



C0392

INDEX

PEEK Tubing	5
PEEKclad-FST™	8
Premium Grade Stainless Steel Tubing	10
Stainless Steel Tubing	11
Electroformed Nickel Tubing	12
Pre-Cut Premium Stainless Steel Tubing	13
PTFE & PTFE-Like Tubing	14
No-Ox Tubing	18
Thermo-Formed Polymeric Tubing	19
Knitted PTFE Reaction Coils	20
PEEK Tubing Elbows	21
Tubing Clip – The LC Tubing Organizer	21
Clean-Cut Polymer Tubing Cutter	22
Guillotine Polymer Tubing Cutter	22
Stainless Steel Tubing Cutter	23
Stainless Steel Tubing Pliers	23
Easy-Flange & Easy-Flange Combi-Kits	24

Disclaimer:

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

PEEK Tubing

- 1/32", 1/16", 1/8" and 1/4" OD Tubing Available
- Premium Grade Tubing with Tighter Tolerances
- Easy to Cut
- Biocompatible

PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting. The dense polymer structure of VICI Jour PEEK tubing eliminates the permeability to organic solvents that causes other polymer tubing, such as ETFE to "sweat".

For easy identification of ID VICI Jour tubing is color coded. VICI recommends "Striped Color-Coded" tubing. It is manufactured of virgin, natural PEEK and therefore ensures maximum chemical resistance and biocompatibility. The color dye is applied only to the outer surface and thus not in contact with the fluid stream. "Solid Color-Coded" tubing however is made of pre-dyed raw material.

Remember PEEK tubing 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. By far the most outstanding property is its excellent burst pressure.

PEEK is compatible with almost any of the solvents commonly used in HPLC. Dichloromethane, THF and DMSO may cause swelling in PEEK. Concentrated nitric and sulphuric acid will attack PEEK.

Premium Grade PEEK Tubing – Dash-Striped Color-Coded

The new VICI Jour dash-striped premium grade PEEK tubing is the best choice for chromatography applications in which tube volume is of importance. The tighter tolerance of +/- 0.025 mm ensures a more consistent internal volume of the transfer lines.



Premium Grade PEEK Tubing – Dash-Striped Color-Coded

Part No.	OD	ID (mm)	Qty/pkg	Color	bar*	psi*
JR-TP-5998-M3	1/16"	0.064	3 m	Pink	435	6300
JR-TP-5998-M10	1/16"	0.064	10 m	Pink	435	6300
JR-TP-5999-M3	1/16"	0.13	3 m	Red	420	6100
JR-TP-5999-M10	1/16"	0.13	10 m	Red	420	6100
JR-TP-6000-M3	1/16"	0.18	3 m	Yellow	400	5800
JR-TP-6000-M10	1/16"	0.18	10 m	Yellow	400	5800
JR-TP-6001-M3	1/16"	0.25	3 m	Blue	386	5600
JR-TP-6001-M10	1/16"	0.25	10 m	Blue	386	5600

* = Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)
Other dimensions on request

SPECS

Material
PEEK

Dimensions
OD and ID, see chart

Tolerances
Premium Grade Tubing
OD: +/- 0.025 mm (.001")
ID: +/- 0.025 mm (.001")

Pressure rating
See chart

Chemical resistance
See chart on page 106

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

Spares & Tools
A clean burr-free perpendicular cut can be achieved with the VICI Jour Clean-Cut tubing cutter JR-797 see page 22

To bend PEEK tubing at the optimum radius, use our Tubing Elbows on page 21

We recommend PEEK fingertight and flangeless fittings for your applications
Fingertights see pages 27–30
Flangeless see pages 49–53

VICI Jour Sample Loops for analytical applications are made of Premium Grade Tubing (see pages 96–100)

Length Conversions

- 0.064 mm ≈ .0025"
- 0.13 mm ≈ .005"
- 0.18 mm ≈ .007"
- 0.25 mm ≈ .010"

PEEK Tubing

SPECS

Material
PEEK

Dimensions
OD and ID, see chart

Tolerances
For OD 1/16" PEEK tubing
OD: +/- 0.05 mm (.002")
ID: +/- 0.05 mm (.002")

For OD 1/8" PEEK tubing
OD: +/- 0.10 mm (.004")
ID: +/- 0.10 mm (.004")

Pressure rating
See chart

Chemical resistance
See chart on page 106

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

Spares & Tools

A clean burr-free perpendicular cut can be achieved with the VICI Jour Clean-Cut tubing cutter JR 797 see page 22

To bend PEEK tubing at the optimum radius, use our Tubing Elbows on page 21

We recommend PEEK fingertight and flangeless fittings for your applications
Fingertights see pages 27–30
Flangeless see pages 49–53

VICI Jour Sample Loops for analytical applications are made of Premium Grade Tubing (see pages 96–100)

Length Conversions

0.13 mm ≈ .005"
0.18 mm ≈ .007"
0.25 mm ≈ .010"
0.50 mm ≈ .020"
0.75 mm ≈ .030"
1.00 mm ≈ .039"
1.40 mm ≈ .055"

PEEK Tubing – Striped Color-Coded

Part No.	OD	ID (mm)	Qty/pkg	Color	bar*	psi*
JR-T-5999-M3	1/16"	0.13	3 m	Red	420	6100
JR-T-5999-M10	1/16"	0.13	10 m	Red	420	6100
JR-T-6000-M3	1/16"	0.18	3 m	Yellow	400	5800
JR-T-6000-M10	1/16"	0.18	10 m	Yellow	400	5800
JR-T-6001-M3	1/16"	0.25	3 m	Blue	386	5600
JR-T-6001-M10	1/16"	0.25	10 m	Blue	386	5600
JR-T-6002-M3	1/16"	0.50	3 m	Orange	350	4500
JR-T-6002-M10	1/16"	0.50	10 m	Orange	350	4500
JR-T-6003-M3	1/16"	0.75	3 m	Green	240	3500
JR-T-6003-M10	1/16"	0.75	10 m	Green	240	3500
JR-T-60031-M3	1/16"	1.00	3 m	Grey	165	2400
JR-T-60031-M10	1/16"	1.00	10 m	Grey	165	2400
JR-T-60032-M3	1/16"	1.40	3 m	Black	52	750
JR-T-60032-M10	1/16"	1.40	10 m	Black	52	750

* = Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)
Other pack sizes and tubing lengths are available on request.
Please contact your local distributor or VICI directly.

PEEK Tubing – Solid Color-Coded

Part No.	OD	ID (mm)	Qty/pkg	Color	bar*	psi*
JR-T-6007-M3	1/16"	0.13	3 m	Red	420	6100
JR-T-6007-M10	1/16"	0.13	10 m	Red	420	6100
JR-T-6008-M3	1/16"	0.18	3 m	Yellow	400	5800
JR-T-6008-M10	1/16"	0.18	10 m	Yellow	400	5800
JR-T-6009-M3	1/16"	0.25	3 m	Blue	386	5600
JR-T-6009-M10	1/16"	0.25	10 m	Blue	386	5600
JR-T-6010-M3	1/16"	0.50	3 m	Orange	350	4500
JR-T-6010-M10	1/16"	0.50	10 m	Orange	350	4500
JR-T-6011-M3	1/16"	0.75	3 m	Green	240	3500
JR-T-6011-M10	1/16"	0.75	10 m	Green	240	3500

* = Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)
Other pack sizes and tubing lengths are available on request.
Please contact your local distributor or VICI directly.

PEEK Tubing – Natural

Part No.	OD	ID (mm)	Qty/pkg	bar*	psi*
JR-T-6060-M3	0.36 mm	0.075	3 m	358	5200
JR-T-6060-M10	0.36 mm	0.075	10 m	358	5200
JR-T-5993-M3	1/32"	0.13	3 m	379	5500
JR-T-5993-M10	1/32"	0.13	10 m	379	5500
JR-T-5994-M3	1/32"	0.18	3 m	351	5100
JR-T-5994-M10	1/32"	0.18	10 m	351	5100
JR-T-5995-M3	1/32"	0.25	3 m	310	4500
JR-T-5995-M10	1/32"	0.25	10 m	310	4500
JR-T-60041-M3	1/8"	0.75	3 m	345	5000
JR-T-60041-M10	1/8"	0.75	10 m	345	5000
JR-T-6004-M3	1/8"	1.59	3 m	224	3250
JR-T-6004-M10	1/8"	1.59	10 m	224	3250
JR-T-60042-M3	1/8"	2.00	3 m	165	2400
JR-T-60042-M10	1/8"	2.00	10 m	165	2400
JR-T-6006	1/4"	3.17	per m	227	3300

* = Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)
Other pack sizes and tubing lengths are available on request.
Please contact your local distributor or VICI directly.



C0489

SPECS

Material
PEEK

Dimensions
OD and ID, see chart

Tolerances
For OD 1/16" PEEK tubing
OD: +/- 0.05 mm (.002")
ID: +/- 0.05 mm (.002")

For OD 1/8" PEEK tubing
OD: +/- 0.10 mm (.004")
ID: +/- 0.10 mm (.004")

Pressure rating
See chart

Chemical resistance
See chart on page 106

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

Spares & Tools
A clean burr-free perpendicular cut can be achieved with the VICI Jour Clean-Cut tubing cutter JR-797 see page 22

To bend PEEK tubing at the optimum radius, use our Tubing Elbows on page 21

We recommend PEEK fingertight and flangeless fittings for your applications
Fingertights see pages 27–30
Flangeless see pages 49–53

VICI Jour Sample Loops for analytical applications are made of Premium Grade Tubing (see pages 96–100)

Length Conversions

0.064 mm ≈ .0025"
0.075 mm ≈ .0030"
0.13 mm ≈ .005"
0.18 mm ≈ .007"
0.25 mm ≈ .010"
0.36 mm ≈ .014"
0.75 mm ≈ .030"
1.59 mm ≈ .062"
2.00 mm ≈ .079"
3.17 mm ≈ .125"

SPECS

Material

PEEK, Fused Silica

Dimensions

See chart

Tolerances

For ID 50 μm +/- 3 μm,

For IDs 100–150 μm +/- 5 μm

Pressure Rating

586 bar (8500 psi)

Spares & Tools

PEEK fingertights 1/16"

see pages 28–30

Nanovalome® fittings 1/32"

see pages 38–39

We recommend PEEKclad-FST™ together with our Nanovalome® fittings on pages 38–39

Tech Tip

To ensure Zero Dead Volume connections, special cutting techniques and equipment are required. For this reason PEEKclad-FST™ is available only in a variety of pre-cut lengths.

PEEKclad-FST™ – PEEK-Clad Fused Silica Tubing

- For Zero Dead Volume Connections
- Perfect for Capillary LC
- Inert Smooth Flow Path
- Available with 1/32" and 1/16" OD and 25 up to 300 μm ID

This product combines the inert and smooth inner surface of fused silica with very precise IDs, and the flexibility and easy handling of PEEK. Due to its mechanical strength it can be used both with polymeric or metal ferrules.

The ends are cut perfectly square with sophisticated equipment and polished for Zero Dead Volume connections in capillary LC. In contrast to a polymer sleeve/fused silica connection there is no possibility of liquid filling the gap between the sleeve and the tubing.

All this may result in a lower carry over or cross contamination between samples which can lead to improved reproducibility. The smooth inner wall surface

gives lower band broadening and therefore higher efficiency and resolution.

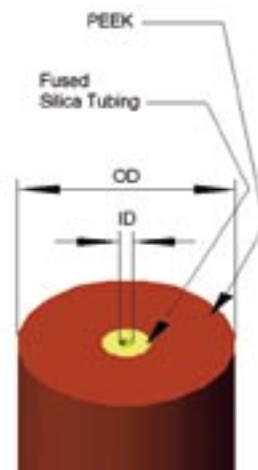
PEEKclad-FST™ is compatible with most organic solvents and strong acids (pH 0–10) but not compatible with hydrofluoric acid.

In fitting details the PEEK outside surface may be wetted and thus the chemical compatibility of PEEK has to be considered.

PEEK coated fused silica tubing can be manufactured in different proprietary processes. Trade names are PEEKclad-FST™ by Valco International Co. Inc. and VICI International and PEEKsil™ by SGE International Pty. Ltd.

PEEKclad-FST™ – PEEK-Clad Fused Silica Tubing

Part No.	OD	ID	Length/mm	Color	Qty/pkg
JR-TS-3215	1/32"	25 μm	50	Orange	2
JR-TS-32110	1/32"	25 μm	100	Orange	2
JR-TS-32115	1/32"	25 μm	150	Orange	2
JR-TS-32125	1/32"	25 μm	250	Orange	2
JR-TS-32150	1/32"	25 μm	500	Orange	2
JR-TS-3225	1/32"	50 μm	50	Natural	2
JR-TS-32210	1/32"	50 μm	100	Natural	2
JR-TS-32215	1/32"	50 μm	150	Natural	2
JR-TS-32225	1/32"	50 μm	250	Natural	2
JR-TS-32250	1/32"	50 μm	500	Natural	2
JR-TS-3235	1/32"	75 μm	50	Black	2
JR-TS-32310	1/32"	75 μm	100	Black	2
JR-TS-32315	1/32"	75 μm	150	Black	2
JR-TS-32325	1/32"	75 μm	250	Black	2
JR-TS-32350	1/32"	75 μm	500	Black	2
JR-TS-3245	1/32"	100 μm	50	Red	2
JR-TS-32410	1/32"	100 μm	100	Red	2
JR-TS-32415	1/32"	100 μm	150	Red	2
JR-TS-32425	1/32"	100 μm	250	Red	2
JR-TS-32450	1/32"	100 μm	500	Red	2
JR-TS-3265	1/32"	150 μm	50	Purple	2
JR-TS-32610	1/32"	150 μm	100	Purple	2
JR-TS-32615	1/32"	150 μm	150	Purple	2
JR-TS-32625	1/32"	150 μm	250	Purple	2
JR-TS-32650	1/32"	150 μm	500	Purple	2



Part No.	OD	ID	Length/mm	Color	Qty/pkg
JR-TS-1615	1/16"	25 µm	50	Orange	5
JR-TS-16110	1/16"	25 µm	100	Orange	5
JR-TS-16115	1/16"	25 µm	150	Orange	5
JR-TS-16120	1/16"	25 µm	200	Orange	5
JR-TS-16150	1/16"	25 µm	500	Orange	2
JR-TS-1625	1/16"	50 µm	50	Natural	5
JR-TS-16210	1/16"	50 µm	100	Natural	5
JR-TS-16215	1/16"	50 µm	150	Natural	5
JR-TS-16220	1/16"	50 µm	200	Natural	5
JR-TS-16250	1/16"	50 µm	500	Natural	2
JR-TS-1635	1/16"	75 µm	50	Black	5
JR-TS-16310	1/16"	75 µm	100	Black	5
JR-TS-16315	1/16"	75 µm	150	Black	5
JR-TS-16320	1/16"	75 µm	200	Black	5
JR-TS-16350	1/16"	75 µm	500	Black	2
JR-TS-1645	1/16"	100 µm	50	Red	5
JR-TS-16410	1/16"	100 µm	100	Red	5
JR-TS-16415	1/16"	100 µm	150	Red	5
JR-TS-16420	1/16"	100 µm	200	Red	5
JR-TS-16450	1/16"	100 µm	500	Red	2
JR-TS-1665	1/16"	150 µm	50	Purple	5
JR-TS-16610	1/16"	150 µm	100	Purple	5
JR-TS-16615	1/16"	150 µm	150	Purple	5
JR-TS-16620	1/16"	150 µm	200	Purple	5
JR-TS-16650	1/16"	150 µm	500	Purple	2

Other inner diameters on request.

SPECS

Material

PEEK, Fused Silica

Dimensions

See chart

Tolerances

For ID 50 µm +/- 3 µm,
For IDs 100–150 µm +/- 5 µm

Pressure Rating

586 bar (8500 psi)

Spares & Tools

PEEK fingertights 1/16"
see pages 28–30
Nanovalome® fittings 1/32"
see pages 38–39

We recommend PEEKclad-FST™ together with our Nanovalome® fittings on pages 38–39

Tech Tip

To ensure Zero Dead Volume connections, special cutting techniques and equipment are required. For this reason PEEKclad-FST™ is available only in a variety of pre-cut lengths.

Premium Grade Stainless Steel Tubing

SPECS

Material

SS316
seamless

Dimensions

See chart

Tolerances

OD: +/- 0.05 mm (.002")

ID: +/- 0.025 mm (.001")

Pressure rating

For 1/16" OD tubing:
varies with ID, min. 365 bar
(5300 psi)

For 1/8" OD tubing:
varies with ID, min. 315 bar
(4600 psi)

Tech Tip

We recommend Pre-Cut
Stainless Steel Tubing for Zero-
Dead Volume Connections
(see page 13)

Note

ID dimensions in mm are

Length Conversions

0.13 mm ≈ .005"
0.18 mm ≈ .007"
0.25 mm ≈ .010"
0.38 mm ≈ .015"
0.50 mm ≈ .020"
0.75 mm ≈ .030"
1.00 mm ≈ .039"
1.52mm ≈ .060"
1.78 mm ≈ .070"
2.16 mm ≈ .085"

Premium Grade Stainless Steel Tubing

- Premium Grade – Seamless
- Variety of Sizes for HPLC and GC Applications
- Smooth Internal Surface
- Soft Annealed OD for Easy Ferrule Connections

Premium Grade Stainless Steel Tubing

Part No.	OD	ID (mm)	Qty/pkg
JR-TSS.505-M3	1/32"	0.13	3 m
JR-TSS.505-M10	1/32"	0.13	10 m
JR-TSS.507-M3	1/32"	0.18	3 m
JR-TSS.507-M10	1/32"	0.18	10 m
JR-TSS.510-M3	1/32"	0.25	3 m
JR-TSS.510-M10	1/32"	0.25	10 m
JR-TSS.520-M3	1/32"	0.50	3 m
JR-TSS.520-M10	1/32"	0.50	10 m
JR-TSS105-M3	1/16"	0.13	3 m
JR-TSS105-M10	1/16"	0.13	10 m
JR-TSS110-M3	1/16"	0.25	3 m
JR-TSS110-M10	1/16"	0.25	10 m
JR-TSS115-M3	1/16"	0.38	3 m
JR-TSS115-M10	1/16"	0.38	10 m
JR-TSS120-M3	1/16"	0.50	3 m
JR-TSS120-M10	1/16"	0.50	10 m
JR-TSS130-M3	1/16"	0.75	3 m
JR-TSS130-M10	1/16"	0.75	10 m
JR-TSS140-M3	1/16"	1.00	3 m
JR-TSS140-M10	1/16"	1.00	10 m
JR-TSS230-M3	1/8"	0.75	3 m
JR-TSS230-M10	1/8"	0.75	10 m
JR-TSS240-M3	1/8"	1.00	3 m
JR-TSS240-M10	1/8"	1.00	10 m
JR-TSS260-M3	1/8"	1.52	3 m
JR-TSS260-M10	1/8"	1.52	10 m
JR-TSS267-M3	1/8"	1.78	3 m
JR-TSS267-M10	1/8"	1.78	10 m
JR-TSS285-M3	1/8"	2.16	3 m
JR-TSS285-M10	1/8"	2.16	10 m

Stainless Steel Tubing

- Variety of Sizes for HPLC and GC Applications
- Smooth Internal Surface
- Soft Annealed OD for Easy Ferrule Connections

Stainless Steel Tubing

Part No.	OD	ID (mm)	Qty/pkg
JR-T-625-04-M3	1/16"	0.13	3 m
JR-T-625-04-M10	1/16"	0.13	10 m
JR-T-625-05-M3	1/16"	0.18	3 m
JR-T-625-05-M10	1/16"	0.18	10 m
JR-T-625-10-M3	1/16"	0.25	3 m
JR-T-625-10-M10	1/16"	0.25	10 m
JR-T-625-20-M3	1/16"	0.50	3 m
JR-T-625-20-M10	1/16"	0.50	10 m
JR-T-625-30-M3	1/16"	0.75	3 m
JR-T-625-30-M10	1/16"	0.75	10 m
JR-T-625-40-M3	1/16"	1.00	3 m
JR-T-625-40-M10	1/16"	1.00	10 m
JR-T-626-00-M3	1/8"	2.10	3 m
JR-T-626-00-M10	1/8"	2.10	10 m
JR-T-628-00	1/4"	4.65	per m



SPECS

Material

SS316
welded under inert gas

Dimensions

See chart

Tolerances

OD: +/- 0.05 mm (.002")
ID: +/- 0.05 mm (.002")

Pressure rating

For 1/16" and 1/8" OD tubing:
varies with ID, min. 315 bar
(4600 psi)

Tech Tip

We recommend Pre-Cut
Stainless Steel Tubing for Zero-
Dead Volume Connections
(see page 13)

Length Conversions

0.13 mm ≈ .005"
0.18 mm ≈ .007"
0.25 mm ≈ .010"
0.50 mm ≈ .020"
0.75 mm ≈ .030"
1.00 mm ≈ .039"
2.10 mm ≈ .083"
4.65 mm ≈ .183"

SPECS

Material

Electroformed Nickel (EFNI)

Dimensions

See chart

Tolerances

OD: +/- 0.025 mm

ID: +/- 0.025 mm

Note

ID dimensions in mm are converted from nominal inch dimensions

Electroformed Nickel Tubing

- Variety of Sizes for HPLC and GC Applications
- Extremely Smooth Internal Surface
- Ideal for Transfer Lines, Loops and Columns

This small bore tubing is made by electroplating nickel over a diamond drawn mandrel in a continuous process. When the mandrel is removed from the tubing, what's left is in an extremely inert and smooth interior surface – an incredible 1–2 microinch finish. The mirrorlike interior means that EFNI can be used instead of fused silica glass-lined tubing, or silica-lined tubing.

