene is the generic name for the class of materials such as Teflon®. It offers superior chemical resistance but is limited in pressure and temperature capabilities. Because it's so easy to handle, it is often used in low pressure situations where stainless steel might cause adsorption. PTFE tubing is relatively porous, and compounds of low molecular weight can diffuse through the tubing wall.</p>                                                                                                                                                                                                                                                                                                                                                                                                        |
| Polyacetal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>Polyacetal or polyoxymethylene (POM) is the generic name for the material produced as Delrin®. It is an engineering polymer with high mechanical strength and rigidity, excellent dimensional stability and excellent resistance to moisture and solvents. It has a wide useful temperature range in air of -50°C to +90°C. It is not suitable for use with acids, alkalis, or oxidizing agents, and has limited resistance to dichloromethane and methyl ethyl ketone.</p>                                                                                                                                                                                                                                                                                                                                                               |

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|                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Polyamide                                                                                                                                                                                                                                                               |
| <p>Polyamide is a thermoplastic polymer also known as nylon. Nylon has very good physical properties, but moisture can have a significant effect. It exhibits very good heat resistance and excellent chemical and wear resistance.</p>                                 |
| Polyethylene                                                                                                                                                                                                                                                            |
| <p>Polyethylene is a semi-crystalline material with excellent chemical resistance, plus good fatigue and wear resistance. Polyethylenes provide good resistance to organic solvents and staining, and have low moisture absorption rates.</p>                           |
| Polypropylene                                                                                                                                                                                                                                                           |
| <p>Widely used polymer for non-wetted parts. Attacked by strong oxidizers as well as aromatic and chlorinated hydrocarbons.</p>                                                                                                                                         |
| PVDF                                                                                                                                                                                                                                                                    |
| <p>PVDF, or polyvinylidene fluoride, has excellent resistance to most mineral and organic acids, aliphatic and aromatic hydrocarbons, and halogenated solvents. Poor resistance to acetone, MEK, THF, and potassium and sodium hydroxide. Often supplied as Kynar®.</p> |

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## VICI JOUR - LOW PRESSURE FITTINGS

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### Nuts, Ferrules, and Washers for 1/4-28 Fitting Details

#### Overview

#### Nuts, ferrules, and washers

- PPS hex-head nuts, flangeless and flanged
- Flangeless
- PEEK nuts
- Color-coded polyacetal nuts
- Flanged color-coded fingertight nuts

#### Fingertight adapters

#### Plugs

#### Unions and reducing unions

#### Tees and crosses

#### Manifolds

#### Micro valves for LC/GC

#### Peristaltic tubing adapter set

#### Polypropylene adapters

#### Tools for fittings

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.

#### For flanged or flangeless connections

##### PPS hex-head nuts for flangeless or flanged 1/4-28 connections

An economically-priced alternative to PEEK, this series of PPS 1/4-28 nuts offers three low pressure sealing options: patented collapsible ferrule, inverted ferrule, or flanged with washer.



A PPS nut may also be used with a PEEK ferrule and SS bushing for high pressure applications.

- Product information

#### For flangeless connections

##### PEEK nuts for flangeless 1/4-28 connections

PEEK flangeless nuts, in combination with our inverted ferrules, do not require a flanging tool.



- Product information

##### Color-coded polyacetal nuts for flangeless 1/4-28 connections

These economical alternatives to PEEK flangeless nuts also do not require a flanging tool when used with our inverted ferrules, and add the convenience of color coding.



- Product information

### For flanged connections

#### Color-coded polypropylene nuts for flanged 1/4-28 connections

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.



- Product information

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#### MORE INFORMATION

- Properties of polymers

#### SEE ALSO

- Easy-Flange kit

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### Nuts and Ferrules for Flangeless 1/4-28 Connections

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- PPS hex-head nuts, flangeless and flanged

- Flangeless

- PEEK nuts

- Color-coded polyacetal nuts

- Flanged color-coded fingertight nuts

#### Fingertight adapters

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- Product information



## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Overview

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

Starter kits

#### Accessories for tubing

- Easy-Flange kit
- Easy-Flange combi kit
- PEEK tubing elbows
- Tubing clip - the LC tubing organizer
- Tubing cutters for polymeric tubing
  - Clean-cut
- Tubing cutters for stainless tubing
  - Guillotine
  - Cutting wheel type
  - Plier type



#### Accessories for fittings

Color-It fingertight adapters work great with all our PEEK and stainless hex head nuts for 1/16" tubing.

Color-Sleeve adapters are designed to be used with our black PPS nuts and one-piece fittings.





#### Back-pressure regulators

Our back-pressure regulator improves baseline stability by preventing bubble formation in the flow cell.





| Tools                                                                                                                                                                                                                                                                                                                                                                   | Starter kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><ul style="list-style-type: none"><li>Ferrule removal kit</li><li>File</li><li>Hex key set</li><li>Tweezer</li><li>Wrench</li><li>ValvTool</li><li>Tubing cutters<ul style="list-style-type: none"><li>For polymeric</li><li>For stainless</li></ul></li></ul></div> <div></div> | <div><ul style="list-style-type: none"><li>Easy flange combi kit<ul style="list-style-type: none"><li>Flange-rolling tool, PTFE tubing, fittings, and accessories</li></ul></li><li>PEEK starter kit<ul style="list-style-type: none"><li>PEEK fittings and tubing</li></ul></li><li>Stainless starter kit<ul style="list-style-type: none"><li>Stainless steel fittings and tubing</li></ul></li><li>ChromBox kit<ul style="list-style-type: none"><li>PEEK and stainless fittings and tubing</li></ul></li></ul></div> <div></div> |

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SEE ALSO

- Micro valves for LC/GC

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## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### Overview

Overview

PEEK columns

In-line biocompatible guard column

Column couplers and plugs

Packing kits

#### PEEK columns

2.1 mm ID

4.0 mm ID



#### In-line biocompatible guard columns

This PEEK guard column system extends the life of valuable analytical columns by trapping contaminants from the sample and mobile phase. Only PEEK and titanium contact the mobile phase and sample.

- Product information



#### Column couplers and plugs

Column coupler, one-piece fingertight

Column end plugs

Column end plugs, logotype



#### Packing kits

VICI Jour column packing kits are ready-to-use tools to pack our PEEK columns and PEEK guard columns. Includes needed slurry reservoir, packing adapter, and packing seals.

- Product information

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## Chemical Resistance Charts

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• PEEK and other polymers

• PEEK at high temperatures

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Properties of materials

Miscellaneous

### PEEK and other polymers

Chemical resistance at 20°C (68°F).

### PEEK at high temperature

Chemical resistance at 200°C (420°F) for 13 chemicals, and at 14°C (284°F) for ethylene glycol (50%).

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## VICI JOUR - TECHNICAL SUPPORT



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#### Miscellaneous

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## PEEK - Chemical Resistance at High Temperature

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• PEEK and other polymers

• PEEK at high temperatures

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A = suitable

B = marginal; dependent on application

C = not recommended

| Chemical                  | Temperature   | Rating |
|---------------------------|---------------|--------|
| Acetic acid               | 200°C (420°F) | B      |
| Ammonia gas               | 200°C (420°F) | A      |
| Carbon monoxide gas       | 200°C (420°F) | A      |
| Ethylene glycol           | 200°C (420°F) | B      |
| Ethylene glycol (50%)     | 140°C (284°F) | A      |
| Hydrogen sulphide gas     | 200°C (420°F) | A      |
| Liquid ammonia            | 200°C (420°F) | B      |
| Methane                   | 200°C (420°F) | A      |
| Methylethylketone         | 200°C (420°F) | C      |
| Nitrobenzene              | 200°C (420°F) | C      |
| Phosphoric acid (50%)     | 200°C (420°F) | A      |
| Sodium hydroxide solution | 200°C (420°F) | A      |
| Sulphuric acid (50%)      | 200°C (420°F) | B      |
| Sulphur dioxide gas       | 200°C (420°F) | A      |

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## General Conversion Factors

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• General conversion factors

• Length

• Pressure

• Temperature

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|                |                        |
|----------------|------------------------|
| inches to mm   | inches x 25.4 = mm     |
| feet to meters | feet x 0.3048 = meters |
| meters to feet | meter x 3.28 = feet    |
| bar to psi     | bar x 14.5 = psi       |
| psi to bar     | psi x 0.069 = bar      |
| psi to kPa     | psi x 6.9 = kPa        |

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Length Units Conversion Chart

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| µm  | inches |
|-----|--------|
| 100 | .004"  |
| 150 | .006"  |

| mm    | inches |
|-------|--------|
| 0.050 | .002"  |
| 0.064 | .0025" |
| 0.075 | .003"  |
| 0.100 | .004"  |
| 0.13  | .005"  |
| 0.15  | .006"  |
| 0.17  | .007"  |
| 0.20  | .008"  |
| 0.25  | .010"  |
| 0.38  | .015"  |
| 0.40  | .016"  |
| 0.50  | .020"  |
| 0.75  | .030"  |
| 1.00  | .039"  |
| 1.50  | .059"  |
| 2.00  | .079"  |
| 3.00  | .118"  |
| 4.00  | .157"  |
| 4.60  | .181"  |
| 6.00  | .236"  |
| 6.35  | .250"  |
| 6.40  | .252"  |
| 7.00  | .276"  |

|       |       |
|-------|-------|
| 10.00 | .394" |
| 12.70 | .500" |

| inches | mm    |
|--------|-------|
| 1/32"  | 0.79  |
| 1/16"  | 1.59  |
| 3/32"  | 2.38  |
| 1/8"   | 3.17  |
| 1/4"   | 6.35  |
| 5/16"  | 7.94  |
| 3/8"   | 9.50  |
| 1/2"   | 12.70 |
| 1"     | 25.40 |

| feet | mm    |
|------|-------|
| 1 ft | 304.8 |

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## Pressure Conversion Chart

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| bar | psi   | kPa   | MPa  |
|-----|-------|-------|------|
| 0.1 | 1.5   | 10    | 0.01 |
| 0.2 | 2.9   | 20    | 0.02 |
| 0.3 | 4.4   | 30    | 0.03 |
| 0.4 | 5.8   | 40    | 0.04 |
| 0.5 | 7.3   | 50    | 0.05 |
| 0.6 | 8.7   | 60    | 0.06 |
| 0.7 | 10.2  | 70    | 0.07 |
| 0.8 | 11.6  | 80    | 0.08 |
| 0.9 | 13.1  | 90    | 0.09 |
| bar | psi   | kPa   | MPa  |
| 1   | 14.5  | 100   | 0.1  |
| 2   | 29.0  | 200   | 0.2  |
| 3   | 43.5  | 300   | 0.3  |
| 4   | 58.0  | 400   | 0.4  |
| 5   | 72.5  | 500   | 0.5  |
| 6   | 87.0  | 600   | 0.6  |
| 7   | 101.5 | 700   | 0.7  |
| 8   | 116.0 | 800   | 0.8  |
| 9   | 130.5 | 900   | 0.9  |
| bar | psi   | kPa   | MPa  |
| 10  | 145   | 1,000 | 1    |
| 20  | 290   | 2,000 | 2    |
| 30  | 435   | 3,000 | 3    |
| 40  | 580   | 4,000 | 4    |
| 50  | 725   | 5,000 | 5    |
| 60  | 870   | 6,000 | 6    |
| 70  | 1,015 | 7,000 | 7    |

|       |        |         |     |
|-------|--------|---------|-----|
| 80    | 1,160  | 8,000   | 8   |
| 90    | 1,305  | 9,000   | 9   |
| bar   | psi    | kPa     | MPa |
| 100   | 1,450  | 10,000  | 10  |
| 200   | 2,900  | 20,000  | 20  |
| 300   | 4,350  | 30,000  | 30  |
| 400   | 5,800  | 40,000  | 40  |
| 500   | 7,250  | 50,000  | 50  |
| 600   | 8,700  | 60,000  | 60  |
| 700   | 10,150 | 70,000  | 70  |
| 800   | 11,600 | 80,000  | 80  |
| 900   | 13,050 | 90,000  | 90  |
| 1,000 | 14,500 | 100,000 | 100 |
| 1,100 | 15,950 | 110,000 | 110 |
| 1,200 | 17,400 | 120,000 | 120 |
| 1,300 | 18,850 | 130,000 | 130 |

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Temperature Conversion Chart

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| °C  | °F  |
|-----|-----|
| -40 | -40 |
| -35 | -31 |
| -30 | -22 |
| -25 | -13 |
| -20 | -4  |
| -15 | 5   |
| -10 | 14  |
| -5  | 23  |
| 0   | 32  |
| °C  | °F  |
| 5   | 41  |
| 10  | 50  |
| 15  | 59  |
| 20  | 68  |
| 25  | 77  |
| 30  | 86  |
| 35  | 95  |
| 40  | 104 |
| 45  | 113 |
| 50  | 122 |
| °C  | °F  |
| 55  | 131 |
| 60  | 140 |
| 65  | 149 |
| 70  | 158 |
| 75  | 167 |
| 80  | 176 |