The highly inactive, non-adsorptive surface makes EFNI tubing ideal for transfer lines, sample loops, or columns, or any application which requires minimum carryover potential.

The ID of commercial drawn tubing is typically +/- 10% of the nominal size. This variance added to the voids, pits, and striations in the wall leads to a large uncertainty in calculated volumes. Our EFNI tubing is held to +/- 0.025 mm of the nominal size, and its microsmooth surface means that the absolute volume can be calculated very accurately.

Electroformed nickel tubing is electrolytically cut, electropolished, and steam cleaned, ready for use.

Electroformed Nickel Tubing

Part No.	OD	ID (mm)	Qty/pkg
JR-TEFNI.502-M1	1/32"	0.05	1 m
JR-TEFNI.504-M1	1/32"	0.10	1 m
JR-TEFNI.505-M1	1/32"	0.13	1 m
JR-TEFNI.510-M3	1/32"	0.25	3 m
JR-TEFNI.510-M10	1/32"	0.25	10 m
JR-TEFNI.515-M3	1/32"	0.38	3 m
JR-TEFNI.515-M10	1/32"	0.38	10 m
JR-TEFNI.520-M3	1/32"	0.50	3 m
JR-TEFNI.520-M10	1/32"	0.50	10 m
JR-TEFNI130-M3	1/16"	0.75	3 m
JR-TEFNI130-M10	1/16"	0.75	10 m
JR-TEFNI140-M3	1/16"	1.00	3 m
JR-TEFNI140-M10	1/16"	1.00	10 m

Length Conversions

0.05 mm ≈ .0020"

0.10 mm ≈ .0040"

0.13 mm ≈ .005"

0.25 mm ≈ .010"

0.38 mm ≈ .015"

0.50 mm ≈ .020"

0.75 mm ≈ .030"

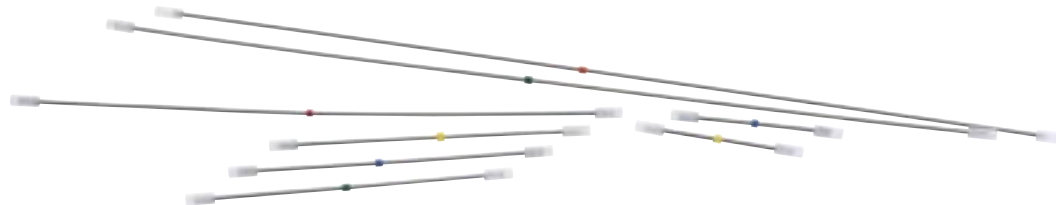
1.00 mm ≈ .040"

Pre-Cut Premium Stainless Steel Tubing

- Zero Dead Volume Connections
- Ready to Use
- Cleaned
- Soft Annealed OD for Easy Ferrule Connections

VICI offers pre-cut stainless steel tubing in lengths most commonly required in HPLC systems. These tubes are cut to square, burr-free ends for Zero Dead Volume connections.

VICI pre-cut tubing is electrolytically cut and specially steam cleaned to remove both organic and inorganic contaminants. Softener-free Polyethylene caps are used to avoid contamination of the tubing.



Pre-cut Stainless Steel Tubing

Part No.	OD	ID (mm)	Color	Length (mm)
JR-T-97005	1/16"	0.13	Red	50
JR-T-97010	1/16"	0.13	Red	100
JR-T-97015	1/16"	0.13	Red	200
JR-T-97020	1/16"	0.13	Red	300
JR-T-97025	1/16"	0.18	Yellow	50
JR-T-97030	1/16"	0.18	Yellow	100
JR-T-97035	1/16"	0.18	Yellow	200
JR-T-97040	1/16"	0.18	Yellow	300
JR-T-97045	1/16"	0.25	Blue	50
JR-T-97055	1/16"	0.25	Blue	100
JR-T-97060	1/16"	0.25	Blue	200
JR-T-97065	1/16"	0.25	Blue	300
JR-T-97075	1/16"	0.50	Orange	50
JR-T-97080	1/16"	0.50	Orange	100
JR-T-97085	1/16"	0.50	Orange	200
JR-T-97090	1/16"	0.50	Orange	300
JR-T-97095	1/16"	0.75	Green	50
JR-T-97100	1/16"	0.75	Green	100
JR-T-97105	1/16"	0.75	Green	200
JR-T-97110	1/16"	0.75	Green	300

SPECS

Material

Tubing: SS316L,
seamless
Caps: Polyethylene

Dimensions

OD: 1/16", ID see chart

Tolerances

OD: +/- 0.05 mm (.002")
ID: +/- 0.025 mm (.001")

Pressure rating

For 1/16" OD tubing:
varies with ID, min. 365 bar
(5300 psi)

For 1/8" OD tubing:
varies with ID, min. 315 bar
(4600 psi)

Spares & Tools

We recommend our Valco
Stainless Steel Fittings on
page 40.

Length Conversions

0.13 mm ≈ .005"
0.18 mm ≈ .007"
0.25 mm ≈ .010"
0.50 mm ≈ .020"
0.75 mm ≈ .030"

PTFE & PTFE-Like Tubing

- Low and Mid Pressure Applications
- Biocompatible

PTFE Tubing

PTFE tubing (PolyTetraFluoroEthylene) 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).

For easy identification of the ID and to differentiate the transfer lines, PTFE tubing is available in a color-coded version.

Black PTFE Tubing

PTFE is too translucent and for certain light sensitive applications the use of black PTFE tubing is recommended. Typical applications:

- Light sensitive enzymatic reactions
- Luminescent reactions
- Connections to the flow-cell
- Radioactive HPLC

PFA Tubing

PFA tubing (PerFluoroAlkoxy) has excellent chemical stability and mechanical strength. Always use PFA instead of PTFE if gas permeability is an issue. 1/16" OD high purity tubing has a maximum pressure rating of up to 100 bar (1450 psi), while 1/8" OD maximum 72 bar (1050 psi).

FEP Tubing

FEP (FluorinatedEthylenePropylene) is chemically inert to most HPLC solvents and is recommended for low pressure applications. Typically 1/16" OD holds up to 117 bar (1700 psi) and 1/8" holds up to 70 bar (1000 psi). We recommend FEP for ion chromatography applications. Max. operating temperature for FEP is 80 °C.

ETFE Tubing

ETFE tubing has some outstanding properties which make it particularly suitable for HPLC since it has a higher burst pressure when compared to PTFE. The most common dimension is 1/16" x 0.25 mm which will withstand up to 186 bar (2700 psi) using water as mobile phase. It is important, however, to note that when using ETFE with organic solvents it may swell and will reduce the max. pressure to 70 bar (1000 psi). It is the ideal polymer for applications with chloride salts, which typically corrode stainless steel.



PTFE Tubing – Natural

Part No.	OD	ID (mm)	Qty/pkg	bar*	psi*
JR-T-6805-M3	1/16"	0.18	3 m	62	900
JR-T-6805-M10	1/16"	0.18	10 m	62	900
JR-T-6805-M25	1/16"	0.18	25 m	62	900
JR-T-4011-M3	1/16"	0.25	3 m	55	800
JR-T-4011-M10	1/16"	0.25	10 m	55	800
JR-T-4011-M25	1/16"	0.25	25 m	55	800
JR-T-4183-M3	1/16"	0.50	3 m	50	700
JR-T-4183-M10	1/16"	0.50	10 m	50	700
JR-T-4183-M25	1/16"	0.50	25 m	50	700
JR-T-4036-M3	1/16"	0.75	3 m	37	550
JR-T-4036-M10	1/16"	0.75	10 m	37	550
JR-T-4036-M25	1/16"	0.75	25 m	37	550
JR-T-6807-M3	1/16"	1.00	3 m	25	350
JR-T-6807-M10	1/16"	1.00	10 m	25	350
JR-T-6807-M25	1/16"	1.00	25 m	25	350
JR-T-6800-M3	1/8"	1.59	3 m	35	500
JR-T-6800-M10	1/8"	1.59	10 m	35	500
JR-T-6800-M25	1/8"	1.59	25 m	35	500
JR-T-4037-M3	1/8"	2.40	3 m	18	250
JR-T-4037-M10	1/8"	2.40	10 m	18	250
JR-T-4037-M25	1/8"	2.40	25 m	18	250
JR-T-6801-M3	2.00 mm	1.70	3 m	10	150
JR-T-6801-M10	2.00 mm	1.70	10 m	10	150
JR-T-6801-M25	2.00 mm	1.70	25 m	10	150
JR-T-4039	4.00 mm	3.00	per m	17	250
JR-T-4041	4.76 mm	3.76	per m	14	200
JR-T-6810	1/4"	4.75	per m	17	250

C0583



SPECS

Material

PTFE

Dimensions

See chart

Tolerances

For OD 1/16" tubing
 OD: +/- 0.05 mm (.002")
 ID: +/- 0.05 mm (.002")

For OD 1/8" tubing

OD: +/- 0.10 mm (.004")
 ID: +/- 0.10 mm (.004")

Pressure rating

See chart on page 106

Chemical resistance

See chart on page 22

Special Info

Low pressure applications:
 Check carefully for gas permeability

Spares & Tools

The VICI Jour Clean-Cut tubing cutter gives you burr-free perpendicular cuts JR-797 page 21

We recommend PEEK fingertight and flangeless fittings for your applications
 Fingertights pages 27–30
 Flangeless pages 49–53

Length Conversions

0.18 mm	≈ .007"
0.25 mm	≈ .010"
0.50 mm	≈ .020"
0.75 mm	≈ .030"
1.00 mm	≈ .039"
1.59 mm	≈ .062"
2.00 mm	≈ .079"
2.40 mm	≈ .094"
3.00 mm	≈ .118"
3.76 mm	≈ .148"
4.00 mm	≈ .157"
4.75 mm	≈ .187"

PTFE & PTFE-Like Tubing

SPECS

Material
PTFE, PFA

Dimensions
See chart

Tolerances
For OD 1/16" tubing
OD: +/- 0.05 mm (.002")
ID: +/- 0.05 mm (.002")

For OD 1/8" tubing
OD: +/- 0.10 mm (.004")
ID: +/- 0.10 mm (.004")

Pressure rating
See chart on page 106

Chemical resistance
See chart on page 22

Special Info
Low pressure applications:
Check carefully for gas permeability

Spares & Tools
The VICI Jour Clean-Cut tubing cutter gives you burr-free perpendicular cuts JR-797 page 21

We recommend PEEK fingertight and flangeless fittings for your applications
Fingertights pages 27–30
Flangeless pages 49–53

Length Conversions

0.25 mm ≈ .010"
0.36 mm ≈ .014"
0.50 mm ≈ .020"
0.75 mm ≈ .030"
1.00 mm ≈ .039"
1.59 mm ≈ .062"

PTFE Tubing – Solid Color Coded

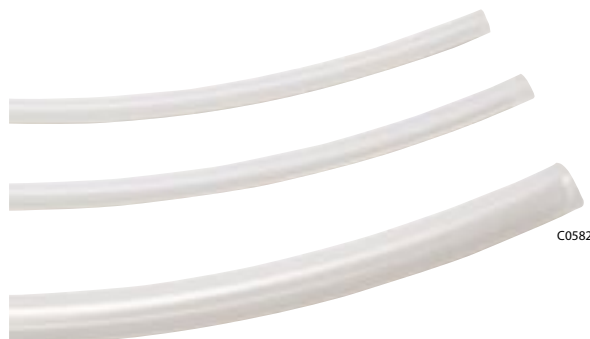
Part No.	OD	ID (mm)	Qty/pkg	Color	bar*	psi*
JR-T-4011C-M3	1/16"	0.25	3 m	Blue	55	800
JR-T-4011C-M10	1/16"	0.25	10 m	Blue	55	800
JR-T-4011C-M25	1/16"	0.25	25 m	Blue	55	800
JR-T-4183C-M3	1/16"	0.50	3 m	Orange	50	700
JR-T-4183C-M10	1/16"	0.50	10 m	Orange	50	700
JR-T-4183C-M25	1/16"	0.50	25 m	Orange	50	700
JR-T-4036C-M3	1/16"	0.75	3 m	Green	38	550
JR-T-4036C-M10	1/16"	0.75	10 m	Green	38	550
JR-T-4036C-M25	1/16"	0.75	25 m	Green	38	550
JR-T-6808-M3	1/16"	0.25	3 m	Black	55	800
JR-T-6808-M10	1/16"	0.25	10 m	Black	55	800
JR-T-6808-M25	1/16"	0.25	25 m	Black	55	800
JR-T-6811-M3	1/16"	0.50	3 m	Black	50	700
JR-T-6811-M10	1/16"	0.50	10 m	Black	50	700
JR-T-6811-M25	1/16"	0.50	25 m	Black	50	700

* = Recommended maximum permanent working pressure
Other pack sizes and tubing lengths are available on request. Please contact your local distributor or VICI directly.

PFA Tubing

Part No.	OD	ID (mm)	Qty/qty	bar*	psi*
JR-T-4001-M3	1/16"	0.50	3 m	100	1450
JR-T-4001-M10	1/16"	0.50	10 m	100	1450
JR-T-4001-M25	1/16"	0.50	25 m	100	1450
JR-T-4002-M3	1/16"	0.75	3 m	76	1100
JR-T-4002-M10	1/16"	0.75	10 m	76	1100
JR-T-4002-M25	1/16"	0.75	25 m	76	1100
JR-T-4007-M3	1/16"	1.00	3 m	55	800
JR-T-4007-M10	1/16"	1.00	10 m	55	800
JR-T-4007-M25	1/16"	1.00	25 m	55	800
JR-T-4003-M3	1/8"	1.59	3 m	72	1050
JR-T-4003-M10	1/8"	1.59	10 m	72	1050
JR-T-4003-M25	1/8"	1.59	25 m	72	1050

* = Recommended maximum permanent working pressure
Other pack sizes and tubing lengths are available on request. Please contact your local distributor or VICI directly.



FEP Tubing

Part No.	OD	ID (mm)	Qty/pkg	bar*	psi*
JR-T-6812-M3	1/16"	0.25	3 m	117	1700
JR-T-6812-M10	1/16"	0.25	10 m	117	1700
JR-T-6812-M25	1/16"	0.25	25 m	117	1700
JR-T-6802-M3	1/16"	0.50	3 m	96	1400
JR-T-6802-M10	1/16"	0.50	10 m	96	1400
JR-T-6802-M25	1/16"	0.50	25 m	96	1400
JR-T-6803-M3	1/16"	0.75	3 m	76	1100
JR-T-6803-M10	1/16"	0.75	10 m	76	1100
JR-T-6803-M25	1/16"	0.75	25 m	76	1100
JR-T-6806-M3	1/16"	1.00	3 m	52	750
JR-T-6806-M10	1/16"	1.00	10 m	52	750
JR-T-6806-M25	1/16"	1.00	25 m	52	750
JR-T-6804-M3	1/8"	1.59	3 m	69	1000
JR-T-6804-M10	1/8"	1.59	10 m	69	1000
JR-T-6804-M25	1/8"	1.59	25 m	69	1000
JR-T-6809	1/4"	4.35	per m	45	650

* = Recommended maximum permanent working pressure

Other pack sizes and tubing lengths are available on request. Please contact your local distributor or VICI directly.

ETFE Tubing

Part No.	OD	ID (mm)	Qty/pkg	bar*	psi*
JR-T-084-M3	1/32"	0.25	3 m	152	2200
JR-T-084-M10	1/32"	0.25	10 m	152	2200
JR-T-084-M25	1/32"	0.25	25 m	152	2200
JR-T-078-M3	1/16"	0.17	3 m	200	2900
JR-T-078-M10	1/16"	0.17	10 m	200	2900
JR-T-078-M25	1/16"	0.17	25 m	200	2900
JR-T-080-M3	1/16"	0.25	3 m	186	2700
JR-T-080-M10	1/16"	0.25	10 m	186	2700
JR-T-080-M25	1/16"	0.25	25 m	186	2700
JR-T-082-M3	1/16"	0.50	3 m	152	2200
JR-T-082-M10	1/16"	0.50	10 m	152	2200
JR-T-082-M25	1/16"	0.50	25 m ¹⁵²		2200
JR-T-083-M3	1/16"	0.75	3 m	117	1700
JR-T-083-M10	1/16"	0.75	10 m	117	1700
JR-T-083-M25	1/16"	0.75	25 m	117	1700
JR-T-085-M3	1/16"	1.00	3 m	83	1200
JR-T-085-M25	1/16"	1.00	10 m	83	1200
JR-T-085-M10	1/16"	1.00	25 m	83	1200
JR-T-086-M3	1/8"	1.59	3 m	110	1600
JR-T-086-M10	1/8"	1.59	10 m	110	1600
JR-T-086-M25	1/8"	1.59	25 m	110	1600

* = Recommended maximum permanent working pressure

Other pack sizes and tubing lengths are available on request. Please contact your local distributor or VICI directly.

SPECS

Material

FEP, ETFE

Dimensions

See chart

Tolerances

For OD 1/16" tubing

OD: +/- 0.05 mm (.002")

ID: +/- 0.05 mm (.002")

For OD 1/8" tubing

OD: +/- 0.10 mm (.004")

ID: +/- 0.10 mm (.004")

Pressure rating

See chart on page 106

Chemical resistance

See chart on page 22

Special Info

Low pressure applications:

Check carefully for gas

permeability

Spares & Tools

The VICI Jour Clean-Cut tubing

cutter gives you burr-free per-

pendicular cuts JR-797 page 21

We recommend PEEK finger-

tight and flangeless fittings

for your applications

Fingertights pages 27-30

Flangeless pages 49-53

Length Conversions

0.17 mm ≈ .0067"

0.25 mm ≈ .010"

0.50 mm ≈ .020"

0.75 mm ≈ .030"

1.00 mm ≈ .039"

1.59 mm ≈ .062"

4.35 mm ≈ .171"

No-Ox Tubing

SPECS

Material

Tubing: FEP + PVDF

Insert: KEL-F

Ferrule: ETFE

Fitting: PEEK

Dimensions

OD: 1/8"

ID: 1.65 mm

Tolerances

OD: +/- 0.05 mm (.002")

ID: +/- 0.05 mm (.002")

Pressure rating

Low pressure only

Special info

Use the special designed KEL-F insert (P/N JR-6141-10) to prevent solvent contact of the PVDF layer

Due to the limited chemical resistance of the outer PVDF layer, the No-Ox tubing should not be used inside a solvent reservoir.

No-Ox Tubing

- Prevents 'Re-gassing'
- Excellent Chemical Resistance

Most HPLC installations use PTFE tubing as internal low-pressure transfer lines. PTFE is easy to use and chemically extremely inert. But most PTFE and PTFE like polymers have micro pores which allow gases to diffuse freely.

Most solvent degassers are based on this effect. Gases dissolved in solvents are removed by diffusion in applying a vacuum on the outside of the tubing.

A contrary effect can be observed when degassed solvent will pass through PTFE tubing with standard air pressure on the outside. A 're-gassing' will be observed, gases will diffuse through the PTFE tubing back into the newly and costly degassed solvent.

We therefore created the No-Ox tubing. A FEP (PTFE like) tubing is coated on the outside with PVDF tubing. FEP has excellent chemical resistance, but micro

pores are present in the tubing wall. PVDF on the other hand is a very tight polymer, no micro pores can be observed, but it lacks chemical resistance.

Co-extruded No-Ox tubing will combine the two features of FEP and PVDF in the most positive manner, ensuring that degassed solvent will stay degassed until it reaches the HPLC pump. The PVDF-layer can easily be removed (using e.g. VICI Jour P/N 797 Clean-Cutter or a razor blade) and stripped from the FEP so only PTFE will be immersed by solvent i.e. in the solvent reservoir.

The No-Ox tubing is connected with a special KEL-F tubing insert (P/N 6141) to prevent solvent contact of the PVDF layer at the tubing end. The ferrule fits into the ID of the tubing and seals against the bottom of the port.



No-Ox Tubing

Part No.	Description	Qty/pkg
JR-T-6130-M3	Tubing, No-Ox 1/8" x 1.65 mm ID	3 m
JR-T-6130-M10	Tubing, No-Ox 1/8" x 1.65 mm ID	10 m
JR-6140	No-Ox fitting Kit	1
	contains: 2 pcs KEL-F inserts, 2 pcs PEEK nuts and 2 pcs ETFE Ferrules	

Spare Parts

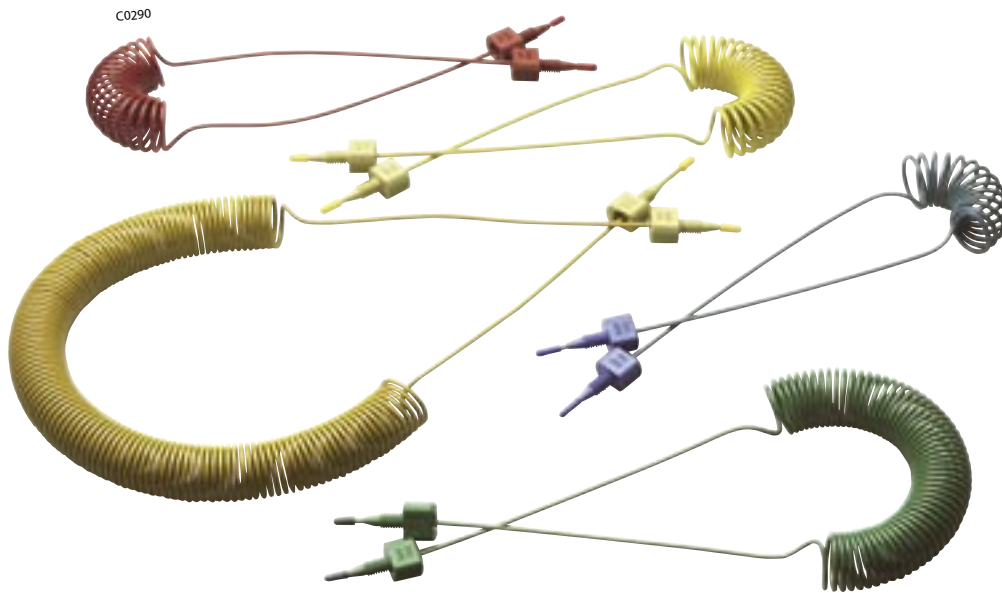
Part No.	Description	Qty/pkg
JR-6141-10	Insert, KEL-F, for No-Ox fitting	10
JR-55071-10	Nut, PPS, flangeless 1/8", 1/4"-28	10
JR-55083-10	Adapter, PP, fingertight sleeve, black	10
JR-051-10	Ferrule, ETFE, 1/8"	10

Thermo-Formed Polymeric Tubing

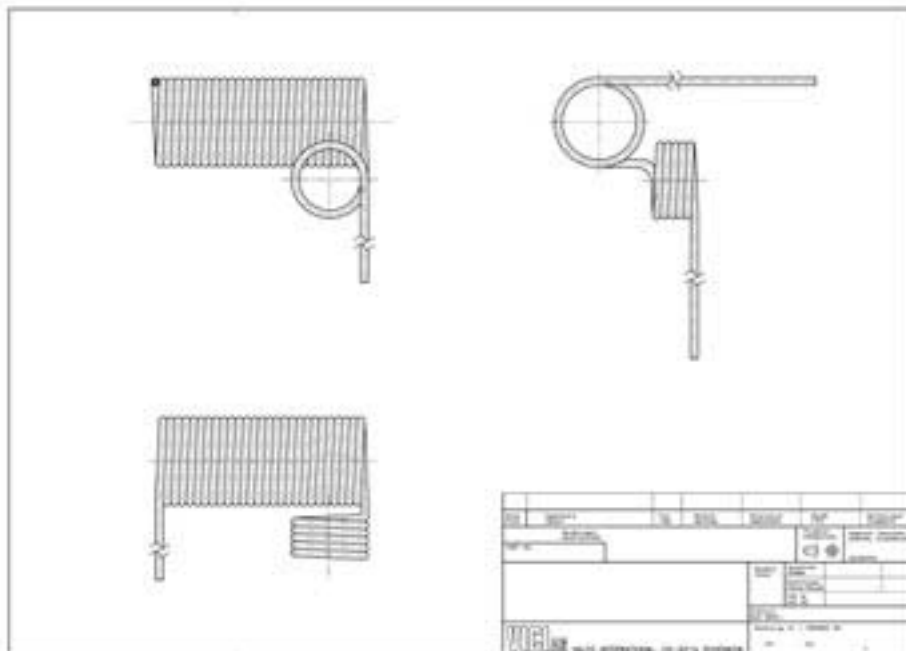
- Various Polymeric Tubing
- Telephone Cables and Customer Specific Items
- Axial Flexibility

VICI offers thermo-formed tubing in various of geometric shapes. Straight tubing, spirals or even more complex forms, just define the form and material on a drawing.

Contact you local distributor or VICI directly for a quotation.



PDF 810 000



Knitted PTFE Reaction coils

SPECS

Material
PTFE

Dimensions

OD: 1/16"
ID: see chart

Tolerances

OD: +/- 0.05 mm (.002")
ID: +/- 0.05 mm (.002")

Pressure rating

< 55 bar (< 800 psi)

Recommended Volumetric
Flow Rate:

ID	Lin. Velocity	Vol. Flow
mm	cm/s	ml/min
0.25	10	0.29
0.50	10	1.2
0.75	10	2.7

Special Info

Low pressure applications:
Check carefully for gas
permeability

Knitted PTFE Reaction Coils

- Tortuous Flow Path of Optimal Flow Dynamic Design made from Inert PTFE
- Minimized Axial Dispersion combined with Efficient Radial Mixing
- Available in Different Lengths and IDs

Preserved chromatographic peak shape

The Knitted PTFE Reaction coils (KRC) are made from tubing which has been knitted into a tortuous path to force the fast moving centre of the liquid stream to mix radially with the slower moving boundary liquid layer, thereby minimizing the axial dispersion. The shape of a chromatographic peak entering the reactor is thus preserved very efficiently. To ensure a stable radial mixing within the KRC, a linear flow rate of 10 cm/s or more is recommended. The KRC is usually the most optimal delay element for use in analytical flow systems, and is typically inserted in the flow path to create a delay line, so that a reaction or other event that requires a certain time can take place. Different delay or reaction times are accomplished by changing the inner diameter and length of the KRC, taking the flow rate through the KRC into consideration.

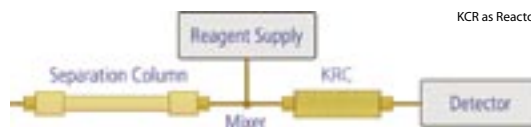
Example application areas

KRC can be applied as a delay line in chromatographic separations. One example is the parallel coupling of a MS detector and a fraction collector in preparative separations (see left figure below). The delay time induced by the KRC allows time for detection and therefore an intelligent decision between fraction collection or waste without loss of chromatographic efficiency.

The KRC reactors can also be used in post-column reaction detection in HPLC (see right figure below). In this set-up the KRC also ensures thorough mixing between the column effluent and the added reagents.



KRC as Delay-Coil



KRC as Reactor

Knitted PTFE Reaction coils

Part No.	ID (mm)	Tubing length
JR-T-3000-123	0.25	1 m
JR-T-3000-223	0.25	2 m
JR-T-3000-423	0.25	4 m
JR-T-3000-133	0.25	10 m
JR-T-3000-233	0.25	20 m
JR-T-3000-125	0.50	1 m
JR-T-3000-225	0.50	2 m
JR-T-3000-425	0.50	4 m
JR-T-3000-135	0.50	10 m
JR-T-3000-235	0.50	20 m
JR-T-3000-128	0.75	1 m
JR-T-3000-228	0.75	2 m
JR-T-3000-428	0.75	4 m
JR-T-3000-138	0.75	10 m
JR-T-3000-238	0.75	20 m

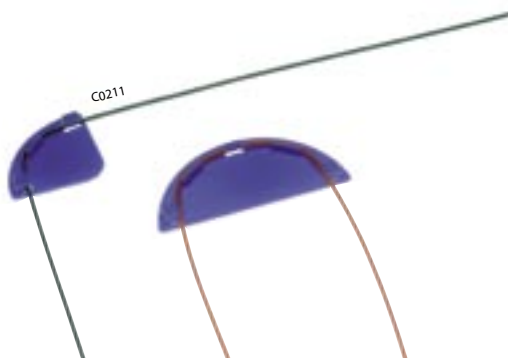


Length Conversions

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

PEEK Tubing Elbows

- Ideal for Routing 1/16" OD PEEK Tubing
- Optimum Radius, Prevents Kinking
- 90° and 180° Elbows



PEEK Tubing Elbows

Part No.	Description
JR-357090	Tubing Elbow 90°
JR-357180	Tubing Elbow 180°

Tubing Clip – The LC Tubing Organizer

- Fixes 1/16" and 1/8" to Beakers, Flasks or Bottles

Here is a convenient small device for the busy chromatographer. The Tubing Clip, which holds both your 1/16" and 1/8" polymer tubing precisely where they should be in your beakers, flasks and bottles etc. up to 4 mm wall thickness.

The stainless steel spring helps to keep your Tubing Clip working for a long period of time and helps to keep your solvent line in the solvent.



Tubing Clip

Part No.	Description
JR-9001	Tubing Clip

SPECS

Material
Polypropylene

Dimension
For OD 1/16" PEEK Tubing

SPECS

Material
Polypropylene
Stainless Steel spring

Dimensions
For OD 1/16" and 1/8" tubing

Special Info
Clip fitted with a SS spring suitable for glassware up to 4 mm thickness

SPECS

Note

The VICI Jour Clean-Cut Tubing Cutter Part No. JR-797 is not for sale in Japan.

For an alternative please see part No. JR-794 Guillotine Cutter.

Clean-Cut Polymer Tubing Cutter

- Cuts PEEK, PTFE, ETFE and other Polymeric Tubing
- No Distortion of OD or Closing of ID
- Safety Lock Secures the Blade

It is difficult to obtain burr-free perpendicular cuts on polymeric tubing, but right angles and clean cuts are essential in LC to avoid leaks. The Clean-Cut is a tool for the most demanding LC applications which will do the job without distorting the outside diameter and/or closing the inside diameter of the tubing.

It is designed to cut PTFE, ETFE and polymer tubing in general and PEEK capillary tubing in particular. The compact design allows every chromatographer to have it in his pocket. A unique safety locking mechanism secures the blade when not in use.

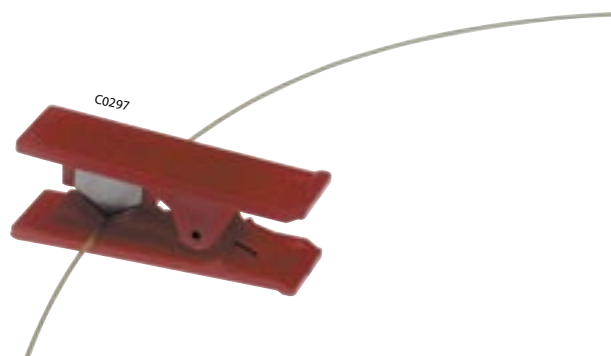


Clean-Cut Polymer Tubing Cutter

Part No.	Description
JR-797	Clean-Cut Tubing Cutter
JR-798	Replacement blade for JR-797

Guillotine Polymer Tubing Cutter

- Cuts PEEK, PTFE, ETFE and other Polymeric Tubing



Guillotine Polymer Tubing Cutter

Part No.	Description
JR-794	Guillotine Cutter for polymer tubing
JR-795	Replacement blade for JR-794



Stainless Steel Tubing Cutter (for non-critical connections)

- For 1/16" an 1/8" SS Tubing
- Leaves Smooth, Uniform Cuts
- Minimum 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, with an ID > 0.5 mm, leaving smooth, uniform cuts with a minimum of deburring and/or

reaming for non-critical connections. The easily replaced cutting wheel scores tubing.



C0293

Part No.	Description
JR-792	Tubing Cutter for metal tubing
JR-793	Replacement cutting wheel for JR-792

Stainless Steel Tubing Pliers (for non-critical connections)

- For Easy Cutting 1/16" OD SS Tubing off a Coil
- Reaches "Hard-To-Get" places in a HPLC System

The plier type of cutter can be used for quick cuts for non-critical applications or at 'hard to get' places. However for scientific equipment the use of Pre-Cut and cleaned tubing is strongly recommended.



C0294

Part No.	Description
JR-796	Tubing Pliers for metal tubing

SPECS

Tech Tip

Between sample injector, column and detector electrolytically cut and steam cleaned SS tubing should be used

SS Pre-Cut tubing (see page 13)



C0578

INDEX

PPS One-Piece Hex-Head/ Fingertight Fitting	27
PEEK Color Coded & Natural One-Piece Fingertight Fittings	28
PEEK One-Piece Hex-Head Fittings	30
PEEK Nuts for use with Double Ferrule	30
PEEK Nuts with Single Ferrule	31
Color-It Fingertight Adapters	32
PEEK Unions	33
PEEK Tees, Crosses and Manifolds High Pressure	34
PEEK Biocompatible Mixing Tee	35
PEEK Tees, Crosses and Manifolds High Pressure	36
PEEK Plugs & Caps	37
PEEK Starter Kit	37
Nanovolume® Fittings	38
PEEK Liners for Fused Silica Tubing Connections	39
Valco Stainless Steel Nuts and Ferrules	40
Stainless Steel Nuts and Ferrules Rheodyne® Type	41
Stainless Steel Unions	42
Stainless Steel Tees & Crosses	43
Stainless Steel Plugs & Caps	44
Stainless Steel Starter Kit	44
ChromBox Kit	45
Tools	46–47

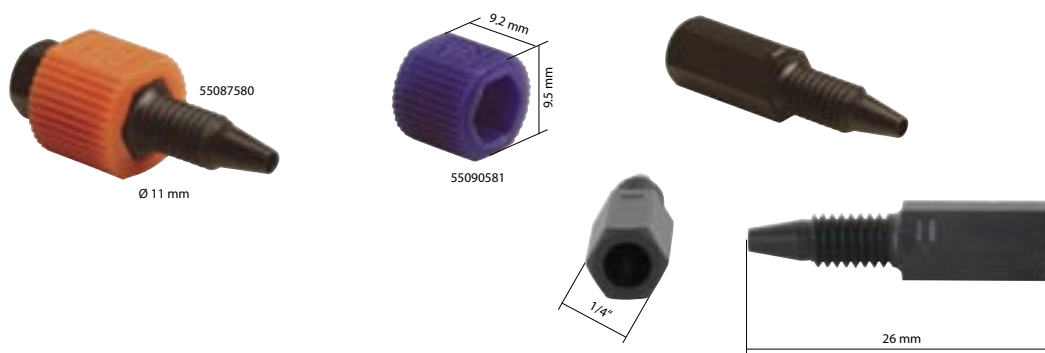
Disclaimer:

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

PPS One-Piece Hex-Head/Fingertight Fitting

- Economically Priced Alternative to PEEK
- Excellent Chemical Resistance
- One-Piece – No Ferrule required
- Slim Design – Fingertight with Adapter

The new VICI Jour PPS One-Piece Hex-Head/Fingertight Fitting offers excellent chemical and pressure resistance.



PPS One-Piece Hexhead/Fingertight Fitting

Part No.	Description	Qty/pkg
JR-58000-5	Fitting, PPS, hexhead one-piece, black, 10-32	5

Color-Sleeve – fingertight adapter

This adapter is useful to color code different solvent lines and it turns the new VICI Jour low pressure nut into a fingertight fitting in an instant. The Color-Sleeve is available in 12 colors.

Color-Sleeve – fingertight adapter

Part No.	Description	Qty/pkg
JR-55080-5	Adapter, PP, fingertight sleeve, natural	5
JR-55081-5	Adapter, PP, fingertight sleeve, white	5
JR-55082-5	Adapter, PP, fingertight sleeve, dark grey	5
JR-55083-5	Adapter, PP, fingertight sleeve, black	5
JR-55084-5	Adapter, PP, fingertight sleeve, lavender	5
JR-55085-5	Adapter, PP, fingertight sleeve, red	5
JR-55086-5	Adapter, PP, fingertight sleeve, yellow	5
JR-55087-5	Adapter, PP, fingertight sleeve, orange	5
JR-55088-5	Adapter, PP, fingertight sleeve, brown	5
JR-55089-5	Adapter, PP, fingertight sleeve, green	5
JR-55090-5	Adapter, PP, fingertight sleeve, blue	5
JR-55091-5	Adapter, PP, fingertight sleeve, purple	5
JR-5508X-24	Adapter, PP, fingertight sleeve, assorted 2 pcs. per color	24
JR-5508X-12	Adapter, PP, fingertight sleeve, assorted 2 pcs. each blue, red, green, yellow, black, white	12



SPECS

Material

PPS – PolyPhenylene Sulphide, black

Adapter: Polypropylene

Chemical Resistance PPS

Chemical Class	Resistance
Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B
Esters	A
Halogenated Org.	A/B
Hydrocarbons	A
Ketones	A

*conc. Halogen Acids
A = suitable
B = Marginal – dependant on application
C = Not recommended

Detailed chemical resistance chart see page 106

Dimensions

For 1/16" OD Tubing

Threads

10-32

Pressure Rating

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

Spares & Tools

We offer 1/16" OD tubing for High Pressure applications in various materials (see pages 5–13)

PEEK Color Coded & Natural One-Piece Fingertight Fittings

SPECS

Material

PEEK

Dimensions

For OD 1/16" Tubing

Threads

10-32

Pressure rating

< 350 bar (< 5000 psi)

Varies with tubing material and ID

Special Info

Fingertight Fittings – works with all 1/16" OD tubing and female 10-32 ports

Color Coded – six colors to identify tubing lines

Biocompatible

The coloration pigments are carefully chosen not to contain any heavy metals and hazardous chemicals.