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|     |     |
|-----|-----|
| 85  | 185 |
| 90  | 194 |
| 95  | 203 |
| 100 | 212 |
| °C  | °F  |
| 105 | 221 |
| 110 | 230 |
| 115 | 239 |
| 120 | 248 |
| 125 | 257 |
| 130 | 266 |
| 135 | 275 |
| 140 | 284 |
| 145 | 293 |
| 150 | 302 |
| °C  | °F  |
| 155 | 311 |
| 160 | 320 |
| 165 | 329 |
| 170 | 338 |
| 175 | 347 |
| 180 | 356 |
| 185 | 365 |
| 190 | 374 |
| 195 | 383 |
| 200 | 392 |
| °C  | °F  |
| 205 | 401 |
| 210 | 410 |
| 215 | 419 |
| 220 | 428 |
| 225 | 437 |
| 230 | 446 |
| 235 | 455 |
| 240 | 464 |
| 245 | 473 |
| 250 | 482 |
| °C  | °F  |

|     |      |
|-----|------|
| 255 | 491  |
| 260 | 500  |
| 265 | 509  |
| 270 | 518  |
| 275 | 527  |
| 280 | 536  |
| 285 | 545  |
| 290 | 554  |
| 295 | 563  |
| 300 | 572  |
| °C  | °F   |
| 305 | 581  |
| 310 | 590  |
| 315 | 599  |
| 320 | 608  |
| 325 | 617  |
| 330 | 626  |
| 335 | 635  |
| 340 | 644  |
| 345 | 653  |
| 350 | 662  |
| °C  | °F   |
| 375 | 707  |
| 400 | 752  |
| 425 | 797  |
| 450 | 842  |
| 475 | 887  |
| 500 | 932  |
| 525 | 977  |
| 550 | 1022 |
| 575 | 1067 |
| 600 | 1112 |
| °C  | °F   |
| 625 | 1157 |
| 650 | 1202 |
| 675 | 1247 |
| 700 | 1292 |
| 725 | 1337 |

|      |      |
|------|------|
| 750  | 1382 |
| 775  | 1427 |
| 800  | 1472 |
| °C   | °F   |
| 825  | 1517 |
| 850  | 1562 |
| 875  | 1607 |
| 900  | 1652 |
| 925  | 1697 |
| 950  | 1742 |
| 975  | 1787 |
| 1000 | 1832 |

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#### Stainless steel, Type 316

This is the standard tubing material for chromatography, suitable for a wide variety of applications. It is cold drawn seamless, not welded, with close tolerances held on both ID and OD. We neither recommend nor offer Type 304 stainless steel for analytical applications.

Austenitic stainless steels may be used for most chromatographic applications. Type 316 is most commonly used for HPLC because of its superior chloride ion resistance.

#### Stainless steel, Type 303

Recommended for GC use and general purpose connections, combining excellent machining characteristics with good resistance to corrosion and high temperature oxidation. Susceptible to attack by chlorides, iodides, and bromides.

#### Titanium

Although it is more difficult to machine than common alloys containing aluminum and vanadium, VICI uses Grade 2 pure titanium in order to avoid possible contamination of the sample stream with these metals. Good for organic and inorganic salts except aluminum and calcium chlorides, and all alkalis except boiling concentrated potassium hydroxide.

Good with dilute, low temperature formic, lactic, sulfuric, hydrochloric, and phosphoric acids, but rapidly attacked by hydrofluoric acid. Good with dilute nitric acid at low temperatures; corrodes at high concentrations and temperatures. Can ignite with fuming nitric acid. Attacked by oxalic acid, concentrated phosphoric acid, hot trichloroacetic acid, and zinc chloride.

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

### A

#### Adapter

A type of fitting which provides a method of joining two components of differing thread types or systems.

#### Analytical column

A long narrow tube packed or coated with one of many available chemically diverse compounds that can separate the components in a sample according to their boiling point, polarity, molecular size, or combination thereof. A column of some kind is used with most chromatographic techniques.

### B

#### Backflush

The use of valving to reverse the flow through a column in order to "backflush" or purge heavier components from the column.

#### Biocompatibility

Defines the materials used in a system (i.e. fittings, tubing, and valves) that do not change the bioactivity of the biological substances that come into contact with the surface of these materials. Note that in chromatographic systems, the tubing and column contribute over 99% of the surface area and the valves and fittings are insignificant.

#### Bore

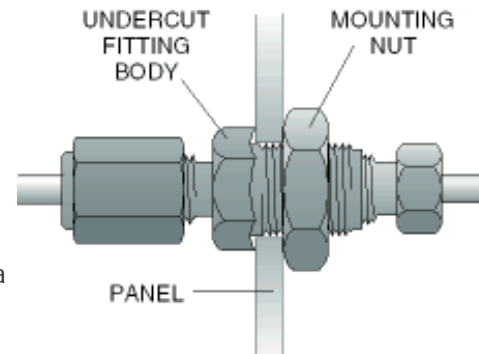
The diameter of the minimum orifice through the fitting.  
*See definitions for capillary bore, through-type bore, and large bore.*

#### Bulkhead fitting

A type of fitting in which the fitting body is inserted through an instrument panel or mounting bracket, to which it is affixed with a mounting nut. The Valco fitting body is uniquely undercut so that it "bites" into the panel when the mounting nut is tightened, eliminating the need for a lock washer.

#### Butt connection

A type of connection in which the two tube ends are directly and squarely in contact, usually effected with a through-type union. Typically used with fused silica connections, or small bore metal tubing.



## C

### Cap

A cap is used to dead-end a piece of tubing with a nut and ferrule attached.

### Capillary bore

The smallest available standard orifice in a given fitting design (usually 0.25 mm). Typically denoted by suffix "C" in the product number.

### Clamp ring

Adjustable ring for clamping the valve or standoff assembly onto an actuator, knob, or instrument panel.

### Closemount hardware

All the hardware required to mount a valve directly onto the face of an air, standard electric, or microelectric actuator, providing the most direct, shortest attachment of valve to actuator.

### Compression fitting

A style of fitting in which a threaded nut compresses a tapered ferrule onto tubing as the nut is tightened. Valco metal ferrules cut a ring into the tubing wall while polymer types rely on surface compression to form a seal.

### Connecting volume

The volume between two or more connections. This may be cleanly swept, thus not contributing to peak distortion, or may be "dead volume" such as that found in fittings with larger bores than the connecting tubing.

### Cross

A type of distribution fitting which connects four pieces of tubing, arranging them in the pattern of a cross.

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## D

### Dead volume

Any volume which a component introduces to a system that is not cleanly swept and relies on diffusion to clear the space. See connecting volume.

### Detail

See fitting detail.

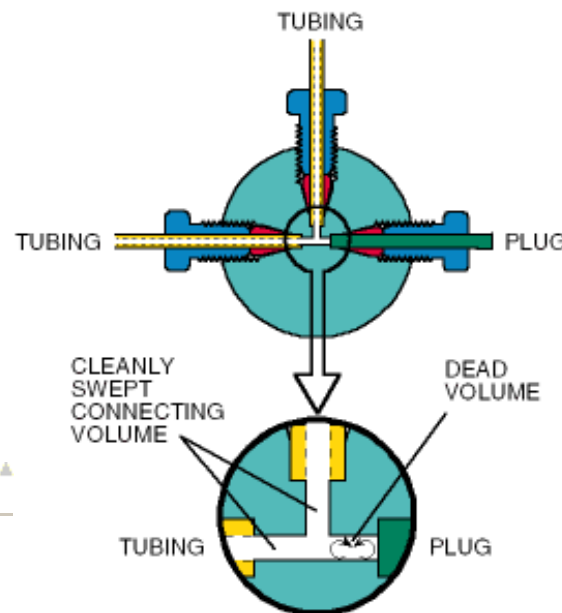
### Distribution fitting

A generic term for tees, crosses, and manifolds, used to provide multiple access points to "distribute" a gas or liquid through a system. CAUTION! Using a distribution fitting in reverse to coalesce multiple streams may create dead volume. Special manifolds are available for this application.

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## E

### External fitting



A type of compression fitting in which the fitting body has male threads; an external nut has female threads.

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## F

### FIA

Flow Injection Analysis.

A simple and versatile analytical technique for automating wet chemical analyses based on the manipulation of a sample zone formed from the injection of the sample into a continuous stream of fluid used as a carrier.

### Female nut

A nut with female threads; also called external nut.

### Ferrule

One of the components of a compression fitting; the conical piece of metal or plastic that compresses onto the tube as it is forced into a tapered seat. Valco metal ferrules are unique in that they attach to and seal at the tube by cutting a shallow ring into it, instead of by actually swaging it. This is preferable since it introduces no flow restriction.

### Filter

A type of union or reducing union which traps the particulates in a stream. The filtering element is typically a mesh screen or sintered frit.

### Fingertight fitting

A fingertight fitting is a knurled or winged nut which is hand tightened to compress the ferrule. Note: Polymeric ferrules rely on surface compression to form a seal and hold the tube by friction.

### Fitting detail

One of the components of a compression fitting; if the tube, nut, and ferrule comprise the male part of the fitting, the fitting detail is the female part. It includes the threads for the nut, the tapered ferrule seat, and the pilot.

See *compression fitting*.

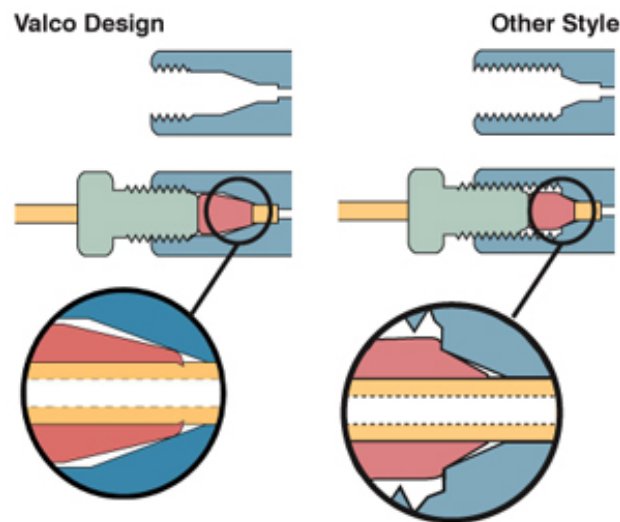
Valco fitting details have the perfect shape, with a smooth transition from the ferrule seat into the cylindrical and threaded part. Many other fitting details are poor in design where the ferrule is forced in a too shallow ferrule seat. The result is a "nicked" ferrule which can no longer apply its sealing force to the front of the ferrule.

### Flanged fitting

A type of fitting used with fluoropolymer tubing (PTFE, FEP) in which a flange is made at the tube end. Connections are made at the flange either by compressing the flange into a flat detail (typically 1/4-28 threaded) or by butting two flanges together. A special flanging tool forms the flanges.

### Flangeless fitting

Similar in application to the flanged fitting, but the flange is not required. A ferrule system is used which grips/compresses the tube. This fitting type can be used with virtually any polymeric tubing since the tube end does not have to be formed, but simply square cut. Typically used in 1/4-28 threaded fittings, it is usually interchangeable with flanged fittings.



**Frit**

A filter element typically made of stainless, Hastelloy, Titanium, or polymers, usually 0.75 mm or 1 mm thick. Nanovolume frits, at 0.25 mm (.010") thick, add minimum volume for nanovolume filtration. Frits may provide better filtration than screens, but because they are thicker there is greater mixing potential, and they typically result in increased pressure drop.

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**G****GC**

Gas Chromatography.

An analytical method incorporating an injection system, analytical column, controlled temperature zone, and detector. An inert carrier gas moves the sample through the column, which separates the sample components into discrete bands which are measured as they pass through the detector.

**Guard column**

A column used in series between the injector and analytical column to prevent certain types of components from entering the analytical column.

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**H****HPLC**

High Performance Liquid Chromatography.

An analytical system consisting of an injector, pump, analytical column, and detector. Using a liquid mobile phase, the sample is pumped through the column, where it is separated into discrete sample component bands which are detected and measured as the bands elute from the column.

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**I****ID**

Internal diameter.

**Inert**

Technically, unreactive with other substances; however, in the instrumentation field, "inert" is a relative term. Often polymers are termed inert but are soluble in some fluids and can react with some compounds.

**Internal fitting**

A type of compression fitting in which the fitting body has female threads; an internal nut has male threads.

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**K****Keyed**

The design which enables multiposition microelectric actuators to self-align. A specially designed clamp ring and standoff assembly key together with the microelectric actuator and the valve to locate position 1.

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**L**

**LC****Liquid Chromatography.**

Any of a variety of low to medium pressure techniques which use a liquid mobile phase as the carrier to move sample. Similar to *HPLC*.

**Large bore**

A bore that is larger than the standard for a given fitting; a fitting ordered with a large bore will have a larger flow orifice than the standard or capillary bore fitting of the same design. Denoted by suffix "L" in the product number.

**Luer adapter**

An adapter that connects a tapered luer fitting (square nib) of a syringe to a tube or tube fitting.

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**M****Male nut**

A nut with male threads.

**Make up**

The point at which a ferrule, nut, and tube are assembled in the fashion which will effect a leak-free seal. In most compression fittings, that is accomplished by compressing the tube with the small end of the ferrule. With Valco metal ferrules, the ferrule usually makes up on the tube by cutting a shallow ring in it.