Spares & Tools

We offer 1/16" OD tubing for High Pressure applications in various materials (see pages 5–13)

PEEK Color Coded & Natural One-Piece Fingertight Fittings

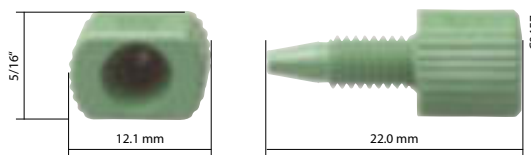
- Fingertight up to 350 bar (5000 psi)
- Excellent Chemical Resistance
- Biocompatible

To identify various tubing lines the PEEK fingertight fittings are available in six colors. PEEK fittings are rated to 350 bar (5000 psi) and can be used in virtually any type of HPLC fitting detail on the market with 10-32 thread.

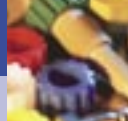


PEEK Color Coded One-Piece Fingertight Fittings Molded Version

Part No.	Description	Qty/pkg
JR-55020-5	Fitting, PEEK, one-piece natural, 10-32	5
JR-55021-5	Fitting, PEEK, one-piece black, 10-32	5
JR-55022-5	Fitting, PEEK, one-piece red, 10-32	5
JR-55023-5	Fitting, PEEK, one-piece yellow, 10-32	5
JR-55024-5	Fitting, PEEK, one-piece blue, 10-32	5
JR-55025-5	Fitting, PEEK, one-piece green, 10-32	5



Part No. JR-55025-5

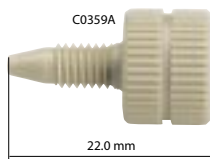


PEEK Natural One-Piece Fingertight Fittings – Machined Versions

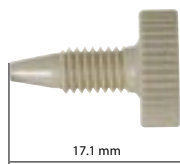
Part No.	Description	Qty/pkg
JR-5502-5	Fitting, PEEK, one-piece, 10-32	5
JR-5504-5	Fitting, PEEK, one-piece fingertight short head, 10-32	5
JR-5507-5	Fitting, PEEK, one-piece fingertight long, 10-32	5
JR-5508-5	Fitting, PEEK, one-piece fingertight narrow hex-head, 10-32	5



JR-5502-5



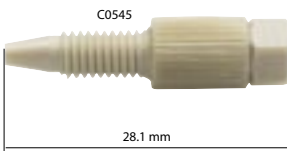
JR-5504-5



JR-5507-5



JR-5508-5



SPECS

Material
PEEK

Dimensions
For OD 1/16" Tubing

Threads
10-32

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

Special Info
Fingertight Fittings – works with all 1/16" OD tubing and female 10-32 ports

Spares & Tools
We offer 1/16" OD tubing for High Pressure applications in various materials (see pages 5–13)

PEEK One-Piece Hex-Head Fittings & PEEK Nuts for use with Double Ferrule

SPECS

Material

PEEK

Dimensions

For OD 1/16" Tubing

Threads

10-32

Pressure rating

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

Tech Tip

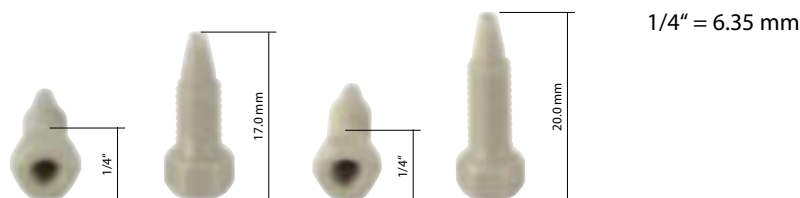
For tightening hex-head fittings, we recommend our ValvTool JR-800 (see pages 46 and 95)

PEEK One-Piece Hex-Head Fittings

- Ideal for use with PEEK Tubing
- Withstand Pressures up to 350 bar (5000 psi)
- For any High Pressure Fittings

PEEK one-piece hex-head fittings are convenient with their integrated ferrule and easy to use with the Valv-Tool and the Color-It Color-Coded Fingertight Adapters. The 10-32 thread will fit virtually all standard high-pressure female connections. Connections with

the reusable PEEK one-piece hex-head will withstand pressures of up to 350 bar (5000 psi). PEEK one-piece hex-head fittings are available both in a short and long version.



PEEK One-Piece Hex-Head Fittings

Part No.	Description	Qty/pkg
JR-55100-5	Fitting, PEEK, one-piece hex-head short, 10-32	5
JR-55110-5	Fitting, PEEK, one-piece hex-head long, 10-32	5

SPECS

Material

PEEK

Dimensions

For OD 1/16" Tubing

Threads

10-32

Tolerances

+/- 0.05 mm (.002")

Pressure rating

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

Special Info

Double-Ferrule grips Tubing twice

Works with all 1/16" OD Tubing

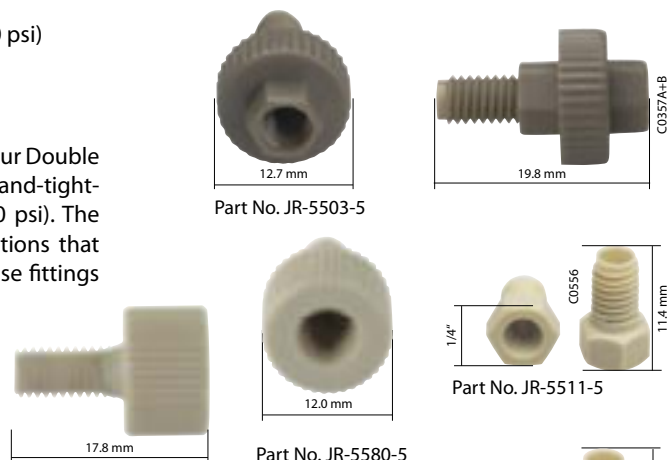
Fits any 10-32 Fitting

Fits all Female compression Fittings Ideal for use with PEEK Tubing

PEEK Nuts for use with Double Ferrule

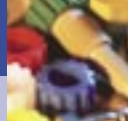
- High-Pressure Rating up to 420 bar (6000 psi)
- Ideal for use with 1/16" PEEK Tubing
- Fits any 10-32 Port

These hex-head nuts are for use with VICI Jour Double Ferrules. 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 closely spaced. These fittings fit virtually any female 1/16" fitting.



PEEK Nuts with Double Ferrule

Part No.	Description	Qty/pkg
JR-5511-5	Nut, PEEK, hex-head short, 10-32	5
JR-5510-5	Nut, PEEK, hex-head long, 10-32	5
JR-5580-5	Nut, PEEK, fingertight, 10-32	5
JR-5503-5	Nut, PEEK, universal fingertight, 10-32	5
JR-5004-5	Ferrule, PEEK, double 1/16"	5

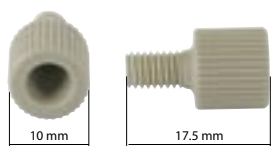


PEEK Nuts with Single Ferrule

- Reuseable Nut, Replaceable Ferrule
- For 1/16" and 1/8" OD Tubing
- Suitable for High Pressure 10-32 and 5/16"-24 Ports

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

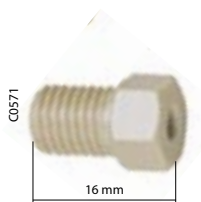
tightening; however, since they are polymeric, they can break and are recommended for use only when space is limited and fingers will not fit.



Part No. JR-5570-5



Part No. JR-5003-5



Part No. JR-ZN2PK-5



Part No. JR-ZF2PK-5

Two-Piece Fingertight Nuts

Part No.	Description	Qty/pkg
JR-5570-5	Nut, PEEK, fingertight, 1/16", 10-32	5
JR-5003-5	Ferrule, Single, PEEK, 1/16"	5
JR-ZN2PK-5	Nut, PEEK, hex-head, 1/8", 5/16"-24	5
JR-ZF2PK-5	Ferrule, PEEK, 1/8"	5

SPECS

Material
PEEK

Dimensions
For 1/16", 1/8" Tubing

Threads
See Chart

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

Color-It Fingertight Adapters

SPECS

Material

Polypropylene

Dimensions

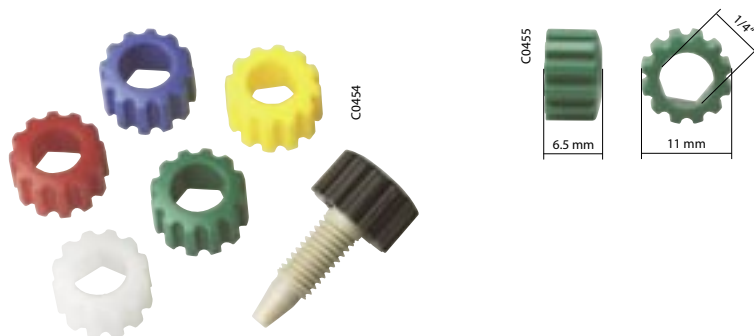
For 1/4" Hex-head nuts

Color-It Fingertight Adapters

- Easy Solvent Line Identification
- Fits All Hex-Head PEEK and SS Fittings for 1/16" OD Tubing
- Six Different Colors Available

We recommend the Color-It Snap-On fingertight-extension for color coding our 1/4" hex-head nuts. Color-It is useful to color code different solvent lines and it turns your hex-head nuts into a fingertight fitting in an instant. Color-It knobs are available in six

different colors (blue, yellow, green, black, white and red). They can be used in connection with our PEEK and Stainless Steel hex-head nuts for 1/16" OD tubing (see pages 30 and 40–41)



Color-It Fingertight Adapters

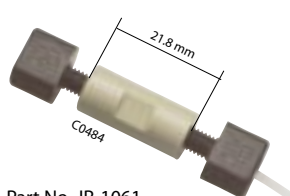
Part No.	Description	Qty/pkg
JR-55010-5	Color-It blue	5
JR-55011-5	Color-It yellow	5
JR-55012-5	Color-It green	5
JR-55013-5	Color-It black	5
JR-55014-5	Color-It white	5
JR-55015-5	Color-It red	5
JR-55016-12	Color-It assorted, 2 pcs. each color	12

PEEK Unions

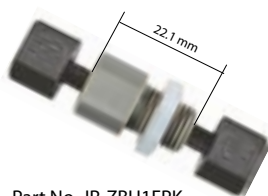
- Easy Connection of Transfer/Solvent Lines
- Low Dead Volume
- Completely Inert and Biocompatible

VICI Jour PEEK unions are usable with most common HPLC solvents (organic and inorganic) without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel. Small diameter bores are used to insure low dead volume connections. 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 (PEEK, stainless steel, PTFE, ETFE, etc.).



Part No. JR-1061



Part No. JR-ZBU1FPK



Part No. JR-ZRU21FPK

PEEK Unions

Part No.	Description
JR-1061	Union, PEEK, 0.25 mm bore, complete
JR-1066	Union, PEEK, 0.50 mm bore, complete
JR-1067	Union, PEEK, 0.75 mm bore, complete
JR-061	Union, PEEK, 0.25 mm bore, body only
JR-066	Union, PEEK, 0.50 mm bore, body only
JR-067	Union, PEEK, 0.75 mm bore, body only

PEEK Bulkhead Unions

Part No.	Description
JR-ZBU1CFPK	Bulkhead Union, PEEK, 0.25 mm bore, complete
JR-ZBU1MFPK	Bulkhead Union, PEEK, 0.50 mm bore, complete
JR-ZBU1FPK	Bulkhead Union, PEEK, 0.75 mm bore, complete

PEEK Reducing Unions

Part No.	Description
JR-ZRU21FPK	Union, PEEK, reducing, 1/8” to 1/16”, 0.75 mm bore, complete

Spare Parts

Part No.	Description	Qty/pkg
JR-55021-5	Fitting, PEEK, one-piece black, 10-32 replacement for all JR-106X	5
JR-ZN2PK-5	Nut, PEEK, hex-head, 1/8”, 5/16”-24, replacement for JR-ZRU21FPK	5
JR-ZF2PK-5	Ferrule, PEEK, 1/8”, replacement for JR-ZRU21FPK	5

SPECS

Material

PEEK

Dimensions

For 1/16” OD Tubing and 1/16” to 1/8”
Others: see illustrations

Threads

10-32 for 1/16” OD tubing
5/16”-24 for 1/8” OD tubing

Pressure rating

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

Note

Complete unions will be supplied with PEEK one-piece fittings.

PEEK unions have the standardized Valco fitting details with smooth transition of the taper into the threaded part.

Tech Tip

Bulkhead Unions require a min. 10 mm panel hole.

PEEK Tees, Crosses and Manifolds High Pressure

SPECS

Material

PEEK

Dimensions

Tees and Crosses
Diameter (body): 25.0 mm
Thickness: 12.0 mm

Threads

10-32
For OD 1/16" Tubing

Pressure rating

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

Special info

100% PEEK flowpath
for inertness and biocompat-
ibility

Tech Tip

Use our color coded one-
piece fingertight fittings
for easy solvent line identi-
fication (see pages 27–28)

Note

Complete Tees and Crosses
will be supplied with PEEK
one-piece fittings.

PEEK unions have the stan-
dardized Valco fitting details
with smooth transition of the
taper into the threaded part.

PEEK Tees, Crosses and Manifolds High Pressure

- Easy Connection of Solvent Lines
- Low Dead Volume
- Completely Inert and Biocompatible

VICI Jour PEEK tees, crosses and manifolds are usable with most common HPLC solvents (organic and inorganic) without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel. Small diameter thru-holes are used to insure low dead volume connections. Connections to these PEEK tees, crosses and manifolds can be made with any 10-32 fitting that uses polymeric fer-

rules. PEEK tees, crosses and manifolds 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 (PEEK, stainless steel, PTFE, ETFE, etc.).



PEEK Tees High Pressure

Part No.	Description
JR-1030	Tee, PEEK, HP, 0.25 mm bore, complete with one-piece fittings
JR-1032	Tee, PEEK, HP, 0.50 mm bore, complete with one-piece fittings
JR-1033	Tee, PEEK, HP, 0.75 mm bore, complete with one-piece fittings
JR-2030	Tee, PEEK, HP, 0.25 mm bore, body only
JR-2032	Tee, PEEK, HP, 0.50 mm bore, body only
JR-2033	Tee, PEEK, HP, 0.75 mm bore, body only

PEEK Crosses High Pressure

Part No.	Description
JR-1040	Cross, PEEK, HP, 0.25 mm bore, complete with one-piece fittings
JR-1042	Cross, PEEK, HP, 0.50 mm bore, complete with one-piece fittings
JR-1043	Cross, PEEK, HP, 0.75 mm bore, complete with one-piece fittings
JR-2040	Cross, PEEK, HP, 0.25 mm bore body only
JR-2042	Cross, PEEK, HP, 0.50 mm bore body only
JR-2043	Cross, PEEK, HP, 0.75 mm bore body only



PEEK Manifolds High Pressure

Part No.	Description
JR-Z6M1PK	Manifold, PEEK, 6 inlets to 1 outlet, 0.25 mm bore complete with one-piece fittings
JR-B-Z6M1PK	Manifold, PEEK, 6 inlets to 1 outlet, 0.25 mm bore, body only

Spare Parts

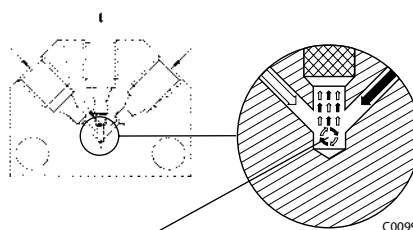
Part No.	Description	Qty/pkg
JR-55021-5	Fitting, PEEK, one-piece black, 10-32	5

PEEK Biocompatible Mixing Tee

- High-Pressure Gradient Mixing
- Post Column Reactions
- Completely Biocompatible

A unique mixing is the result of the turbulence generated by the introduction angle of the solvents as well as the flow through our PAT filter element – the two solvent streams mix more thoroughly than with a conventional tee.

The biocompatible tee can be used for high-pressure gradient mixing as well as for post column reactions.



The two solvent streams are perfectly mixed in the vortex mixing chamber

PEEK Biocompatible Mixing Tee

Part No.	Description
JR-9000-0665	Tee, PEEK, mixing, complete with one-piece fittings

SPECS

Dimensions

Diameter (body): 25.4 mm
Thickness (body): 22.9 mm

SPECS

Material

PEEK, PAT

Dimensions

Width (body): 25.4 mm
Thickness: 9.5 mm

Tolerances

+/- 0.05 mm (.002")

Threads

10-32
For OD 1/16" Tubing

Pressure rating

< 350 bar (< 5000 psi)

Special info

Metal-free for analytical gradient HPLC

Built-in protein friendly PAT filter (PEEK Alloyed with Teflon)

Porosity 5 µm

Internal volume incl. frit = 4 µL

PEEK Adapters

SPECS

Material

PEEK

Dimensions

See chart

Pressure rating

M6 - 1/4"-28:

< 70 bar (< 1000 psi)

Male and female luer:

< 3.5 bar (< 50 psi)

Varies with tubing material and ID

Special Info

PEEK Port Adapters

These adapters connect standard LC fittings to standard LC ports

They are available with 1/4"-28, M6 or 10-32 threads (configured for VALCO)

PEEK Luer Adapters

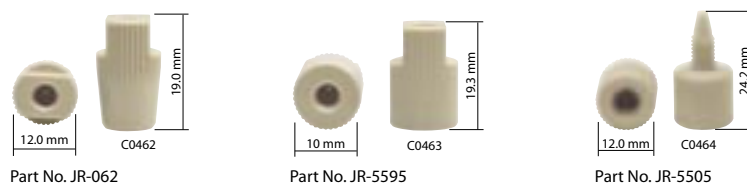
Male and female luer adapters connect luer fittings, 10-32, 1/4"-28 and M6 threaded fittings

Luer Adapters not available as luer lock

Thru-hole = 0.40 mm

PEEK Adapters

- Easy Connection of Solvent Lines
- Low Dead Volume
- Completely Inert and Biocompatible



PEEK Adapters

Part No.	Description
JR-062	Adapter, PEEK, 10-32 to 1/4"-28
JR-5595	Pharmacia Adapter M6 to 10-32
JR-5505	Adapter, PEEK, M6 to 10-32

PEEK Port and Luer Adapters

Part No.	Inlet	Outlet
JR-0611	Waters Female	10-32 Male
JR-0612	1/4"-28 Female	10-32 Male
JR-0622	1/4"-28 Female	M6 Male
JR-0625	1/4"-28 Female	Female Luer
JR-0626	1/4"-28 Female	Male Luer
JR-0613	M6 Female	10-32 Male
JR-0619	M6 Female	1/4"-28 Male
JR-0617	10-32 Female	1/4"-28 Male
JR-0623	10-32 Female	Female Luer

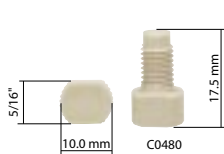


PEEK Plugs & Caps

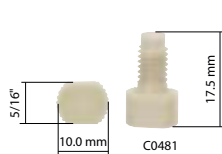
- Plugging Ports – Capping Solvent Lines
- All Common Thread Sizes Available



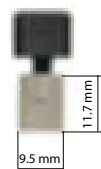
Part No. JR-408



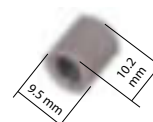
Part No. JR-409



Part No. JR-410



Part No. JR-ZC1PK



Part No. JR-CCPK-1

PEEK Plugs & Caps

Part No.	Description
JR-408	Plug, PEEK, 10-32
JR-409	Plug, PEEK, 1/4"-28
JR-410	Plug, PEEK, M6
JR-ZC1PK	Cap, PEEK, female 10-32
JR-CCPK-1	Cap, PEEK, female 1/4"-28

PEEK Starter Kit

- All Parts Biocompatible
- Ideal Kit for All HPLC Users

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.

By replacing stainless steel parts, such as tubing, fittings, ferrules, mobile phase filters, in-line filters etc. a biocompatible and metal-free environment is created for samples and mobile phase.

The PEEK Starter Kit is a collection of items, which is a good start for everybody working in the field of biochromatography.

The Kit consists of fittings, ferrules, tubing and solvent filters as well as a union, our Clean-Cut Tubing Cutter and other useful tools like our Tubing Elbows. All together for a very competitive price!