**Manifold**

A type of distribution fitting in which a single source is directed to multiple outlets, or vice versa. *Caution!* Using a common distribution fitting in reverse to merge multiple streams may create dead volume. Special manifolds are available for this application.

**Microbore column**

A liquid chromatography column of narrow bore (typically 2 mm or less) for improved resolution.

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**N****NPT**

National Pipe Thread; a standardized tapered pipe fitting. See **pipe thread**.

**Nanobore**

Nanobore generally refers to components with bore sizes less than 250 µm (0.010").

**Nanovolume®**

The registered trademark referring to VICI Valco's line of nanobore fittings and injectors.

**Nut**

The tensioning component of a compression fitting. As the threaded nut is tightened into the fitting detail, it pushes the ferrule forward into the tapered ferrule seat, causing it to make up on the tube.

Top ▲

**O****OD**

Outside diameter.

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## P

### Pilot

The tubing which extends beyond the ferrule in a made-up fitting, or the integral portion of a ZRF internal reducing ferrule which extends beyond the ferrule. See also pilot depth, below.

### Pilot depth

The length of the tubing diameter cavity beyond the tapered ferrule seat within a fitting detail. Valco fitting pilot depths are tightly controlled to facilitate the interchangeability of components without the risk of leaks or dead volume.

### Pipe thread

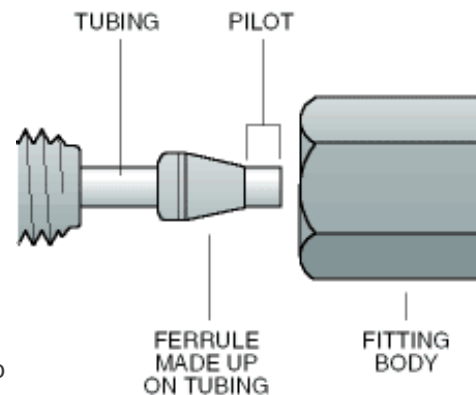
The external or internal threads of a fitting designed to effect a metal-to-metal seal on the conical thread faces. This type of fitting does not "bottom out" in the detail. Typically used with Teflon tape or other compound to lubricate the threads; however, since the diffusion rate of air components through the Teflon tape is considerable, pipe fittings should not be used in systems where leakage rates are critical.

### Port

The connection, orifice, seal, or septum, etc. through which sample may be added (injected) or withdrawn.

### Position feedback

Hardware which provides a contact closure for the remote start of a chromatograph or data system.



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## R

### Reducing ferrule

A ferrule which allows a smaller tube to be used in a fitting detail designed for a larger tube. Caution should be taken if standard reducing ferrules (RF) without integral pilots are used, since dead volume may be created in the fitting pilot depth.

### Reducing union

A fitting which joins two tubes of different ODs. The bore of the fitting should typically match the ID of the smaller tube.

### Rotor

The internal rotating part of a Valco or Cheminert valve. It contains the engraved slots which connect the ports on the stator or cap.

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## S

### SFE

Supercritical Fluid Extraction.

An extraction technique using a fluid in its supercritical state as the extraction medium. Some liquids and mixtures maintained above a critical temperature and pressure exhibit properties of both the liquid and gas phases of the element. These are defined as supercritical. CO<sub>2</sub> is a common supercritical fluid. Extreme caution must be used with supercritical CO<sub>2</sub>, since uncontrolled expansion (leaks) can be very hazardous due to the substantial stored energy.



**SFC**

Supercritical Fluid Chromatography.

An analytical technique using a supercritical fluid (see SFE) as the mobile phase/carrier.

**Screen**

A replaceable filter element generally made of Type 316 stainless steel, usually 0.003" thick. Screens clog less frequently than frits, and because they are thinner there is less mixing; however, they are less effective filters.

**Sideload**

Any force on the valve rotor other than the proper rotational force along the axis of the rotor, often resulting in leakage or increased wear. It is typically caused by actuation misalignment, over-rotation, or improper mounting of the valve.

**Standard bore**

A bore which was chosen as the standard for a particular fitting, typically based on the most common tubing ID used with that fitting.

**Standoff**

An extension between a valve and actuator which allows the valve to be installed in a different temperature zone from the actuator. Standoffs come in several different lengths.

**Standoff assembly**

All the hardware required to allow a valve to be mounted in an oven or heated zone while the actuator or knob remains outside the heated zone. Standard lengths are 2", 3", 4", and 6.

**Standoff mounting hardware**

The clamp ring and screws necessary to mount a valve and standoff assembly onto an actuator.

**Stator**

The stationary component of a valve. Typically, it contains the fittings as well as one of the fluid sealing surfaces. In Valco valves, the stator is called the valve body.

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**T****Tee**

A type of distribution fitting which connects three pieces of tubing, arranging them in the pattern of a "T".

**Through-type bore**

A bore which is slightly larger than the OD of the tubing which is used with the given fitting. A union with a through-type bore allows the tube ends to butt directly together, or for one tube to run completely through the fitting. Denoted by suffix "T" in the product number. In order to assure correct pilot lengths, we recommend that ferrules be made up on the tubing in a standard union.

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**U****Union**

A fitting for connecting two pieces of tubing of the same OD.

**Unswept volume**

The volume of any portion of a fitting which is in the flowpath but which is a different diameter than the primary flow orifice through the tubing/fitting assembly, or any area not directly swept by the fluid flow. This can also be known as "dead volume" if it is very poorly swept.

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## V

### VICI

VICI® is an acronym for Valco Instruments Company Inc.

VICI now defines multiple companies which manufacture various products for the analytical industry.

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## W

### Wetted surfaces

The surfaces which are contacted by the sample stream.

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## Y

### Y ("Wye")

A type of distribution fitting which connects three pieces of tubing, arranging them in the pattern of a "Y". Occasionally referred to as a "wye".

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## Z

### ZDV

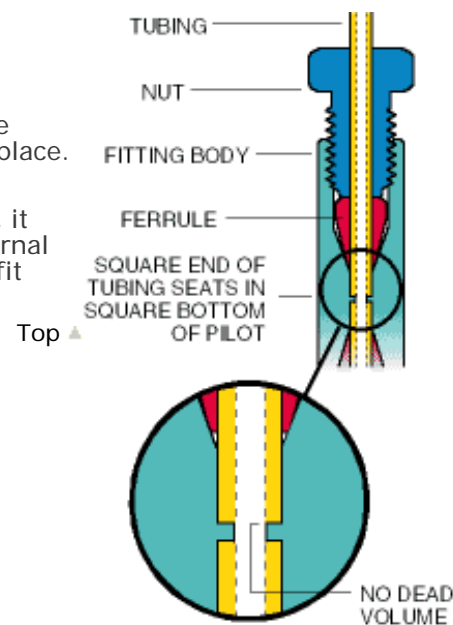
Zero dead volume. See definition below.

### Zero dead volume

Describes a connection which does not add volume to the system beyond what an extension of tubing would in its place.

### Zero volume

While often used interchangeably with zero dead volume, it ideally describes a fitting design in which there is no internal volume, such as a through-type union designed to butt-fit two pieces of tubing.



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### Standard Threads

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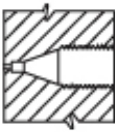
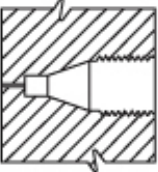
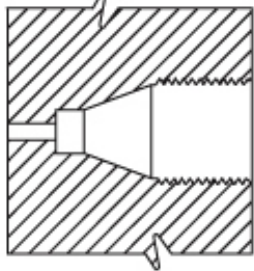
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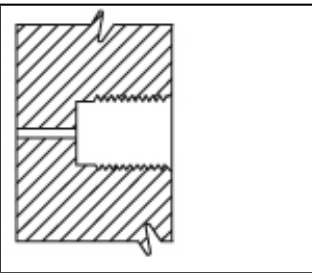
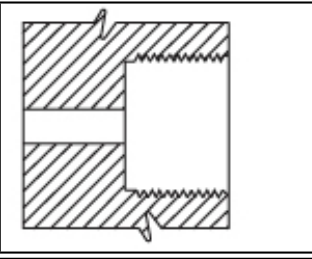
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Following are illustrations of standard threads for VICI Jour fittings. To see these fitting details at actual size, download and print the pdf file. Place your fitting on the printed sheet to identify the thread size.

| For tubing OD | Thread size | Illustration                                                                         |
|---------------|-------------|--------------------------------------------------------------------------------------|
| 360 µm        | 2-56        |     |
| 1/32"         | 6-40        |     |
| 1/16"         | 10-32       |   |
| 1/8"          | 5/16-20     |  |

|                |        |                                                                                    |
|----------------|--------|------------------------------------------------------------------------------------|
| 1/16" and 1/8" | 1/4-28 |   |
| 1/4"           | 1/2-20 |  |

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## VICI JOUR - TECHNICAL SUPPORT



### Frit Volume Stainless, Titanium, and Polymer Frits

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Internal frit volumes are theoretical and are calculated by multiplying the total frit volume by the proportion of the pores in the frit (porosity proportion). Stated frit porosities are only nominal and do not select the maximum pore size of a frit. The chart below will help you in selecting the right frit for your application.

| Porosity<br>in $\mu\text{m}$ | Max pore size<br>in $\mu\text{m}$ | Particles retained<br>in $\mu\text{m}$ | Porosity<br>in % |
|------------------------------|-----------------------------------|----------------------------------------|------------------|
| 0.2                          | 1                                 | 1.0                                    | 22               |
| 0.5                          | 2                                 | 1.5                                    | 26               |
| 1                            | 3                                 | 3.0                                    | 30               |
| 2                            | 5                                 | 3.5 - 5.0                              | 35               |
| 5                            | 15                                | 15.0                                   | 38               |
| 10                           | 30                                | 30                                     | 40               |

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Tubing Volume/Length Conversion Chart

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PEEK

Other polymers

Stainless steel

Tubing accessories

| Tubing ID |        | Volume/length |        |
|-----------|--------|---------------|--------|
| mm        | Inches | µl/cm         | µl/in  |
| 0.050     | .002"  | 0.02          | 0.05   |
| 0.064     | .0025" | 0.03          | 0.08   |
| 0.075     | .003"  | 0.04          | 0.12   |
| 0.10      | .004"  | 0.08          | 0.21   |
| 0.13      | .005"  | 0.13          | 0.32   |
| 0.17      | .0067" | 0.23          | 0.58   |
| 0.18      | .007"  | 0.25          | 0.63   |
| 0.25      | .010"  | 0.51          | 1.29   |
| 0.38      | .015"  | 1.14          | 2.90   |
| 0.50      | .020"  | 2.03          | 5.15   |
| xxx       | .025"  | 3.17          | 8.04   |
| 0.75      | .030"  | 4.56          | 11.58  |
| 1.00      | .040"  | 8.11          | 20.59  |
| 1.40      | .055"  | 15.39         | 38.93  |
| 1.52      | .060"  | 18.24         | 46.33  |
| 1.59      | .062"  | 19.86         | 49.47  |
| 1.65      | .065"  | 21.38         | 54.38  |
| 1.70      | .067"  | 22.70         | 57.78  |
| 1.78      | .070"  | 24.83         | 63.06  |
| 2.00      | .079"  | 31.42         | 80.32  |
| 2.10      | .083"  | 34.64         | 88.66  |
| 2.16      | .085"  | 36.61         | 92.99  |
| 2.40      | .094"  | 45.24         | 113.72 |

#### NOTE:

1/16" OD tubing sold by VICI typically has an ID tolerance of  $\pm .001$ ". This is much tighter than normal commercial grades of tubing; however, it is enough to result in noticeable error if exact volumes are not measured.

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## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS

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### Column Couplers and Plugs

Overview

PEEK columns

In-line biocompatible guard column

Column couplers and plugs

• Column coupler, one-piece fingertight

• Column end plugs

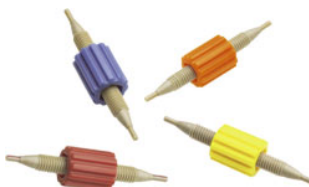
• Column end plugs, logotype

Packing kits

#### Column couplers

This column coupler adapts automatically to fit all pilot lengths - Valco, Waters, Upchurch, Rheodyne, etc. Coupler IDs are indicated by the color of the sleeve.

- Product information



#### Column end plugs

Fingertight column end plugs fit all columns with 10-32 threads, for safe closing of valuable columns.

- Product information



#### Column end plugs, logotype

Fingertight column end plugs with room to place your logo on the wrench flats, for OEM versions.

- Product information



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Fingertight One-Piece Fittings

#### Overview

#### One-piece

- PPS hex-head fittings
- PEEK fingertight
  - Color-coded
  - Natural
- PEEK hex-head
- PEEK No-Twist

#### Nuts and ferrules

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

#### Color-coded

Molded fittings with 10-32 threads are rated to 5000 psi (350 bar). Six colors allow easy identification of tubing lines.

- Product information



#### Natural

Machined fittings with 10-32 threads are rated to 5000 psi (350 bar). Several lengths and styles are available.

- Product information





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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### FEP Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

FEP (FluorinatedEthylenePropylene) tubing is chemically inert to most HPLC solvents, and is recommended for low pressure applications. Typically 1/16" OD tubing holds up to 117 bar (1700 psi), and 1/8" OD holds up to 70 bar (1000 psi).

We recommend FEP for ion chromatography applications.

#### Color-coded FEP tubing

Solid colored FEP tubing is available in 1/32" and 1/16" ODs.

- Product information



#### Natural FEP tubing

Natural FEP tubing is available in a range of ODs from 1/32" to 3 mm.

- Product information



#### SPECIFICATIONS

- Max. recommended working temp: 80°C (continuous)

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Recommended Maximum Working Pressure FEP Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Solid color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Solid color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

| OD     | ID (mm) | bar | psi  |
|--------|---------|-----|------|
| 1/32"  | 0.10    | 82  | 1200 |
|        | 0.13    | 78  | 1100 |
|        | 0.15    | 78  | 1100 |
|        | 0.18    | 72  | 1050 |
|        | 0.25    | 68  | 980  |
|        | 0.38    | 51  | 750  |
|        | 0.50    | 35  | 500  |
| 1/16"  | 0.10    | 124 | 1800 |
|        | 0.13    | 124 | 1800 |
|        | 0.15    | 117 | 1700 |
|        | 0.18    | 117 | 1700 |
|        | 0.20    | 117 | 1700 |
|        | 0.25    | 117 | 1700 |
|        | 0.50    | 96  | 1400 |
| 1/8"   | 1.59    | 69  | 1000 |
|        | 2.10    | 41  | 600  |
|        | 2.40    | 30  | 345  |
| 3/16"  | 3.18    | 41  | 600  |
| 1/4"   | 4.35    | 45  | 650  |
| 1.0 mm | 0.50    | 62  | 900  |
| 2.0 mm | 1.00    | 62  | 900  |
| 3.0 mm | 1.00    | 82  | 1200 |
|        | 2.00    | 41  | 600  |

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#### MORE INFORMATION

- Maximum working pressures for:
  - • ETFE
  - • PFA
  - • PTFE
  - • PEEK
- Chemical resistance
- Tubing ID chart: volume per length
- About FEP

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Polymer Tubing Tolerances

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Solid color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Solid color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

| Tubing OD | OD and ID tolerance |
|-----------|---------------------|
| 360 µm    | ±0.013 mm (.0005")  |
| 1/32"     | ±0.013 mm (.0005")  |
| 1/16"     | ±0.05 mm (.002")    |
| 1/8"      | ±0.10 mm (.004")    |
| 3/16"     | ±0.10 mm (.004")    |
| 1/4"      | ±0.10 mm (.004")    |

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Recommended Maximum Working Pressure PEEK Tubing

Overview

PEEK

- Dual layer
- Natural
- Solid color
- Striped color

Other polymers

Stainless steel

Tubing accessories

OD:    360 µm    1/32"    1/16"    1/8"    1/4"

| OD     | ID       | bar | psi  |
|--------|----------|-----|------|
| 360 µm | 50 µm    | 358 | 5200 |
|        | 75 µm    | 345 | 5000 |
|        | 100 µm   | 300 | 4400 |
|        | 125 µm   | 275 | 4000 |
|        | 150 µm   | 240 | 3500 |
| 1/32"  | 0.050 mm | 414 | 6000 |
|        | 0.064 mm | 414 | 6000 |
|        | 0.075 mm | 414 | 6000 |
|        | 0.100 mm | 414 | 6000 |
|        | 0.13 mm  | 379 | 5500 |
|        | 0.15 mm  | 365 | 5300 |
|        | 0.18 mm  | 351 | 5100 |
|        | 0.20 mm  | 340 | 4900 |
|        | 0.25 mm  | 310 | 4500 |
|        | 0.38 mm  | 250 | 3600 |
|        | 0.50 mm  | 193 | 2800 |
| 1/16"  | 0.050 mm | 434 | 6300 |
|        | 0.064 mm | 434 | 6300 |
|        | 0.075 mm | 428 | 6200 |
|        | 0.100 mm | 420 | 6100 |
|        | 0.13 mm  | 420 | 6100 |
|        | 0.18 mm  | 400 | 5800 |
|        | 0.25 mm  | 386 | 5600 |
|        | 0.50 mm  | 310 | 4500 |

|      |         |     |      |
|------|---------|-----|------|
|      | 0.75 mm | 240 | 3500 |
|      | 1.00 mm | 165 | 2400 |
|      | 1.40 mm | 52  | 750  |
| 1/8" | 0.75 mm | 345 | 5000 |
|      | 1.59 mm | 244 | 3250 |
|      | 2.00 mm | 165 | 2400 |
| 1/4" | 3.17 mm | 227 | 3300 |

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**MORE INFORMATION**

- Maxium working pressures for:
  - •ETFE
  - •FEP
  - •PFA
  - •PTFE
- Chemical resistance
- Tubing ID chart: volume per length
- About PEEK

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Statement of RoHS Compliance

[Overview](#)[PEEK](#)[Other polymers](#)[Stainless steel](#)[Tubing accessories](#)

All colorants used in the manufacture of our tubing are RoHS-compliant (Restriction of Hazardous Substances).

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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Recommended Maximum Working Pressure PTFE Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Solid color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Solid color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

| OD      | ID (mm) | bar | psi |
|---------|---------|-----|-----|
| 1/16"   | 0.18    | 62  | 900 |
|         | 0.25    | 55  | 800 |
|         | 0.50    | 48  | 700 |
|         | 0.75    | 37  | 550 |
|         | 1.00    | 25  | 350 |
| 1/8"    | 1.59    | 35  | 500 |
|         | 2.40    | 18  | 250 |
| 1/4"    | 4.75    | 17  | 250 |
| 2 mm    | 1.70    | 10  | 150 |
| 4 mm    | 3.00    | 17  | 250 |
| 4.76 mm | 3.76    | 14  | 200 |

#### MORE INFORMATION

- Maximum working pressures for:
  - • ETFE
  - • FEP
  - • PFA
  - • PEEK
- Chemical resistance
- Tubing ID chart: volume per length
- About PTFE

## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### 2.1 mm ID PEEK Columns

#### Overview

#### PEEK columns

• 2.1 mm ID

• 4.0 mm ID

#### In-line biocompatible guard column

#### Column couplers and plugs

#### Packing kits

- Biocompatible
- High pressure applications
- Packing devices available

We have designed this column for narrow-bore applications, and for those when a limit amount of sample is available for analysis.

Because 2.1 mm ID columns operate at 1/5th of the flow rate of their 4.6 mm counterparts, the same sample mass injected on a 2.1 mm column will produce five times the detector signal. This greater mass sensitivity provides the same analysis as on a 4.6 mm column with only 20% of the sample.

All our columns are delivered without frits. Purchase frits separately.

| Length | Product No. |
|--------|-------------|
| 30 mm  | JR-65001NF  |
| 50 mm  | JR-65002NF  |
| 100 mm | JR-65003NF  |
| 150 mm | JR-65005NF  |
| 250 mm | JR-65006NF  |



#### Spare parts for 2.1 mm ID columns

| Description        |                                                                                      | Qty/pkg | Product No.   |
|--------------------|--------------------------------------------------------------------------------------|---------|---------------|
| Column end fitting |  | 1       | JR-062        |
| PEEK-encased frit  | Titanium, 5 µm                                                                       | 5       | JR-1128-5P-5  |
|                    | Polyethylene, 10 µm                                                                  | 5       | JR-1150-10P-5 |

#### SPECIFICATIONS



## VICI JOUR - PEEK COLUMNS AND GUARD COLUMNS



### 4.0 mm ID PEEK Columns

#### Overview

#### PEEK columns

• 2.1 mm ID

• 4.0 mm ID

#### In-line biocompatible guard column

#### Column couplers and plugs

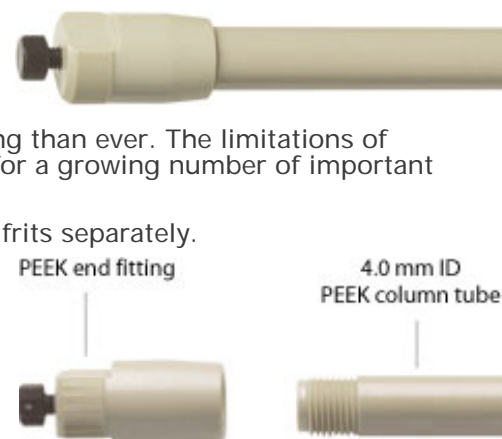
#### Packing kits

- Biocompatible
- High pressure applications
- Packing devices available



Today's HPLC and IC applications are more demanding than ever. The limitations of traditional stainless steel pose significant problems for a growing number of important biotechnology and ion chromatography applications.

All our columns are delivered without frits. Purchase frits separately.

| Length | Product No. |
|--------|-------------|
| 30 mm  | JR-68181NF  |
| 50 mm  | JR-68182NF  |
| 100 mm | JR-68183NF  |
| 150 mm | JR-68184NF  |
| 250 mm | JR-68185NF  |
| 300 mm | JR-68186NF  |



#### Spare parts for 4.0 mm ID columns

| Description                    |                                                                                     | Qty/pkg | Product No.   |
|--------------------------------|-------------------------------------------------------------------------------------|---------|---------------|
| Column end fitting             |  | 1       | JR-66140      |
| PEEK-encased Titanium frit     |  | 2 µm    | JR-1125-2P-5  |
|                                |                                                                                     | 5 µm    | JR-1125-5P-5  |
| PEEK-encased polyethylene frit |  | 10 µm   | JR-1151-10P-5 |

#### SPECIFICATIONS

- Material:

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## VICI JOUR - ACCESSORIES, TOOLS, AND STARTER KITS



### Tubing Cutters

Overview

Accessories for tubing

Accessories for fittings

Back-pressure regulators

Tools

• Ferrule removal kit

• File

• Hex key set

• Tweezer

• Wrench

• ValvTool

• Tubing cutters

• For polymeric

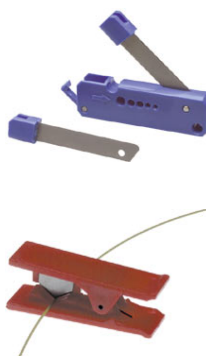
• For stainless

Starter kits

#### For polymeric tubing

The Clean-Cut polymeric tubing cutter makes burr-free perpendicular cuts to PEEK, PTFE, ETFE, and other polymeric tubing without distorting the OD or ID.

Our guillotine tubing cutter is a convenient tool for cutting tubes for less demanding applications.



#### For stainless tubing

The cutting wheel type cutter is the ideal way to cut 1/16" and 1/8" OD tubing, leaving smooth cuts requiring a minimum of deburring.

The plier type cutter is useful for quick cuts in non-critical applications.



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## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Recommended Maximum Working Pressure ETFE Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Solid color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Solid color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

| OD     | ID (mm) | bar | psi  |
|--------|---------|-----|------|
| 1/32"  | 0.025   | 152 | 2200 |
| 1/16"  | 0.17    | 200 | 2900 |
|        | 0.25    | 186 | 2700 |
|        | 0.50    | 152 | 2200 |
|        | 0.75    | 117 | 1700 |
|        | 1.00    | 83  | 1200 |
| 1/8"   | 1.59    | 110 | 1600 |
| 3.0 mm | 1.00    | 138 | 2000 |
| 6.0 mm | 4.00    | 69  | 1000 |

#### MORE INFORMATION

- Maximum working pressures for:
  - • FEP
  - • PFA
  - • PTFE
  - • PEEK
- Chemical resistance
- Tubing ID chart: volume per length
- About ETFE

## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Exhaust Filter - Optimized Absorbent

Overview

Caps

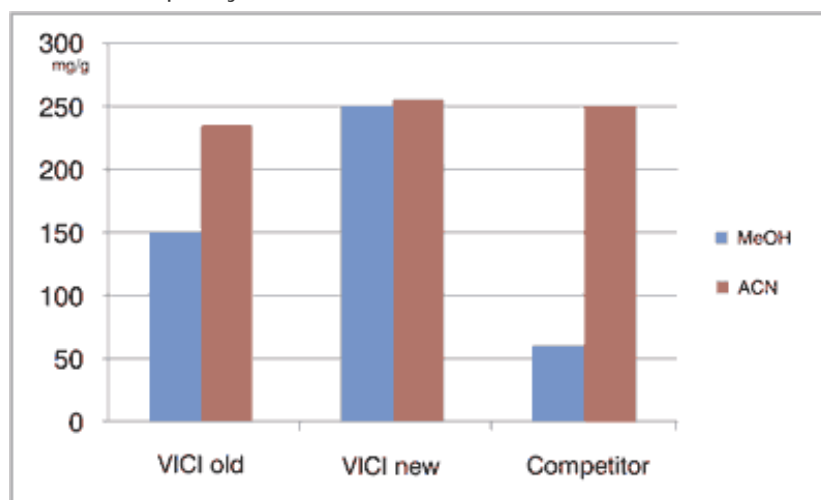
VICI safety filters

- Air inlet valve
- Air outlet valve
- Exhaust filter

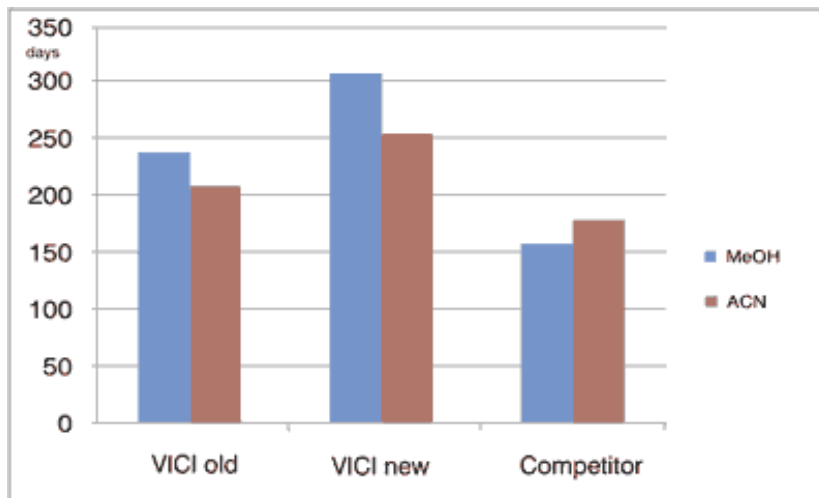
Bottles

SolviFlex

In our continuous work to improve our products, VICI has optimized the absorbent for increased capacity:



The excellent capacity of our new absorbent leads to longer lifetimes - up to 10 months for methanol and 8 months for acetonitrile.\*



\*Based on results of our tests (water/organics = 50/50; flow rate 1.0 ml/min during the day, 0.5 ml/min overnight, 0.1 ml/min during weekends).