PEEK Starter Kit

Part No.	Description
JR-35P	PEEK Starter Kit

SPECS

Material
PEEK

Threads
See chart

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

Nanovolume® Fittings

SPECS

Material

PEEK

Dimensions

See illustrations

Threads

Nuts: 6-40

Ext. Nuts 1/16": 10-32

Ext. Nuts 1/32": 8-36

Pressure rating

< 350 bar (5000 psi)

Varies with tubing material and ID

Note

Nanovolume® Unions will be supplied with PEEK one-piece fingertight fittings, ext. nuts and ferrules for 1/32" OD tubing (see chart Nanovolume® Nuts & Ferrules).

The Nanovolume® Reducing Union will additionally be supplied with a PEEK ext. nut and ferrule for 1/16" OD tubing (see chart Nanovolume® Nuts & Ferrules).

*patents pending

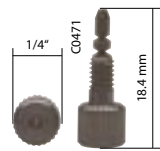
Nanovolume® Fittings

- 100 and 150 µm Bores Available
- Nuts, Ferrules, Unions, Tees, Crosses and Ys
- For PEEK, PEEKclad-FST™ and Electro Formed Nickel Tubing

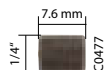
VICI Nanovolume® Fittings are designed for Capillary LC used in HTS techniques, Proteomics, Genomics and other newer developments in industrial routine research. Small sample size, reduction of analysis time and higher expectations on instrumentation as well as on accessories are required. VICI Nanovolume®

connectors include our new one-piece fingertight fittings for 1/32 OD tubing with a patented* collapsible ferrule.

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



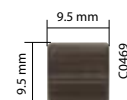
Part No. JR-C-NNFFPK



Part No. JR-C-EN.5FPKB



Part No. JR-ZGF.5PK



Part No. JR-EN1FPKB



Part No. JR-ZGF1PK

Nanovolume® Nuts & Ferrules

Part No.	Description
JR-C-NNFFPK	Fitting, PEEK, one-piece, grooved ferrule, 1/32"
JR-C-EN.5FPKB	Nut, PEEK, External, 1/32"
JR-ZGF.5PK	Ferrule, PEEK, grooved, 1/32"
JR-EN1FPKB	Nut, PEEK, External, 1/16"
JR-ZGF1PK	Ferrule, PEEK, grooved, 1/16"
JR-C-NPFPK	Plug, PEEK, 1/32"



Part No.
JR-C-NEU.5XFPK, JR-C-NEU.5FPK

Nanovolume® Unions

Part No.	Description
JR-C-NEU.5XFPK	Union, PEEK, 100 µm bore, Int. 1/32" – Ext. 1/32" ZDVF
JR-C-NEU.5FPK	Union, PEEK, 150 µm bore, Int. 1/32" – Ext. 1/32" ZDVF



Part No. JR-C-NERU1FPK

Nanovolume® Reducing Union

Part No.	Description
JR-C-NERU1FPK	Union, PEEK, 150 µm bore, Reducing, Ext. 1/16" – Int. 1/32"



Nanovolume® Tees

Part No.	Description
JR-C-NTXFPK	Tee, PEEK, 100 µm bore, 1/32", complete
JR-C-NTFPK	Tee, PEEK, 150 µm bore, 1/32", complete



Part No.
JR-C-NTXFPK, JR-C-NTFPK

Nanovolume® Crosses

Part No.	Description
JR-C-NXXFPK	Cross, PEEK, 100 µm bore ID, 1/32", complete
JR-C-NXFPK	Cross, PEEK, 150 µm bore, 1/32", complete



Part No.
JR-C-NXXFPK, JR-C-NXFPK

Nanovolume® Ys

Part No.	Description
JR-C-NYXFPK	Y, PEEK, 100 µm bore, 1/32", complete
JR-C-NYFPK	Y, PEEK, 150 µm bore, 1/32", complete



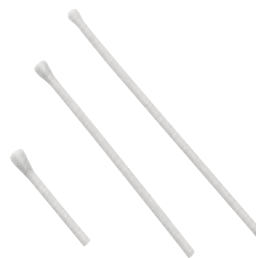
Part No.
JR-C-NYXFPK, JR-C-NYFPK

PEEK Liners for Fused Silica Tubing Connections

- Available for the Most Common Fused Silica Tubing Sizes
- Two Different Lengths
- Liners with 1µm Screen

PEEK Liners

Part No.	OD	for Fused Silica OD	Length (mm)	Qty/pkg
JR-C-NL.15L-5	1/32"	125–175 µm	27	5
JR-C-NL.15S-5	1/32"	125–175 µm	10	5
JR-C-NL.20L-5	1/32"	175–225 µm	27	5
JR-C-NL.20S-5	1/32"	175–225 µm	10	5
JR-C-NL.25L-5	1/32"	225–275 µm	27	5
JR-C-NL.25S-5	1/32"	225–275 µm	10	5
JR-C-NL.30L-5	1/32"	275–325 µm	27	5
JR-C-NL.30S-5	1/32"	275–325 µm	10	5
JR-C-NL.35L-5	1/32"	325–375 µm	27	5
JR-C-NL.35S-5	1/32"	325–375 µm	10	5



PEEK Liners with 1µm Screen

Part No.	OD	for Fused Silica OD	Length (mm)
JR-C-NLS1.15	1/32"	125–175 µm	28
JR-C-NLS1.20	1/32"	175–225 µm	28
JR-C-NLS1.25	1/32"	225–275 µm	28
JR-C-NLS1.30	1/32"	275–325 µm	28
JR-C-NLS1.35	1/32"	325–375 µm	28



SPECS

Material
PEEK

Dimensions

Diameter (body): 21.6 mm
Thickness: 9.5 mm

Threads
6-40

Pressure rating

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

Note

Nanovolume® Tees, Crosses and Ys will be supplied with PEEK one-piece fingertight fittings for 1/32" OD tubing (see chart Nanovolume® Nuts & Ferrules).

SPECS

Material

Liners: PEEK
Screens: SS316L

Dimensions

See chart

Tech Tip

Use 10 mm Liners with External nut JR-C-EN.5FPKB.
Use 27/28 mm Liners with One-Piece PEEK Fitting JR-C-NNFPK.

Valco Stainless Steel Nuts and Ferrules

SPECS

Material

Nuts: SS303
Ferrules: SS316

Dimensions

OD 1/32", 1/16", 1/8"

Threads

See chart

Pressure rating

< 500 bar (< 7250 psi)
Varies with tubing material and ID

Spares & Tools

We recommend our ValvTool and wrenches for tightening SS Nuts (see page 46).

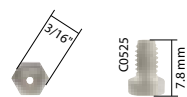
Stainless Steel Tubing
see pages 10–13

Valco Stainless Steel Nuts and Ferrules

- 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 Chemin-

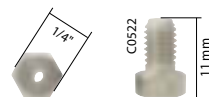
ert valves with more than 8 ports. In using nuts with different length more space is created for easier access with a wrench.



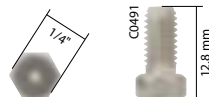
Part No. JR-ZN.5-5



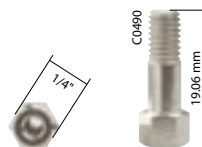
Part No. JR-ZF.5S6-5



Part No. JR-ZN1-5



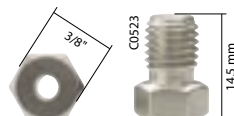
Part No. JR-MZN1-5



Part No. JR-LZN1-5



Part No. ZF1S6



Part No. JR-ZN2-5



Part No. JR-ZF2S6-5

Valco Stainless Steel Nuts and Ferrules

Part No.	Description	Qty/pkg
JR-ZN.5-5	Nut, SS, 1/32", 6-40	5
JR-ZF.5S6-5	Ferrule, SS, 1/32"	5
JR-ZN1-5	Nut, SS, 1/16", 10-32	5
JR-MZN1-5	Nut, SS, 1/16" Medium, 10-32	5
JR-LZN1-5	Nut, SS, 1/16" Long, 10-32	5
JR-ZF1S6-5	Ferrule, SS, 1/16"	5
JR-ZN2-5	Nut, SS, 1/8", 5/16"-24	5
JR-ZF2S6-5	Ferrule, SS, 1/8"	5

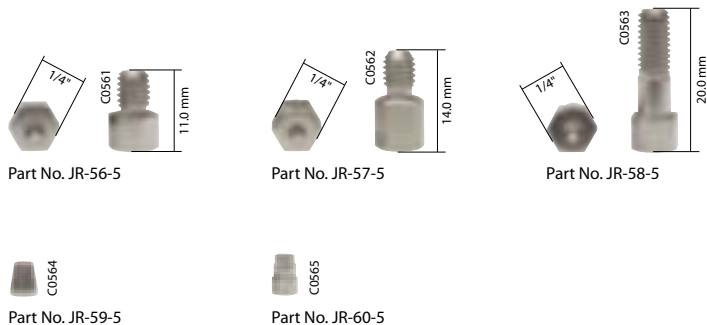


Stainless Steel Nuts and Ferrules Rheodyne® Type

- Excellent Fit to Rheodyne® Fitting Details
- Different Lengths Available
- For 1/16" OD Tubing

These nuts and ferrules are for use with metal Rheodyne® valves. Three different lengths are available in order to accommodate any possible connecting situation. The standard nut is suitable for easy accessible

connections (couplers, detectors, columns etc.). For very tight and difficult to reach areas we recommend the long and extra long nut.



Stainless Steel Nuts and Ferrules Rheodyne® Type

Part No.	Description	Qty/pkg
JR-56-5	Nut, SS, short, Rheodyne® type, 10-32	5
JR-57-5	Nut, SS, long head, Rheodyne® type, 10-32	5
JR-58-5	Nut, SS, x-long, Rheodyne® type, 10-32	5
JR-59-5	Ferrule, SS, 1/16"	5
JR-60-5	Ferrule, SS, 1/16", 2-step Rheodyne® type	5

SPECS

Material

SS316

Dimensions

For OD 1/16" Tubing

Threads

See chart

Pressure rating

< 500 bar (< 7250 psi)
Varies with tubing material and ID

Spares & Tools

We recommend our ValvTool and wrenches for tightening SS Nuts (see page 46).

Stainless Steel Tubing
see pages 10-13

Stainless Steel Unions

SPECS

Material

Body: SS 316
Nuts: SS303
Ferrules: SS316

Dimensions

See illustrations

Pressure rating

< 500 bar (< 7250 psi)
Varies with tubing material and ID

Stainless Steel Unions

- Easy Connection of Solvent Lines
- Low Dead Volume
- Different Bores Available
- For 1/16" and 1/8" OD SS Tubing

VICI Stainless Steel Unions are made for joining two pieces of 1/16" OD tubing or 1/8" with 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 give an absolute leak-free connection. VICI SS Unions have internal threads, which we rec-

ommend for most applications. Internal threads make stronger connections and internal fitting details provide the lowest dead volume for high performance instrumentation.



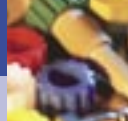
Stainless Steel Unions

Part No.	Description	Drawing
JR-ZU1XCS6	Union, SS, bore 0.15 mm, 1/16", 10-32, complete	A
JR-ZU1CS6	Union, SS, bore 0.25 mm, 1/16", 10-32, complete	A
JR-ZU1MS6	Union, SS, bore 0.50 mm, 1/16", 10-32, complete	A
JR-ZU1S6	Union, SS, bore 0.75 mm, 1/16", 10-32, complete	A
JR-ZRU21	Union, SS, reducing 0.75 mm bore, 1/8" (5/16"-24) to 1/16" (10-32) complete	B

(All above SS Unions are complete with nuts and ferrules.)

Spare Parts

Part No.	Description	Qty/pkg
JR-ZN1-5	Nut, SS, 1/16", 10-32, repl. for JR-ZU1x series + JR-ZRU21, 1/16" nut	5
JR-ZF1S6-5	Ferrule, SS, 1/16", repl. for JR-ZU1 series + JR-ZRU21, 1/16" ferrule	5
JR-ZN2-5	Nut, SS, 1/8", 5/16"-24, repl. for JR-ZRU21, 1/8" nut	5
JR-ZF2S6-5	Ferrule, SS, 1/8", repl. for JR-ZRU21, 1/8" ferrule	5



Stainless Steel Tees & Crosses

- Easy Connection of Solvent Lines
- Low Dead Volume
- Different Bores Available
- For 1/16" OD Tubing

VICI Stainless Steel Tees & Crosses are suitable for connecting 3 or 4 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.

VICI SS Tees & Crosses have internal threads, which we recommend for most applications. Internal threads make stronger connections and internal fitting details provide the lowest dead volume for high performance instrumentation.



Stainless Steel Tees

Part No.	Description
JR-ZT1C	Tee, SS, 0.25 mm bore, 1/16", 10-32, complete
JR-ZT1M	Tee, SS, 0.50 mm bore, 1/16", 10-32, complete
JR-ZT1	Tee, SS, 0.75 mm bore, 1/16", 10-32, complete

(All above SS Tees are complete with nuts and ferrules.)

Stainless Steel Crosses

Part No.	Description
JR-ZX1C	Cross, SS, 0.25 mm bore, 1/16", 10-32, complete
JR-ZX1M	Cross, SS, 0.50 mm bore, 1/16", 10-32, complete
JR-ZX1	Cross, SS, 0.75 mm bore, 1/16", 10-32, complete

(All above SS Crosses are complete with nuts and ferrules.)

Spare Parts

Part No.	Description	Qty/pkg
JR-ZN1-5	Nut, SS, 1/16", 10-32	5
JR-ZF1S6-5	Ferrule, SS, 1/16"	5

SPECS

Material

Bodies: SS316
Nuts: SS303
Ferrules: SS316

Dimensions

Diameter (body): 23.4 mm
Thickness: 12.7 mm

Threads

See chart

Pressure rating

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

SPECS

Material

Plug 1/16": SS316
 Plug 1/8": SS303
 Caps; SS303

Dimensions

See illustration

Thread size

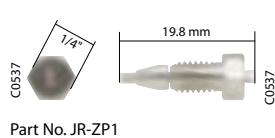
Plug & Cap 1/16": 10-32
 Plug & Cap 1/8": 5/16"-24

Spares & Tools

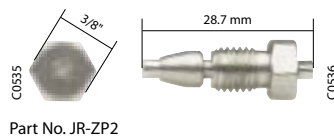
We recommend our ValvTool and wrenches for tightening SS Plugs & Caps (see page 46).

Stainless Steel Plugs & Caps

- Plugging Ports – Capping Solvent Lines
- For 1/16" and 1/8" OD Tubing



Part No. JR-ZP1



Part No. JR-ZP2



Part No. JR-ZC1



Part No. JR-ZC2

Stainless Steel Plugs & Caps

Part No.	Description
JR-ZP1	Plug, SS, 1/16"
JR-ZP2	Plug, SS, 1/8"
JR-ZC1	Cap, SS, female 1/16"
JR-ZC2	Cap, SS, female 1/8"

Stainless Steel Starter Kit

- Ideal Kit for HPLC Users
- For High Pressure Applications

The Kit consists of fittings, ferrules, tubing and solvent filters as well as a union, our Stainless Steel Tubing Cutter and other useful tools like our Valvtool. All together for a very competitive price!



Stainless Steel Starter Kit

Part No.	Description
JR-35S	Stainless Steel Starter Kit

ChromBox Kit

– For Start-Up and Standard Use in all HPLC Systems

The ChromBox is an all-purpose analytical spare part kit for all our customers using HPLC. It contains the most often used spare parts made both of high quality SS 316L as well as PEEK and Teflon. All together for a very competitive price!



ChromBox Kit

Part No.	Description
JR-34N	ChromBox Kit

ValvTool

- For making connections in 'Hard-to-Reach' areas
- Ideal for Nuts with 1/4" Hex and 5/16" Heads

The new ValvTool is a time-saving device, which will provide easy access to many hard-to-reach areas. The unique design with its slotted wrench allows access to nuts where a loop or a capillary may otherwise

make it difficult. The ValvTool is the ideal for Rheodyne® and Valco valves and fittings as well as for most of the HPLC and PEEK fittings on the market with 1/4" and 5/16" heads.

ValvTool

Part No.	Description
JR-800	Tool, ValvTool 1/4" and 5/16" wrench

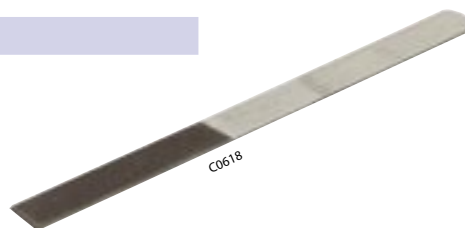


File

Standard file

File

Part No.	Description
JR-802	Tool, File



Wrench

- Open wrenches for nuts with 1/4", 5/16", 3/8" or 7/16" heads

Wrench

Part No.	Description
JR-804	Tool, Wrench 1/4" and 5/16" open wrench
JR-805	Tool, Wrench 3/8" and 7/16" open wrench



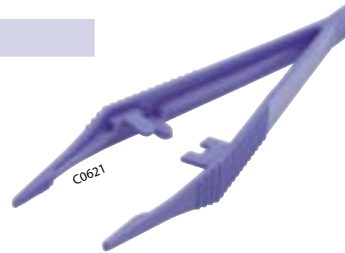


Tweezer

- Ideal for picking small Fittings etc.

Tweezers

Part No.	Description
JR-806	Tool, Tweezers



Ferrule Removal Kit

- Removes Sticking Polymeric Ferrules out of Fitting Details
- Two Tools For Different Ferrule Sizes

Ferrule Removal Kit

Part No.	Description
JR-FRK1	Ferrule Removal Kit



Hex Key Set

- Fits Any Socket Head Screw on Any VICI Valve or/Actuator
- Key Sizes: 0.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"

Hex Key Set

Part No.	Description
JR-HKS	Hex Key Set

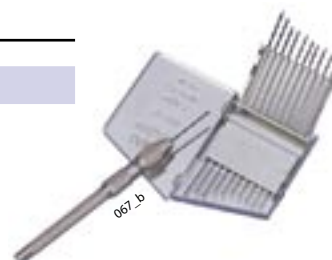


Drill Set

- To Enlarge the ID of Fused Silica Adapters
- Useful Tool when Fused Silica Breaks in an Adapter
- 20 Drills Sized from 0.34 to 1 mm (0.0135" to 0.039")

Drill Set

Part No.	Description
JR-PV	Drill set, incl. Pin Vise





C0392

INDEX

Low Pressure PPS nuts for 1/4"-28 Flat Bottom Fitting Details	49
Color-Sleeves – Fingertight Adapters	51
PEEK Color Coded Flangeless Nuts	52
Polyacetal Color Coded Flangeless Nuts	53
Polypropylene Flanged Fingertight Nuts	54
Flanged Tubing Connector	55
Unions	56
Bulkhead Unions	57
PEEK Tees, Crosses and Manifolds Low Pressure	58
PEEK Biocompatible Mixing Tees – Low Pressure	59
Manual Flow Selection Valves	60
Peristaltic Tubing Adapter Set	61
Low Pressure Polypropylene Adapters	62
Flanged Fittings Kit	63

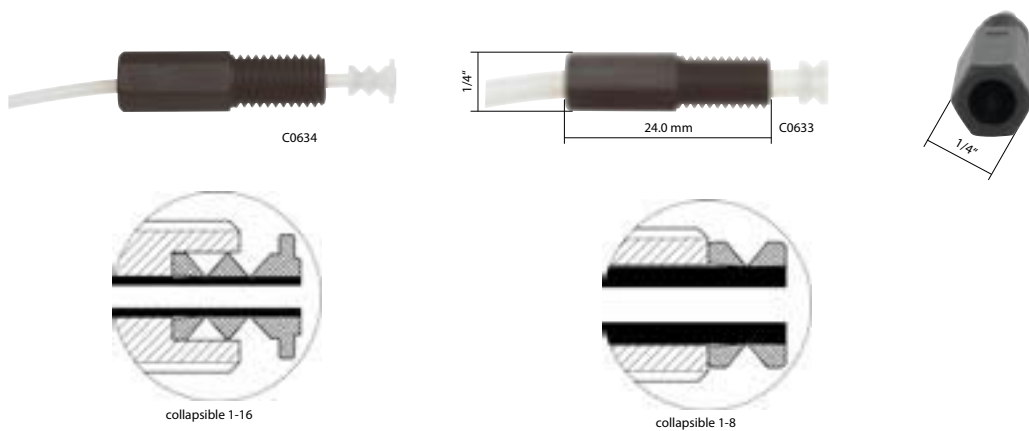
Disclaimer:

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

Low Pressure PPS Nuts for 1/4"-28 Flat Bottom Fitting Detail

- Economically Priced Alternative to PEEK
- Excellent Chemical Resistance
- Fits 1/16" or 1/8" OD Tubing
- Slim Design – Fingertight with Adapter

The new VICI Jour PPS 1/4"-28 Fitting series offers excellent chemical and pressure resistance. There is a choice of three different sealing options: collapsible ferrule, inverted ferrule or flanged with washer.