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## MORE INFORMATION

- Filter lifetime

## NOTE

- Disposal of the saturated filters must be done according to the local regulations for chemical waste.

## TECH TIP

- Larger capacity = longer lifetime = lower costs
- As a general rule, halving the flow rate doubles the lifetime at constant composition and temperature. Doubling the flow rate halves it.

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## VICI JOUR - SAFETY AND MOBILE PHASE HANDLING SYSTEMS



### Exhaust Filter Lifetime

Overview

Caps

VICI safety filters

• Air inlet valve

• Air outlet valve

• Exhaust filter

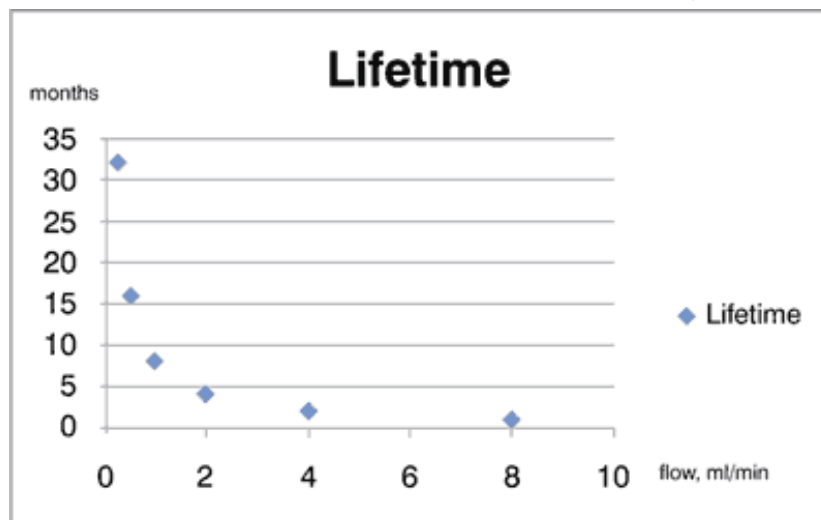
Bottles

SolviFlex

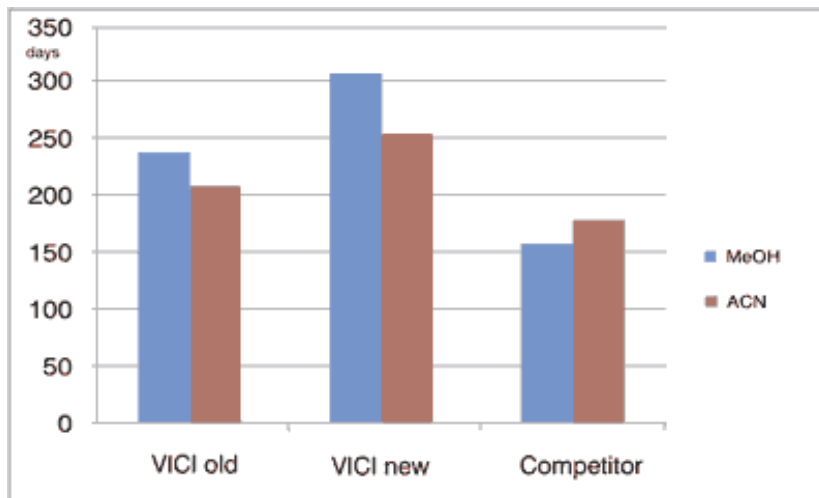
The lifetime of the filter depends on:

- Composition of the mobile phase
- Flow rate
- Ambient temperature: a higher temperature leads to an increased vapor pressure of the volatile compound

The theoretical lifetime of an exhaust filter, depending on the flow rate, can be shown as:



The excellent capacity of our new absorbent leads to longer lifetimes - up to 10 months for methanol and 8 months for acetonitrile.\*



\*Based on results of our tests (water/organics = 50/50; flow rate 1.0 ml/min during the day, 0.5 ml/min overnight, 0.1 ml/min during weekends).

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## MORE INFORMATION

- Optimized absorbent

## NOTE

- Disposal of the saturated filters must be done according to the local regulations for chemical waste.

## TECH TIP

- Larger capacity = longer lifetime = lower costs
- As a general rule, halving the flow rate doubles the lifetime at constant composition and temperature. Doubling the flow rate halves it.

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## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Valco Stainless Ferrules

#### Overview

#### Nuts

#### Ferrules

#### • Valco

#### • Rheodyne

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Tools for fittings

- 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 manufactureres 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.)

| Size  |                                                                                   | Qty/pkg | Product No. |
|-------|-----------------------------------------------------------------------------------|---------|-------------|
| 1/32" |  | 5       | JR-ZF.5-5   |
| 1/16" |  | 5       | JR-ZF1-5    |
| 1/8"  |  | 5       | JR-ZF2-5    |

#### SPECIFICATIONS

- For 1/32", 1/16", and 1/8" OD tubing
- Material: Type 316 SS
- Pressure rating:  
<1375 bar (20,000 psi)  
(Varies with tubing material and ID)

#### MORE INFORMATION

- About stainless steel



## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS




### Rheodyne® Stainless Ferrules

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[Ferrules](#)
[• Valco](#)
[• Rheodyne](#)
[Plugs and caps](#)
[Unions and reducing unions](#)
[Tees and crosses](#)
[Tools for fittings](#)

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

These ferrules are for use with metal Rheodyne valves.

| Description                  |                                                                                   | Qty/pkg | Product No. |
|------------------------------|-----------------------------------------------------------------------------------|---------|-------------|
| Standard ferrule             |  | 5       | JR-59-5     |
| 2-step Rheodyne-type ferrule |  | 5       | JR-60-5     |

#### SPECIFICATIONS

- For 1/32", 1/16", 1/8" OD tubing
- Material: Type 316L
- Pressure rating: <500 bar (7,250 psi) (Varies with tubing size and ID)

#### MORE INFORMATION

- About stainless steel

#### SEE ALSO

- Rheodyne nuts
- Stainless steel tubing
- ValvTool for tightening hex-head fittings

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## VICI JOUR - FRITS



### Polyethylene Frits - Unidense Type

#### Overview

#### Unidense frits

- Stainless
- Titanium
- Polyethylene

#### PEEK-encased frits

- Biocompatibility
- Metal free

Our completely metal-free polymer frits are made of UHMWPE (Ultra High Molecular Weight PolyEthylene), and offer a competitively priced alternative to titanium.

For single use only.



| OD                 | Thickness          | Porosity | Frit volume | Qty/pkg | Product No.         |
|--------------------|--------------------|----------|-------------|---------|---------------------|
| .255"<br>(6.50 mm) | .079"<br>(2.00 mm) | 10 µm    | 26.5 µL     | 5       | JR-F-255-079-10PE-5 |

#### SPECIFICATIONS

- Material: UHMWPE
- Tolerances:  $\pm 0.08$  mm (.003")

#### SEE ALSO

- PEEK-encased polyethylene

## VICI JOUR - FRITS



### Polyethylene Frits - PEEK-Encased Type

#### Overview

#### Unidense frits

#### PEEK-encased frits

- Stainless

- Titanium

- Polyethylene

- Biocompatible
- Metal free

Our polymer frits are made of UHMWPE (Ultra High Molecular Weight PolyEthylene). They are a competitively priced alternative to titanium and are completely metal free.

With the frit surrounded by a PEEK ring, the actual porous surface is reduced to the column ID. The compressed PEEK ring forms a seal between the bottom of the fitting and the column end, preventing the mobile phase and the sample from entering the previously accessible poorly swept areas.



| Ring OD           | Frit OD            | Thickness          | Porosity | Frit volume | Qty/pkg | Product No.   |
|-------------------|--------------------|--------------------|----------|-------------|---------|---------------|
| 1/5"<br>(5.08 mm) | .098"<br>(2.50 mm) | .059"<br>(1.50 mm) | 10 µm    | 2.94 µL     | 5       | JR-1150-10P-5 |
| 1/4"<br>(6.35 mm) | .181"<br>(4.60 mm) | .059"<br>(1.50 mm) | 10 µm    | 11.31 µL    | 5       | JR-1151-10P-5 |

#### SPECIFICATIONS

- Material

|      |        |
|------|--------|
| Frit | UHMWPE |
| Ring | PEEK   |

- Tolerances  
 $\pm 0.05$  mm (.002")

---

## SEE ALSO

- Calculation of frit volume

---

## MORE INFORMATION

- Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI Jour directly.

---

## NOTES

- Stated frit porosities are only nominal and do not reflect the maximum pore size of a frit.

---

## TECH TIP

- These frits can also be used as spare parts frits for:
  - PEEK in-line filter kit
  - PEEK columns

---

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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Ferrules for High Pressure 1/4-28 Connections

#### Overview

#### One-piece

#### Nuts and ferrules

- PEEK nuts, hex-head and fingertight

- Double ferrule nuts

- Single ferrule nuts

- PEEK ferrules

- Double

- Single

- 1/4-28

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses



#### Adapters

#### Tools for fittings

- High pressure rating - up to 480 bar (7000 psi) with 1/16" tubing
- Available for 1/16" and 1/32" tubing

With the PEEK ferrule and SS bushing, you get a high pressure connection in a 1/4-28 port. These should be used with with our PPS nut for 1/4-28 flat-bottomed details, JR-55050. *(not included)*



| Tubing OD |                                                                                   | Qty/pkg | Product No.    |
|-----------|-----------------------------------------------------------------------------------|---------|----------------|
| 1/32"     |  | 10      | JR-FPKBSS.5-10 |
| 1/16"     |  | 10      | JR-FPKBSS1-10  |

#### SPECIFICATIONS

- For 1/32" and 1/16" OD tubing
- Material  
Ferrule: PEEK  
Bushing: Stainless
- Pressure rating (varies with tubing material and ID)  
1/32":  
<175 bar (2500 psi)  
1/16":  
<480 bar (7000 psi)

---

#### MORE INFORMATION

- Chemical resistance
- About PEEK

---

#### SEE ALSO

- PEEK tubing for high pressure applications

---

#### TECH TIP

To make up the fitting, first place the nut on the tubing, followed by the bushing and then the ferrule, as shown in the photo.

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## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS

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### Valco Stainless Nuts

#### Overview

#### Nuts

- Valco
- Rheodyne

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Tools for fittings

- 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   |                                                                                     | Qty/pkg | Product No. |
|-----------|----------|-------------------------------------------------------------------------------------|---------|-------------|
| 1/32"     | Standard |    | 5       | JR-ZN.5-5   |
| 1/16"     | Standard |  | 5       | JR-ZN1-5    |
|           | Medium   |  | 5       | JR-MZN1-5   |
|           | Long     |  | 5       | JR-LZN1-5   |
| 1/8"      | Standard |  | 5       | JR-ZN2-5    |

## SPECIFICATIONS

- For 1/32", 1/16", and 1/8" OD tubing
- Material: Type 303 SS
- Threads:

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

- Pressure rating:  
<1375 bar (20,000 psi)  
(Varies with tubing material  
and ID)

## MORE INFORMATION

- About stainless steel

## SEE ALSO

- Valco ferrules
- Stainless steel tubing
- ValvTool for tightening  
hex-head fittings
- Color-It adapters



## TECH TIP

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



## VICI JOUR - HIGH PRESSURE STAINLESS FITTINGS



### Rheodyne® Type Stainless Nuts

#### Overview

#### Nuts

- Valco
- Rheodyne

#### Ferrules

#### Plugs and caps

#### Unions and reducing unions




#### Tees and crosses

#### Tools for fittings

- 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.



| Length     |                                                                                                     | Qty/pkg | Product No. |
|------------|-----------------------------------------------------------------------------------------------------|---------|-------------|
| Short      | <br>1/4" 11.0 mm   | 5       | JR-56-5     |
| Long       | <br>1/4" 14.0 mm   | 5       | JR-57-5     |
| Extra long | <br>1/4" 20.0 mm | 5       | JR-58-5     |

#### SPECIFICATIONS

- For 1/16" OD tubing
- Material: Type 316 SS
- Threads: 10-32

- Pressure rating:  
<500 bar (7,250 psi)  
(Varies with tubing material  
and ID)
- 

## MORE INFORMATION

- About stainless steel
- 

## SEE ALSO

- Rheodyne ferrules
- Stainless steel tubing
- ValvTool for tightening  
hex-head fittings
- Color-It adapters



## TECH TIP

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

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## VICI JOUR - SAMPLE LOOPS

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### PEEK Loops for Cheminert valves

#### Overview

#### PEEK loops

- Cheminert
- Rheodyne
- Valco

#### Stainless steel loops

#### ValvTool

- Fits all Cheminert C1, C2, C2V, and C3 type valves
- Wide range of volumes available
- Biocompatible

VICI Jour PEEK sample loops are made from PEEK tubing and fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications. Since our PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. Softener-free polyethylene caps are used to avoid contamination of the tubing.