Flangeless type: Collapsible ferrule* connection

Very effective sealing on narrow areas with no distortion of the tubing
No flanging tools required.

Part No.	Description	Qty/pkg
JR-55050-10	Nut, PPS, for collapsible ferrule 1/16", 1/4"-28	10
JR-55051-10	Nut, PPS, for collapsible ferrule 1/8", 1/4"-28	10
JR-CFL-CB1KF	Ferrule, CTFE, collapsible, 1/16"	10
JR-CFL-CB2KF	Ferrule, CTFE, collapsible, 1/8"	10

SPECS

Material

Nuts: PPS – PolyPhenylene Sulphide, black

Collapsible Ferrules: CTFE

Inverted Ferrules: ETFE

Washers: Polypropylene

Adapters: Polypropylene

Chemical Resistance PPS	
Chemical Class	Resistance
Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B
Esters	A
Halogenated Org.	A/B
Hydrocarbons	A
Ketones	A

*conc. Halogen Acids
A = suitable
B = Marginal –
dependant on application
C = Not recommended

Detailed chemical resistance chart see page 106

Dimensions

For 1/16" and 1/8" OD Tubing
Others: see illustration

Threads

1/4"-28

Pressure Rating

1/16" up to 105 bar (1500 psi)
1/8" up to 35 bar (500 psi)
Varies with tubing material and ID

Tech Tip

For flanging tubing we recommend the VICI Jour Easy Flange Kit (see page 24)

* Collapsible Ferrule (see Glossary):
Patent No. 6,575,501

Low Pressure PPS nuts for 1/4"-28 Flat Bottom Fitting Detail

SPECS

Material

Nuts: PPS – PolyPhenylene Sulphide, black

Collapsible Ferrules: CTFE

Inverted Ferrules: ETFE

Washers: Polypropylene

Adapters: Polypropylene

Chemical Resistance PPS

Chemical Class	Resistance
Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B
Esters	A
Halogenated Org.	A/B
Hydrocarbons	A
Ketones	A

*conc. Halogen Acids

A = suitable

B = Marginal –
dependant on application

C = Not recommended

Detailed chemical resistance chart see page 106

Dimensions

For 1/16" and 1/8" OD Tubing
Others: see illustration

Threads

1/4"-28

Pressure Rating

1/16" up to 105 bar (1500 psi)

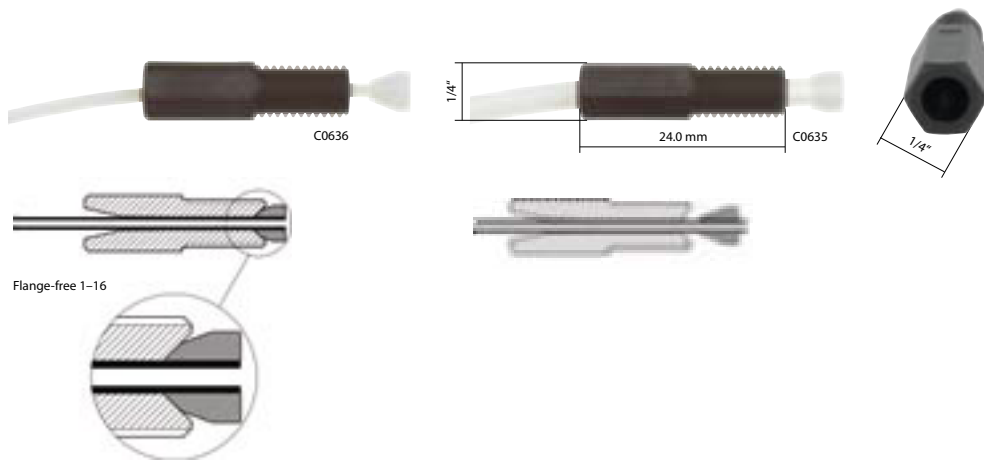
1/8" up to 35 bar (500 psi)

Flanged with Washer: 30bar (435psi)

Varies with tubing material and ID

Tech Tip

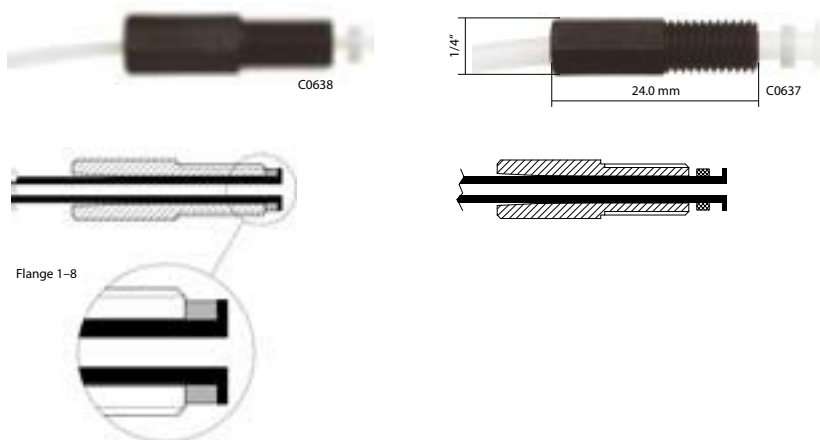
For flanging tubing we recommend the VICI Jour Easy Flange Kit (see page 24)



Flangeless type: Inverted ferrule connection

No flanging tools required.

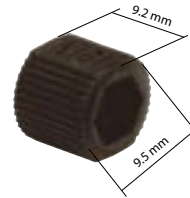
Part No.	Description	Qty/pkg
JR-55070-10	Nut, PPS, flangeless 1/16", 1/4"-28	10
JR-55071-10	Nut, PPS, flangeless 1/8", 1/4"-28	10
JR-041-10	Ferrule, ETFE, 1/16"	10
JR-051-10	Ferrule, ETFE, 1/8"	10



Flanged type: Flange/washer connection

Solvent comes only into contact with the tubing.

Part No.	Description	Qty/pkg
JR-55060-10	Nut, PPS, flanged 1/16", 1/4"-28	10
JR-55061-10	Nut, PPS, flanged 1/8", 1/4"-28	10
JR-201926-10	Washer, PP, flanged, 1/16"	10
JR-201928-10	Washer, PP, flanged, 1/8"	10



SPECS

Material
Adapters: Polypropylene

Color-Sleeve – fingertight adapter

This sleeve is useful to color code different solvent lines and it turns the new VICI Jour low pressure nut into a fingertight fitting in an instant. The Color-Sleeve is available in 12 colors.

Part No.	Description	Qty/pkg
JR-55080-10	Adapter, PP, fingertight sleeve, natural	10
JR-55081-10	Adapter, PP, fingertight sleeve, white	10
JR-55082-10	Adapter, PP, fingertight sleeve, dark grey	10
JR-55083-10	Adapter, PP, fingertight sleeve, black	10
JR-55084-10	Adapter, PP, fingertight sleeve, lavender	10
JR-55085-10	Adapter, PP, fingertight sleeve, red	10
JR-55086-10	Adapter, PP, fingertight sleeve, yellow	10
JR-55087-10	Adapter, PP, fingertight sleeve, orange	10
JR-55088-10	Adapter, PP, fingertight sleeve, brown	10
JR-55089-10	Adapter, PP, fingertight sleeve, green	10
JR-55090-10	Adapter, PP, fingertight sleeve, blue	10
JR-55091-10	Adapter, PP, fingertight sleeve, purple	10
JR-5508X-24	Adapter, PP, fingertight sleeve, assorted 2 pcs. per color	24
JR-5508X-12	Adapter, PP, fingertight sleeve, assorted 2 pcs. each blue, red, green, yellow, black, white	12

PEEK Color Coded Flangeless Nuts

SPECS

Material

Nuts: PEEK
Ferrules: ETFE

Dimensions

For 1/16" and 1/8" OD tubing
Others: see illustration

Threads

1/4"-28

Pressure rating

1/16" up to 105 bar (1500 psi)
1/8" up to 35 bar (500 psi)
Varies with tubing material and ID

PEEK Color Coded Flangeless Nuts

- Flange-Free – Compatible with All 1/4"-28 Flat Bottom Ports
- Excellent Chemical Resistance
- Fits 1/16" or 1/8" OD Tubing
- True Fingertight – No Tools Required

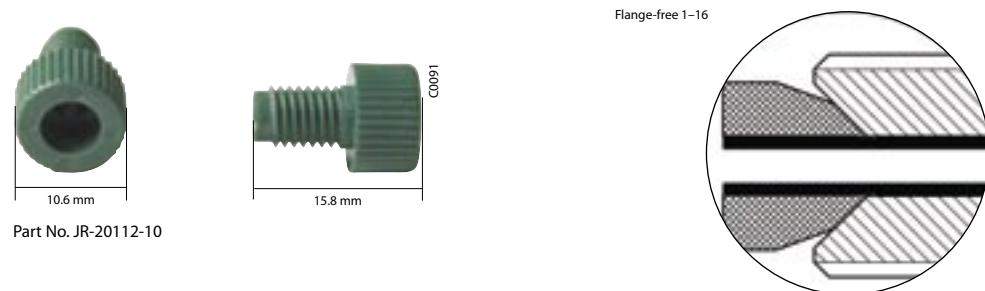
PEEK Flangeless Nuts in combination with the inverted ferrule do not require flanging tools. A hand tightening procedure makes leak free seals. The inert ETFE ferrule is the only part, besides the tubing, which is in

contact with the fluid – the nut is not in direct contact with the fluid stream (see illustration) Six colors are available.



PEEK Color Coded Flangeless Nuts 1/16"

Part No.	Description	Color	Qty/pkg
JR-20124-10	Nut, PEEK, flangeless	Natural	10
JR-20125-10	Nut, PEEK, flangeless	Yellow	10
JR-20126-10	Nut, PEEK, flangeless	Red	10
JR-20127-10	Nut, PEEK, flangeless	Blue	10
JR-20128-10	Nut, PEEK, flangeless	Green	10
JR-20129-10	Nut, PEEK, flangeless	Black	10
JR-041-10	Ferrule, ETFE, 1/16"		10



PEEK Color Coded Flangeless Nuts 1/8"

Part No.	Description	Color	Qty/pkg
JR-20112-10	Nut, PEEK, flangeless	Green	10
JR-20113-10	Nut, PEEK, flangeless	Blue	10
JR-20114-10	Nut, PEEK, flangeless	Yellow	10
JR-20115-10	Nut, PEEK, flangeless	Red	10
JR-20116-10	Nut, PEEK, flangeless	Natural	10
JR-20117-10	Nut, PEEK, flangeless	Black	10
JR-051-10	Ferrule, ETFE, 1/8"		10



Polyacetal Color Coded Flangeless Nuts

- Value for Money Alternative to PEEK
- Flange-Free – Compatible with All 1/4"-28 Flat Bottom Ports
- Fits 1/16" or 1/8" OD Tubing
- True Fingertight – No Tools Required

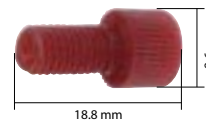
Polyacetal Flangeless Nuts in combination with the inverted ferrule do not require flanging tools. A hand tightening procedure makes leak free seals. The inverted ETFE ferrule is the only part, besides the tubing,

which is in contact with the fluid – the nut is not in direct contact with the fluid stream (see illustration) Six colors are available.

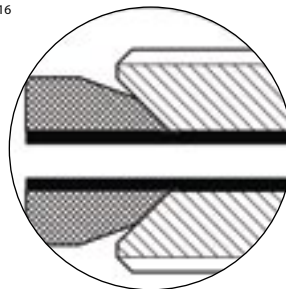


Polyacetal Color Coded Flangeless fingertight Nuts 1/16"

Part No.	Description	Color	Qty/pkg
JR-040GR-10	Nut, Polyacetal, flangeless 1/16"	green	10
JR-040BL-10	Nut, Polyacetal, flangeless 1/16"	blue	10
JR-040YL-10	Nut, Polyacetal, flangeless 1/16"	yellow	10
JR-040RE-10	Nut, Polyacetal, flangeless 1/16"	red	10
JR-040WH-10	Nut, Polyacetal, flangeless 1/16"	white	10
JR-040BK-10	Nut, Polyacetal, flangeless 1/16"	black	10
JR-040WL-10	Nut, Polyacetal, flangeless 1/16", 1" long	white	10
JR-041-10	Ferrule, ETFE, 1/16"		10

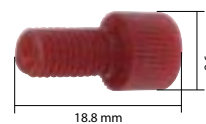


Flange-free 1-16



Polyacetal Color Coded Flangeless fingertight Nuts 1/8"

Part No.	Description	Color	Qty/pkg
JR-050GR-10	Nut, Polyacetal, flangeless 1/8"	green	10
JR-050BL-10	Nut, Polyacetal, flangeless 1/8"	blue	10
JR-050YL-10	Nut, Polyacetal, flangeless 1/8"	yellow	10
JR-050RE-10	Nut, Polyacetal, flangeless 1/8"	red	10
JR-050WH-10	Nut, Polyacetal, flangeless 1/8"	white	10
JR-050BK-10	Nut, Polyacetal, flangeless 1/8"	black	10
JR-050WL-10	Nut, Polyacetal, flangeless 1/8", 1" long	white	10
JR-051-10	Ferrule, ETFE, 1/8"		10



SPECS

Material

Nuts: Polyacetal
Ferrules: ETFE

Dimensions

For 1/16" and 1/8" OD Tubing
Others: see illustration

Threads

1/4"-28

Pressure rating

1/16" up to 70 bar (1000 psi)
1/8" up to 35 bar (500 psi)
Varies with tubing material and ID

Note

Flangeless Fittings for 1/4" OD tubing available: see spare parts for Unions on page 56

Polypropylene Flanged Fingertight Nuts

SPECS

Material

Nuts: Fiber Glass reinforced Polypropylene
Washers: Polypropylene

Dimensions

For OD 1/16", 1/8" Tubing
Others: see illustration

Threads

1/4"-28

Pressure rating

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

Tech Tip

We recommend our Easy Flange Kit for flanging tubing (see page 24).

Polypropylene Flanged Fingertight Nuts

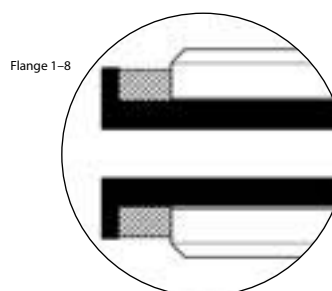
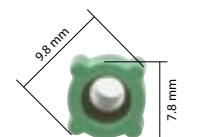
- For Flanged Connections
- Compatible to All 1/4"-28 Flat Bottom Ports
- For 1/16" or 1/8"OD Tubing
- Fiber Glass Reinforced PP with PP Washers

A number of chromatography systems still require, or prefer flanged connections. Consequently, we offer a series of such nuts. By flanging the tubing, the washer never comes in contact with the mobile phase.



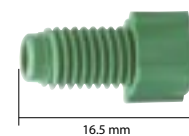
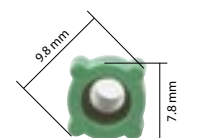
Flanged Fingertight Nuts 1/16"

Part No.	Description	Color	Qty/pkg
JR-201094BK-10	Nut, PP, flanged	black	10
JR-201094WH-10	Nut, PP, flanged	white	10
JR-202118-10	Nut, PP, flanged, x-long 1"	black	10
JR-202120-10	Nut, PP, flanged, x-long 1"	white	10
JR-202122-10	Nut, PP, flanged	blue	10
JR-202123-10	Nut, PP, flanged	green	10
JR-202124-10	Nut, PP, flanged	yellow	10
JR-202125-10	Nut, PP, flanged	red	10
JR-201926-10	Washer, PP, flanged 1/16"		10



Flanged Fingertight Nuts 1/8"

Part No.	Description	Color	Qty/pkg
JR-201580BK-10	Nut, PP, flanged	black	10
JR-201580WH-10	Nut, PP, flanged	white	10
JR-202119-10	Nut, PP, flanged, x-long 1"	white	10
JR-202121-10	Nut, PP, flanged, x-long 1"	black	10
JR-202142-10	Nut, PP, flanged	blue	10
JR-202143-10	Nut, PP, flanged	green	10
JR-202144-10	Nut, PP, flanged	yellow	10
JR-202145-10	Nut, PP, flanged	red	10
JR-201928-10	Washer, PP, flanged 1/8"		10

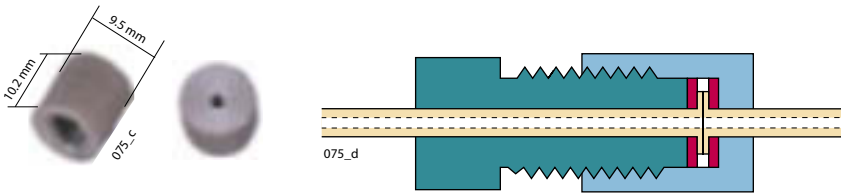




Flanged Tubing Connector

- For Easy Connection of Flanged Tubing
- For 1/16" and 1/8" Tubing
- Zero Dead Volume

The VICI Flanged Tubing Connector fits all of our flanged fittings. With its female 1/4"-28 thread it is designed for use on tubing with a flanged end. We recommend them instead of a union to make a Zero Dead Volume connection.



Flanged Tubing Union

Part No.	Description
JR-CEN1PK	Flanged Tubing Connector, 1/16"
JR-CEN2PK	Flanged Tubing Connector, 1/8"

SPECS

Material
PEEK

Threads
1/4"-28

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

Tech Tip
We recommend our Easy Flange Kit for flanging tubing (see page 24).

Unions

SPECS

Materials

Unions: PEEK, Polyamid
Nuts: PEEK, Polyacetal
Ferrules: ETFE, CTFE

Dimensions

See illustrations

Threads

Unions: 1/4"-28
Reducing Union: 1/2"-20 to 1/4"-28

Pressure Rating of PEEK Unions

1/16" up to 105 bar (1500 psi)
1/8" up to 35 bar (500 psi)
Varies with tubing material and ID

Note

Complete versions with 0.50 and 0.75 bore are supplied with PPS flangeless nuts and ETFE ferrules for 1/16" OD tubing (see page 50).

Complete versions with 1.30 mm bore are supplied with PEEK flangeless nuts and ETFE ferrules for 1/8" OD tubing (see page 50).

The Reducing Union is supplied with Polyacetal flangeless nuts and ferrules (ETFE/CTFE) for 1/8" and 1/4" OD tubing

Tech Tip

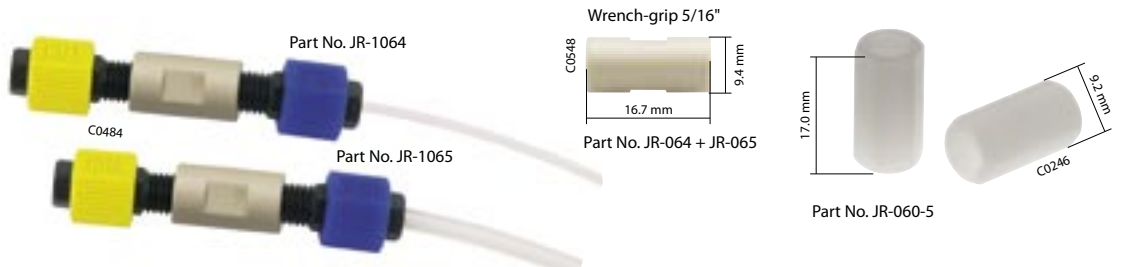
VICI Unions have 1/4"-28 flat bottom ports. All of our three different sealing options (collapsible ferrule, inverted ferrule or flanged with washer) can be used (see pages 49–54).

To avoid diffusion of gases in your solvent line use our No-Ox tubing on page 18.

Unions

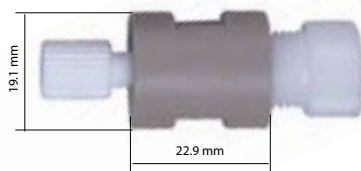
- For Easy Connection of Low Pressure Solvent Lines
- Low Dead Volume
- Completely Inert and Biocompatible

These unions allow the connection of two pieces of 1/16", 1/8" or 1/8" to 1/4" OD tubing quickly and reliably. The unions are inert and biocompatible.



Unions

Part No.	Description	Qty/pkg
JR-060-5	Union, Polyamid, through bore LP body only, 1/4"-28, for flanged tubing only	5
JR-1064	Union, PEEK, LP 0.5 mm bore, complete	1
JR-1068	Union, PEEK, LP 0.75 mm bore, complete	1
JR-1065	Union, PEEK, LP 1.3 mm bore, complete	1
JR-064	Union, PEEK, LP 0.5 mm bore, body only	1
JR-068	Union, PEEK, LP 0.75 mm bore, body only	1
JR-065	Union, PEEK, LP 1.3 mm bore, body only	1



Reducing Union

Part No.	Description
JR-CU4LPK	Reducing Union, PEEK, LP 1.5 mm bore 1/4" to 1/8", complete

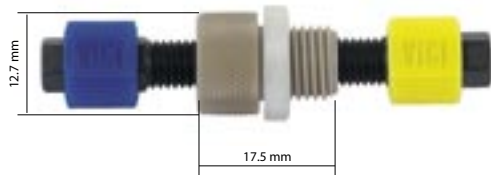
Spare Parts

Part No.	Description	Qty/pkg
JR-20129-10	Nut, Peek, flangeless 1/16", black	10
JR-20117-10	Nut, Peek, flangeless 1/8", black	10
JR-041-10	Ferrule, ETFE, 1/16"	10
JR-051-10	Ferrule, ETFE, 1/8"	10
R-050WH-10	Nut, Polyacetal, flangeless 1/8", white	10
JR-CFL-4D	Nut, Polyacetal, flangeless 1/4"	1
JR-CFL-CB4KF-S	Ferrule, CTFE, 1/4"	1



Bulkhead Unions

- Panel mounting
- For Easy Connection of Low Pressure Solvent Lines
- Low Dead Volume
- Completely Inert and Biocompatible



Bulkhead Unions

Part No.	Description
JR-CBUMPK	Bulkhead Union, PEEK, LP 0.75 mm bore, complete
JR-CBULPK	Bulkhead Union, PEEK, LP 1.50 mm bore, complete

Spare Parts

Part No.	Description	Qty/pkg
JR-55070-10	Nut, PPS, flangeless 1/16"	10
JR-55071-10	Nut, PPS, flangeless 1/8"	10
JR-041-10	Ferrule, ETFE, 1/16"	10
JR-051-10	Ferrule, ETFE, 1/8"	10
JR-55086-10	Adapter, PP, fingertight sleeve, yellow	10
JR-55090-10	Adapter, PP, fingertight sleeve, blue	10

Adapters available in different colors (see page 51)

SPECS

Material

Unions: PEEK
Nuts: PPS
Ferrules: ETFE
Sleeves: Polypropylene

Dimensions

See illustration

Threads

Unions: 1/4"-28

Pressure Rating

1/16" up to 105 bar (1500 psi)
1/8" up to 35 bar (500 psi)
Varies with tubing material and ID

Note

0.75 mm bore version is supplied with PPS flangeless fittings and ETFE ferrules for 1/16" OD tubing (see page 50).

1.50 mm bore version is supplied with PPS flangeless fittings and ETFE ferrules for 1/8" OD tubing (see page 50).

Tech Tip

Bulkhead Unions require a min. 10 mm panel hole.

PEEK Tees, Crosses and Manifolds Low Pressure

SPECS

Material

Body: PEEK
Fittings: PPS
Ferrules: ETFE
Sleeves: Polypropylene

Dimensions

Tees and Crosses
Diameter (body): 25.0 mm
Thickness: 12.0 mm

Manifolds 5 ports
Diameter (body): 22.2 mm
Thickness (body): 17.1 mm

Manifolds 9 ports
Diameter (body): 22.2 mm
Thickness (body): 28.6 mm

Threads

1/4"-28

Pressure Rating

1/16" up to 105 bar (1500 psi)
1/8" up to 35 bar (500 psi)
Varies with tubing material and ID

Note

Complete versions with 0.50, 0.75 and 0.80 mm bore are supplied with PPS flangeless nuts and ETFE ferrules for 1/16" OD tubing (see page 50).

Complete versions with 1.50 mm bore are supplied with PPS flangeless nuts and ETFE ferrules for 1/8" OD tubing (see page 50).

Tech Tip

VICI PEEK Tees, Crosses & Manifolds have 1/4"-28 flat bottom ports. All of our three different sealing options (collapsible ferrule, inverted ferrule or flanged with washer) can be used (see pages 49-54).

To avoid diffusion of gases in your solvent line use our No-Ox tubing on page 18.

PEEK Tees, Crosses and Manifolds Low Pressure

- Biocompatible
- Different Bore Sizes Available
- For 1/16" and 1/8" OD Tubing
- 1/4"-28 Ports

VICI Tees, Crosses and Manifolds for low pressure applications are machined from PEEK. The bodies have 1/4"-28 female ports which accept any flanged or flangeless fitting for 1/16" and 1/8" OD tubing. Choose

0.80 mm and smaller thru-holes for applications where low flow rate or low dead volume is required. Tees, Crosses and Manifolds with 1.50 mm thru-holes are preferred for high-flow rate applications.

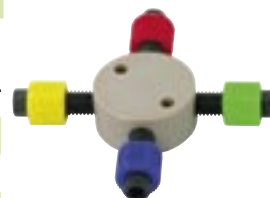
PEEK Tees

Part No.	Description
JR-6029	Tee, PEEK, LP bore 0.50 mm, complete
JR-6030	Tee, PEEK, LP bore 0.8 mm, complete
JR-6031	Tee, PEEK, LP bore 1.5 mm, complete
JR-6034	Tee, PEEK, LP bore 0.50 mm, body only
JR-6032	Tee, PEEK, LP bore 0.8 mm, body only
JR-6033	Tee, PEEK, LP bore 1.5 mm, body only



PEEK Crosses

Part No.	Description
JR-6039	Cross, PEEK, LP bore 0.50 mm, complete
JR-6040	Cross, PEEK, LP bore 0.8 mm, complete
JR-6041	Cross, PEEK, LP bore 1.5 mm, complete
JR-6044	Cross, PEEK, LP bore 0.50 mm, body only
JR-6042	Cross, PEEK, LP bore 0.8 mm, body only
JR-6043	Cross, PEEK, LP bore 1.5 mm, body only



PEEK Manifolds

Part No.	Description
JR-C5M1PK	Manifold, PEEK, 5 ports LP 0.75 mm, complete
JR-C5M2PK	Manifold, PEEK, 5 ports LP 1.50 mm, complete
JR-C9M1PK	Manifold, PEEK, 9 ports LP 0.75 mm, complete
JR-C9M2PK	Manifold, PEEK, 9 ports LP 1.50 mm, complete



Spare Parts

Part No.	Description	Qty/pkg
JR-55070-10	Nut, PPS, flangeless 1/16", 1/4"-28	10
JR-55071-10	Nut, PPS, flangeless 1/8", 1/4"-28	10
JR-041-10	Ferrule, ETFE, 1/16"	10
JR-051-10	Ferrule, ETFE, 1/8"	10

Color-Sleeves – fingertight adapters: see page 51



PEEK Biocompatible Mixing Tees – Low Pressure

- For Low Pressure Mixing
- Completely Biocompatible
- Mountable

A unique mixing is the result of the turbulence generated by the introduction angle of the solvents. The streams mix more thoroughly than with a conventional tee.



PEEK Biocompatible Mixing Tees – Low Pressure

Part No.	Description
JR-CM1XPK	Mixing Tee, PEEK, 0.75 mm bore, complete
JR-CM2XPK	Mixing Tee, PEEK, 1.50 mm bore, complete

Spare Parts

Part No.	Description	Qty/pkg
JR-55070-10	Nut, PPS, flangeless 1/16", 1/4"-28	10
JR-55071-10	Nut, PPS, flangeless 1/8", 1/4"-28	10
JR-041-10	Ferrule, ETFE, 1/16"	10
JR-051-10	Ferrule, ETFE, 1/8"	10

Color-Sleeves – fingertight adapters: see page 51

SPECS

Material

Body: PEEK
 Fittings: PPS
 Ferrules: ETFE

Dimensions

Length (body): 44.5 mm
 Thickness: 22.2 mm

Threads

1/4"-28

Pressure rating

1/16" up to 105 bar (1500 psi)
 1/8" up to 35 bar (500 psi)
 Varies with tubing material and ID

Note

0.75 bore version is supplied with PPS flangeless fittings and ferrules for 1/16" OD tubing (see page 50).

1.50 mm bore version is supplied with PPS flangeless fittings and ferrules for 1/8" OD tubing (see page 50).

Manual Flow Selection Valves

SPECS

Material

Wetted parts: PTFE, CTFE
 Body: Polyacetal
 Fittings: PPS
 Ferrule: ETFE
 Rotor bar: SS

Dimensions

Bore: 0.8 mm
 Others: see illustration

Threads

1/4"-28

Pressure Rating

< 35 bar (< 500 psi)
 Varies with tubing material and ID

Note

Complete versions are supplied with PPS flangeless nuts and ETFE ferrules for 1/16" OD tubing.

Valves can also be used with 1/8" OD tubing. 1/8" nuts and ferrules: see spare parts.

Tech Tip

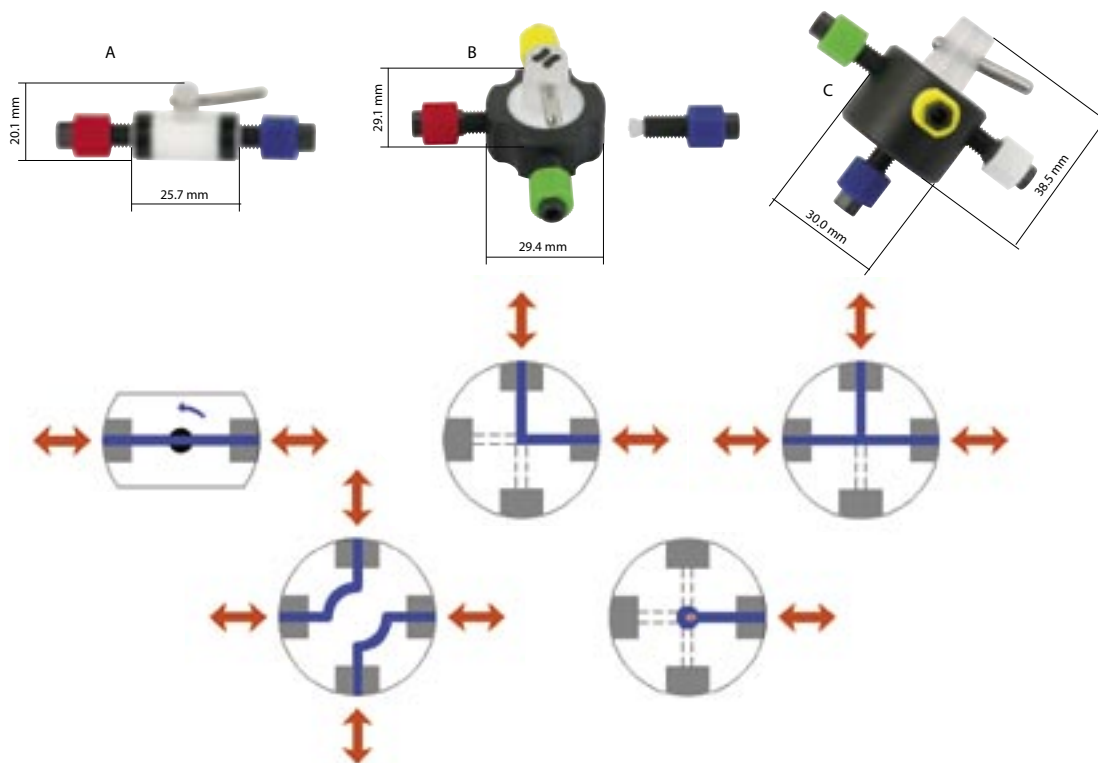
VICI Manual Flow Selection Valves have 1/4"-28 flat bottom ports. All of our three different sealing options (collapsible ferrule, inverted ferrule or flanged with washer) can be used (see pages 49-54).

To avoid diffusion of gases in your solvent line use our No-Ox tubing on page 18.

Manual Flow Selection Valves

- Several Flow Patterns Available
- Biocompatible and Inert
- Pressure Resistant up to 35 bar (500 psi)
- Low Dead Volume

VICI Jour Manual Valves are the ideal tools for liquid flow selection. The valves are mountable and are pre-fitted with the new VICI Jour PPS 1/4"-28 Fittings and ETFE Ferrules for 1/16" OD tubing.



Manual Flow Selection Valves

Part No.	Description	
JR-MSV2S	Valve, 2-port, manual, on/off, complete	A
JR-MSV4L	Valve, 4-port, manual, L-flow, complete	B
JR-MSV4T	Valve, 4-port, manual, T-flow, complete	B
JR-MSV4P	Valve, 4-port, manual, 2 pairs, complete	B
JR-MSV5D	Valve, 5-port, manual, distribution 1 inlet to 4 outlets, complete	C

Spare Parts

Part No.	Description	Qty/pkg
JR-55070-10	Nut, PPS, flangeless 1/16", 1/4"-28	10
JR-55071-10	Nut, PPS, flangeless 1/8", 1/4"-28	10
JR-041-10	Ferrule, ETFE, 1/16"	10
JR-051-10	Ferrule, ETFE, 1/8"	10

Color-Sleeves – fingertight adapters: see page 51



Peristaltic Tubing Adapter Set

- For Connecting Soft Tubing to PTFE & PTFE Like Tubing
- Works With Peristaltic Tubing up to 4.50 mm OD
- For 1/16" and 1/8" PTFE & PTFE Like Tubing
- Biocompatible
- Low Dead Volume

The "One-Fits-All" set consists of everything to connect 1/16" and 1/8" OD PTFE & PTFE like tubing to soft tubing like silicone up to 4.50 mm OD. The adapter

comes with three different bushings (for the different soft tubing ODs) and two Fittings/Ferrules (one each for 1/16" and 1/8" OD tubing).



Peristaltic Tubing Adapter Set

Part No.	Description
JR-PTAS	Adapter, PEEK, for Peristaltic to PTFE tubing connections, complete

SPECS

Material

Body and Bushings: PEEK
 Fittings: PPS
 Ferrules: ETFE

Dimensions

Bore: 0.50 mm
 Length: 28 mm (without Fitting)
 Diameter: 12 mm

Threads

Barbed to 1/4"-28

Tech Tip

The set is equipped with fittings and ferrules for inverted ferrule connections. The adapter also works with our other sealing options (see pages 49-54)


















Low Pressure Polypropylene Adapters

SPECS

Material
Polypropylene

Low Pressure Polypropylene Adapters

Low Pressures Polypropylene Adapters

Part No.	Description		Qty/pkg
JR-070211-10	Adapter, PP, male Luer to 1/16" barbed		10
JR-070212-10	Adapter, PP, male Luer to 3/32" barbed		10
JR-070213-10	Adapter, PP, male Luer to 1/8" barbed		10
JR-070111-10	Adapter, PP, female Luer to 1/16" barbed		10
JR-070112-10	Adapter, PP, female Luer to 3/32" barbed		10
JR-070113-10	Adapter, PP, female Luer to 1/8" barbed		10
JR-070101-10	Adapter, PP, female to female Luer		10
JR-070124-10	Adapter, PP, female Luer to 10-32 male		10
JR-070123-10	Adapter, PP, female Luer to 1/4"-28 male		10
JR-071123-10	Adapter, PP, 1/4"-28 male to 1/16" barbed		10
JR-071323-10	Adapter, PP, 1/4"-28 male to 1/8" barbed		10
JR-072350-10	Adapter, PP, plug 1/4"-28 male		10
JR-071124-10	Adapter, PP, 10-32 male to 1/16" barbed		10
JR-071324-10	Adapter, PP, 10-32 male to 1/8" barbed		10
JR-072450-10	Adapter, PP, plug 10-32 male		10
JR-070224-10	Adapter, PP, male Luer to 10-32 male		10
JR-070225-10	Adapter, PP, male Luer to 1/4"-28 female		10



Flanged Fittings Kit

- A complete Kit of Flanged Fittings and accessories
- All Parts Biocompatible
- Excellent chemical resistance

The Flanged Fittings Kit contains all the materials that are required to make flanged connections for 1/16" and 1/8" OD tubing: flanged fittings, washers, unions,

4 different tubing sizes, our Clean-Cut Tubing Cutter, and a pair of tweezers.



SPECS

Tech Tip
Use our Easy Flange Kit for flanging your Tubing (see Page 24)

Flanged Fittings Kit

Part No.	Description
JR-201529	Flanged Fitting Kit



C0577

INDEX

Last Drop Mobile Phase Filter	65
Last Drop Filter/Spargers	66
Economy Last Drop Mobile Phase Filters	67
No-Met Biocompatible Mobile Phase Filter	68
SS Mobile Phase Filters & Helium Spargers	69
In-Line Low Pressure Filter Cartridges	70
PEEK In-Line Filter Kit – High Pressure	71
PEEK Pre-Column Filter Kit – High Pressure	72
Sure-Guard	73
SS High-Pressure In-Line Filter	74

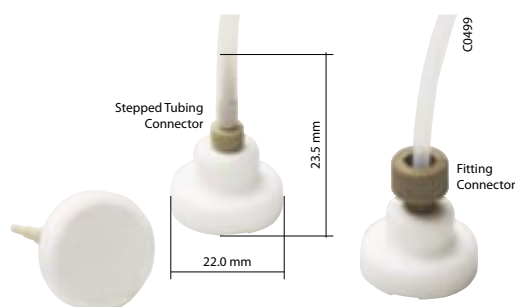


Last Drop Mobile Phase Filter

- No Loss of Mobile Phase
- Biocompatible PTFE Frits or SS Frits
- Three Different Porosities
- Two Connector Types

The Last Drop Mobile Phase Filter utilizes a flat filter element which sits parallel to the bottom of the reservoir. This design allows the filter to draw all but the last 2% of the mobile phase from the reservoir without drawing air into the system. Conventional cylindrical mobile phase filters begin to draw air into the

system when less than 10% of the solvent remains in the reservoir. We recommend the metal free PTFE version for sensitive biochromatography applications where metal surfaces may corrode and contaminate the solvent with ions.