PEEK sample loops are particularly well suited for separations involving proteins, peptides, nucleic acids or other samples of biological origin as well as in IC systems where metal traces may interact with ionic samples or release transition metals that may deactivate ion exchange columns.

PEEK hex-head nuts and PEEK ferrules provide reliable connections, and avoid twisting of the tube.



| Sample size | Pressure * |          | Product No.    |
|-------------|------------|----------|----------------|
| 5 µl        | 400 bar    | 5800 psi | JR-SLC-85-5    |
| 10 µl       | 400 bar    | 5800 psi | JR-SLC-85-10   |
| 20 µl       | 400 bar    | 5800 psi | JR-SLC-85-20   |
| 50 µl       | 400 bar    | 5800 psi | JR-SLC-85-50   |
| 100 µl      | 400 bar    | 5800 psi | JR-SLC-85-100  |
| 200 µl      | 240 bar    | 3500 psi | JR-SLC-85-200  |
| 250 µl      | 240 bar    | 3500 psi | JR-SLC-85-250  |
| 300 µl      | 240 bar    | 3500 psi | JR-SLC-85-300  |
| 500 µl      | 240 bar    | 3500 psi | JR-SLC-85-500  |
| 1 ml        | 240 bar    | 3500 psi | JR-SLC-85-1000 |

\* Recommended maximum permanent working pressure.

Spare parts

| Description                                                             | Qty/pkg | Product No. |
|-------------------------------------------------------------------------|---------|-------------|
| PEEK nuts for use with double ferrules, 1/16" hex head long, 10-32      | 5       | JR-5510-5   |
| PEEK single ferrules, 1/16"<br>(Use 2 per nut. See illustration above.) | 5       | JR-5005-5   |

SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Loops    | PEEK         |
| Nuts     | PEEK         |
| Ferrules | PEEK         |
| Caps     | Polyethylene |

- Tolerances:  
±0.025 mm (.001")

MORE INFORMATION

- Other sample sizes are available on request. Please contact **your distributor** or VICI Jour directly.
- Chemical resistance
- About PEEK

TECH TIP

- The tighter ID tolerance of the tubing minimizes the tolerance of the loop volume.

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### PEEK Loops for Rheodyne® valves

#### Overview

#### PEEK loops

• Cheminert

• Rheodyne

• Valco

#### Stainless steel loops

#### ValvTool

- Fits all Rheodyne metal and metal-free valves
- Wide range of volumes available
- Biocompatible
- Made of premium grade PEEK tubing

VICI Jour PEEK sample loops are made from PEEK tubing and fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications. Since our PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. Softener-free polyethylene caps are used to avoid contamination of the tubing.

PEEK sample loops are particularly well suited for separations involving proteins, peptides, nucleic acids or other samples of biological origin as well as in IC systems where metal traces may interact with ionic samples or release transition metals that may deactivate ion exchange columns.

PEEK hex-head nuts and PEEK ferrules provide reliable connections, and avoid twisting of the tube.



| Sample size | Pressure * |          | Product No. |
|-------------|------------|----------|-------------|
| 1 µl        | 435 bar    | 6300 psi | JR-SLR-2190 |
| 2 µl        | 420 bar    | 6100 psi | JR-SLR-2191 |
| 3 µl        | 420 bar    | 6100 psi | JR-SLR-2192 |
| 4 µl        | 420 bar    | 6100 psi | JR-SLR-2193 |
| 5 µl        | 400 bar    | 5800 psi | JR-SLR-2194 |
| 10 µl       | 400 bar    | 5800 psi | JR-SLR-2196 |
| 20 µl       | 386 bar    | 5600 psi | JR-SLR-2195 |
| 30 µl       | 386 bar    | 5600 psi | JR-SLR-2200 |
| 40 µl       | 386 bar    | 5600 psi | JR-SLR-2201 |
| 50 µl       | 350 bar    | 4500 psi | JR-SLR-2202 |

|        |         |          |             |
|--------|---------|----------|-------------|
| 100 µl | 350 bar | 4500 psi | JR-SLR-2204 |
| 200 µl | 240 bar | 3500 psi | JR-SLR-2206 |
| 250 µl | 240 bar | 3500 psi | JR-SLR-2207 |
| 500 µl | 240 bar | 3500 psi | JR-SLR-2210 |
| 1 ml   | 240 bar | 3500 psi | JR-SLR-2222 |

\* Recommended maximum permanent working pressure.

### Spare parts

| Description                                                             | Qty/pkg | Product No. |
|-------------------------------------------------------------------------|---------|-------------|
| PEEK nuts for use with double ferrules, 1/16" hex head long, 10-32      | 5       | JR-5510-5   |
| PEEK single ferrules, 1/16"<br>(Use 2 per nut. See illustration above.) | 5       | JR-5005-5   |

### SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Loops    | PEEK         |
| Nuts     | PEEK         |
| Ferrules | PEEK         |
| Caps     | Polyethylene |

- Tolerances:  
±0.025 mm (.001")

### MORE INFORMATION

- Other sample sizes are available on request. Please contact your distributor or VICI Jour directly.
- Chemical resistance
- About PEEK

### TECH TIP

- The tighter ID tolerance of the tubing minimizes the tolerance of the loop volume.

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### PEEK Loops for Valco valves

#### Overview

#### PEEK loops

- Cheminert
- Rheodyne
- Valco

#### Stainless steel loops

#### ValvTool

- Fits Valco W and UW type valves
- Wide range of volumes available
- Biocompatible

VICI Jour PEEK sample loops are made from PEEK tubing and fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications. Since our PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. Softener-free polyethylene caps are used to avoid contamination of the tubing.

PEEK sample loops are particularly well suited for separations involving proteins, peptides, nucleic acids or other samples of biological origin as well as in IC systems where metal traces may interact with ionic samples or release transition metals that may deactivate ion exchange columns.

PEEK hex-head nuts and PEEK ferrules provide reliable connections, and avoid twisting of the tube.



| Sample size | Pressure * |          | Product No.    |
|-------------|------------|----------|----------------|
| 5 µl        | 400 bar    | 5800 psi | JR-SLV-75-5    |
| 10 µl       | 400 bar    | 5800 psi | JR-SLV-75-10   |
| 20 µl       | 400 bar    | 5800 psi | JR-SLV-75-20   |
| 50 µl       | 400 bar    | 5800 psi | JR-SLV-75-50   |
| 100 µl      | 400 bar    | 5800 psi | JR-SLV-75-100  |
| 250 µl      | 240 bar    | 3500 psi | JR-SLV-75-250  |
| 500 µl      | 240 bar    | 3500 psi | JR-SLV-75-500  |
| 1 ml        | 240 bar    | 3500 psi | JR-SLV-75-1000 |

\* Recommended maximum permanent working pressure.

Spare parts

| Description                                                          | Qty/pkg | Product No. |
|----------------------------------------------------------------------|---------|-------------|
| PEEK nuts for use with double ferrules, 1/16" hex head long, 10-32   | 5       | JR-5510-5   |
| PEEK single ferrules, 1/16" (Use 2 per nut. See illustration above.) | 5       | JR-5005-5   |

SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Loops    | PEEK         |
| Nuts     | PEEK         |
| Ferrules | PEEK         |
| Caps     | Polyethylene |

- Tolerances:  
±0.025 mm (.001")

MORE INFORMATION

- Other sample sizes are available on request. Please contact your distributor or VICI Jour directly.
- Chemical resistance
- About PEEK

TECH TIP

- The tighter ID tolerance of the tubing minimizes the tolerance of the loop volume.

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## VICI JOUR - SAMPLE LOOPS



### Stainless Loops for Cheminert® Valves

Overview

PEEK loops

Stainless steel loops

• Cheminert

• Rheodyne

• Valco

ValvTool

- Fit all Cheminert C1, C2, C2V, and C3 type valves
- Wide range of volumes available
- High pressure resistance, low permeability

VICI Jour stainless steel sample loops are made of high quality SS316. They are cut using an electrolytic cutting process, cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination of the tubing.

All loops are supplied with stainless hex-head nuts and stainless ferrules for reliable connections.



| Sample size | Product No.    |
|-------------|----------------|
| 5 µl        | JR-SLC-86-5    |
| 10 µl       | JR-SLC-86-10   |
| 20 µl       | JR-SLC-86-20   |
| 50 µl       | JR-SLC-86-50   |
| 100 µl      | JR-SLC-86-100  |
| 250 µl      | JR-SLC-86-250  |
| 500 µl      | JR-SLC-86-500  |
| 1 ml        | JR-SLC-86-1000 |

### Spare parts

| Description                 | Qty/pkg | Product No. |
|-----------------------------|---------|-------------|
| 1/16" stainless nuts, 10-32 | 5       | JR-ZN1-5    |
| 1/16" stainless ferrules    | 5       | JR-ZF1S6-5  |

## SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Loops    | SS316        |
| Nuts     | SS303        |
| Ferrules | SS316        |
| Caps     | Polyethylene |

- Tolerances:  
±0.05 mm (.002")
- Pressure rating:  
< 350 bar (5000 psi)

## MORE INFORMATION

- Other sample sizes are available on request. Please contact **your distributor** or VICI Jour directly.

## TECH TIPS

- Not recommended for use with halides.
- We offer nuts in three lengths to facilitate wrench access on valves. For loops that will be replaced frequently, we recommend our longest nut – particularly when space is restricted.
  - See long nuts.

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## VICI JOUR - SAMPLE LOOPS



### Stainless Loops for Rheodyne® Valves

#### Overview

#### PEEK loops

#### Stainless steel loops

• Cheminert

• Rheodyne

• Valco

#### ValvTool

- Fit all Rheodyne® valves
- Special loops for valve Model 7725
- Wide range of volumes available
- High pressure resistance, low permeability

VICI Jour stainless steel sample loops are made of high quality SS316. They are cut using an electrolytic cutting process, cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination of the tubing.

All loops are supplied with stainless hex-head nuts and stainless ferrules for reliable connections.

| Sample size | Product No.   |
|-------------|---------------|
| 5 µl        | JR-SLR-86-111 |
| 10 µl       | JR-SLR-86-112 |
| 20 µl       | JR-SLR-86-113 |
| 50 µl       | JR-SLR-86-114 |
| 100 µl      | JR-SLR-86-115 |
| 200 µl      | JR-SLR-86-116 |
| 500 µl      | JR-SLR-86-117 |
| 1 ml        | JR-SLR-86-118 |

#### Loops for Rheodyne valve 7725, 1/16"

| Sample size | Product No.      |
|-------------|------------------|
| 5 µl        | JR-SLR-86-111-77 |
| 10 µl       | JR-SLR-86-112-77 |
| 20 µl       | JR-SLR-86-113-77 |



|        |                  |
|--------|------------------|
| 50 µl  | JR-SLR-86-114-77 |
| 100 µl | JR-SLR-86-115-77 |
| 200 µl | JR-SLR-86-116-77 |
| 500 µl | JR-SLR-86-117-77 |
| 1 ml   | JR-SLR-86-118-77 |

Spare parts

| Description                        |                             | Qty/pkg | Product No. |
|------------------------------------|-----------------------------|---------|-------------|
| 1/16" Rheodyne type stainless nuts | For valve 7725, long head   | 5       | JR-57-5     |
|                                    | X-long                      | 5       | JR-58-5     |
| Stainless ferrules                 | 1/16"                       | 5       | JR-59-5     |
|                                    | 2-step Rheodyne type, 1/16" | 5       | JR-60-5     |

Top ▲

## SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Loops    | SS316        |
| Nuts     | SS316        |
| Ferrules | SS316        |
| Caps     | Polyethylene |

- Tolerances:  
±0.05 mm (.002")
  - Pressure rating:  
< 350 bar (5000 psi)
- 

## MORE INFORMATION

- Other sample sizes are available on request. Please contact your distributor or VICI Jour directly.
- 

## TECH TIPS

- Not recommended for use with halides.
  - We offer nuts in three lengths to facilitate wrench access on valves. For loops that will be replaced frequently, we recommend our longest nut – particularly when space is restricted.
    - See extra long nuts.
- 

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### Stainless Loops for Valco Valves

#### Overview

#### PEEK loops

#### Stainless steel loops

• Cheminert

• Rheodyne

• Valco

#### ValvTool

- Fit all Valco W and UW type valves
- Wide range of volumes available
- High pressure resistance, low permeability

VICI Jour stainless steel sample loops are made of high quality SS316. They are cut using an electrolytic cutting process, cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination of the tubing.