Last Drop Mobile Phase Filters

Part No.	Description
JR-9000-0520	Filter, PTFE, Last Drop 2.5 μm , stepped tubing connector
JR-9000-0520F	Filter, PTFE, Last Drop 2.5 μm , fitting connector
JR-9000-0521	Filter, PTFE, Last Drop 5 μm , stepped tubing connector
JR-9000-0521F	Filter, PTFE, Last Drop 5 μm , fitting connector
JR-9000-0522	Filter, PTFE, Last Drop 10 μm , stepped tubing connector
JR-9000-0522F	Filter, PTFE, Last Drop 10 μm , fitting connector
JR-9000-0530	Filter, SS, Last Drop 2 μm , stepped tubing connector
JR-9000-0530F	Filter, SS, Last Drop 2 μm , fitting connector
JR-9000-0531	Filter, SS, Last Drop 5 μm , stepped tubing connector
JR-9000-0531F	Filter, SS, Last Drop 5 μm , fitting connector
JR-9000-0532	Filter, SS, Last Drop 10 μm , stepped tubing connector
JR-9000-0532F	Filter, SS, Last Drop 10 μm , fitting connector

SPECS

Materials

Body: PTFE
 Frits: PTFE, SS316 (see chart)
 Tripod: PEEK
 Fitting: PEEK
 Ferrule: ETFE

Dimensions

Fitting: 1/4"-28 for 1/8" OD tubing
 Tripod: for 1.5, 2.2 and 3.5 mm ID tubing.
 Others: see illustration

Spares & Tools

For spare parts see chart on page 66

Last Drop Filter/Spargers

SPECS

Materials

Body: PTFE
 Frits: PTFE, SS316 (see chart)
 Tripod: PEEK
 Fitting: PEEK
 Ferrule: ETFE

Dimensions

Fitting: 1/4"-28 for 1/8" OD tubing
 Tripod: for 1.5, 2.2 and 3.5 mm ID tubing.
 Others: see illustration

Tech Tip

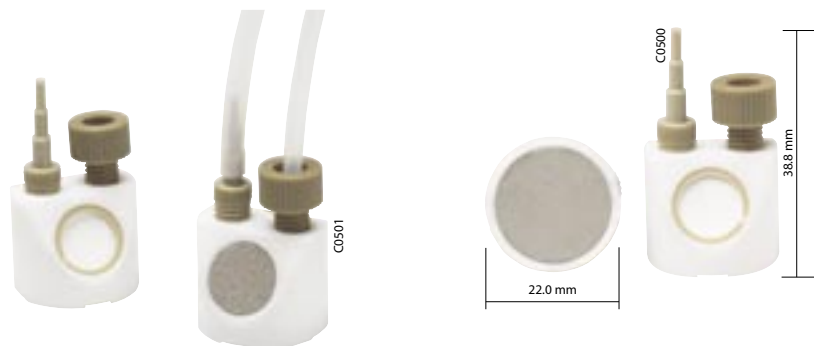
We recommend our No-Ox tubing to prevent "regassing" of Helium degassed solvents (see page 18)

Last Drop Filter/Spargers

- Parallel Filtering and Sparging
- Biocompatible PTFE Frits or SS Frits
- Three Different Porosities

This Filter/Sparger filter combines filtration and sparging in one single unit. The PTFE housing contains a mobile phase filter, either a stainless steel or a

PTFE filter element. The stepped PEEK connector is for the solvent line, the fitting connection for the Helium line.



Last Drop Filter/Spargers

Part No.	Description
JR-9000-0602	Filter/Sparger, PTFE, Last Drop 2.5 µm filter, 10 µm sparger
JR-9000-0603	Filter/Sparger, PTFE, Last Drop 5 µm filter, 10 µm sparger
JR-9000-0604	Filter/Sparger, PTFE, Last Drop 10 µm filter, 10 µm sparger
JR-9000-0640	Filter/Sparger, SS, Last Drop 2 µm filter, 10 µm sparger
JR-9000-0641	Filter/Sparger, SS, Last Drop 5 µm filter, 10 µm sparger
JR-9000-0642	Filter/Sparger, SS, Last Drop 10 µm filter, 10 µm sparger

Spare Parts

Part No.	Description	Qty/pkg
JR-20116-10	Nut, PEEK, flangeless, 1/8", natural	10
JR-051-10	Ferrule, ETFE, 1/8"	10
JR-8000-0485	Tripod Adapter, PEEK, universal	1



Economy Last Drop Mobile Phase Filters

- Very Competitively Priced
- Biocompatible PTFE Frits or SS Frits
- Three Different Porosities
- Two Diameters

We can offer Economy Mobile Phase Filters in 2 sizes, depending upon the dimension of the bottleneck. The filter body is made of PTFE which has been specially selected to be resistant against virtually all com-

mon mobile phases. We recommend the 2 µm porosity for flow rates less than 10 mL/min. For higher flow rates use the 10 µm filters.



Economy Last Drop Mobile Phase Filter

Part No.	Description
JR-4676-2.5TF	Filter, PTFE, Economy mobile phase 2,5 µm, OD 19 mm
JR-4676-5TF	Filter, PTFE, Economy mobile phase 5 µm, OD 19 mm
JR-4676-10TF	Filter, PTFE, Economy mobile phase 10 µm, OD 19 mm
JR-4677-2.5TF	Filter, PTFE, Economy mobile phase 2,5 µm, OD 22 mm
JR-4677-5TF	Filter, PTFE, Economy mobile phase 5 µm, OD 22 mm
JR-4677-10TF	Filter, PTFE, Economy mobile phase 10 µm, OD 22 mm
JR-4676-2	Filter, SS, Economy mobile phase 2 µm, OD 19 mm
JR-4676-10	Filter, SS, Economy mobile phase 10 µm, OD 19 mm
JR-4677-2	Filter, SS, Economy mobile phase 2 µm, OD 22 mm
JR-4677-10	Filter, SS, Economy mobile phase 10 µm, OD 22 mm

SPECS

Material

Body: PTFE
Frits: PTFE/SS316 (see chart)

Dimension

For 1/8" OD tubing
Others: see illustration

Tech Tip

Easy to replace – easy to clean
– use ultrasound or replace with new

We recommend our tubing JR-T-6800-M3 (1/8" OD x 1.60 mm ID) for connecting the filter (see page 15)

No-Met Biocompatible Mobile Phase Filter

SPECS

Material

Body: Polyethylene/PTFE
(see chart)
Adapter: PEEK
Fitting: PEEK
Ferrule: ETFE

Dimension

See illustration

Tech Tip

The Polyethylene filter is hydrophobic, therefore it may initially require some priming with methanol or acetonitrile.

Spares & Tools

We recommend our tubing JR-T-6800-M3 (1/8" OD x 1.60 mm ID) for connecting the filter (see page 15)

No-Met Biocompatible Mobile Phase Filter

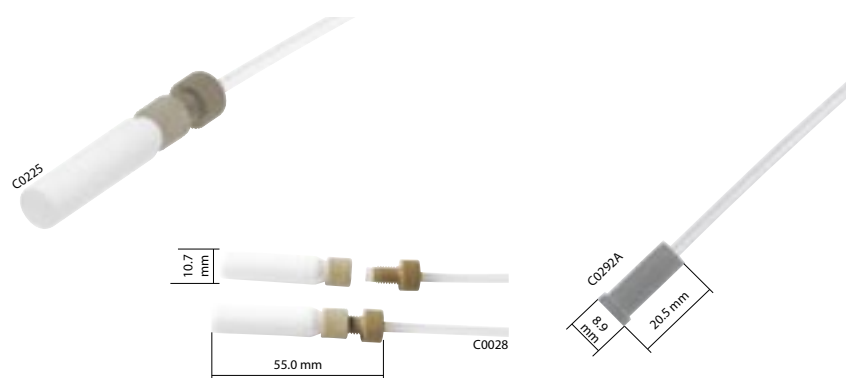
- Very Competitively Priced
- Inert and Biocompatible
- Replacement Filters
- Also Recommended for IC

Stainless steel is not an acceptable material for a growing number of applications involving the separation of labile macro biomolecules. It is of great importance that all of the biological activity of the samples is retained and that the biological specificity remains unchanged.

High salt buffer concentrations can corrode stainless steel and the metal ions released from these filters

may react with the biomolecules of interest or even contaminate the eluents in Ion chromatography.

The No-met filters are designed from inert polymeric components, which effectively eliminate metal contamination of the fluid path. The economy version can be easily slipped over 1/8" OD tubing, no fitting required.



No-Met Mobile Phase Filter

Part No.	Description
JR-32171	Filter, PTFE, mobile phase No-Met 5 µm, 1/8"
JR-32172	Filter, PTFE, mobile phase replacement No-Met 5 µm
JR-32178	Filter, PE, mobile phase No-Met < 20 µm, 1/8"
JR-32179	Filter, PE, mobile phase replacement No-Met < 20 µm
JR-32174	Filter, PE, Economy No-Met 5 µm, 1/8"

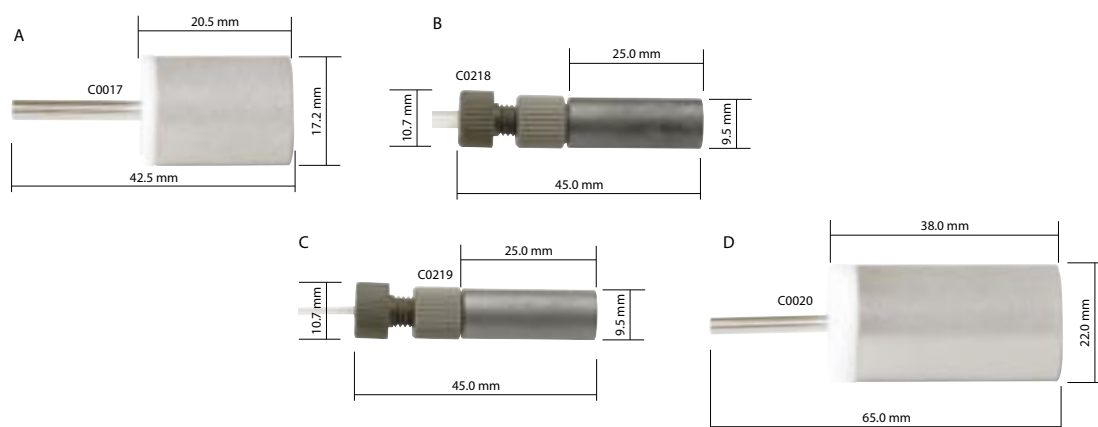


SS Mobile Phase Filters & Helium Spargers

- Ideal for Helium Sparging
- Three Different Porosities
- Fitting and Pipe Connectors

VICI Jour Mobile Phase Filters protect HPLC systems from small particles in the mobile phase. These filters are made from SS316 with PEEK or PTFE connectors and are suitable for most solvents. The complete line has versions for both analytical and preparative applications.

VICI Jour Helium Spargers (2 µm versions) offer an inexpensive way to prepare and maintain mobile phases free of dissolved gases. Connected to a regulated supply of Helium gas (0–400 mL/min) they effectively remove dissolved oxygen, nitrogen and other atmospheric gases from the mobile phase.



Mobile Phase Filters & Helium Spargers

Part No.	Drawing	Porosity	Fitting/Pipe OD	Suggested Max. Flow Rate
JR-3675-2	A	2 µm	1/8" Pipe OD	10 mL/min
JR-367008-2	B	2 µm	1/8" Fitting ID	8 mL/min
JR-367008-10	B	10 µm	1/8" Fitting ID	20 mL/min
JR-367008-20	B	20 µm	1/8" Fitting ID	20 mL/min
JR-367016-2	C	2 µm	1/16" Fitting ID	8 mL/min
JR-367016-10	C	10 µm	1/16" Fitting ID	20 mL/min
JR-367016-20	C	20 µm	1/16" Fitting ID	20 mL/min
JR-3678-2	D	2 µm	1/8" Pipe OD	50 mL/min
JR-3678-25	D	25 µm	1/8" Pipe OD	100 mL/min

SPECS

Material

Body: SS316
 Pipe: SS316
 Pipe Adapter: PTFE
 Fitting Adapter: PEEK
 Fittings: PEEK
 Ferrules: ETFE

Dimension

See illustration

Tech Tip

We recommend our No-Ox tubing to prevent "regassing" of Helium degassed solvents (see page 18)

In-Line Low Pressure Filter Cartridges

SPECS

Material

Cartridge: PTFE/CTFE
Filter Screen: S5316

Dimensions

For All 1/4"-28 fitting details
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 the VICI Unions on page 56. They can be used with other LP solvent line connectors like our Tees, Crosses & Manifolds on page 58 or our VICI Manual Flow Selection Valves on page 60.

In-Line Low Pressure Filter Cartridges

- Easy to Replace
- Compact Design
- Fits All 1/4"-28 Fitting Details
- Three Different Porosities

These filters are convenient since they can be simply dropped into any 1/4"-28 fitting detail. Therefore, all LP solvent line connectors like unions, tees, crosses etc. can be used as cartridge holder. The filter is made

of a stainless steel screen pressed in an inert cartridge. The inner design of the cartridge ensures the equal distribution of the solvent to the screen. (Nut and union shown not included)



In-Line Low/Medium Pressure Filter for LC

Part No.	Description	Qty/pkg
JR-CFE-S2-5	In-Line Filter Cartridge, 2 µm	5
JR-CFE-S10-5	In-Line Filter Cartridge, 10 µm	5
JR-CFE-S75-5	In-Line Filter Cartridge, 75 µm	5



PEEK In-Line Filter Kit – High Pressure

- 100% Biocompatible
- Minimal Hold-up Volume
- Biocompatible PAT Frits or Ti Frits
- Different Porosities

The VICI Jour In-Line Filter traps fines and other particles from samples and mobile phases before they damage valuable instruments and columns.

This design is made entirely of PEEK for biocompatibility and chemical resistance. PAT (PEEK Alloyed with

Teflon) filter elements are used for complete biocompatibility. The design has virtually no hold-up volume and can be used in analytical applications with virtually no band broadening or loss of efficiency.



In-Line Filter Kit – High Pressure

Part No.	Description	Internal Volume μL^*
JR-68250	Filter, PEEK, In-Line, PAT frit PEEK-encased 5 μm	12.4
JR-68251	Filter, PEEK, In-Line, PAT frit PEEK-encased 10 μm	12.4
JR-68247	Filter, PEEK, In-Line, Ti frit PEEK-encased 0.5 μm	4.4
JR-68253	Filter, PEEK, In-Line, Ti frit PEEK-encased 2 μm	5.8

Spare Parts

Part No.	Description	Frit volume μL	Qty/pkg
JR-68152-5	Frit, PAT, PEEK-encased 5 μm	9.77	5
JR-9000-0460-5	Frit, PAT, PEEK-encased 10 μm	9.77	5
JR-1125-05P-5	Frit, Ti, PEEK-encased 0.5 μm	1.77	5
JR-1125-2P-5	Frit, Ti, PEEK-encased 2 μm	3.20	5

SPECS

Material

Body: PEEK
Frit: see chart

Dimensions

Bore 0.25 mm/0.4 mm
See illustration

Threads

10-32 female

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

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

Calculation of frit volume: see Tech Info on page 109

PEEK Pre-Column Filter Kit – High Pressure

SPECS

Material

Body: PEEK
Frit: see chart

Dimensions

Bore 0.25 mm/0.4 mm
See illustration

Threads

10-32 female to 10-32 male

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

* 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.

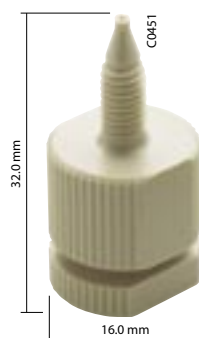
Calculation of frit volume:
see Tech Info on page 109

PEEK Pre-Column Filter Kit – High Pressure

- 100% Biocompatible
- Minimal Hold-up Volume
- Biocompatible PAT Frits or Ti Frits
- Different Porosities

The VICI Jour Pre-Column Filter Kit has a standard 10-32 fitting and fits direct to most column types without introducing an additional dead volume.

The Filter Kit protects expensive columns against fines and particles, which may otherwise accumulate on the column frit, leading to split peaks and high backpressure.



PEEK Pre-Column Filter Kit – High Pressure

Part No.	Description	Internal Volume µL*
JR-68260	Filter, PEEK, pre-column, PAT frit PEEK-encased 5 µm	14.4
JR-68261	Filter, PEEK, pre-column, PAT frit PEEK-encased 10 µm	14.4
JR-68258	Filter, PEEK, pre-column, Ti frit PEEK-encased 0.5 µm	6.4
JR-68262	Filter, PEEK, pre-column, Ti frit PEEK-encased 2 µm	7.8

Spare Parts

Part No.	Description	Frit volume µL	Qty/pkg
JR-68152-5	Frit, PAT, PEEK-encased 5 µm	9.77	5
JR-9000-0460-5	Frit, PAT, PEEK-encased 10 µm	9.77	5
JR-1125-05P-5	Frit, Ti, PEEK-encased 0.5 µm	1.77	5
JR-1125-2P-5	Frit, Ti, PEEK-encased 2 µm	3.20	5



Sure-Guard

- Minimized Hold-up Volume
- Disposable Filter Guard
- Biocompatible Ti and SS Frits
- Two Different Porosities

The VICI Jour Sure-Guard disposable In-Line filter offers an easy and inexpensive way of protecting 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.



Sure-Guard

Part No.	Description	Frit volume μ L	Qty/pkg
JR-0611-SS05-3	Sure-Guard, disposable In-Line Filter, SS frit 0.5 μ m	0.45	3
JR-0611-SS2-3	Sure-Guard, disposable In-Line filter, SS frit 2 μ m	0.61	3
JR-0611-TI05-3	Sure-Guard, disposable In-Line filter, Ti frit 0.5 μ m	0.45	3
JR-0611-TI2-3	Sure-Guard, disposable In-Line filter, Ti frit 2 μ m	0.61	3

SPECS

Material

Body: PEEK
Filter: SS316, Titanium
(see chart)

Dimensions

Bore 0.4 mm
See illustration

Threads

10-32 female to 10-32 male

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

We recommend 2 μ m frits for columns with 5 μ m or larger particles and 0.5 μ m frits for smaller particles.

Spares & Tools

We recommend our striped PEEK tubing for easy identification. (see pages 5-6)

Calculation of frit volume:
see Tech Info on page 109

SS High-Pressure In-Line Filter

SPECS

Material

Body: SS316,
Frit: PEEK encased SS316

Dimensions

Bores: see chart
Others: see illustrations

Filter Dimensions

See page 85

Threads

10-32 female to 10-32 female

Tolerances

+/- 0.05 mm (.002")

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

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

Calculation of frit volume:
see Tech Info on page 109

SS High-Pressure In-Line Filter

- Minimized Hold-up Volume
- High-Pressure Applications up to 350 bar (5000 psi)
- Two Different Bores for Analytical up to Semi Prep Flow Rates
- Three Different Porosities

The VICI Jour SS 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. These in-line filters are the ideal column protectors and available with frit porosities of 0.5, 2 or 5 µm.



SS High-Pressure In-Line Filter

Part No.	Description	Internal Volume µL*
JR-68230-05	Filter, SS, In-Line, 0.25 mm bore, SS 0.5 µm	0.2
JR-68230-2	Filter, SS, In-Line, 0.25 mm bore, SS 2 µm	0.3
JR-68230-5	Filter, SS, In-Line, 0.25 mm bore, SS 5 µm	0.3
JR-68231-05	Filter, SS, In-Line, 0.75 mm bore, SS 0.5 µm	1.7
JR-68231-2	Filter, SS, In-Line, 0.75 mm bore, SS 2 µm	1.9
JR-68231-5	Filter, SS, In-Line, 0.75 mm bore, SS 5 µm	1.9

Spare Parts

Part No.	Description	Frit volume µL	Qty/pkg
JR-1110-05P-5	Frit, SS, PEEK-encased 0.5 µm, for P/N 68230 series	0.14	5
JR-1110-2P-5	Frit, SS, PEEK-encased 2 µm, for P/N 68230 series	0.18	5
JR-1110-5P-5	Frit, SS, PEEK-encased 5 µm, for P/N 68230 series	0.20	5
JR-1111-05P-5	Frit, SS, PEEK-encased 0.5 µm, for P/N 68231 series	0.56	5
JR-1111-2P-5	Frit, SS, PEEK-encased 2 µm, for P/N 68231 series	0.75	5
JR-1111-5P-5	Frit, SS, PEEK-encased 5 µm, for P/N 68231 series	0.81	5