All loops are supplied with stainless hex-head nuts and stainless ferrules for reliable connections.



| Sample size | Product No.    |
|-------------|----------------|
| 5 µl        | JR-SLV-76-5    |
| 10 µl       | JR-SLV-76-10   |
| 20 µl       | JR-SLV-76-20   |
| 50 µl       | JR-SLV-76-50   |
| 100 µl      | JR-SLV-76-100  |
| 250 µl      | JR-SLV-76-250  |
| 500 µl      | JR-SLV-76-500  |
| 1 ml        | JR-SLV-76-1000 |

#### Spare parts

| Description                 | Qty/pkg | Product No. |
|-----------------------------|---------|-------------|
| 1/16" stainless nuts, 10-32 | 5       | JR-ZN1-5    |
| 1/16" stainless ferrules    | 5       | JR-ZF1S6-5  |

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ECHNology Pty Ltd  
+61(0)3 9762 2034

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Importers & Manufacturers  
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## SPECIFICATIONS

- Materials:

|          |              |
|----------|--------------|
| Loops    | SS316        |
| Nuts     | SS303        |
| Ferrules | SS316        |
| Caps     | Polyethylene |

- Tolerances:  
±0.05 mm (.002")
- Pressure rating:  
< 350 bar (5000 psi)

## MORE INFORMATION

- Other sample sizes are available on request. Please contact **your distributor** or **VICI Jour** directly.

## TECH TIPS

- Not recommended for use with halides.
- We offer nuts in three lengths to facilitate wrench access on valves. For loops that will be replaced frequently, we recommend our longest nut – particularly when space is restricted.
- See long nuts.

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## VICI JOUR - NANOVOLUME FITTINGS



### 360 µm Fittings for Metal Tubing, < 20,000 psi

#### Overview

#### 360 micron

- For metal tubing,  
< 20K psi



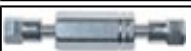

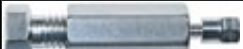
- For fused silica tubing,  
≥ 10K psi

- For PEEK or FS tubing,  
< 10K psi

1/32"

#### Tools for fittings

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.

| Description                        |                                                                                    | Bore       | Product No.    |
|------------------------------------|------------------------------------------------------------------------------------|------------|----------------|
| Nut/ferrule                        |   |            | JR-C360NFS6    |
| Cap                                |   |            | JR-C360C       |
| Union                              |   | 50 micron  | JR-C360US62    |
|                                    |                                                                                    | 100 micron | JR-C360US64    |
|                                    |                                                                                    | 150 micron | JR-C360US66    |
| Reducing union,<br>1/32" to 360 µm |   | 50 micron  | JR-C360RU.5S62 |
|                                    |                                                                                    | 100 micron | JR-C360RU.5S64 |
|                                    |                                                                                    | 150 micron | JR-C360RU.5S66 |
| Reducing union,<br>1/16" to 360 µm |  | 150 micron | JR-C360RU1S66  |

#### SPECIFICATIONS

- For 360 µm metal tubing
- Material: HPLC grade SS
- Pressure rating:  
< 1375 bar (20,000 psi)  
(Varies with tubing material  
and ID)

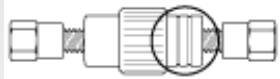
#### MORE INFORMATION

- Instructions for initial  
makeup



### TECH TIP

Grooves on the fitting body indicate the bore size (PEEK union shown):



Grooves indicate bore size

1 groove: 50  $\mu\text{m}$

2 grooves: 100  $\mu\text{m}$

no grooves: 150  $\mu\text{m}$

## VICI JOUR - NANOVOLUME FITTINGS



### 360 $\mu$ m Fittings for Fused Silica Tubing, $\geq 10,000$ psi

#### Overview

#### 360 micron

- For metal tubing,  
< 20K psi





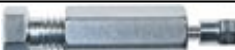
- For fused silica tubing,  
 $\geq 10K$  psi

- For PEEK or FS tubing,  
< 10K psi

1/32"

#### Tools for fittings

These fittings are constructed of 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.

| Description                             |                                                                                    | Bore       | Product No.    |
|-----------------------------------------|------------------------------------------------------------------------------------|------------|----------------|
| Nut/ferrule                             |   |            | JR-C360NFFS    |
| Cap                                     |   |            | JR-C360CFS     |
| Union                                   |   | 50 micron  | JR-C360UFS2    |
|                                         |                                                                                    | 100 micron | JR-C360UFS4    |
|                                         |                                                                                    | 150 micron | JR-C360UFS6    |
| Reducing union,<br>1/32" to 360 $\mu$ m |   | 50 micron  | JR-C360RU.5FS2 |
|                                         |                                                                                    | 100 micron | JR-C360RU.5FS4 |
|                                         |                                                                                    | 150 micron | JR-C360RU.5FS6 |
| Reducing union,<br>1/16" to 360 $\mu$ m |  | 150 micron | JR-C360RU1FS6  |

#### SPECIFICATIONS

- For 360  $\mu$ m FS tubing
- Material:

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

- Pressure rating:  
 $\geq 689.5$  bar (10,000 psi)  
(Varies with tubing material  
and ID)

#### MORE INFORMATION

- Instructions for initial

makeup

#### TECH TIP

- Grooves on the fitting body indicate the bore size (PEEK union shown):



Grooves indicate bore size

1 groove: 50  $\mu\text{m}$

2 grooves: 100  $\mu\text{m}$

no grooves: 150  $\mu\text{m}$

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**11/12**

## VICI JOUR - NANOVOLUME FITTINGS



### 360 µm Fittings for PEEK or Fused Silica Tubing, < 10,000 psi

#### Overview

#### 360 micron

• For metal tubing,  
< 20K psi


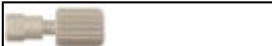







• For fused silica tubing,  
≥ 10K psi

• For PEEK or FS tubing,  
< 10K psi

1/32"

#### Tools for fittings

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 an integral base with double-stick tape to secure fittings to a surface.

| Description                        |                                                                                      | Bore       | Product No.   |
|------------------------------------|--------------------------------------------------------------------------------------|------------|---------------|
| Nut/ferrule                        |    |            | JR-C360NFPK   |
| Cap                                |    |            | JR-C360CPK    |
| Plug                               |    |            | JR-C360PPK    |
| Union, quick mount                 |    | 50 micron  | JR-C360QUPK2  |
|                                    |                                                                                      | 100 micron | JR-C360QUPK4  |
|                                    |                                                                                      | 150 micron | JR-C360QUPK6  |
| Union                              |   | 50 micron  | JR-C360UPK2   |
|                                    |                                                                                      | 100 micron | JR-C360UPK4   |
|                                    |                                                                                      | 150 micron | JR-C360UPK6   |
| Reducing union,<br>1/16" to 360 µm |  | 100 micron | JR-C360RU1PK6 |
| Tee,<br>quick mount                |  | 50 micron  | JR-C360QTPK2  |
|                                    |                                                                                      | 100 micron | JR-C360QTPK4  |
|                                    |                                                                                      | 150 micron | JR-C360QTPK6  |
| Cross,<br>quick mount              |  | 50 micron  | JR-C360QXPK2  |
|                                    |                                                                                      | 100 micron | JR-C360QXPK4  |
|                                    |                                                                                      | 150 micron | JR-C360QXPK6  |
| Tightening tool                    |  |            | JR-C360ET     |

## SPECIFICATIONS

- For 360 µm PEEK or FS tubing
- Material: PEEK
- Pressure rating:  
< 689.5 bar (10,000 psi)  
(Varies with tubing material and ID)

## MORE INFORMATION

- Instructions for initial makeup

## 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

## VICI JOUR - TUBING FOR CHROMATOGRAPHY



### Recommended Maximum Working Pressure PFA Tubing

#### Overview

#### PEEK

#### Other polymers

##### • ETFE

##### • FEP

##### • Solid color-coded

##### • Natural

##### • PFA

##### • PTFE

##### • Solid color-coded

##### • Natural

##### • Impermeable

##### • Thermo-formed

#### Stainless steel

#### Tubing accessories

| OD     | ID      | bar | psi  |
|--------|---------|-----|------|
| 360 µm | 50 µm   | 103 | 1500 |
|        | 75 µm   | 96  | 1400 |
|        | 100 µm  | 90  | 1300 |
|        | 150 µm  | 75  | 1100 |
| 1/16"  | 0.50 mm | 100 | 1450 |
|        | 0.75 mm | 76  | 1100 |
|        | 1.00 mm | 55  | 800  |
| 1/8"   | 1.59 mm | 72  | 1050 |
|        | 1.70 mm | 65  | 940  |
| 3/16"  | 3.20 mm | 41  | 600  |
| 1/4"   | 4.35 mm | 45  | 650  |

#### MORE INFORMATION

- Maximum working pressures for:
  - • ETFE
  - • FEP
  - • PTFE
  - • PEEK
- Chemical resistance
- Tubing ID chart: volume per length
- About PFA

# Standard Threads

Place fitting on the fitting detail below to identify the thread size.

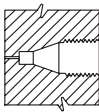
2-56  
(for 360  $\mu$ m OD tubing)



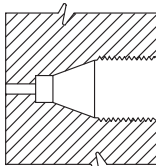
6-40  
(for 1/32" OD tubing)



10-32  
(for 1/16" OD tubing)



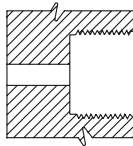
5/16"-24  
(for 1/8" OD tubing)



1/4"  
(for 3/8" and 1/2" OD tubing)



1/2"-20  
(for 1/2" OD tubing)



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## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Nuts

Overview

One-piece

Nuts and ferrules

- PEEK nuts, hex-head and fingertight

- Double ferrule nuts

- Single ferrule nuts

- PEEK ferrules

- Double

- Single

- 1/4-28

Fingertight adapters

Plugs and caps

Unions and reducing unions

Tees and crosses

Adapters

Tools for fittings

#### Nuts for double ferrules

We offer fingertight versions as well as hex-head, for those difficult to reach fittings. These fit all 10-32 fittings.



- Product information

#### Nuts for single ferrules

Sizes for high pressure 1/32", 1/16", and 1/8" tubing (6-40, 10-32, and 5/16-24 threads).

Product information





## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Ferrules

#### Overview

#### One-piece

#### Nuts and ferrules

- PEEK nuts, hex-head and fingertight

- Double ferrule nuts

- Single ferrule nuts

- PEEK ferrules

- Double

- Single

- 1/4-28

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

#### Double ferrules

Use these with 1/16" tubing for pressures up to 420 bar (6000 psi).

- Product information

#### 1/4-28 ferrules

Use these with 1/32" or 1/16" tubing for high pressure connections in a 1/4-28 port.

- Product information

#### Single ferrules

Sizes for high pressure 1/32", 1/16", and 1/8" tubing.

- Product information

#### MORE INFORMATION

## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Double Ferrules

#### Overview

#### One-piece

#### Nuts and ferrules

• PEEK nuts, hex-head and fingertight

• Double ferrule nuts

• Single ferrule nuts

• PEEK ferrules

• Double

• Single

• 1/4-28

#### Fingertight adapters

#### Plugs and caps

#### Unions and reducing unions

#### Tees and crosses

#### Adapters

#### Tools for fittings

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

These ferrules, which are designed to grip the tubing twice for added stability, are for use with VICI Jour PEEK nuts for double ferrules. The fingertight version may be hand-tightened for operation at up to 420 bar (6000 psi). The fittings fit virtually any female 1/16" fitting.

| Description               | Qty/pkg | Product No. |
|---------------------------|---------|-------------|
| 1/16" PEEK double ferrule | 5       | JR-5004-5   |



### SPECIFICATIONS

## VICI JOUR - HIGH PRESSURE POLYMERIC FITTINGS



### PEEK Single Ferrules

Overview

One-piece

Nuts and ferrules

• PEEK nuts, hex-head and fingertight

• Double ferrule nuts

• Single ferrule nuts

• PEEK ferrules

• Double

• Single

• 1/4-28

Fingertight adapters

Plugs and caps

Unions and reducing unions

Tees and crosses

Adapters

Tools for fittings

- For 1/32", 1/16", and 1/8" tubing
- Ideal for 1/16" PEEK tubing



| Tubing OD | Qty/pkg | Product No. |
|-----------|---------|-------------|
| 1/32"     | 5       | JR-ZF.5PK-5 |
| 1/16"     | 5       | JR-5003-5   |
| 1/8"      | 5       | JR-ZF2PK-5  |

#### SPECIFICATIONS

- For 1/16" OD tubing
- Material: PEEK
- Pressure rating: <280 bar (4000 psi) (Varies with tubing material and ID)

#### MORE INFORMATION

- Chemical resistance
- About PEEK

#### SEE ALSO

- PEEK tubing

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Request a VICI catalog or ask for specific information on a product line from one of the VICI companies.

- View page

#### Ordering information

Read details about how to make a purchase or return.

- View page
- International distributors

#### Returns and repairs

Instructions to facilitate returns and repairs. No returns will be accepted more than 90 days after shipment for any reason.

- View page

#### Additional information

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### MORE INFORMATION

Have a question that's not covered here?  
Check the Support menu above.

### CONTACT US

- Repairs  
For repair return authorization, information about factory refurbishment, or to check on the progress of a repair
- Sales and service  
To place an order, obtain a return authorization number, or ask a question

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- Information on which files are viewed
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When processing your credit card payment, we will ask for the card type, number, expiration date, and your card's billing address. We will transmit credit card numbers in an encrypted format using industry-standard, SSL (secure socket layer) encryption. When a credit card transaction is completed, we will discard your credit card number on the Internet server.

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Persons who supply us with their telephone numbers online may receive calls from us regarding response to their information requests or to orders they have placed on-line. If you do not wish to receive telephone calls, please let us know by calling us by at (713) 688-9345.

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PO Box 55603  
Houston, TX 77255  
Contact: Mollie DeFrancesco

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### Returns and Repairs

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#### Returns

Important! Damaged shipments must remain with the original packaging for freight company inspection. Inspect shipments upon receipt and report shortages and incorrect or damaged material to us immediately.

No returns will be accepted more than 90 days after shipment for any reason. Before 90 days, no returns will be accepted without prior authorization. If it is necessary to return material to us, please contact our sales department for a return authorization number and forwarding instructions.

Returned material will be subject to a restocking charge of 20% for catalog items. Special orders cannot be returned unless defective.

#### Repairs

Note: All repairs sent to the factory must include an RMA number and a valid purchase order to cover the amount of the repair. Packages lacking these documents will be returned COD.

To obtain an RMA number or for any other information about factory refurbishment, contact our repair department.

#### FOR RETURN AUTHORIZATION

Contact our sales  
department

#### FOR REPAIR AUTHORIZATION

Contact our repair  
department



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### VICI Jour Standard Conditions of Sale

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#### Acceptance

All sales between Valco Instruments Co., Inc. ("Valco") and the customer ("Buyer") are subject to the terms and conditions contained herein ("Valco's Standard Conditions of Sale"). No variation of these terms and conditions will be binding upon Valco unless agreed to in writing and signed by an officer or other authorized representative of Valco. In all cases where Buyer's Purchase Order Terms conflict with Valco's Standard Conditions of Sale, Valco's Standard Conditions of Sale will take precedence. Buyer acknowledges that Buyer has read these terms and conditions and has had the opportunity to consult with legal counsel for legal advice regarding same. Valco's sale of its goods (also referred to as products) to Buyer is expressly made conditional on Buyer's assent to these terms and conditions. Unless Buyer notifies Valco within ten (10) days after receipt of this Valco's Standard Conditions of Sale and returns the purchased goods to Valco, Buyer accepts the goods purchased from Valco subject to the terms and conditions of this Valco's Standard Conditions of Sale. Buyer understands and acknowledges that Valco would not consummate this sale without Buyer's agreement to these terms and conditions and that Valco's pricing of its goods is in reliance on these terms and conditions.

#### Delivery

Valco will use commercially reasonable efforts to make shipments on date(s) agreed by Valco. Shipments are made F.O.B. (or as may be applicable, FCA or EXW) Valco's facility. All products shall be deemed to be delivered and risk of loss shall pass to Buyer at such time as the product is loaded onto a transportation carrier vehicle. Buyer shall pay, and be exclusively liable for, all costs of shipping, delivery, and any related insurance. All claims by Buyer for damage, loss or delays in transit shall be made by Buyer against the carrier, and Valco shall have no responsibility or obligations with respect to any such damage, loss, or delay. If Valco arranges transportation for Buyer, such arrangements shall be at Buyer's sole risk and expense, and transfer of title and risk of loss as specified above shall not be affected. Buyer shall pay any increase in transportation costs that are charged to Valco subsequent to its invoice to Buyer, including any fuel surcharges.

#### Incoming Inspection

Buyer shall inspect goods immediately upon delivery and shall notify Valco in writing of any claims for damage, defects, or shortage within ten (10) days after receipt of the goods. Failure to do so will relieve Valco of liability for any such claims, and the goods shall be deemed to be accepted by Buyer. If Buyer rightfully rejects any non-confirming tender of goods within the time provided herein, Buyer shall return the goods to Valco, at Valco's expense, within twenty four (24) hours after rejection.

#### Delivery Damages

Valco shall not be liable for any damages, loss, or penalty as a result of any delays in manufacturing or delivery of goods.

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**Force Majeure**

Valco will not be liable for delays or damage to goods resulting from extraordinary events beyond Valco's control, such as (but not limited to) flood, war, riots, labor events, acts of State, or any other acts of God.

**Insurance**

Valco maintains sufficient insurance to conduct business with an acceptable level of risk. Accordingly, Valco will not accept or entertain requirements of any Buyer for minimum levels of insurance coverage.

**Payment**

Payment will be accepted in United States Dollars only and Buyer shall pay Valco's invoice within thirty (30) days after the goods have been received.

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**Late Charges**

If Buyer fails to pay the price or any other payment due to Valco promptly and when due, Valco may require Buyer to pay, in addition to the price payment, interest thereon at a rate equal to the lesser of 1 1/2% per month and the maximum rate of interest allowable under applicable law, from the original due date until full payment has been made by Buyer or on Buyer's behalf. Furthermore, this late fee is in addition to any other remedies Valco may have under applicable laws. The parties acknowledge and agree that this late fee is reasonable in the light of the anticipated or actual harm caused by the Buyer's late payments to Valco, the difficulties of proof of loss, and the inconvenience or non-feasibility of Valco otherwise obtaining an adequate remedy. Furthermore, Valco may immediately stop any and all deliveries and/or shipments of goods to Buyer if Buyer is more than fifteen (15) days delinquent on its payments to Valco.

**Price**

Prices are listed in United States Dollars. Charges associated with taxes, shipping, and duties will be assessed to Buyer at the time of sale and will be included in the invoice. Unless agreed to in writing and signed by an officer or other authorized representative of Valco, Valco reserves the right to adjust pricing as it sees fit and does not offer any best price guarantees.

**Taxes**

Shipments made within the state of Texas or Washington will be assessed the appropriate sales tax, unless the Buyer can provide documentation of authorized tax-exempt status.

**Intellectual Property**

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#### **Assignment**

Valco reserves the right to assign all or part of this agreement, and/or the ability to fulfill any agreements between Valco and Buyer, to any of its subsidiaries and/or affiliates as it sees fit, without notice to Buyer. No right or interest in this contract may be assigned by Buyer without the written consent of Valco. Any attempted delegation of performance by Buyer without prior written consent of Valco will be void and ineffective for all purposes.

#### **Limited Warranty**

Except as specified below, products sold hereunder shall be free from defects in materials and workmanship and shall conform to Valco's published specifications or other specifications accepted in writing by Valco for one year from the date of shipment or its useful life, whichever is less. The foregoing warranty does not apply to any products which have been subject to misuse, neglect, accident or modification or which have been altered or soldered such that they are not capable of being tested under normal test conditions. Valco's sole obligation for products failing to comply with this warranty shall be, at Valco's discretion, to either replace the nonconforming product or issue Buyer credit for the



## Safety

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1. Never tighten or loosen a fitting or valve connection while it is pressurized. Provisions should be made within the system to release pressure via suitable valve components.
2. Do not exceed pressure or temperature specifications. Note that in many cases, the system pressure is limited by the tubing used, not the fittings.
3. The use of toxic or hazardous fluids requires extra caution during operation or maintenance. The user is responsible for insuring safe operation and for understanding the nature of the fluids and chemistry involved.
4. The use of thread lubricants or sealants is required only on tapered pipe threads. These sealants and lubricants may have different temperature limits or chemical compatibility than the valves or fittings.

### CAUTION

The improper selection or use of components or systems described herein can cause personal injury or property damage.

The system designer and user are solely responsible for the selection of products suitable for the specific requirements of the application, as well as proper installation, operation, and maintenance of these products.

Compatibility with hazardous fluid streams, environmental conditions, and mechanical requirements are the responsibility of the user.

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 alytic  
 +61(0)3 9762 2034  
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purchase price of the nonconforming product where, within the warranty period and in accordance with Valco's return procedures: (1) Valco has received Buyer's request for an Return Merchandise Authorization ("RMA") for the return of nonconforming product; (2) where Valco has issued Buyer an RMA; (3) Buyer has returned the nonconforming product to Valco in accordance with Valco 's return procedures; and (4) Valco has determined that the product is nonconforming and such nonconformity is not the result of improper installation, repair or other misuse.

#### **Disclaimer of Warranties**

THE FOREGOING WARRANTY AND REMEDIES ARE EXCLUSIVE AND VALCO HEREBY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED, IMPLIED OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. VALCO DOES NOT ASSUME OR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH ITS PRODUCTS. IN NO EVENT SHALL VALCO BE LIABLE TO BUYER, OR ANY SUBSEQUENT PURCHASER OF ANY PRODUCTS FURNISHED TO BUYER, INCLUDING THE ULTIMATE END-USER, IN CONTRACT, TORT, WARRANTY, STRICT LIABILITY, OR OTHERWISE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO, THE COST OF LABOR, REQUALIFICATION, DELAY, LOSS OF PROFITS OR GOOD WILL, EVEN IF THE EXCLUSIVE REMEDIES PROVIDED HEREIN FAIL OF THEIR ESSENTIAL PURPOSE AND EVEN IF VALCO IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

#### **Buyer's Exclusive Remedy**

THE EXCLUSIVE REMEDY OF BUYER IS THE REPAIR OR REPLACEMENT OF NONCONFORMING GOODS OR THE ISSUANCE TO BUYER OF CREDIT OR REFUND FOR THE PURCHASE PRICE OF THE NONCONFORMING GOODS, AT VALCO'S DISCRETION. IN THE EVENT OF BREACH OR REPUDIATION OF THE CONTRACT BY VALCO, BUYER SHALL NOT BE ENTITLED TO ANY CONSEQUENTIAL OR EXEMPLARY DAMAGES. IT IS THE INTENT OF THE PARTIES THAT THIS REMEDY PROVIDED HEREIN IS THE SOLE REMEDY AVAILABLE TO BUYER AND IS NOT CUMULATIVE OF THOSE PROVIDED BY COMMON LAW OR STATUTE. IN NO EVENT SHALL VALCO BE LIABLE TO BUYER, ITS AGENTS, OFFICERS, EMPLOYEES, SUBSIDIARIES OR AFFILIATES FOR MORE THAN THE PURCHASE PRICE OF THE GOODS SOLD BY VALCO TO BUYER. BUYER UNDERSTANDS AND ACKNOWLEDGES THAT VALCO RELIED ON THIS PROVISION IN PRICING ITS GOODS.

#### **Applicable Laws and Forum Selection**

All sales shall be governed and construed by the laws of the State of Texas in the United States of America, except that conflict of law rules shall be disregarded. Furthermore, the exclusive venue for resolving any dispute between the parties shall lie in Houston, Harris County, Texas.

#### **Severability**

The unenforceability or invalidity of any provision of this Valco's Standard Conditions of Sale shall not affect the enforceability or validity of any other provision herein, and the invalidity or unenforceability of any provision to any specific person or circumstance shall not affect the enforceability or validity of such provision as it may apply to other persons or circumstances.

#### **No Offset**

All payments due by Buyer to Valco under any sale between the parties are to be made by Buyer without offset or other reduction.

#### **Survival of Terms**

Except as otherwise contemplated by this Valco's Standard Conditions of Sale, all covenants and agreements of the parties contained herein shall survive the delivery and acceptance date.

**Cancellation**

Buyer shall not have the right of cancellation, except upon the written consent of Valco. When cancellation is accepted, Valco reserves the right to make a cancellation charge of up to 25% of the price for said product.

**Costs**

Buyer hereby agrees to reimburse Valco for all costs and expenses (including reasonable attorney's fees) incurred by Valco in connection with any legal proceeding commenced hereunder or otherwise arising out of Valco's Standard Conditions of Sale for recovery of goods sold or for collection of monies due hereunder.

**Waiver**

Valco's forbearance or failure to exercise, at any time, any of its rights and/or remedies herein shall not be deemed a subsequent waiver thereof nor a waiver of any other right or remedy contained herein.

**Headings**

The headings herein are for convenience only and do not define or limit the provisions hereof.

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**Compliance with Laws**

Buyer shall comply with all applicable country, state and local laws and regulations including but not limited to laws and regulations governing the manufacture, processing, distribution, transportation, labeling, handling, discharge, treatment, storage, installation, disposal, recycling, reclamation, use, exporting, importing or other activity relating to the goods sold hereunder. Buyer shall have the sole responsibility to obtain any transportation, storage, use or other licenses required under applicable laws and regulations.

**Export**

The goods sold hereunder may require a valid export license issued by the U.S. Department of Commerce prior to the export of such property from the United States. As a condition of sale, Buyer will abide by all U.S. Export Administration regulations, including compliance requirements to obtain a valid export license whenever applicable. Buyer shall have the sole responsibility to obtain any and all export or import licenses or permits required under applicable laws and regulations.

**MORE INFORMATION**

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